GEI Consultants

Geotechnical
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Engineering

Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
First Quarter (Q1) 2012

Bay Shore/Brightwaters Former Manufactured Gas Plant Site

Town of Islip

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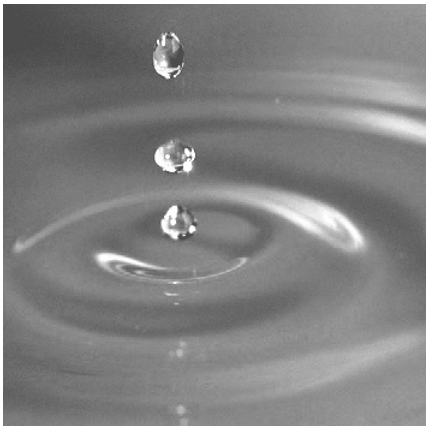

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Executive Summary

This report presents the First Quarter 2012 (Q1 2012) groundwater monitoring (GM) and operations, maintenance and monitoring (OM&M) results for the Bay Shore/Brightwaters former manufactured gas plant (MGP) site located in Bay Shore, Suffolk County, New York. GM and OM&M activities include monitoring groundwater, soil vapor, and ambient air, as well as maintenance and monitoring of the dense non-aqueous phase liquid (DNAPL) recovery and groundwater treatment systems.

Remediation

Non-Aqueous Phase Liquid (NAPL) Gauging and Recovery

Light non-aqueous phase liquid (LNAPL) was not present in monitoring wells gauged during Q1 2012. Trace amounts of LNAPL were first observed in the central section of Operable Unit 1 (OU-1) in one monitoring well in Q1 2010, reaching a maximum thickness of approximately 2 feet in Q4 2010. DNAPL was observed in monitoring wells in the same area and further south in OU-1 during Q1 2012 at a maximum thickness of approximately 5.4 feet. DNAPL has historically been gauged and recovered from OU-1 since Q1 2006. During Q1 2012, approximately 10.5 gallons of DNAPL were recovered from recovery well BBRW-02, located in the vicinity of maximum product thicknesses. DNAPL was also observed in five of 19 temporary recovery wells at thicknesses ranging from zero to 8.4 feet.

Groundwater Treatment

The constituents of concern (COCs) in site groundwater consist of benzene, toluene, ethylbenzene and xylene (BTEX) and polycyclic aromatic hydrocarbons (PAHs), primarily naphthalene and 2-methylnaphthalene. Groundwater remediation systems have been installed to treat the impacted groundwater. An ozone injection system was installed in OU-1 to reduce concentrations of COCs as they pass through the perforated section of the subsurface containment barrier wall and into OU-2. Eight oxygen injection systems were installed to treat impacted groundwater in OU-1, OU-2 and OU-3. These systems are maintained monthly. Operational parameters are adjusted to optimally treat groundwater. These systems have been effective in reducing the COCs in groundwater, as discussed below.

Hydrogeologic Setting and Groundwater Flow

The hydrogeologic regime in the vicinity of the site includes glacial deposits comprising the Upper Glacial aquifer. These deposits consist mainly of inter-bedded layers of permeable sand and gravel, and intermittent less permeable layers of silty sand. The thickness of these deposits is approximately 70 feet.

Groundwater elevation monitoring is conducted to aid in monitoring the groundwater plumes, confirm groundwater flow patterns, and to assist in remedy planning. The depth to groundwater at the site is shallow, generally between approximately 2 and 12 feet below ground surface (bgs). The groundwater flow direction throughout the site is generally towards the south/southeast, with the exception of areas in OU-4, in the vicinity of Watchogue Creek (a.k.a., Crum's Brook), where the groundwater flow direction is more southeasterly. The Q1 2012 groundwater elevations are near average groundwater levels measured over the past 10 years.

Groundwater Quality

The groundwater quality data indicate that remedial activities have generally been successful at reducing the overall concentrations of COCs in groundwater.

Concentrations of COCs in groundwater in OU-1 and OU-2 have been significantly reduced since the implementation of remedial activities. The groundwater treatment systems have been effective at reducing the area and concentrations of impacted groundwater in OU-2.

For OU-3, the area of impacts in Q1 2012 in the Brightwaters Yard is larger in comparison to the depicted area of impacts in Q1 2009, considered a remedial baseline period as discussed further below. However, the magnitude of BTEX concentrations has been reduced significantly. The apparent increased area of impacts in the Brightwaters Yard is due to the installation of five new monitoring well clusters in the Brightwaters Yard (north of the Long Island Rail Road [LIRR] tracks) in Q4 2010. These wells were installed to replace the monitoring wells that were abandoned as part of the excavation activities conducted during the excavation Interim Remedial Measures (IRMs). Some of the new wells were installed farther (laterally) from the center of the impacts than the wells that were identified in the area in Q1 2009. These well installations, along with additional well installations completed in late Q2 2011 in the Brightwaters Yard and the area immediately south of the LIRR tracks, have provided further definition of the groundwater impacts in the area.

The IRMs conducted in OU-3 included the LIRR Excavation/Temporary Track Relocation IRM (Phases 1 and 2) and the LIRR Excavation IRM, Phase 3 (Brightwaters Yard), as summarized in Section 1 of this report. It is expected that the removal of potential source material from the area during the IRMs will result in continued decreasing constituent trends in groundwater throughout the impacted areas of OU-3. Although BTEX and total PAH concentrations continue to vary, the majority of the monitoring wells within the excavation area of the Brightwaters Yard and in the area immediately south of the LIRR tracks have decreasing concentrations, or have remained at or near, detection levels. However, some increased elevated concentrations have been detected immediately downgradient of the excavation IRM in shallow and intermediate wells installed in Q2 2011. These elevated concentrations are likely representative of the discrete screen zones selected for these wells to target the existing impacts.

In the downgradient portion of OU-3 (south of Union Boulevard), elevated concentrations of BTEX and PAHs have been detected, roughly coinciding with the transition between the Union Boulevard oxygen system and the Community Road oxygen injection line, abandonment of the Brightwaters Yard oxygen injection line and the completion of the upgradient excavation IRM. However, decreasing BTEX and PAH trends have been evident in recent sampling events indicating the Community Road oxygen injection line has demonstrated effectiveness in treating impacted groundwater. The impacted area of the intermediate groundwater zone is larger in comparison to the Q1 2009 area, when concentrations above 100 µg/L were not detected. Optimization of the Community Road oxygen injection line was completed in Q1 2012 to target the intermediate zone impacts. Further evaluation of the groundwater impacts in the upgradient area, including potential supplemental groundwater treatment options, are being considered.

The area of impacted groundwater in OU-4 during Q1 2012 has increased slightly since the completion of S-ISCO injection, which was initiated in Q2 2009 and completed in Q4 2009. Pre-injection conditions are depicted in the Q1 2009 plume, which is smaller than the current Q1 2012 plume. The excavation and backfill phase of the OU-4 Excavation IRM was performed in Q2 and Q3 2011. The excavations were performed in the wet (no dewatering). Temporary increases followed by significant decreases in groundwater concentrations have typically been observed in other areas of the site following source material excavations performed in the wet.

Concentration increases identified during Q3 2011, were generally followed by decreases in Q4 2011. The definition of the impacts in OU-4 in Q4 2011 was affected by monitoring well cluster abandonments conducted in the area prior to, and during the excavation IRM and by access restrictions to several monitoring well clusters in the southwestern portion of the Cesspool Area. The groundwater monitoring network was re-evaluated with additional well installations completed in Q1 2012 enabling a more complete assessment of the groundwater conditions in the area. Concentration increases in Q1 2012 were evident relative to Q4 2011, likely attributable to the new monitoring well installations and restoration of access to several wells with historical elevated concentrations. However, when compared to Q3 2011, decreasing trends are apparent.

Soil Vapor

Soil vapor and ambient air have been sampled to evaluate the potential influence of remedial activity on soil vapor concentrations. To date, there has been no indication that remedial activity has impacted long term soil vapor and ambient air concentrations. Soil vapor concentrations have varied significantly throughout the historical monitoring period in each of the OUs. These fluctuations have occurred upgradient and downgradient of remedial injection areas (ozone, oxygen or S-ISCO [downgradient only]). As a result, no correlation between system operation and soil vapor concentrations has been established. Ambient air

sampling is conducted in OU-1 and OU-2. Similar to soil vapor, there has been significant variation in the ambient air sampling results throughout the historical monitoring period.

Future Plans

The GM and OM&M schedule will continue to be evaluated on a quarterly basis to keep the groundwater treatment systems operating as efficiently as possible. Rationale for sampling groundwater and soil vapor will also continue to be evaluated on a quarterly basis.

Proposed modifications or plans to system OM&M and site monitoring are presented below.

NAPL Gauging & Recovery

- The frequency of monitoring and DNAPL recovery in OU-1 will be evaluated on a quarterly basis.
- Based on the results of the DNAPL bailing and recovery rate analysis conducted at existing monitoring wells and temporary recovery wells with measurable thicknesses of DNAPL, one additional permanent recovery well is planned. Following installation, a DNAPL recovery rate analysis will be conducted.

Ozone Groundwater Treatment System

- Develop a long-term sampling plan for groundwater, soil vapor and soil vapor extraction system effluent.

Current Oxygen Injection Systems

- No proposed modifications at this time.

Short-term Groundwater Monitoring

- Continue evaluation of the groundwater impacts in OU-3.

Remedial Activity

OU-1

- One additional permanent DNAPL recovery well is planned for installation in OU-1.
- A shallow soil removal program will be completed in Q3 2012 to remove PAH impacted soils within the LIRR Right-of-Way to facilitate LIRR construction activities.

OU-2

- None

OU-3

- Optimization of the Community Road oxygen injection line was completed in Q1 2012 to target the most highly impacted zones to reduce or eliminate the migration of shallow and intermediate zone groundwater impacts downgradient of Community Road. Further evaluation of the groundwater impacts in the upgradient area, including potential supplemental groundwater treatment options, are being considered.

OU-4

- None

Long-term Monitoring

- Reductions to the long-term groundwater monitoring program were proposed to NYSDEC during Q2 2012. The proposal included the following items:
    - Establish criteria for future reductions in groundwater sampling based on analytical results,
    - Establish analytical requirements for monitoring groundwater,
    - Establish criteria for shut down and removal of groundwater treatment systems,
    - Reduce soil vapor sampling, and
    - Reduce the frequency of the quarterly operation, maintenance and monitoring (OM&M) reporting cycle.

1. Introduction

This report presents the First Quarter 2012 (Q1 2012) groundwater monitoring and operations, maintenance and monitoring (GM and OM&M) activities for the Bay Shore/Brightwaters former manufactured gas plant (MGP) site located in Bay Shore, Suffolk County, New York. This report has been prepared in accordance with the requirements of Section 6 of DER-10, Technical Guidance for Site Investigation and Remediation, and the Order on Consent, Index No. D1-0001-98-11 between National Grid Corporation and the New York State Department of Environmental Conservation (NYSDEC).

In 2003, the site was divided into four operable units (OUs) to more effectively manage investigation and remediation activities. The four OUs are shown on **Figure 1**. The groundwater monitoring results for all four OUs have been included in this report to present an overall picture of trends in groundwater quality. The groundwater trend analysis includes discussion of the effectiveness of the remedial activities which affect groundwater quality in the Upper Glacial aquifer.

GM and OM&M activities include monitoring groundwater, soil vapor, and ambient air, as well as maintenance and monitoring of the dense non-aqueous phase liquid (DNAPL) recovery and groundwater treatment systems. GM and OM&M results are presented in the following sections of the report:

- Section 2 – Remediation Systems
- Section 3 – Groundwater Flow
- Section 4 – Groundwater Quality
- Section 5 – Soil Vapor Sampling Program
- Section 6 – Future Plans

1.1 Background

The former MGP operations began in the late 1880s and continued into the 1970s. Most of the MGP facilities were demolished in 1973. Various remedial investigation activities have been completed at the site. The results of the investigations and discussion of the site history are presented in the Remedial Investigation Report (RIR) (Dvirka and Bartilucci Consulting Engineers [D&B], 2002) and the Final Remedial Investigation Report (D&B, 2003).

A Final Remedial Action Plan (RAP) for OU-1 was approved by the NYSDEC on August 9, 2004. The remedy currently being implemented at OU-1 is detailed in a document titled "Final Remedial Action Plan, Bay Shore Former MGP Site – Operable Unit-1, Bay Shore, New York" (Final RAP) prepared by GEI Consultants, Inc. (GEI) and dated August 2004. In addition to the remedial activities specified in the Final RAP, several interim remedial measures (IRMs) have been conducted since 1999 in OU-1, OU-2, OU-3, and OU-4. A

summary of remedial activities conducted in each OU is presented below. These activities are presented by operable unit on **Figure 2**.

Operable Unit 1 – OU-1 consists of the Bay Shore site, formerly the main operations area of the MGP, as well as properties immediately south of the site which are currently owned by National Grid. **Table 1a** summarizes the remedial actions, IRMs and pilot studies that have been performed in OU-1.

Table 1a – Summary of OU-1 Remedial Activity

Date	OU-1 Remedial Activity	Comment
2004	In-Situ Chemical Oxidation (ISCO) Pilot Studies	Three pilot studies were conducted using Activated Persulfate, Modified Fenton's Reagent and Activated Fenton's Reagent (GEI, 2005).
2006-Present	DNAPL Recovery	A DNAPL recovery system was installed in the offsite area south of the Long Island Rail Road (LIRR) and was implemented as a portion of the Phase I Remedial Activities performed for implementation of the Final RAP (GEI, 2006b) and documented in the DNAPL Pump Test Letter Report (KeySpan, 2006).
2006	Surfactant-Enhanced In-Situ Chemical Oxidation (S-ISCO) Pilot Study	A pilot study was conducted using a surfactant to solubilize MGP-related impacts and Sodium Persulfate to oxidize those impacts (GEI, 2007a).
February-April 2007	OU-1 Southern Cell Excavation	The southern cell excavation was included in Phase I of the OU-1 remedy performed in accordance with the Final RAP. The results are provided in the Phase I and Phase II Remedial Activities, OU-1 Bay Shore Former MGP site, Final Completion Report (PS&S, 2009).
April 2007-May 2008	Subsurface Barrier Wall Installation	The barrier was installed as part of Phase I of the OU-1 remedy performed in accordance with the Final RAP. The final construction details are presented in the Final Completion Report (PS&S, 2009).
February 2008	Oxygen Injection System	An oxygen injection system was installed along the downgradient edge of OU-1 as an IRM to treat groundwater at the perforated portion of the subsurface barrier wall until startup of the full-scale groundwater treatment system was completed (KeySpan, 2007).
August 2007-August-2008	OU-1 Excavation North of the LIRR	The excavation north of the LIRR in OU-1 was performed as Phase II of the OU-1 remedy in accordance with the Final RAP. The final construction details are provided in the Final Completion Report (PS&S, 2009).
October-2009	Ozone Groundwater Treatment System	The installation of the ozone injection groundwater treatment system was performed as Phase IA of the OU-1 remedy (GEI, 2009b) in accordance with the Final RAP (GEI, 2004a).
March-April 2009	66 North Clinton Avenue Excavation	Shallow MGP-impacted soils located outside of the subsurface barrier wall in the western fringe area were removed to the approximately 10 feet bgs as part of Phase IV of the OU-1 remedy (GEI, 2010a) in accordance with the Final RAP (GEI, 2004a).
January-2010	66 North Clinton Avenue Oxygen Injection System	The system was installed as part of Phase IV of the OU-1 remedy to treat groundwater west of the barrier wall (GEI, 2010a).
June 2011	OU-1 Oxygen Injection System Extension	The OU-1 Union Boulevard system was extended in accordance with the OU-2 Remedial Design Document (GEI, 2009a) to treat impacted groundwater east of the subsurface barrier wall.
August-2011	TarGOST® Study	This investigation was performed to delineate potential recoverable NAPL in OU-1, North and South of the Long Island Rail Road (LIRR).in order to locate additional recovery wells.
October 2011	Recovery Well Installations (19 temporary & 1 permanent)	These wells were installed following the TarGOST study. Following DNAPL gauging, bailing and recovery rate testing of wells with measurable DNAPL, one additional permanent recovery well is planned.

Operable Unit 2 – OU-2 consists of the groundwater plume which extends south/southeast from OU-1. The NYSDEC issued a Voluntary Cleanup Program Decision Document for OU-2 in July of 2008. This document specified the installation of a minimum of three oxygen injection systems as the selected remedy for OU-2. A summary of the system installation and IRMs completed in OU-2 is presented in **Table 1b**, below.

Table 1b – Summary of OU-2 Remedial Activity

Date	OU-2 Remedial Activity	Comment
December-2005	Oxygen Injection IRM	The Garner Lane system treats groundwater prior to discharge to Lawrence Creek. The system is comprised of two injection lines located along Montauk Highway and at the intersection of Manatuck Lane and Garner Lane (GEI, 2006).
May-July 2007	Hydrologic Study	An investigation to further evaluate groundwater conditions in the vicinity of the Garner Lane oxygen Injection system and to validate the observed decreases in MGP related contaminants in groundwater in the vicinity of the Montauk Highway and Manatuck Lane treatment lines (GEI, 2007b).
January-November-2009	Groundwater Treatment Remedy (Installation and operation of the 9 North Clinton Avenue, 33 North Clinton Avenue, 34 North Clinton Avenue, Plume Tail and Cooper Lane oxygen injection systems/treatment lines)	In accordance with the Voluntary Clean-up Program Decision Document (NYSDEC, 2008) and the OU-2 Remedial Design Document (GEI, 2009a), three additional groundwater treatment systems utilizing the oxygen injection technology were installed within the OU-2 groundwater plume (GEI, 2010d).
June 2011	Additional Oxygen Injection System Installation (29 Community Road Oxygen Injection System)	The 29 Community Road oxygen injection system treats impacted groundwater along the western extent of OU-2. The system was installed as an addendum to the OU-2 Remedial Design Document (GEI, 2009a).

Operable Unit 3 – OU-3 consists of the Brightwaters Yard, which is currently owned by National Grid, and the groundwater plume that extends south/southeast from the Brightwaters Yard. A summary of the IRMs completed in OU-3 is presented in **Table 1c**, below.

Table 1c – Summary of OU-3 Remedial Activity

Date	OU-3 Remedial Activity	Comment
2000	Groundwater Treatment IRM	An oxygen injection system was installed at the intersection of Union Boulevard and Lanier Lane to reduce the concentrations of MGP-related contaminants in groundwater prior to discharge into O-Co-Nee Pond (FW, 2000).
May 2001, September 2001,- October 2004	ISCO IRMs	Three rounds of ISCO by In-Situ Oxidative Technologies, Inc. (ISOTEC) were used to treat the Brightwaters Yard groundwater plume source area (FW, 2000).
May-July 2004	Excavation IRM	A source area excavation was effective in removing 1,500 tons of source contaminated soils (PS&S, 2005).
2004	Groundwater Treatment IRM	The Brightwaters Yard oxygen injection system was installed to reduce the concentrations of MGP-related contaminants in groundwater leaving the OU-3 site boundary (PS&S, 2004).
2008	Storm Sewer Rehabilitation IRM	Sections of the storm water collection network located within OU-3 were rehabilitated. This included the replacement of catch basins and the cured in-place lining of drainage piping (GEI, 2010b)
July 2009	Brightwaters Yard Oxygen Injection System Abandonment	The Brightwaters Yard system was abandoned in support of the LIRR Excavation IRM (National Grid, 2010).
February 2010 (Phase I completed) July 2010 (Phase II completed) September 2010 (Phase III completed)	LIRR Excavation/Temporary Track Relocation IRM	Source material was removed from the OU-3 Brightwaters Yard and under the adjacent LIRR property (GEI, 2009c).
April 2010	Community Road Oxygen Injection Line	This treatment line was installed to replace the OU-3 Union Boulevard oxygen injection system (GEI, 2010a).
July 2010	OU-3 Union Boulevard Oxygen Injection System Abandonment	The system was abandoned to limit the amount of remedial equipment within the community. The Community Road oxygen injection line was installed to replace this system (National Grid, 2010).
March 2012	OU-3 Community Road Oxygen Injection Line Reconfiguration	This treatment line was reconfigured to optimize the treatment of impacted groundwater in OU-3. (National Grid, 2011)

Operable Unit 4 – OU-4 consists of a former cesspool area, former pond area, and the headwaters of Watchogue Creek/Crum's Brook, located approximately 400 feet east of the Bay Shore site. A summary of the IRMs completed in OU-4 is presented in **Table 1d**, below.

Table 1d – Summary of OU-4 Remedial Activity

Date	OU-4 Remedial Activity	Comment
2000	Restoration of Watchogue Creek/Crum's Brook	Sediments were removed and the channel was restored (Foster Wheeler Environmental Corporation [FW], 2002).
November 2005	Cesspool Excavation IRM	The former cesspool shallow impacted soils (vadose zone soils) were removed and treated offsite as part of an IRM (GEI, 2010c).
April-December 2009	Surfactant Enhanced In-Situ Chemical Oxidation (S-ISCO) IRM	S-ISCO was implemented in accordance with the NYSDEC-approved OU-4 Cesspool Area S-ISCO Work Plan (VeruTEK, 2008) and associated addendums.
April 2011-August 2011	Cesspool Area and Pond Area Excavation IRM	Mobilization and initiation of the OU-4 Upgradient excavation was completed in Q1 2011, monitoring well abandonment and the Cesspool Area excavation were completed July 2011, Pond Area excavation complete August 2011.

2. Remediation Systems

Groundwater remedial systems in operation at the site include DNAPL recovery, a combined ozone injection and soil vapor extraction system, and multiple oxygen injection systems. A description of each system, the quarter's monitoring activities, and operational data are presented in the sections below. The location of all remedial activities performed at the site is provided on **Figure 2**.

2.1 OU-1 DNAPL Recovery System and NAPL Monitoring

2.1.1 Program Scope and Purpose

A DNAPL recovery system was installed at recovery well BBRW-02 in January 2006. The location of BBRW-02 is shown on **Figure 1**. The DNAPL recovery system consists of a Blackhawk Electric Anchor Piston Pump which pumps DNAPL from BBRW-02 and discharges it to a United States Department of Transportation/United Nations approved 55-gallon steel drum. The DNAPL recovery system is operated approximately once every four weeks as of Q2 2011. A routine evaluation of DNAPL thicknesses and recovery volumes determined that recovery operations would shift from a three week schedule to a four week schedule in Q2 of 2011.

OU-1 monitoring and recovery wells are gauged quarterly for the presence of light non-aqueous phase liquids (LNAPL) and DNAPL.

2.1.2 OU-1 NAPL Monitoring Data

DNAPL Monitoring – DNAPL has historically been observed in OU-1 at wells BBRW-01R, BBRW-02, BBRW-06, BBMW-05D, BBMW-22D, and BBMW-34I2. DNAPL was first observed in three wells (BBMW-38I, BBMW-38I2, and OZMW-21I) during their initial gauging event in Q4 2010. These monitoring wells were installed after the completion of the remedial excavation in OU-1 during Q2 and Q3 2009. DNAPL has also been observed in OZMW-21D since Q2 2011. In Q1 2012, thicknesses of DNAPL in OU-1 wells have remained consistent with previous monitoring data as shown in **Table 2a**, below.

Table 2a – Summary of Measured DNAPL Thickness

Well ID	Screen Interval	Average DNAPL Thickness (ft)							
		Q2 2010	Q3 10	Q4 10	Q1 11	Q2 11	Q3 11	Q4 11	Q1 12
BBRW-01R	30-60	0.27	0.00	0.51	0.20	0.40	0.40	0.50	0.30
BBRW-02	58.2-78.2	6.56	5.90	5.62	4.20	4.60	4.50	3.70	5.40
BBRW-06	25-55	0.50	0.53	0.62	0.80	0.60	0.90	0.70	1.60
BBMW-05D	64-74	0.03	0.03	0.05	0.10	Trace	Trace	Trace	Trace
BBMW-22D	64-74	5.25	5.33	5.19	4.20	6.70	6.50	4.70	4.50
BBMW-34I2	40-45	NM	1.40	1.60	1.60	2.00	1.93	1.20	1.90
BBMW-38I	25-30	NM	NM	0.60	0.07	0.25	0.78	0.40	0.30
BBMW-38I2	40-45	NM	NM	0.90	1.30	1.60	1.40	1.00	0.80
OZMW-21I	20-30	NM	NM	1.40	1.70	2.10	1.50	0.90	1.80
OZMW-21D	55-60	NM	NM	NO	NO	0.30	0.40	0.60	0.80

Notes:
1.) NM – Not Measured
2.) NO – Not Observed
3.) Historically, DNAPL was observed at recovery well BBRW-01. This well has been abandoned.
4.) BBMW-22D is located within 15 feet of BBRW-02. DNAPL thickness at this well is influenced by pumping operations at BBRW-02. DNAPL is not recovered at BBMW-22D.

LNAPL Monitoring – LNAPL has historically been observed in OU-1 in monitoring wells BBMW-34I and OZMW-25I. LNAPL has not been observed at these locations for the past three quarters, as shown in **Table 2b**, below.

Table 2b – Summary of Measured LNAPL Thickness

Well ID	Screen Interval	Average LNAPL Thickness (feet)					
		Q4 10	Q1 11	Q2 11	Q3 11	Q4 11	Q1 12
BBMW-34I	25-30	0.10	Trace	Trace	NO	NO	NO
OZMW-25I	20-30	2.10	NO	NO	NO	NO	NO

Notes:
NO – Not Observed

2.1.3 OU-1 DNAPL Recovery Data

DNAPL Recovery – Approximately 409 gallons of DNAPL have been recovered from BBRW-02 since the beginning of the recovery operations in Q1 2006. Approximately 10.4 gallons were removed during Q1 2012. A summary of the Q1 2012 recovery operations are provided in **Table 2c**, below.

Table 2c – Summary of DNAPL Removal for Recovery Well BBRW-02

Time Period		Approximate DNAPL Thickness (feet)		Approximate DNAPL Removed
		Initial	Final	(Gallons)
Historical	Q1 2006 through Q4 2011	-	-	398.31
Q1 2012	01/13/2012 02/24/2012 03/23/2012	7.0 7.2 7.4	4.8 4.8 4.9	3.23 3.52 3.67
Totals	Q1 2012	-	-	10.43
	To Date	-	-	408.74

Notes:

1.) NAPL measurements were made using a dedicated tape. The smear of DNAPL on the tape is measured to determine DNAPL thickness.

2.) Total volume calculated by multiplying the thickness by the cross-sectional area of the well. This is an estimate of the minimum volume removed.

Historical trends of DNAPL recovery, initial DNAPL thickness, and final DNAPL thickness are shown on **Figure 3**. Apparent trends, related to DNAPL recovery, for Q1 2012 are:

- The initial DNAPL thickness was consistently observed between 7 and 7.5 feet during Q1 2012. This is generally consistent with historical DNAPL thickness measurements prior to Q4 2010.
- The change in recovery system operation during Q2 2011 has allowed for increased product recovery. The amount of DNAPL recovered during each pumping event increased from approximately 1.5 gallons to above 3.0 gallons after the operational schedule was changed to operate once every four weeks.

2.2 OU-1 Ozone Groundwater Treatment System

2.2.1 Program Scope and Purpose

A groundwater treatment system was installed at the downgradient edge of OU-1 at 61 North Clinton Avenue. The treatment system consists of an ozone injection system and soil vapor extraction (SVE) system. The ozone injection system was installed to reduce concentrations of dissolved phase constituents of concern (COCs) as they pass through the perforated section of the subsurface containment barrier wall. The barrier wall is located at the downgradient boundary of OU-1 and extends through the Upper Glacial aquifer to approximately 70 feet below ground surface (bgs). The 190-foot long perforated section is located parallel to Union Boulevard and extends from a depth of approximately 10 to 40 feet bgs. This perforated zone creates a window where groundwater is discharged from OU-1 to OU-2 after being treated by the ozone injection. The location of the groundwater treatment system and subsurface barrier wall are depicted on **Figure 1**.

The ozone injection system injects an air-ozone mixture at a maximum concentration of 3 percent ozone into the groundwater to destroy contaminants through in-situ chemical oxidation. The SVE system is designed to capture any potential ozone or volatile organic compounds (VOCs) that might migrate from the groundwater to the vadose zone.

The groundwater treatment building houses the equipment used to generate the ozone gas from fresh air as well as the SVE equipment, carbon vessels, and ozone destruction unit. The treatment zone, located south of the groundwater treatment building, consists of 63 ozone injection wells that are screened at 2 foot intervals between 27 and 50 feet bgs, and 11 horizontal SVE laterals.

The treatment system began operation in October 2009. During Q1 2012, the ozone/air mixture injected was approximately 1.7 percent ozone and 98.3 percent air.

2.2.2 Current Monitoring Activities

The monitoring and operation activities performed during Q1 2012 for the ozone groundwater treatment system are summarized in **Table 2d**, below.

Table 2d – Current Ozone System Site Activity

Activity	Task Description	Frequency	Location of Results
Ozone System Monitoring	Routine inspection and maintenance of the system components, monitoring of operational parameters, and recording/adjusting of the injected ozone concentrations.	Weekly	Details are recorded on field logs and are not provided in this report.
SVE System Monitoring	Inspection and maintenance of the system components, recording of operational parameters, and screening of the SVE effluent.	Weekly	Details are recorded on field logs and are not provided in this report.
	Sampling of the SVE effluent before, in the middle of, and after treatment.	Monthly	Appendix A
System Performance Monitoring	Monitoring BTEX and total PAH concentrations downgradient well clusters OZMW-23 and OZMW-24.	Monthly	Figure 4, Section 4, Table 4-1, Table 4-2, Appendix E
	Sampling soil vapor (SV-01, SV-02, SV-03) downgradient and site ambient air.	Monthly	Section 5, Table 5-1
	Sampling ambient air downgradient and upgradient of system.	Monthly	Section 5, Table 5-2

2.2.3 Ozone Injection System OM&M Data

Groundwater – The ozone injection system has been effective at reducing benzene, toluene, ethylbenzene, and xylene (BTEX) and total polycyclic aromatic hydrocarbon (PAH) concentrations in groundwater. The ozone injection system treats groundwater prior to passing through the perforated window of the subsurface barrier wall, 10 to 40 feet bgs. The reduction of BTEX and total PAH concentrations are shown in the shallow and intermediate zones of the time series graphs of OZMW-23 and OZMW-24 on **Figure 4**. These monitoring well clusters are located downgradient of the system and upgradient of the subsurface barrier wall. Total PAH concentrations have remained elevated at OZMW-24I2. Groundwater passing through the perforated section of the subsurface barrier wall is also treated by the OU-1 Union Boulevard oxygen injection system. Groundwater quality trends are discussed further in Section 4.

Ozone Injection System – Approximately 10 to 16 pounds of ozone were injected each day during Q1 2012. The ozone groundwater treatment system was in operation for 75 out of 92 days in Q1 2012.

1) The system was down between December 31, 2011 and January 3, 2012 due to power outages.
2) The system was down on February 9 and February 11 through February 14, 2012, due to elevated ozone levels within a remote outbuilding.
3) The system was taken off line between February 22 and March 1, 2012 to inspect valve operation and to complete a pressure test to resolve all leaks.

Temporary sources of the elevated ozone concentrations in outbuildings were due to the development of slight leaks within the plumbing connections in the outbuildings. Leaks were identified and fixed after each occurrence.

SVE System Effluent – Total VOC concentrations, measured after granular activated carbon treatment, ranged between 0.008 and 0.011 parts per million (ppm) during Q1 2012.

2.3 Oxygen Injection Systems

2.3.1 Program Scope and Purpose

Eight oxygen injection systems are currently in operation at the site. These systems generate and inject oxygen into the subsurface to create an aerobic environment which facilitates the bioremediation of the dissolved MGP-related contaminants. Oxygen injection is used to treat impacted groundwater within OU-1, OU-2 and OU-3. The system locations are shown on **Figure 1** and presented in **Table 2e,** below.

Table 2e – Oxygen Injection System Summary

Operable Unit	Oxygen Injection System Designation	Operation Start Date	System Description
OU-1	OU-1 Union Boulevard Oxygen Injection System	February 2008	Used to treat groundwater as it passes through the perforated portion of the subsurface barrier wall. Initially installed to provide temporary treatment during the construction and startup of the ozone injection system. NYSDEC has requested that the system remain online following the installation of the ozone injection system.
	OU-1 Union Boulevard Extension	June 16, 2011	Extension of the OU-1 Union Boulevard system installed to comply with the requirement of the OU-2 Remedial Decision Document issued by the NYSDEC in 2008. The system treats impacts east of the subsurface barrier wall.
	60/66 N. Clinton Ave Oxygen Injection System	January 27, 2010	Installed as part of the Phase 4 Remedial Action to treat impacted groundwater west of the barrier wall in OU-1.
OU-2	Garner Lane (Montauk Highway and Manatuck Lane) Oxygen Injection Lines	December 28, 2005	Installed as part of an Interim Remedial Measure in OU-2 to treat groundwater prior to discharge to Lawrence Creek. The system is comprised of two injection lines located along Montauk Highway and at the intersection of Manatuck Lane and Garner Lane.
	34 N. Clinton Ave Oxygen Injection Line	January 20, 2009	Installed to comply with the requirement of the OU-2 Remedial Decision Document issued by the NYSDEC in 2008. These systems treat groundwater at three transects in the middle of OU-2.
	9 N. Clinton Ave Oxygen Injection Line	February 16, 2009	
	33 N. Clinton Ave/Cooper Lane Oxygen Injection Line	March 31, 2009	
		November 16, 2009	
	29 Community Road	June 14, 2011	Installed to treat the western extent of the OU-2 groundwater plume that was delineated in the 2010 Pre-Design Investigation.
	Plume Tail Oxygen Injection System	August 17, 2009	Installed to treat groundwater prior to discharging into Lawrence Creek.
OU-3	Community Road Oxygen Injection Line	April 6, 2010	Installed to replace the former Union Boulevard and Brightwaters yard systems. This treatment line is supplied by the 66 North Clinton Avenue oxygen injection system located within OU-1. This system was reconfigured in March 2012 to more effectively distribute oxygen to impacted areas.

2.3.2 Current Monitoring Activities

The oxygen injection system monitoring activities are summarized in **Table 2f**, below.

Table 2f – Summary of Oxygen Injection System OM&M Activity

Current Activity	Description	Frequency	Location of Results
Oxygen System Monitoring	Routine inspection and maintenance of the system components, monitoring of operational parameters, and recording/adjusting of the injection flow rates.	Monthly	Appendix B,C
	Monitoring of oxygen purity.	Monthly	Appendix B,C
Performance Monitoring of Oxygen Injection Systems	Monitoring of BTEX and total PAH concentrations in groundwater at upgradient and downgradient wells.	Quarterly	Figures 5-12, Table 4-3 and 4-4, Appendix E
	Monitoring of groundwater chemistry parameters.	Monthly	Appendix D
	Sampling soil vapor downgradient of systems and site ambient air.	Quarterly	Section 5, Table 5-1

2.3.3 Oxygen Injection System OM&M Data

System Operational Data – Approximately 120,039 pounds of oxygen were injected into OU-1, OU-2, and OU-3. All of the oxygen injection systems experienced some downtime during Q1 2012. The oxygen systems went down due to power loss and mechanical failure. The systems were also taken off-line for biannual maintenance. Injected oxygen weights are calculated in **Appendix B** for OU-1 and OU-3 systems. Oxygen weights for OU-2 systems are calculated in **Appendix C**. Injected oxygen weight and system operational data are summarized in **Table 2g**, below.

Table 2g – Oxygen Injection Systems Operations Data

Operable Unit	Oxygen Injection System/Treatment Line	Operational Days/Total Days	Weight of Oxygen Injected (pounds)		Reason for Downtime
			Q1 2012	Total	
OU-1	OU-1 Union Boulevard and Extension	87/91	16,774	203,238	Power outages
	60/66 N. Clinton (O_2 to OU-1)	70/91	2,757	71,119	Power outages / system reconfiguration
OU-2	Garner Lane	82/91	24,482	627,836	Power outages / dryer malfunction
	9 N. Clinton	89/91	15,325	175,015	Power outages
	34 N. Clinton	88/91	17,757	227,166	Power outages
	33 N. Clinton/Cooper Lane	87/91	23,731	246,592	Power outages
	Plume Tail	18/91	1,572	71,586	Power outages and irregular electricity caused failure of electrical components within the oxygen generator.
	29 Community Road	83/91	13,370	46,877	Power outages / compressor malfunction
OU-3	Community Road [60/66 N. Clinton (O_2 to OU-3)]	70/91	4,301	80,368	Power outages / system reconfiguration

The 60/66 North Clinton Avenue oxygen injection system experienced additional down-time in Q1 2012 because it was taken off line for work associated with the OU-3 oxygen injection system reconfiguration. The 18 Garner Lane system was inoperable for a majority of the quarter. Irregular power stemming from a blown Long Island Power Authority (LIPA) transformer caused damage to the electrical components within the oxygen generator. The parts were ordered and replaced.

Groundwater Parameters – The oxygen injection systems have significantly increased both Dissolved Oxygen (DO) concentrations and Oxidation Reduction Potential (ORP) in groundwater. Concentrations of DO are summarized in **Table 2h**. **Table 2i** summarizes ORP values. **Appendix D** contains historical groundwater parameters including DO, ORP, pH, conductivity, and temperature for site wells.

Table 2h – Summary of Dissolved Oxygen (DO) Concentrations

Operable Unit	Groundwater Interval	DO Concentrations (mg/L)			Downgradient Monitoring Wells
		Baseline Average	Historical Average	Q1 2012	
OU-1	Shallow (0-10')	0.3	16.6	23.8	OZMW-16,17,18, OU2MW-48, 49, 50, 51, 54, 57
	Intermediate (10-50')	0.4	9.9	11.5	
	Deep (50'+)	0.1	2.6	4.4	
OU-2	Shallow (0-10')	2.4	17.4	21.6	OU2MW-01, 02, 06, 07, 19, 20, 28, 29, 30, 31, 32 , 35, 36, 37, 39, 43, 44, 45, 46, 47, 55, 56 BBMW-25
	Intermediate (10-50')	1.6	18.4	22.2	
	Deep (50'+)	3.5	12.5	12.9	
OU-3	Shallow (0-10')	9.1	4.0	4.6	OU3MW-02, 03, 04, 05, 07, IO-10, MW-34, 46WR, 70/70S
	Intermediate (10-50')	2.4	7.9	7.9	

Notes:
1.) mg/L – milligrams per liter
2.) ' – feet

Table 2i – Summary of Oxidation Reduction Potential (ORP) Values

Operable Unit	Groundwater Interval	ORP Values (mV)			Downgradient Monitoring Wells
		Baseline Average	Historical Average	Q1 2012	
OU-1	Shallow (0-10')	-79	72	154	OZMW-16,17,18, OU2MW-48, 49, 50, 51, 54, 57
	Intermediate (10-50')	38	124	164	
	Deep (50'+)	-6	65	102	
OU-2	Shallow (0-10')	40	151	222	OU2MW-01, 02, 06, 07, 19, 20, 28, 29, 30, 31, 32 , 35, 36, 37, 39, 43, 44, 45, 46, 47, 55, 56 BBMW-25
	Intermediate (10-50')	-27	134	198	
	Deep (50'+)	30	151	213	
OU-3	Shallow (0-10')	-11	-13	-6	OU3MW-02, 03, 04, 05, 07, IO-10, MW-34, 46WR, 70/70S
	Intermediate (10-50')	32	70	55	

Notes:
1.) mV – millivolt
2.) ' – feet

Specific trends in DO and OPR values are presented below:

- DO concentrations and ORP values in OU-1 increased significantly from baseline values collected prior to system startup and remained elevated in Q1 2012.

- In OU-2, DO concentrations and ORP values increased significantly from baseline values collected prior to system startup and remained elevated in Q1 2012. The baseline values for OU-2 showed measurable levels of DO. This is because actual baseline values did not exist for some wells that were installed after system startup or affected by an upgradient system.
- DO concentrations in OU-3 as a whole have continued to rebound slightly during Q1 2012. Significant increases have been observed in monitoring well clusters OU3MW-02 and OU3MW-07. Historically, shallow DO concentrations in OU-3 have been decreasing since the abandonment of the original OU-3 Union Boulevard oxygen injection system in August 2010 and the OU-3 Brightwaters Yard system in June 2009. The Community Road oxygen injection treatment line has been in operation since April 2010 and was reconfigured in Q1 2012 and is beginning to affect DO concentrations.
- In OU-3, ORP values in shallow and intermediate groundwater remained consistent with historical trends in Q1 2012. National Grid reconfigured this system in Q1 2012 to direct more oxygen to the more impacted zones within OU-3. This should further increase the DO concentration and ORP values.
- Heterotrophic Plate Count (HPC) values are presented in **Table 2-1** and **Table 2-2** for OU-2 and OU-3, respectively. HPC is an analytical method that counts the total number of culturable microbes. HPC values ranged from 6 to 8,100 colony forming units per milliliter (cfu/ml) in OU-2. HPC values ranged from 29 to 280 cfu/ml in OU-3.

BTEX and Total PAH Concentrations – Significant reductions in BTEX and total PAH concentrations have been observed since the startup of the oxygen injection systems. This is discussed in detail in Section 4. Reductions of BTEX and total PAH concentrations compared to DO concentrations at monitoring wells downgradient of each treatment area are depicted on the following figures:

OU1

- OU-1 Union Boulevard Oxygen Injection Line Groundwater Data – **Figure 4**
- 60/66 North Clinton Avenue Oxygen Injection Line Groundwater Data – **Figure 5**

OU-2

- 33 North Clinton Avenue Oxygen Injection Line Groundwater Data – **Figure 6**
- Cooper Lane Oxygen Injection Line Groundwater Data – **Figure 7**
- 34 North Clinton Avenue Oxygen Injection Line Groundwater Data – **Figure 8**
- 9 North Clinton Avenue Oxygen Injection Line Groundwater Data – **Figure 9**
- Montauk Highway Oxygen Injection Line Groundwater Data – **Figure 10**
- Manatuck Lane Oxygen Injection Line Groundwater Data – **Figure 11**

OU-3

- Community Road Oxygen Injection Line Groundwater Data – **Figure 12**

3. Groundwater Flow

This section presents a summary of the scope of work performed for the groundwater elevation monitoring program, the hydrogeologic setting, and the resultant groundwater elevation and groundwater flow direction data for each of the site's OUs.

3.1 Scope of Groundwater Level Monitoring Program

Groundwater level monitoring is conducted at the individual site OUs (OU-1, OU-2, OU-3 and OU-4) and offsite to determine the groundwater elevations and resultant groundwater flow regimes at these areas. This information aids in monitoring and evaluating the effectiveness of remedial activities and is used in remedy planning. The groundwater well locations and geographic boundaries of the OUs are depicted on **Figure 1**.

Depth to groundwater measurements were collected from a total of 345 wells, and five surface water measurements from gauging stations in Q1 2012. The distribution of these wells for each of the OUs consisted of 81, 143, 74 and 47 monitoring wells from within and in the vicinity of OU-1, OU-2, OU-3 and OU-4, respectively. The surface water elevations were obtained from surface water gauges located within OU-2 in Lawrence Lake (BBSW-07) and Lawrence Creek (OU2SW-01 and BBSW-06), in OU-3 from a surface water gauge located within the headwaters of O-Co-Nee Pond (BBSW-13), and in OU-4 from a surface water gauge located in Watchogue Creek (a.k.a., Crum's Brook) at Union Boulevard (BBSW-14). The depth to groundwater and surface water elevation measurements were collected from January 3 through January 6, 2012.

The depth to groundwater and groundwater elevation data for the site and offsite areas are provided in **Tables 3-1** through **3-8** and on **Figures 13** through **15**. The elevation data presented in the tables and figures is in reference to the North American Vertical Datum (NAVD) 88 datum. All historical groundwater elevation data, collected prior to November 2007, has been recalculated based on the November 2007, or subsequent survey data, and the NAVD 88 datum.

3.2 Hydrogeologic Setting

The Upper Glacial, Magothy and Lloyd represent Long Island's three major aquifers. The Upper Glacial aquifer is a water table aquifer and is the primary aquifer of concern at the site. The Upper Glacial aquifer occurs in moderate to highly permeable glacial outwash deposits consisting mainly of inter-bedded layers of permeable sand and gravel, and less permeable layers of silty sand. Low permeability zones define the boundary between the Upper Glacial and Magothy aquifers in the vicinity of the site. The Upper Glacial aquifer is approximately 70 feet at the site and the water table is present within the upper 10 feet of the aquifer. The Upper Glacial aquifer is not used as a source of potable water at or downgradient of the site.

3.3 Groundwater Elevation and Flow

As depicted on **Figures 13** through **15,** the groundwater flow direction throughout the site is generally towards the south/southeast, with the exception of areas downgradient of OU-4, where the groundwater flow direction is southeasterly. This OU-4 groundwater flow direction is influenced by Watchogue Creek/Crum's Brook. The data provided on **Figures 14** and **15** indicate that the shallow and deep groundwater elevations and groundwater flow directions are generally similar, with the exception of the downgradient portion of OU-3. In the downgradient portion of OU-3, the intermediate groundwater elevations are generally higher than the shallow groundwater elevations indicating a stronger vertically upward potential gradient at these locations.

Figure 16 includes hydrographs depicting the historical groundwater elevations for the period beginning in Q2 2002 through the current monitoring period (Q1 2012). The groundwater elevations are presented for select sitewide shallow, intermediate and deep wells. The values are summarized in the table below.

Table 3a – Summary of Historical Groundwater Elevations

Groundwater Depth Zone	Minimum Water Level Elevation			Maximum Water Level Elevation		
	Value	Monitoring Well	Date	Value	Monitoring Well	Date
Shallow	9.41	BBMW-24S	Q3 2007	18.00	MW-09S	Q2 2010
Intermediate	9.44	BBMW-24I	Q3 2007	18.02	MW-09I	Q2 2010
Deep	9.44	BBMW-24D	Q3 2007	16.40	BBMW-05D	Q2 2010

The hydrographs show regular seasonal variations in groundwater elevation throughout all screen intervals. Q1 2012 values are near the average values for the historical monitoring period, and are generally higher than values for Q1 2011 and Q2 2011. Values in Q1 2012 are generally higher in comparison to values in Q3 and Q4 2011.

4. Groundwater Quality

In general, the OU-1/OU-2 areas of MGP-impacted groundwater (concentrations of BTEX and total PAH equal to or greater than 100 micrograms per liter [µg/L]) have significantly been reduced in size and concentration since the implementation of remedial activities. These reductions have been occurring since the installation of the barrier wall, source area excavations, and the operation of the ozone and oxygen injection treatment systems. Following the startup of the remedial systems in 2009, the depiction of BTEX and total PAH impacts in groundwater on **Figures 17** through **22** have been significantly refined, particularly in OU-1 and OU-3, with the installation and sampling of new groundwater monitoring well clusters.

For OU-3, the area of impacts in Q1 2012 in the Brightwaters Yard is larger in comparison to the depicted area of impacts in Q1 2009, considered a remedial baseline period as discussed further below. However, the magnitude of BTEX concentrations has been reduced significantly. The apparent increased area of impacts in the Brightwaters Yard is due to the installation of five new monitoring well clusters in the Brightwaters Yard (north of the Long Island Rail Road [LIRR] tracks) in Q4 2010. These wells were installed to replace the monitoring wells that were abandoned as part of the excavation activities conducted during the excavation Interim Remedial Measures (IRMs). Some of the new wells were installed farther (laterally) from the center of the impacts than the wells that were identified in the area in Q1 2009. These well installations, along with additional well installations completed in late Q2 2011 in the Brightwaters Yard and the area immediately south of the LIRR tracks, have provided further definition of the groundwater impacts in the area.

The IRMs conducted in OU-3 included the LIRR Excavation/Temporary Track Relocation IRM (Phases 1 and 2) and the LIRR Excavation IRM, Phase 3 (Brightwaters Yard), as summarized in Section 1 of this report. It is expected that the removal of potential source material from the area during the IRMs will result in continued decreasing constituent trends in groundwater throughout the impacted areas of OU-3. Although BTEX and total PAH concentrations continue to vary, the majority of the monitoring wells within the excavation area of the Brightwaters Yard and in the area immediately south of the LIRR tracks have decreasing concentrations, or have remained at or near, detection levels. However, some increased elevated concentrations have been detected immediately downgradient of the excavation IRM in shallow and intermediate wells installed in Q2 2011. These elevated concentrations are likely representative of the discrete screen zones selected for these wells to target the existing impacts.

In the downgradient portion of OU-3 (south of Union Boulevard), elevated concentrations of BTEX and PAHs have been detected, roughly coinciding with the transition between the Union Boulevard oxygen system and the Community Road oxygen injection line and the completion of the upgradient excavation IRM. However, decreasing BTEX and PAH trends have been evident in recent sampling events indicating the Community Road oxygen injection line has demonstrated effectiveness in treating impacted groundwater. The impacted area of the

intermediate zone is larger in comparison to the Q1 2009 area, when concentrations above 100 µg/L were not detected. Further evaluation of the groundwater impacts in the area, including potential supplemental groundwater treatment options, and optimization of the Community Road oxygen injection line to target intermediate zone impacts was conducted in Q1 2012, as discussed further below.

The area of impacted groundwater in OU-4 during Q1 2012 has increased slightly since the completion of S-ISCO injection, which was initiated in Q2 2009 and completed in Q4 2009. Pre-injection conditions are depicted in the Q1 2009 plume, which is smaller than the current Q1 2012 plume (**Figure 1**). The excavation and backfill phase of the OU-4 Excavation IRM was performed in Q2 and Q3 2011. The excavations were performed in the wet (no dewatering). Temporary increases in groundwater concentrations have typically been observed in other areas of the site following similar source material excavations, as discussed below.

Concentration increases identified during Q3 2011, were generally followed by decreases in Q4 2011. The definition of the impacts in OU-4 in Q4 2011 was affected by monitoring well cluster abandonments conducted in the area prior to, and during the excavation IRM, and by access restrictions to several monitoring well clusters in the southwestern portion of the Cesspool Area. The groundwater monitoring network was re-evaluated with additional well installations completed in Q1 2012 enabling a more complete assessment of the groundwater conditions in the area. Concentration increases in Q1 2012 were evident relative to Q4 2011, likely attributable to the new monitoring well installations and restoration of access to several wells with historical elevated concentrations. However, when compared to Q3 2011, decreasing trends are apparent.

In the sections below, descriptions are provided for Q1 2012 BTEX and total PAH groundwater impacts, as well as for the composite plumes for each of the OUs. Finally, the Q1 2012 plume is compared to the remedial baseline Q1 2009 plume for BTEX and total PAH for each of three groundwater horizons. These groundwater horizons include shallow (water table zone to approximately 10 feet below ground surface [bgs]), intermediate (approximately 10 to 50 feet bgs), and deep (below approximately 50 feet bgs).

The data presented on the Q1 2009 iso-concentration maps (described below) represent the first full round of groundwater results of the current monitoring well network installed as part of the OU-2 Remedial Design. The Q1 2009 data represents the groundwater conditions prior to the start of the groundwater treatment systems in the mid-plume area. The oxygen injection lines located at 9 North Clinton Avenue, 33 North Clinton Avenue, and 34 North Clinton Avenue were started following Q1 2009. In addition, the OU-4 Cesspool Area S-ISCO IRM was initiated in Q2 2009. Therefore, this data set represents baseline conditions within OU-2 and OU-4 groundwater prior to treatment. As such, the Q1 2009 plume, throughout the remainder of this report, is referred to as the Baseline Q1 2009 Plume.

Groundwater Horizon Descriptions and Comparisons

The distribution of BTEX and total PAH concentrations within the Upper Glacial aquifer for Q1 2012 are presented in the iso-concentration maps on **Figures 17** through **22**. The analytical results are presented graphically in **Appendix E**. The horizontal distribution of the constituent groups in each figure is depicted as lines of equal concentration (iso-concentration lines). The iso-concentration lines were generated using a combination of applied methods. Initially, the lines were created by direct graphical interpolation between concentrations. These lines were then modified to factor in groundwater flow, taking into account the southeasterly flow direction and the low transverse dispersion of the Upper Glacial aquifer, as well as other local hydraulic factors that might influence groundwater flow. For areas where the groundwater monitoring well density was low, historical water quality from existing wells and groundwater quality data from previous groundwater probes, as appropriate, were used. For the purpose of this report, the lateral extent of groundwater impacts (plume outline) in each groundwater horizon for BTEX and total PAH is defined by the 100 µg/L contour.

Beginning in Q3 2009 and excluding OU-3, the concentrations used for the iso-concentration maps referenced below are the latest concentrations recorded (for wells that are sampled on multiple occasions) within the reporting quarter for each respective well. Monthly samples are collected from multiple wells within OU-3 and analyzed for BTEX only. The full round of quarterly samples are analyzed for full VOCs and semi-volatile organic compounds (SVOCs). The BTEX results from the full round of quarterly samples for OU-3 are presented on the summary tables and figures. The monthly BTEX groundwater data is included in the complete analytical tables for OU-3.

In addition to the comparisons made between the iso-concentration maps, a comparison of concentration ranges, averages and medians between the Baseline Q1 2009 Plume and the current Q1 2012 plume is provided for the impacted areas within each OU. For OU-1, the concentration comparison was conducted for the entire operable unit, as well as specifically for the wells located downgradient, or within the immediate vicinity, of the groundwater treatment systems located at the downgradient edge of the area. The downgradient wells serve to evaluate the effects of the groundwater treatment systems. Monitoring wells located on the eastern side of the upgradient area of OU-3 were not included in the concentration comparison, as the concentrations in these wells are typically low or non-detect and are not related to the impacts emanating from the central portion of OU-3.

Trend analysis of constituent concentrations for groundwater monitoring wells was also conducted. This analysis was conducted on two levels: statistical and graphical. The focused period for these trends in OU-1, OU-2 and OU-3 is the operational period of the groundwater remedial systems located in each OU. In OU-4, the focused period for trend analysis is the start of remedial activity (Cesspool Area IRM 2005). Trend analysis in OU-4 is complicated by the S-ISCO injections, which began in Q2 2009 and were completed in Q4 2009.

A statistical analysis typically used to assess trends in groundwater monitoring well concentration data is the Mann-Kendall method (Gilbert, 1987). This is a non-parametric statistical method that evaluates concentration trends over time, by comparing the relative difference in magnitude of data over time and assigning probability for the trends. One limitation of this statistical method exists for interpretation of remediation monitoring data sets of limited events. The graphical trend analysis of groundwater monitoring well concentrations considers all of the concentrations for the same oxygen injection period as the statistical period.

The confidence interval at which all Mann-Kendall analyses was conducted was modified from 95% to 90% beginning in the Q3 2009 report, in an attempt to better identify BTEX and total PAH concentrations trends. The assessment of statistical trends remains conservative with an associated error probability of less than 0.10. Many of the wells in the study area have been identified and continue to be identified as having no trend; however, many of the wells identified as having no trend had a negative Mann-Kendall Statistic (S) associated with them. This negative statistic parameter value indicates a decreasing trend, even though it was not significant at a 90% confidence interval. Many wells with no concentration trend also had a limited number of sampling events or high number of non-detect results. It is important to note that the Mann-Kendall analysis discounts the high initial baseline concentrations that were collected prior to system operation. It is likely that if the baseline concentrations were used for the analysis, more decreasing trends would be identified.

A summary of the distribution of pH values in sitewide groundwater is presented in **Appendix F**. The figure identifies wells and depicts the distribution of pH values outside the 5.0 to 7.0 standard units (SU) range in groundwater.

Sulfate concentration data, as requested in a letter to NYSDEC titled “Revised – Additional Sampling Parameters for Quarterly Groundwater Monitoring – Sulfate Analysis in Select Monitoring Wells,” dated June 4, 2010, is presented in **Appendix G**. The additional sulfate analysis began in Q2 2010 and was initially planned to continue for a period of one year, ending in Q1 2011. The results of the initial investigation concluded that elevated sulfate concentrations in select monitoring wells exceeded the New York State Ambient Water Quality Standards and Guidance Value for GA groundwater (NYS AWQS) criteria for GA groundwater. Based on these results, sulfate sampling has continued at monitoring wells that exceed the NYS AWQS criteria for GA groundwater, as well as at additional monitoring wells located downgradient of the monitoring wells with exceedances. An evaluation of sulfate concentrations is provided in Section 4.4.

Routine monitoring well maintenance is conducted on a quarterly basis at the site. The groundwater sampling crews make any simple repairs identified during groundwater monitoring activities, while major repairs are performed by subcontractors on an as-needed basis. A summary of the monitoring well maintenance checklist is presented in **Appendix H**.

4.1 Operable Unit 1/Operable Unit 2

The groundwater plume designated as OU-2 and the source area of the plume, OU-1, are presented and evaluated together in this section, because of their dependent relationship. The remedial actions, IRMs and pilot studies that have been performed in OU-1 and OU-2 are outlined in Section 1 of this report.

4.1.1 BTEX and Total PAH Composite Plume Comparison

Figure 1 includes the Q1 2012 outline of BTEX and total PAH impacted groundwater. This composite outline denotes the horizontal extent of BTEX and total PAH from the three groundwater horizons. Also included on **Figure 1** for comparison are the outlines of the historical 2004 remedial investigation (RI) plume and the Baseline Q1 2009 Plume.

The composite Q1 2012 plume is comprised of four sections, which have been divided and reduced in area from the single larger historical RI plume. Two of the four plume sections, located in the mid-plume area, are very localized, defined by concentrations in either one or two wells. The largest section begins in the upgradient portion of OU-1, and continues into the upper eastern portion of the mid-plume area of OU-2. The remaining section begins in the mid-plume area and extends downgradient along the western side of the historical plume area.

The composite Q1 2012 plume is similar in size as the corresponding Q4 2011 depiction. The section emanating from OU-1 along the eastern side of the historical plume area has been slightly lengthened, similar to other historical depictions, but the downgradient section of the plume has been shortened.

In comparison to the Baseline Q1 2009 Plume, the current composite Q1 2012 plume is significantly smaller in size (**Figure 1**). Significant changes to the overall outline of the composite plume from the pre-remediation depiction are summarized as follows:

- The plume is better defined throughout, particularly in the northern section of OU-1, as a result of additional monitoring well installations.
- The Q1 2012 composite plume has been fragmented and is no longer continuous from OU-1 downgradient to the Manatuck Lane oxygen injection line.
- Significant narrowing of the plume in areas where the plume is still present from the mid-plume to the downgradient area.

4.1.2 Groundwater Quality Horizons and Comparisons

A description of the individual depth horizons for BTEX and total PAH, and comparisons between the baseline plume and the current Q1 2012 plume are provided below. The BTEX and total PAH concentrations detected in each of the wells in Q1 2009 and Q1 2012 are presented in **Table 4-1** and **Table 4-2** for OU-1 and **Tables 4-5** through **Table 4-10** for OU-2.

The complete analytical results during Q1 2012 for OU-1 are presented in **Table 4-3** and **Table 4-4**. The complete analytical results during Q1 2012 for OU-2 are presented in **Table 4-11**.

Shallow Zone

BTEX

In OU-1, the highest concentrations of BTEX are generally present in the shallow portion of the aquifer. As shown in the water table iso-concentration map (**Figure 17**), these impacts mainly are present in the eastern and south-central portions of OU-1.

There are currently two shallow sections of BTEX impacted groundwater in OU-1, including one section upgradient of the central portion of the barrier wall, which extends westward beyond the western edge of the wall and into OU-2, and one to the east of the barrier wall. Impacted groundwater inside the barrier wall capture zone is treated by the ozone injection system before passing through the perforated section of the barrier wall. Groundwater is then treated immediately downgradient of the barrier wall by the Union Boulevard oxygen injection system. BTEX was not detected in shallow monitoring wells located immediately downgradient of the ozone injection system and the perforated section of the barrier wall.

Shallow BTEX concentrations in monitoring well BBMW-39S, located to the east of the barrier wall and outside the capture zone, have increased over the past two quarters, reaching a maximum concentration of 11,900 µg/L in Q1 2012. Downgradient of this area in OU-1, the plume was further defined with the installation and sampling of the BBMW-37 cluster during Q4 2011. Concentrations in well BBMW-37S, while above 100 µg/L in both Q4 2011 and Q1 2012, were significantly below the concentration identified in upgradient well BBMW-39S. These impacts will be treated by the Union Boulevard oxygen injection system as they migrate downgradient. The Union Boulevard oxygen injection system extension was installed and brought online in Q2 2011 to address impacts east of the barrier wall.

BTEX concentrations in monitoring well BBMW-41S increased in Q2 2011, extending the plume outside the western edge of the barrier wall where it has remained through Q1 2012. BTEX concentrations in this well have been decreasing since the increase noted during Q2 2011 and were slightly below the historical average during Q1 2012. The depiction of the plume in this area is related to the concentrations in downgradient well OZMW-22SR, as discussed below.

Detections of BTEX located farther downgradient and to the west of the barrier wall, specifically in monitoring well OZMW-22SR, have remained relatively stable over the past four sampling events, and remain well below the historical average. The concentration in monitoring wells OU2MW-57S and BBMW-23S, located downgradient of OZMW-22SR, both decreased slightly relative to Q4 2011 and also remained well below their respective historical average, continuing generally decreasing trends. Similar to recent historical sampling events, the BTEX detection in BBMW-23S was the only shallow detection above 100 µg/L in OU-2 during Q1 2012. Recent

reductions in this section of the historical plume can likely be attributable to the source material excavation and the installation of the 60/66 North Clinton Avenue oxygen injection line (both part of the OU-1 Phase IV Remedial Action).

A summary of the two areas of impacted shallow groundwater in OU-1 is provided in the table below.

Table 4a – Summary of Shallow BTEX Impacted Groundwater Areas in OU-1/OU-2

Impacted Groundwater Area	Maximum Concentration (µg/L)	No. of wells > 100 µg/L	Approximate Length (feet)	Average Width (feet)	Remedial System in Area
Eastern	11,900	3	475	150	33 North Clinton Avenue and Union Boulevard Extension Oxygen Injection Systems
Central/Western*	8,669	8	750	200	Ozone Injection System, Union Boulevard Oxygen Injection System and 60/66 North Clinton Avenue Oxygen Injection System

Notes:
µg/L: micrograms per liter
*: Includes portion extending into OU-2

Differences for shallow BTEX impacted groundwater from Q1 2009 and Q1 2012 (**Figure 17**) are summarized as follows:

- Concentrations have generally decreased throughout OU-1, with the decreases particularly evident in the area downgradient, or in the immediate vicinity of, the groundwater treatment systems present near the downgradient edge of OU-1.
- Concentrations have decreased at, and downgradient of, the excavation area of OU-1 Phase IV Remedial Action.
- The shallow BTEX groundwater plume has largely been eliminated in OU-2, with only one detection currently above 100 µg/L.

A summary of the concentrations in OU-1/OU-2 between Q1 2009 and Q1 2012 is provided in the table below.

Table 4b – Comparison of BTEX Concentrations in Shallow Groundwater

Operable Unit	Shallow Zone BTEX Concentrations (µg/L)					
	Range		Average		Median	
	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012
OU-1 (Overall)	0 – 11,947	0 – 11,900	3,270	1,408	141	6
OU-1 (Downgradient)*	0 – 244	0	96	0	141	0
OU-2	0 – 11,860	0 – 3,509	304	62	0	0

Notes:
*: OU-1 downgradient wells include OZMW-16S, OZMW-17S and OZMW-18S.

- The length of the shallow BTEX plume in OU-2 (emanating from the central portion of OU-1) has been reduced approximately 850 feet and the width of the shallow BTEX plume at the OU-1/OU-2 boundary has decreased approximately 175 feet.

- A section of the shallow BTEX plume is present to the east of the barrier wall, defined by concentrations in wells installed subsequent to the Baseline Q1 2009 sampling event.

Total PAH

Total PAH concentrations in OU-1/OU-2 are generally lower than the corresponding BTEX concentrations in shallow groundwater. The impacts are primarily present within the south-central portion of OU-1, with the higher concentrations present in the southern area, behind the barrier wall (**Figure 18**).

There are currently two shallow sections of total PAH impacted groundwater in OU-1. The impacted areas include one section behind the central portion of the barrier wall, which extends to outside the western edge of the barrier wall and into OU-2, and one to the east of the barrier wall. The impacted groundwater inside the wall is treated by the ozone and oxygen injection systems located upgradient and downgradient of the perforated section of the barrier wall, respectively. Excluding monitoring well OZMW-24S, which had a low-level detection of 17 µg/L, total PAHs were not detected in monitoring wells located immediately downgradient of the ozone injection system and the perforated section of the barrier wall.

Similar to BTEX, the total PAH concentration in monitoring well BBMW-39S, located to the east of the barrier wall, increased during Q1 2012 reaching its maximum historical value (2,988 µg/L). As mentioned above, downgradient of this area in OU-1, the plume was further defined with the installation and sampling of the BBMW-37 cluster in Q4 2011. The Q1 2012 concentration in well BBMW-37S (270 µg/L) decreased slightly relative to Q4 2011 and remained well below upgradient concentrations. The Union Boulevard oxygen injection system extension was installed and brought online in Q2 2011 to address impacts east of the barrier wall.

Total PAH concentrations in monitoring well BBMW-41S have been variable, increasing in Q2 and Q3 2011, sharply decreasing during Q4 2011 and finally increasing again during Q1 2012. In Q1 2012, the plume has been extended outside the western edge of the barrier wall, similar to Q2 2011. The depiction of the plume in this area is related to the concentrations in downgradient well OZMW-22SR, as discussed below.

Shallow total PAH detections above 100 µg/L in OU-2 were limited to BBMW-23S (519 µg/L). Detections in this well, in addition to concentrations in wells OZMW-22SR and OU2MW-57S, located slightly upgradient and to the west of the barrier wall in OU-1, while somewhat variable, have generally been decreasing. Recent concentrations have remained significantly below the concentrations detected prior to, or immediately following, the remedial activity conducted in the area (OU-1 Phase IV Remedial Action).

A summary of the impacted groundwater areas is presented below.

Table 4c – Summary of Shallow Total PAH Impacted Groundwater Areas in OU-1/OU-2

Impacted Groundwater Area	Maximum Concentration (µg/L)	No. of wells > 100 µg/L	Approximate Length (feet)	Average Width (feet)	Remedial System in Area
Eastern	2,988	3	400	150	33 North Clinton Avenue and Union Boulevard Extension Oxygen Injection Systems
Central/Western*	6,333	8	575	200	Ozone Injection System and Union Boulevard Oxygen Injection System

Notes:
µg/L: micrograms per liter
*: Includes portion extending into OU-2

Differences between shallow total PAH impacted groundwater from Q1 2009 and Q1 2012 are summarized as follows (**Figure 18**):

- Concentrations have generally decreased throughout the plume, with the decreases particularly evident in the areas downgradient, or in the immediate vicinity, of the groundwater treatment systems present in OU-1 and throughout the axis of the plume in OU-2.

A summary of the concentrations in OU-1/OU-2 between Q1 2009 and Q1 2012 is provided in the table below.

Table 4d – Comparison of Total PAH Concentrations in Shallow Groundwater

Operable Unit	Shallow Zone Total PAH Concentrations (µg/L)					
	Range		Average		Median	
	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012
OU-1 (Overall)	0 – 1,850	0 – 6,333	457	724	0	2
OU-1 (Downgradient)*	0	0	0	0	0	0
OU-2	0 – 1,673	0 – 519	55	9	0	0

Notes:
*: OU-1 downgradient wells include OZMW-16S, OZMW-17S and OZMW-18S.

- The OU-2 plume has been significantly reduced, with concentrations above 100 µg/L currently limited to one monitoring well located just downgradient of the OU-1/OU-2 boundary. In Q1 2009, the corresponding plume section extended approximately 1,100 feet south of the same boundary.
- A section of the plume is present to the east of the barrier wall, defined by concentrations in wells installed subsequent to the Baseline Q1 2009 sampling event.

Intermediate Zone

BTEX

Remedial activities, including operation of the oxygen injection systems, have divided and greatly reduced the plume in the intermediate zone of the aquifer into eight sections, five of which are defined by concentrations in individual wells exceeding 100 µg/L. These sections, while not continuous, extend from OU-1 to the area downgradient of the Montauk Highway oxygen injection line.

In OU-1, the intermediate BTEX plume is divided into four sections, a central section behind the barrier wall, two sections located outside the eastern edge of the barrier wall or the capture zone of the barrier wall, and one to the west of the barrier wall. The central section of the plume begins in the central portion of OU-1 and extends downgradient, ending roughly at the barrier wall. Detections of BTEX above 100 ug/L in intermediate wells located immediately downgradient of the ozone injection system or the perforated section of the subsurface barrier wall were limited to two of the 10 monitoring wells (OZMW-16I2 and OZMW-24I2).

The upgradient eastern plume section is located to the north of the LIRR tracks and is defined by the concentration in one well (BBMW-40I2). The Q1 2012 detection in this well increased relative to Q4 2011, which was the first detection above 100 µg/L during the historical monitoring period. The second section is located to the east of the barrier wall, begins south of the LIRR tracks and extends into OU-2, ending approximately 250 feet south of the OU-1/OU-2 boundary. Prior to Q1 2012, this section of the plume had been continuous approximately to the 33 North Clinton Avenue oxygen injection line; however, significant concentration reductions have divided the plume downgradient of the Union Boulevard oxygen injection system extension. The Union Boulevard oxygen injection system extension was installed and brought online in Q2 2011 to address impacts in this area of the historical plume.

The final intermediate plume section in OU-1 is located to the west of the barrier wall and is defined by the concentration in one well (OZMW-22IR). BTEX concentrations in this area had generally been decreasing since the completion of the Phase IV Remedial Action prior to an increase in Q4 2011. The Q1 2012 concentration in this well decreased slightly relative to Q4 2011 and remains well below the maximum concentration detected. BTEX concentrations in monitoring well OU2MW-57I, located downgradient of OZMW-22IR and screened at the same approximate depth, have remained below 100 µg/L in six of the last seven sampling events.

A summary of the intermediate BTEX impacted sections in and emanating from OU-1 is provided below.

Table 4e – Summary of Intermediate BTEX Impacted Groundwater Areas in OU-1

Impacted Groundwater Area	Maximum Concentration (µg/L)	No. of wells > 100 µg/L	Approximate Length (feet)	Average Width (feet)	Remedial System in Area
Eastern(1)	2,478	1	300	150	Union Boulevard Extension Oxygen Injection System
Eastern (2)*	1,082	5	500	100	33 North Clinton Avenue or Union Boulevard Extension Oxygen Injection Systems
Central	1,239	7	450	100	Ozone Injection System and Union Boulevard Oxygen Injection System
Western	191	1	125	50	60/66 North Clinton Oxygen Injection System

Notes:
µg/L: micrograms per liter
(1): Upgradient plume section
(2): Downgradient plume section
*: Includes portion extending into OU-2

In OU-2, excluding the eastern section emanating from OU-1 as described above, four sections of BTEX impacted groundwater are present in the intermediate zone. The impacted sections are present in the central portion of the operable unit, with three of the four sections defined by concentrations in individual wells. The concentrations in the three sections defined by individual wells are relatively low, with a maximum concentration of 159 µg/L. Concentrations above 100 µg/L have been detected in each of these wells during the historical monitoring period. The remaining impacted section is present in the area downgradient of the 33 North Clinton Avenue oxygen injection line, and defined by concentrations in three wells. These three wells are all deeper intermediate or "I2" wells, with a maximum concentration of 588 µg/L at monitoring well OU2MW-38I2. Concentrations in this well have been somewhat varied but generally increasing since Q3 2010.

A summary of the intermediate zone BTEX impacted areas in the mid-plume and downgradient areas of OU-2 is provided below.

Table 4f – Summary of Intermediate BTEX Impacted Groundwater Areas in OU-2

Impacted Groundwater Areas	Maximum Concentration (µg/L)	No. of Wells > 100 µg/L	Approximate Length (feet)	Average Width (feet)	Remedial System in Area
Mid-plume (upper)	588	3	450	100	9 North Clinton Avenue or Montauk Highway Oxygen Injection Systems
Mid-plume (lower)*	159	3	100	50	9 North Clinton Avenue, Montauk Highway, or Manatuck Lane Oxygen Injection Systems

Notes:
µg/L: micrograms per liter
*: Includes three sections. Length and width were averaged for the three sections.

Differences for intermediate BTEX impacted groundwater from Q1 2009 and Q1 2012 are summarized as follows (**Figure 19**):

- Concentrations have generally decreased in the areas downgradient, or in the immediate vicinity, of the groundwater treatment systems present throughout the axis of the plume as indicated in the table below.

Table 4g – Comparison of BTEX Concentrations in Intermediate Groundwater

Operable Unit	Intermediate Zone BTEX Concentrations (µg/L)					
	Range		Average		Median	
	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012
OU-1 (Overall)*	0 – 607	0 – 2,478	102	187	12	1
OU-1 (Downgradient)**	0 – 441	0 – 466	139	79	102	1
OU-2	0 – 28,040	0 – 588	637	15	47	0

Notes:
µg/L: micrograms per liter
*: The monitoring wells installed in OU-1 North in Q3 2009 have contributed to the higher maximum and average concentrations in the Q1 2012 data in OU-1 (overall).
**: OU-1 downgradient wells include OZMW-16I, OZMW-16I2, OZMW-17I, OZMW-17I2, OZMW-18I and OZMW-18I2.

- The Q1 2012 plume has been greatly fragmented and is no longer continuous from OU-1 downgradient to the Manatuck Lane oxygen injection line.
- The plume has been significantly narrowed in areas where sections of the plume still exist. This narrowing is especially evident from the mid-plume to downgradient areas of the plume where much of the historical plume area is now characterized by concentrations below 100 µg/L.

Total PAH

The total PAH plume in the intermediate zone of the aquifer has been reduced and divided into five sections from the Baseline Q1 2009 Plume, two of which are defined by concentrations in individual wells exceeding 100 µg/L. These areas, while not continuous, extend from OU-1 downgradient to the area between the Montauk Highway and Manatuck Lane oxygen injection lines.

Total PAH impacts in OU-1 within the intermediate zone of the aquifer are present in two sections (**Figure 20**). The main section of the plume begins in the central portion of OU-1 and extends downgradient, ending roughly at the barrier wall. Detections of total PAH above 100 µg/L in intermediate wells located immediately downgradient of the ozone injection system or the perforated section of the subsurface barrier wall were limited to three of the 10 monitoring wells (OZMW-16I2, OZMW-24I and OZMW-24I2).

The second impacted section is located to the east of the barrier wall and extends roughly 750 feet downgradient of the OU-1/OU-2 boundary. During Q4 2011, this section had been divided in the area between the OU-1 Union Boulevard oxygen injection line extension and the 33 North Clinton Avenue oxygen injection line. The division of the plume in this area was due to the significant reductions noted in monitoring well OU2MW-18I, where the concentrations were reduced below 100 µg/L for the first time in the historical monitoring period. These reductions are likely directly attributable to the operation of the Union Boulevard extension which was brought online in Q2 2011. Although the Q1 2012 concentration slightly increased in monitoring

well OU2MW-18I (relative to Q4 2011) resulting in the extension of the plume in the area, significant reductions are still evident.

Concentrations to the west of the barrier wall, specifically in monitoring well OZMW-22IR, as well as in monitoring wells OU2MW-57I and BBMW-23I, located downgradient of OZMW-22IR, have remained significantly below the concentrations detected prior to and since the remedial activity conducted in the area (OU-1 Phase IV Remedial Action). The historical section of the plume in this area has been eliminated since Q3 2010. A summary of the intermediate zone total PAH impacted areas located in or emanating from OU-1 is provided below.

Table 4h – Summary of Intermediate Total PAH Impacted Groundwater Areas in OU-1

Impacted Groundwater Area	Maximum Concentration (µg/L)	No. of wells > 100 µg/L	Approximate Length (feet)	Average Width (feet)	Remedial System in Area
Eastern*	4,325	8	975	150	Union Boulevard Extension, 9 or 33 North Clinton Avenue Oxygen Injection Systems
Central	7,155	13	600	200	Ozone Injection System and Union Boulevard Oxygen Injection System

Notes:
µg/L: micrograms per liter
*: Includes portion extending into OU-2

Three areas of total PAH impacted groundwater are present in the intermediate zone of OU-2, excluding the eastern section emanating from OU-1 as described above.

The first two sections are located in the mid-plume area and are defined by individual wells (OU2MW-23I2 and OU2MW-43I2) with concentrations above 100 µg/L. The Q1 2012 concentrations in each of these wells was relatively low (maximum of 218 µg/L). Concentrations in OU2MW-23I2 reached a maximum in Q4 2011 and decreased during Q1 2012. The concentrations in OU2MW-43I2 have been variable and somewhat sporadic during the historical monitoring period.

The remaining section of total PAH impacted groundwater is present on the western side of OU-2. This section begins downgradient of the 9 North Clinton Avenue oxygen injection line and extends approximately 1,150 feet downgradient, ending upgradient of the Manatuck Lane oxygen injection line. The maximum concentrations in this section of the plume are currently and have historically been greater than 1,000 µg/L.

A summary of the intermediate zone total PAH impacted sections in the mid-plume and downgradient areas of OU-2 are provided below.

Table 4i – Summary of Intermediate Total PAH Impacted Groundwater Areas in OU-2

Impacted Groundwater Areas	Maximum Concentration (µg/L)	No. of wells > 100 µg/L	Approximate Length (feet)	Average Width (feet)	Remedial System in Area
Mid-plume*	218	2	100	50	Cooper Lane and Montauk Highway Oxygen Injection Systems
Western/Downgradient	2,666	4	1,150	175	9 North Clinton Avenue, Montauk Highway or Manatuck Lane Oxygen Injection Systems

Notes:
µg/L: micrograms per liter
*: Includes two sections. Length and width for the larger section is provided.

Differences for intermediate total PAH impacted groundwater quality between Q1 2009 and Q1 2012 are summarized as follows (**Figure 20**):

- Concentrations have generally decreased throughout the plume. The decreases are particularly evident in the areas downgradient, or in the immediate vicinity, of the groundwater treatment systems present at the downgradient edge of OU-1 and throughout the axis of the plume in OU-2.

Table 4j – Comparison of Total PAH Concentrations in Intermediate Groundwater

Operable Unit	Intermediate Zone Total PAH Concentrations (µg/L)					
	Range		Average		Median	
	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012
OU-1 (Overall)	0 – 7,728	0 – 7,155	895	905	8	2
OU-1 (Downgradient)*	0 – 7,728	0 – 2,192	1,316	375	8	2
OU-2	0 – 7,147	0 – 2,666	877	67	33	0

Notes:
µg/L: micrograms per liter
*: OU-1 downgradient wells include OZMW-16I, OZMW-16I2, OZMW-17I, OZMW-17I2, OZMW-18I and OZMW-18I2.

- The Q1 2012 intermediate total PAH plume has been fragmented and is no longer continuous from OU-1 downgradient to the Manatuck Lane oxygen injection line.
- The plume has been significantly narrowed in areas where sections of the plume still exist. This narrowing is especially evident from the mid-plume to downgradient areas of the plume where much of the historical plume area is now characterized by concentrations below 100 µg/L.

Deep Zone

BTEX

In the deep groundwater (below a depth of approximately 50 feet within the Upper Glacial aquifer) of OU-1/OU-2, BTEX concentrations above 100 µg/L are present in three areas (**Figure**

21). The first section begins in the south-central portion of OU-1 and terminates at the barrier wall. The second and third sections are defined by concentrations in individual wells, one in the upgradient portion of OU-2 beginning just downgradient of the barrier wall, and the second located downgradient. Concentrations in the downgradient section, defined by monitoring well OU2MW-08I2, have been relatively stable remaining in the vicinity of 100 µg/L.

The concentrations in monitoring well OZMW-18D, which reached its maximum value in Q1 2012, represent the only consistently elevated (above 100 µg/L) BTEX concentrations in deep monitoring wells located downgradient of the barrier wall. Based on groundwater modeling and the consistent concentrations at this location, there appears to be a stagnation point downgradient of the barrier wall and additional treatment at this depth is being evaluated. A summary of the deep zone BTEX impacted areas in OU-1/OU-2 is provided below.

BTEX was detected in monitoring well BBMW-05D2R during Q1 2012 (5 µg/L). Monitoring well BBMW-05D2R, located in the south-central portion of OU-1, is the only site well screened below the confining layer that defines the upper surface of the Magothy aquifer. This well was installed as a replacement to the original well (BBMW-05D2) in Q3 2010, which was damaged, presumably during remedial construction in the area during Q3 2009. Since it was installed, BTEX detections in this well have been limited to Q2 2011(14 µg/L) and the current Q1 2012 detection.

Table 4k – Summary of Deep BTEX Impacted Groundwater Areas in OU-1/OU-2

Impacted Groundwater Area	Maximum Concentration (µg/L)	No. of wells > 100 µg/L	Approximate Length (feet)	Average Width (feet)	Remedial System in Area
OU-1	1,221	2	250	100	Ozone Injection System and Union Boulevard Oxygen Injection System
Upgradient OU-2	274	1	100	75	33 North Clinton Avenue or Cooper Lane Oxygen Injection System
Downgradient OU-2	104	1	75	50	Montauk Highway Oxygen Injection System

Notes:
µg/L: micrograms per liter

Differences for deep BTEX impacted groundwater from Q1 2009 and Q1 2012 are summarized as follows (**Figure 21**):

- Excluding detections in monitoring well OZMW-18D, which is located along the OU-1/OU-2 boundary, concentrations have generally been decreasing throughout the plume as indicated below.

Table 4l – Comparison of BTEX Concentrations in Deep Groundwater

Operable Unit	Deep Zone BTEX Concentrations (µg/L)					
	Range		Average		Median Concentration	
	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012
OU-1 (Overall)	0 – 2,314	0 – 1,221	335	105	4	0
OU-1 (Downgradient)*	0 – 216	0 – 274	72	96	0	15
OU-2	0 – 569	0 – 104	59	8	0	0

Notes:
µg/L: micrograms per liter
*: OU-1 downgradient wells include OZMW-16D, OZMW-17D and OZMW-18D. Historical detections in this zone have generally been limited to OZMW-18D.

- The plume is no longer continuous and has been largely eliminated in OU-2.

Total PAH

In the deep groundwater within OU-1/OU-2, total PAH concentrations above 100 µg/L are present in four sections. The first section begins in the south-central portion of OU-1 and terminates at the barrier wall. The second and third sections are each defined by two wells, one beginning in the area downgradient of the barrier wall and the other in the vicinity of the Cooper Lane oxygen injection line. The final section is located farther downgradient in the mid-plume area in the vicinity of the Montauk Highway oxygen injection line, and is defined by the concentration in one well, **Figure 22**.

The impacted section located in the south-central portion of OU-1 and immediately downgradient of the barrier wall are larger in size and generally characterized by higher concentrations than the corresponding BTEX areas. Elevated concentrations immediately downgradient of the barrier wall have generally been limited to monitoring well OZMW-18D, located along the OU-1/OU-2 boundary. Concentrations in this well have been variable but generally elevated (above 1,000 µg/L). Based on groundwater modeling and the consistent concentrations at this location, there appears to be a stagnation point behind the barrier wall and additional treatment at this depth is being evaluated. The Q1 2012 total PAH concentrations in OZMW-16D and OZMW-17D, decreased relative to the respective historical highs identified during Q4 2011. The concentrations in these wells will continue to be monitored to determine if additional treatment will also be warranted in these areas.

The impacted section in the vicinity of Cooper Lane has been present in the area continuously since Q1 2011 and has recently been defined by the concentration in monitoring well OU2MW-43D. The concentration in this well has been relatively stable in recent sampling events, while concentrations in monitoring well OU2MW-19D (above 100 µg/L in Q1 2012), have generally remained below 100 µg/L since the startup of the oxygen injection line located in the area. The downgradient impacted section is defined by the concentration in monitoring well OU2MW-08I2. Concentrations have generally remained above 1,000 µg/L in this well in recent

sampling events. A summary of the deep zone total PAH impacted areas in OU-1/OU-2 are provided below.

Table 4m – Summary of Deep Total PAH Impacted Groundwater Areas in OU-1/OU-2

Impacted Groundwater Area	Maximum Concentration (µg/L)	No. of wells > 100 µg/L	Approximate Length (feet)	Average Width (feet)	Remedial System in Area
OU-1 Central	5,388	4	350	125	Ozone Injection System and Union Boulevard Oxygen Injection System
OU-2 Upgradient	2,913	2	200	125	33 North Clinton Avenue or Cooper Lane Oxygen Injection Systems
Mid-plume (upper)	333	2	150	75	Cooper Lane or 34 North Clinton Avenue Oxygen Injection System
Mid-plume (lower)	1,989	1	250	100	Montauk Highway Oxygen Injection System

Notes:
µg/L: micrograms per liter

Differences for deep total PAH impacted groundwater from Q1 2009 and Q1 2012 are summarized as follows (**Figure 22**):

- Concentrations have generally decreased throughout the plume as shown in the table below. Generally, the exception has been OZMW-18D, as discussed above. The Q1 2012 concentration in OZMW-18D was the maximum value recorded during the historical monitoring period, while the Q1 2009 concentration was nearer the historical minimum.

Table 4n – Comparison of Total PAH Concentrations in Deep Groundwater

Operable Unit	Deep Zone Total PAH Concentrations (µg/L)					
	Range		Average		Median	
	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012	Baseline Q1 2009	Q1 2012
OU-1 (Overall)	0 – 5,140	0 – 5,388	707	506	1	1
OU-1 (Downgradient)*	0 – 435	18 – 2,913	146	1,092	2	345
OU-2	0 – 7,007	0 – 1,989	455	58	0	0

Notes:
µg/L: micrograms per liter
*: OU-1 downgradient wells include OZMW-16D, OZMW-17D and OZMW-18D. Detections above 100 µg/L in this zone have generally been limited to OZMW-18D.

- The plume is no longer continuous, and has been greatly fragmented in OU-2.

Changes to the groundwater concentrations for BTEX and total PAH in OU-1/OU-2 described above are supported in the graphical and statistical presentations. The time series plots display the graphical analytical results and are provided for wells located downgradient of the oxygen injection systems on **Figures 4** through **12** and a complete set of graphs is provided in **Appendix E**. The statistical analytical trends for BTEX and total PAH in OU-1/OU-2 are

provided in **Tables 4-12** through **4-15**. The statistical trends of concentrations in OU-1 were calculated beginning when the upgradient oxygen injection system was installed or the barrier wall was completed. The statistical trends of concentrations in OU-2 were calculated beginning near the date when the nearest upgradient oxygen injection system was installed. The tables are organized to include wells for all of the existing oxygen injection systems; however, some of the wells installed to monitor the new systems do not have sufficient data to evaluate concentration trends. Future quarterly GM and OM&M reports will evaluate the trends for these wells.

Concentrations of COCs in groundwater in OU-1 and OU-2 have been significantly reduced since the implementation of remedial activities. The groundwater treatment systems have been effective at reducing the area and concentrations of impacted groundwater in OU-2.

4.2 Operable Unit 3

A summary of the remedial activities conducted in OU-3 is provided in Sections 1 and 2 of this report. In addition to the ongoing oxygen injection groundwater treatment system IRMs discussed in Section 2.3, the OU-3 LIRR Excavation/Temporary Track Relocation IRM (Phases 1 and 2) was initiated in Q4 2009 and completed by Q2 2010. Additionally, the LIRR Excavation IRM, Phase 3 (Brightwaters Yard) was conducted during Q3 2010 and completed in September 2010. These excavation activities involved the removal of approximately 13,825 tons of impacted material from the Brightwaters Yard and immediately downgradient in the LIRR Right-of-Way (ROW), to depths ranging from 8 to 12 feet bgs.

Soil and groundwater investigations in the Brightwaters Yard, as well as in the area immediately south of the LIRR tracks, were conducted in December 2010, June 2011 and February 2012 to evaluate the post excavation IRM groundwater conditions. Replacement groundwater monitoring wells (OU3MW-08S, OU3MW-09S/I, OU3MW-10S/I, OU3MW-11S/I and OU3MW-12S/I) were installed in the Brightwaters Yard in December 2012. As part of the June 2011 field activities, several new monitoring wells were installed to further characterize the shallow and intermediate groundwater zones in the area. The new monitoring wells were installed in the Brightwaters Yard (OU3MW-09I2 and OU3MW-16S) and to the area immediately south of the LIRR ROW (OU3MW-13S, OU3MW-14S, OU3MW-15S, MW-73I, MW-75I, SV-02I and SV-02I2). Monitoring wells OU3MW-13S, OU3MW-14S and OU3MW-15S were installed immediately adjacent to existing monitoring wells MW-78, MW-80 and MW-82, respectively. The screen zones in these wells were installed to more accurately reflect the groundwater conditions at the water table in the area. The screen intervals in the new wells were set (2 to 12 feet bgs) to intersect the groundwater interface, which is approximately 1 to 3 feet bgs, while the screen intervals in the existing wells began at 5 feet bgs. Additionally, the new wells were installed over a more discrete screen interval than the existing adjacent wells, which are screened from 5 to 20 feet bgs. As a result, increased groundwater concentrations at these wells were anticipated and have generally been evident in recent sampling events.

Concentrations of BTEX and total PAHs have generally continued to decrease in shallow groundwater within the Brightwaters Yard. BTEX concentrations within the excavation areas of the Brightwaters Yard are less than 500 µg/L. These decreases are also evident in shallow monitoring wells located downgradient of the IRM excavation areas. Overall, shallow BTEX concentrations, and to a lesser degree shallow total PAH concentrations in the area immediately south of the excavated zones, remain extremely variable, but are generally decreasing. The variations in constituent concentrations in monitoring wells in OU-3, particularly those in the area south of the LIRR tracks, are partly a function of the seasonal fluctuation of the water table. In general, there has been an inverse relationship observed between groundwater elevation and constituent concentrations.

In the intermediate zone, elevated concentrations of BTEX and total PAHs have been identified in intermediate wells located downgradient of the LIRR excavation IRM and in one intermediate well in the Brightwaters Yard (OU3MW-09I), located immediately upgradient of the LIRR excavation. These increases are inconsistent with historical data available from well MW-64, which was the only intermediate well located immediately downgradient of the excavation during the Baseline Q1 2009 sampling event. The increases include monitoring well MW-65, which prior to Q4 2011 had not recorded a detection above 100 µg/L since Q4 2004. Similar to recent sampling events, the new intermediate monitoring wells (MW-73I, MW-75I and SV-02I) installed in Q2 2011 all had BTEX impacts greater than 1,000 µg/L and total PAH impacts greater than 100 µg/L. The concentrations in the area remain variable, but several decreasing trends among newly installed wells and existing wells have been noted in recent sampling events. Concentrations of BTEX and total PAHs in the deeper intermediate wells (OU3MW-09I2 and SV-02I2) installed upgradient and downgradient of the LIRR excavation, respectively in Q2 2011, remained below 100 µg/L in Q1 2012.

The most recent phase of investigation performed to evaluate the post excavation IRM groundwater conditions in the Brightwaters Yard and immediately downgradient was completed in February 2012. The results of this and earlier investigations, including additional soil and groundwater sampling data and the recommended future actions for remaining impacts, will be presented in a separate Post LIRR Excavation IRM Groundwater Evaluation Report in Q2 2012.

In the downgradient portion of OU-3 (south of Union Boulevard), the Community Road oxygen injection line has shown effectiveness in treating impacted groundwater; however, initial increases were noted in the area in both shallow and intermediate zone monitoring wells. No detectable levels of BTEX or total PAHs were identified in shallow monitoring wells immediately downgradient of the Community Road oxygen injection line in Q1 2012. As depicted in **Appendix E**, BTEX and PAH levels in shallow wells located further downgradient indicated downward trends in Q1 2012. The BTEX and PAH concentrations in intermediate wells downgradient of the oxygen injection line remain elevated; however, several decreasing trends have been observed in Q1 2012. The elevated concentrations downgradient of Union Boulevard roughly coincide with the transition between the Union Boulevard oxygen system and the Community Road oxygen injection line and the completion of the upgradient excavation IRM.

The reconfiguration of the Community Road oxygen injection line was completed in Q1 2012. This reconfiguration involved the installation of additional shallow and intermediate depth oxygen injection wells to increase treatment in the most highly impacted zones to reduce or eliminate the migration of shallow and intermediate zone groundwater impacts downgradient of Community Road.

4.2.1 BTEX and Total PAH Composite Plume

The composite Q1 2012 plume begins in the southern portion of the Brightwaters Yard and continues downgradient approximately 900 feet, terminating approximately 400 feet south of Union Boulevard. The plume reaches a maximum width of approximately 225 feet at the downgradient edge of the Brightwaters Yard, before narrowing in the area south of the LIRR tracks (**Figure 1**).

The groundwater monitoring wells in the vicinity immediately upgradient of the LIRR tracks were abandoned as part of the excavation activities conducted during the IRMs identified above. Subsequent to the IRM activities, additional monitoring wells have been installed in the shallow and intermediate zones in the areas immediately upgradient (five shallow and five intermediate) and downgradient (three shallow and four intermediate) of the LIRR tracks, as well as in downgradient areas (five intermediate). In addition, several historical monitoring wells were included in the sampling program in Q1 2012.

Significant changes to the outline of the Q1 2012 composite plume as compared to the Q1 2009 composite plume are noted as follows:

- The area of impacted groundwater in the Brightwaters Yard north of the LIRR tracks in Q1 2012 appears larger in comparison to Q1 2009. This is a result of the detected concentrations in several of the new wells installed in the area in Q4 2010 and Q2 2011, which are located farther (laterally) from the center of impacts than the wells present in the area in Q1 2009.
- The area of impacted groundwater along the eastern side of the historical plume area increased. This is also partially due to detected concentrations in wells installed subsequent to the Baseline Q1 2009 sampling event.
- The area of impacts extends approximately 250 feet farther downgradient. This is due to increases in existing wells, as well as detected concentrations in wells installed subsequent to the Baseline Q1 2009 sampling event.
- A small plume section defined by the concentration in one well, is located near the downgradient edge of the historical plume in Q1 2012. This section was not present in Q1 2009; however, the concentration in this well has not increased significantly between the two sampling events.

In Q1 2009, BTEX and total PAH groundwater impacts were limited to the shallow groundwater zone. In Q1 2012, concentrations of BTEX and total PAH were detected in both the shallow and

intermediate groundwater zones. The magnitude of BTEX and total PAH impacts detected in the shallow zone in Q1 2012 in Brightwaters Yard monitoring wells are less than the magnitude of impacts detected in Q1 2009. In the area immediately south of the LIRR tracks, the magnitude of BTEX impacts in the shallow zone is less than the magnitude of these impacts detected in Q1 2009, while the total PAH impacts were slightly greater in magnitude to those detected in Q1 2009. Impacts in the vicinity of the LIRR tracks were further defined, via new well installations in Q4 2010 and Q2 2011. Increases in wells downgradient of the Community Road oxygen injection line, in both the shallow and intermediate zones, have been noted. The elevated concentrations downgradient of Union Boulevard roughly coincide with the transition between the Union Boulevard oxygen system and the Community Road oxygen injection line, the abandonment of the Brightwaters Yard oxygen injection system and the completion of the upgradient excavation IRM. However, decreasing trends have been observed in recent sampling events. Optimization of the oxygen injection line to reduce or eliminate the continued migration of impacts, as well as an evaluation of supplemental groundwater treatment, was conducted in Q1 2012.

4.2.2 Current Plume Configuration and Comparison to Baseline Q1 2009 Plume

A description of the current groundwater plume configuration and a comparison of BTEX and total PAH in the groundwater depth zones between Q1 2009 and Q1 2012 are provided below. Due to the remedial activity conducted in OU-3 prior to and subsequent to the Baseline Q1 2009 sampling event, comparisons to more recent data were also conducted, as appropriate. To aid in these comparisons, BTEX data from monthly sampling conducted at select wells downgradient of the excavation areas were utilized. The analytical results, including the monthly data, are presented graphically in **Appendix E**. The BTEX and total PAH concentrations detected in the quarterly sampling round from each of the wells in Q1 2009 and Q1 2012 are presented in **Table 4-16** and **Table 4-17**. The complete analytical results for Q1 2012 are presented in **Table 4-18** and **Table 4-19**.

<u>Shallow Zone</u>

BTEX

As depicted on **Figure 17,** the shallow BTEX impacts in Q1 2012 were mainly concentrated in two areas: the first in the area adjacent to the LIRR tracks, and the second in the vicinity of Union Boulevard. A description of the BTEX impacted areas in the shallow zone is provided below.

Table 4o – Summary of Shallow BTEX Impacted Groundwater Areas in OU-3

OU-3 Impacted Groundwater Areas	Maximum Concentration (µg/L)	No. of wells > 100 µg/L	Approximate Length (feet)	Average Width (feet)	Remedial Action in Area
Northern section	23,600	14	150	250	Brightwaters Yard and LIRR Excavation IRM
Southern section*	5,120	5	350	100	Community Road Oxygen Injection Line

Notes:
µg/L: micrograms per liter
*: Does not include the concentration in monitoring well MWBS-02S, shown as a separate impacted area

In comparison to the Baseline Q1 2009 Plume, which was continuous from the Brightwaters Yard to the area south of Union Boulevard, the Q1 2012 plume has been fragmented. The Q1 2012 impacted area is wider in the area north of the LIRR tracks, and extends slightly farther downgradient than the Baseline Q1 2009 Plume. The widening of the impacts in the area north of the LIRR tracks was established by the new monitoring wells installed in the area, as discussed above. In addition, a small plume section defined by the concentration in one well (MWBS-02S), is present near the downgradient edge of the historical plume area. Concentrations in this well have been somewhat sporadic and variable during the historical monitoring period.

The BTEX concentrations within the Brightwaters Yard are significantly lower in Q1 2012 than the concentrations detected in Q1 2009 (**Table 4p**). In Q1 2009, the maximum concentration detected in shallow wells in the Brightwaters Yard was 59,210 µg/L in monitoring well PDMW-02. In Q1 2012 the maximum BTEX concentrations detected in this area was 2,330 µg/L in OU3MW-08S which is located immediately adjacent to an excavated area. Generally decreasing trends have continued to be identified in the shallow wells in the Brightwaters Yard.

BTEX concentrations in the area immediately south of the LIRR tracks are lower in Q1 2012 than the concentrations detected in Q1 2009 **(Table 4p**). In Q1 2009, the maximum concentration detected in shallow wells in this area was 55,200 µg/L in monitoring well MW-80. In Q4 2011 the maximum BTEX concentrations detected in this area was 23,600 ug/L in new monitoring well OU3MW-14S. Concentrations in OU3MW-14S have decreased in each sampling event since installation (Q3 2011). BTEX concentrations in other shallow monitoring wells located immediately south of the LIRR have generally varied over the past five sampling events with a few increasing trends noted; however, the Q1 2012 BTEX concentrations in the majority of the shallow monitoring wells in the area have either decreased relative to Q4 2010 levels or have remained at, or near detection levels. Some of the decreases noted in these wells have been significant, with reductions up to two orders of magnitude. As mentioned above, the Q4 2010 results provide an appropriate comparison, as several new wells were installed in the area at that time. Some of the decreases downgradient of the excavation IRM may be a result of seasonal variations related to the increase in groundwater elevation in the area (relative to Q4 2010).

The Q1 2012 concentrations in the area south of the Community Road oxygen injection line are roughly similar to those in the Baseline Q1 2009 Plume (**Table 4p**). However, decreasing trends over the past two sampling events are evident following significant increases particularly noted in the first three sampling events of 2011. Continued reductions observed upgradient and in the area south of the Community Road oxygen injection line are anticipated following the optimization of the Community Road oxygen injection line in Q1 2012 and potential supplemental groundwater treatment, currently being evaluated.

As mentioned above, BTEX concentration fluctuations in monitoring wells, particularly those in the area south of the LIRR tracks, have varied greatly partly as a function of the seasonal fluctuation of the water table. However, as further illustrated in the comparison of the BTEX concentrations in northern and southern areas of OU-3 provided below, shallow BTEX concentrations overall appear to be decreasing in the northern section, especially within the excavated areas, and remain roughly similar to Q1 2009 concentrations, decreasing in recent sampling events, in the southern, downgradient areas.

Table 4p – Comparison of BTEX Concentrations in Shallow Groundwater in OU-3

OU-3 Impacted Groundwater Areas	Shallow Zone BTEX Concentrations (µg/L)											
	Maximum				Average				Median			
	Q1 2009*	Q3 2011	Q4 2011	Q1 2012	Q1 2009*	Q3 2011	Q4 2011	Q1 2012	Q1 2009*	Q3 2011	Q4 2011	Q1 2012
Northern section (Brightwaters Yard)	59,210	4,940	1,970	2,330	9,733	823	457	408	421	43	79	23
Northern Section (South of LIRR)	55,200	34,200	31,100	23,600	7,457	5,632	3,714	5,039	569	1,617	2,278	1,740
Southern section	4,210	13,120	9,050	5,120	578	1,439	1,072	510	0	0	0	0

Notes:
µg/L: micrograms per liter
*: baseline

Total PAH

Concentrations of total PAH above 100 µg/L during Q1 2012 in the shallow zone in OU-3 are generally present in two areas, the first in the area adjacent to the LIRR tracks, and the second in the vicinity and downgradient of Union Boulevard (**Figure 18**). The shallow total PAH plume is present in similar areas to the corresponding BTEX plume, but is less expansive with generally lower concentrations. Descriptions of the total PAH impacted areas in the shallow zone are provided below.

Table 4q – Summary of Shallow Total PAH Impacted Groundwater Areas in OU-3

OU-3 Impacted Groundwater Areas	Maximum Concentration (µg/L)	No. of wells > 100 µg/L	Approximate Length (feet)	Average Width (feet)	Remedial Action in Area
Northern section	1,244	9	75	250	Brightwaters Yard and LIRR Excavation IRM
Southern section	704	4	275	50	Community Road Oxygen Injection Line

Notes:
µg/L: micrograms per liter

In comparison to the Baseline Q1 2009 Plume in the vicinity of the LIRR tracks, the Q1 2012 shallow PAH plume is larger in size. In Q1 2012, the total PAH impacted area north of the LIRR tracks is roughly similar in size to the impacted area in Q1 2009, but is located farther to the west and is much lower in magnitude. In the area immediately south of the tracks, the Q1 2012 plume is wider than the impacted area in Q1 2009 with generally higher concentrations; however, this is partially due to the new well installations in Q2 2011.

Maximum and average concentrations of total PAH in the shallow zone in Q1 2012 in the Brightwaters Yard are significantly lower than those detected in the shallow zone in Q1 2009 (**Table 4r**). Total PAH concentrations in the area immediately south of the LIRR tracks are slightly higher in Q1 2012 than the concentrations detected in Q1 2009; however, decreases in recent sampling events are evident. In comparison to Q4 2010, the majority of the shallow monitoring wells in the areas adjacent to the LIRR tracks have either decreased or have remained at, or near detection levels. As mentioned above, the Q4 2010 results provide an appropriate comparison, as several new wells were installed in the area at that time.

The area of shallow PAH impacts south of the Community Road oxygen injection line in Q1 2012 were not present in Q1 2009. Increases in the maximum and average concentrations in the southern section of the plume are evident between the two sampling events (**Table 4r**). The Q1 2012 concentration in IO-10 remained relatively stable over the past three sampling events and was below Q1 and Q2 2011 levels. Average concentrations from shallow monitoring wells in the area have been slightly decreasing in recent sampling events. Additional decreases are expected to be evident in the area in subsequent sampling events based on the reductions noted above in upgradient wells, the optimization of the Community Road oxygen injection line and potential supplemental groundwater treatment.

Similar to shallow BTEX, total PAH concentrations in monitoring wells, particularly those in the area south of the LIRR tracks, have varied greatly partly as a function of the seasonal fluctuation of the water table. The comparison of total PAH concentrations in northern and southern areas of OU-3 provided below, is somewhat similar to the comparison of the shallow BTEX concentrations. Overall, shallow PAH concentrations appear to be decreasing in the northern section, especially within the excavated areas, and have increased in the southern, downgradient areas compared to Q1 2009.

Table 4r – Comparison of Total PAH Concentrations in Shallow Groundwater in OU-3

OU-3 Impacted Groundwater Areas	Shallow Zone PAH Concentrations (µg/L)											
	Maximum				Average				Median			
	Q1 2009*	Q3 2011	Q4 2011	Q1 2012	Q1 2009*	Q3 2011	Q4 2011	Q1 2012	Q1 2009*	Q3 2011	Q4 2011	Q1 2012
Northern section (Brightwaters Yard)	2,797	855	110	376	821	150	16	70	14	9	0	1
Northern Section (South of LIRR)	522	765**	182**	522**	59	255**	50**	155**	0	106**	6**	79**
Southern section	83	682	689	704	9	55	49	51	0	0	0	0

Notes:
µg/L: micrograms per liter
*: baseline
**: Excluding the new wells installed in late Q2 2011, which have more discreet screen intervals generally resulting in higher concentrations

Intermediate Zone

The extent of BTEX and total PAH impacts (**Figures 19** and **20**) in the intermediate zone in Q1 2012 have increased relative to the Baseline Q1 2009 Plume, when no impacts were present in the area. BTEX and total PAH detections above 100 µg/L in the intermediate zone in Q1 2012 were observed in 13 and 10 wells, respectively, with maximum detections of 20,409 µg/L (BTEX) and 3,289 µg/L (total PAH) in monitoring well MW-75I. As stated above, there were no detections of BTEX or total PAH above 100 µg/L in the intermediate zone in Q1 2009. However, many of these concentrations were detected in monitoring wells installed subsequent to the Baseline Q1 2009 sampling event likely contributing to the apparent increase in impacted area. Nineteen intermediate monitoring wells were sampled in Q1 2009 compared with 41 intermediate monitoring wells in Q1 2012. Several new monitoring wells were installed and sampled and several other historical wells were included in the sampling program in Q1 2012. The total number of wells above 100 µg/L sampled in both Q4 2011 and Q1 2012 in the intermediate zone for BTEX and total PAHs remained the same.

Relative to Q4 2011, the area of BTEX and total PAH impacts in the Brightwaters Yard increased slightly, due to slight increases in concentration in monitoring well OU3MW-10I; however, the maximum, average and median concentrations observed in the area decreased. Near the downgradient edge of impacts at monitoring well OU3MW-04D, the maximum concentration of BTEX and total PAH has also decreased between Q4 2011 and Q1 2012. Several concentration increases were observed in Q1 2012, notably in the area immediately downgradient of the LIRR ROW, and in the vicinity of Union Boulevard. The maximum concentration observed in the immediate vicinity of the Community Road oxygen injection line was in newly installed well OU3MW-07I3.

The area of BTEX impacted groundwater in the intermediate zone is slightly larger than the corresponding total PAH impacted area, and is generally characterized by higher concentrations. The area of BTEX impacted groundwater defined by these wells extends from the Brightwaters Yard to approximately 350 feet south of Union Boulevard, while the area of

total PAH impacted groundwater extends to approximately 250 feet south of Union Boulevard. A summary of the impacted areas in the intermediate zone is provided in **Table 4s** below.

Table 4s – Summary of Intermediate Impacted Groundwater Areas in OU-3

Constituent	Impacted Area	Maximum Concentration (µg/L)	No. of wells > 100 µg/L	Approximate Length (feet)	Average Width (feet)	Remedial Action in Area
BTEX	Northern*	20,409	7	325	200	Brightwaters Yard and LIRR Excavation IRM**
	Southern	12,187	6	550	140	Community Road Oxygen Injection Line***
Total PAH	Northern*	3,289	6	300	175	Brightwaters Yard and LIRR Excavation IRM**
	Southern	1,800	4	400	100	Community Road Oxygen Injection Line***

Notes:
µg/L: micrograms per liter
*: The downgradient edge of the northern section is defined by the Community Road oxygen injection line.
**: It is anticipated that continued decreases will be observed due to the source removal
*** The optimization of the Community Road oxygen injection line and potential supplemental groundwater treatment is anticipated to reduce or eliminate impacts in this area

Since BTEX concentrations are typically detected at levels significantly higher than PAHs in OU-3, BTEX concentrations can be used as an indicator of impacted groundwater. In general, intermediate BTEX concentrations overall appear to be decreasing in the northern section, especially within the excavated areas, and slightly increasing recent sampling events, in the southern, downgradient areas (**Table 4t**).

Excluding OU3MW-09I, intermediate zone BTEX concentrations in existing Brightwaters Yard monitoring wells have generally remained relatively low (less than 100 µg/L), with the majority being at, or near detection levels. A slight increase was noted in OU3MW-10I in Q1 2012, which expanded the area of impacts in the Brightwaters Yard. However, BTEX concentrations in OU3MW-09I have decreased sharply between Q4 2011 and Q1 2012 as depicted in **Appendix E**. BTEX concentrations in intermediate monitoring wells located immediately downgradient of the LIRR ROW have varied in since Q3 2011, when several new wells were initially sampled. The concentrations in three of these wells have generally decreased (MW-64, MW-73I and SV-02I), and two have generally increased (MW-65 and MW-75I). The concentrations in the deeper intermediate wells (OU3MW-09I2 and SV-02I2) installed in either the Brightwaters Yard or the area immediately downgradient of the LIRR tracks have remained below 100 µg/L. Concentrations in downgradient intermediate monitoring wells have increases slightly in recent sampling events, but some decreasing trends are present.

Table 4t – Comparison of BTEX Concentrations in Intermediate Groundwater in OU-3

OU-3 Impacted Groundwater Areas	Maximum			Average			Median		
	Q3 2011	Q4 2011	Q1 2012	Q3 2011	Q4 2011	Q1 2012	Q3 2011	Q4 2011	Q1 2012
Northern section (Brightwaters Yard)	22,230	23,690	5,920	3,706	3,967	769	1	23	0
Northern Section (South of LIRR)	21,050	5,821	20,409	7,482	3,080	5,112	5,860	2,729	1,762
Southern section	6,421	15,384	12,187	1,006	1,436	1,356	0	0	0

Notes:
µg/L: micrograms per liter

As mentioned above, an evaluation of supplemental groundwater treatment and optimization of the Community Road oxygen injection line focusing on both the shallow and intermediate zones was conducted in Q1 2012. The evaluation and optimization of the system focused on both the shallow and intermediate zones. The results of the evaluation and earlier investigations, including additional soil and groundwater sampling data and the recommended future actions for remaining impacts, will be presented in a separate Post LIRR Excavation IRM Groundwater Evaluation Report in Q2 2012.

Changes to the groundwater concentrations for BTEX and total PAH described above are supported in the graphical and statistical presentations. The time series plots display the graphical analytical results and are provided for wells located downgradient of the oxygen injection systems on **Figure 12** and the complete set of graphs is provided in **Appendix E**. The statistical analytical trends for BTEX and total PAH in OU-3 are provided in **Tables 4-20** and **4-21**, respectively. The focused period for these trends is the operational period of the oxygen injection lines (both existing and former) in OU-3.

4.3 Operable Unit 4

The injection phase of the OU-4 Cesspool Area S-ISCO IRM was initiated in Q2 2009 (April 30, 2009) and was completed in Q4 2009 (December 3, 2009). Therefore, a comparison between the Q1 2009 and Q1 2012 data, as stated above, provides a useful evaluation of the effectiveness of this remedy to date. Several wells in OU-4 (WCMW-11S, I, and D, WCMW-17S, I, and I2, and WCMW-18WT, S, I and I2) were not sampled in Q1 2009, but were sampled in April 2009, prior to the initiation of S-ISCO injection. For these wells, the April 2009 pre-S-ISCO data was used in the development of the Baseline Q1 2009 iso-concentration maps. In advance of, and during the OU-4 excavation IRM, which was initiated in early Q2 2011, numerous wells were abandoned. As a result, many of the wells sampled in the Baseline Q1 2009 event were not sampled in Q1 2012. The monitoring well network was re-evaluated upon the completion of the remedial work, with the re-installation and sampling of several monitoring wells conducted in Q1 2012. A summary of the remedial efforts for OU-4 is provided in Sections 1 and 2 of this report.

4.3.1 BTEX and Total PAH Composite Plume

In comparison to the OU-4 composite Baseline Q1 2009 Plume, which was indicative of conditions prior to S-ISCO injection, the OU-4 composite Q1 2012 plume is larger in size (**Figure 1**). In Q1 2009, the area of impacted groundwater was limited to the south-central portion of the Cesspool Area, while in Q1 2012, groundwater impacts extend from the upgradient Cesspool Area to the Pond Area, with an additional impacted area identified downgradient of the Pond Area. The increase in areal extent of impacts, particularly in the upgradient Cesspool Area is partly attributable to wells installed subsequent to the Baseline Q1 2009 sampling round.

4.3.2 Current Plume Configuration and Comparison to Baseline Q1 2009 Plume

As depicted on **Figures 17**, **19** and **21**, there was only one detection of BTEX above 100 µg/L in OU-4 during Q1 2012 at monitoring well WCMW-29S (152 µg/L). There were no BTEX detections above 100 µg/L during Q1 2009. It is noted that monitoring well WCMW-29S was installed after the Q1 2009 sampling event.

As a result of the limited detections of BTEX, the evaluation of groundwater quality for OU-4 will focus on PAHs as the primary COCs for OU-4. The groundwater samples are analyzed for total SVOCs, but most of the analytes detected in groundwater are PAHs, a subset of SVOCs. **Figures 18** and **20** illustrate that concentrations of PAHs above 100 µg/L are present in the shallow and intermediate groundwater zones. No PAHs above 100 µg/L were detected in the deep groundwater zone (**Figure 22**). A comparison of total PAH groundwater concentrations in the shallow and intermediate zones between Q1 2009 and Q1 2012 are provided below along with data from recent sampling events (**Table 4u**). The BTEX and total PAH concentrations detected in each of the wells in Q1 2009 and Q1 2012 are presented in **Table 4-22** and **Table 4-23**. The complete analytical results are presented in **Table 4-24**. The monitoring well locations are shown on **Figure 1**.

Table 4u – Summary of Total PAH concentrations in OU-4

Depth Zone	Total PAH Concentrations (µg/L)														
	Maximum					Average					Median				
	Q1* 2009	2011			Q1 2012	Q1* 2009	2011			Q1 2012	Q1* 2009	2011			Q1 2012
		Q2 **	Q3	Q4			Q2 **	Q3	Q4			Q2 **	Q3	Q4	
Shallow	243	1,599	1,773	263	2,374	29	269	334	67	268	0	5	29	35	94
Intermediate	170	136	778	432	411	19	14	134	77	55	0	0	34	0	1

Notes:
µg/L: micrograms per liter
*: Baseline
**: Prior to excavation
Monitoring well clusters WCMW-19 through 29 were installed subsequent to the Q1 2009 sampling event.
Monitoring well clusters WCMW-01, 03, 07, 16, 17, 18, 27 & 28 were abandoned prior to the Q2 2011 sampling event and monitoring well clusters WCMW-20, 21 & 24 were abandoned prior to the Q3 2011 sampling event.

As depicted on **Figure 18,** the area of total PAH concentrations greater than 100 µg/L in water table wells in Q1 2012 begins in the upgradient of the Cesspool Area and extends to the downgradient edge of the southwestern Cesspool Area. A second impacted section is beginning in the southeastern Cesspool Area extending across the LIRR ROW to the Pond Area at monitoring well WCMW-14S. A small area of impacts, defined by the concentration in one well (WCMW-13S) is also present downgradient of the Pond Area.

Comparison of the total PAH distribution in water table wells in Q1 2009 to Q1 2012 is difficult due to the different wells sampled in each of the sampling rounds (total of 11 wells in Q1 2009 and 17 in Q1 2012, with only seven in common). The number of water table wells with total PAH concentrations above 100 µg/L increased from three wells prior to S-ISCO injection, to seven wells in Q1 2012. Compared to Baseline Q1 2009, increases in the maximum, average, and median total PAH concentrations in water table wells were identified in Q1 2012; however, the Q1 2012 average concentration is similar to the Q2 2011 (pre-excavation) value and lower than the average value from Q3 2011. The Q4 2011 concentration calculations (maximums, averages, and medians), as well as the extent of shallow total PAH concentrations above 100 µg/L in the S-ISCO treatment area were likely reduced as a result of the well abandonments and access restrictions limiting the number of wells sampled. The restoration of access to well clusters WCMW-11, WCMW-26 and WCMW-29, along with the installation of several new well clusters in Q1 2012 has enabled a more complete assessment of the current groundwater conditions. Furthermore, the area on the north side of Oak Street currently defined by monitoring well WCMW-32S, has likely not been accurately defined since the abandonment of monitoring well clusters WCMW-27 and WCMW-28, prior to excavation activities.

In the areas defined in both the Baseline Q1 2009 sampling event and during Q1 2012, the extent of shallow total PAH concentrations above 100 µg/L appears to have expanded slightly in the Cesspool Area, and is now present in the area of the LIRR ROW into the upgradient Pond Area and downgradient of the Pond Area. The impacts in the upgradient Pond Area, as defined by the concentration in monitoring well WCMW-14S, first became evident in Q4 2011, but decreased during Q1 2012. Total PAH detections in monitoring well WCMW-13S, located downgradient of the Pond Area, have been increasing over the past three sampling events; however the Q1 2012 detection was the first detection above 100 µg/L in the historical monitoring period.

Figure 20 illustrates the total PAH concentrations greater than 100 µg/L present in intermediate zone wells in Q1 2009 and Q1 2012. Relative to the Baseline Q1 2009 sampling event, increases in maximum and average total PAH concentrations in wells in the intermediate zone were identified in Q1 2012 (**Table 4u**); however, decreases in these categories, have been evident since Q3 2011. The extent of total PAH impacts in the intermediate zone in Q1 2012 are present in the south and southeastern portion of the Cesspool Area north of the LIRR, roughly the same area as in Q1 2009. However, in Q1 2012 the impacts are also present in the Pond Area at WCMW-14I.

In general, the concentration of impacted groundwater in OU-4 had slightly increased (through Q2 2011) since the completion of S-ISCO injection, which was initiated in Q2 2009 and completed in Q4 2009. However, groundwater concentrations in the impacted area increased further in Q3 2011. It is noted that the Q3 2011 sampling event was conducted during, and immediately following the completion of the OU-4 Cesspool Area and Pond Area Excavation IRM. As observed in other portions of the site, there is a typical "lag" period between the completion of excavation and groundwater contaminant concentration reduction following source material excavation. This "lag" period is further increased by the fact that the excavations were performed "in the wet" and although the source material was removed, impacted groundwater remains within the excavation area.

The increases identified in Q3 2011 were generally followed by decreases in Q4 2011 to levels below those detected prior to excavation activities (Q2 2011). However, the area of impacted groundwater in Q4 2011 was not completely defined due to the well abandonments and access restrictions in the area, as previously discussed. As mentioned above, the re-installation of several monitoring wells in Q1 2012 along with the restoration of access to several monitoring well clusters have enabled a more complete assessment of the current groundwater conditions. Q1 2012 concentrations in water table wells are generally slightly higher than pre-excavation levels, but lower than Q3 2011 levels, which were collected during, and immediately following the completion of excavation activities. Increases identified in downgradient water table wells may be the result of temporary increases typically observed following excavation, migrating downgradient. The decreases in recent sampling events in upgradient water table wells are anticipated to be evident in downgradient wells in subsequent sampling events. Intermediate zone concentrations are also generally higher than pre-excavation levels, but are below Q3 2011 levels and continue to decrease.

Changes to the concentrations of total PAH in groundwater described above are consistent with the graphical and statistical analysis which also indicates fluctuations in total PAH concentrations. The time series plots that depict the graphical analytical results are provided in **Appendix E**. The statistical analyses of total PAH concentrations in groundwater in OU-4 are provided in **Table 4-25**.

4.4 Analysis of Sulfate Concentrations

At the request of the NYSDEC, National Grid has been monitoring sulfate concentrations within OU-1, OU-2, and OU-4 in monitoring wells upgradient and downgradient of former ISCO IRM areas. Sampling for additional sulfate analysis began in Q2 2010 and was scheduled to continue for a period of one year, ending in Q1 2011. The purpose of the sulfate sampling program was to establish baseline sulfate concentrations in groundwater and to identify any potential trends associated with remedial activities conducted at the site. The results of this investigation were originally presented in the Q1 2011 GM and OM&M Report. This initial investigation concluded that elevated sulfate concentrations in select monitoring wells exceed the NYS AWQS criteria for GA groundwater. Based on these results, sulfate sampling has continued at monitoring wells that exceed the NYS AWQS criteria for GA groundwater, as well

as downgradient monitoring wells. A discussion of the analytical results is presented below. This data is presented in **Appendix G**.

4.4.1 OU-1 and OU-2 Sulfate Concentrations Downgradient of the OU-1 ISCO Pilot Tests

Persulfate was injected during two pilot tests within OU-1, north of the LIRR. The first pilot test was completed in 2004 using activated persulfate. The second pilot test was completed in 2006 using activated sodium persulfate. Analytical testing for sulfate in downgradient monitoring wells began in 2007. The former pilot test areas are shown on **Figure 2**.

Background Sulfate Concentrations

Background sulfate concentrations have historically been within a range of approximately 5,000 to 43,000 µg/L. These values were determined based on sulfate concentrations within monitoring wells located upgradient of the ISCO pilot test treatment areas (MW-09S, 09I, 09I2, and 09D, and BBMW-38S, 38I, 38I2 and 38D). Sampling of these wells was discontinued after Q3 2011. These concentrations are depicted on **Graph G-1** of **Appendix G**. The monitoring well locations are shown on **Figure 1**.

OU-1/OU-2 Trends in Sulfate Concentration

Historically, sulfate concentrations have been observed above the background concentration range at multiple wells within OU-1 and OU-2. A majority of the concentrations at these wells do not exceed the NYS AWQS of 250,000 µg/L. Sulfate concentrations are depicted graphically for monitoring wells with concentrations of sulfate greater than the NYS AWQS value of 250,000 µg/L in **Appendix G, Graph G-2** for OU-1 monitoring wells and **Graph G-3** for OU-2 monitoring wells.

Since sampling began in 2007, samples from 20 monitoring wells have exceeded the NYS AWQS criteria for GA groundwater; nine monitoring wells in OU-1 (BBMW-05D, BBMW-06D, BBMW-18D, BBMW-19D, BBMW-22D, OZMW-17D, OZMW-18D, OZMW-23D, and OZMW-24D) and eleven in OU-2 (BBMW-24D, OU2MW-19D, OU2MW-24D, OU2MW-27D, OU2MW-35D, OU2MW-36D, OU2MW-37D, OU2MW-39D, OU2MW-42D, OU2MW-43I, and OU2MW-43D). Concentrations at these monitoring wells have ranged from 77,400 µg/L to 2,470,000 µg/L in OU-1 and between ND and 841,000 µg/L in OU-2.

Nineteen of the 20 monitoring wells are screened to below 60 feet bgs in the deep zone. These monitoring wells are located within or downgradient of the former ISCO injection area. The persulfate solutions injected during the pilot test were denser than water and therefore traveled vertically downward after injection. The density of the persulfate solution was modified during the pilot testing to attempt to reduce the vertical migration and increase the lateral migration of the injected persulfate. Monitoring wells with elevated sulfate concentrations are generally located within the ISCO injection pilot test area.

Thirty-eight monitoring wells in OU-1 were sampled for sulfate in Q1 2012. Of the 38 wells only one well, OZMW-24D, exceed the NYS AWQS of 250,000 µg/L. Sixty-eight monitoring wells in OU-2 were sampled for sulfate in Q1 2012. Of the 68 wells, five wells (BBMW-24D, OU2MW-24D, OU2MW-36D, OU2MW-42D and OU2MW-43D) exceeded the NYS AWQS of 250,000 µg/L.

Graphical trends observed in **Graphs G-2** and **G-3** of **Appendix G** indicates that concentrations are declining in the wells located in OU-1 and the majority of wells in OU-2. Some increasing trends are still apparent in some of the wells in OU-2 (OU2MW-36D and OU2MW-42D). These data indicate that sulfate is still present in the deep aquifer and may be migrating downgradient.

4.4.2 OU-4 Sulfate Concentrations

The injection phase of the OU-4 S-ISCO IRM was conducted from Q2 2009 through Q4 2009. The wells selected for sulfate analysis in Q1 2012 included wells within and immediately downgradient of the S-ISCO treatment area (WCMW-04S, 04I, 04I2; WCMW-05S, 05I, 05I2; WCMW-11S, 11I, 11D; WCMW-14S, 14I, 14I2, 14D; and WCMW-25I, and 25D). The above wells specified for quarterly sampling in Q1 2012 differs from the wells sampled in Q2 2011 due to the abandonment of monitoring wells WCMW-01S, 01I, 01D; WCMW-03S, 03I, 03D; WCMW-16S, 16I, 16I2; WCMW-17S, 17I, and 17I2 to support the excavation IRM. The majority of the additional wells within and immediately downgradient of the S-ISCO treatment area were also sampled for sulfate once in Q2 2010. This data is provided in the table in **Appendix G** and in **Graphs G-4** through **G-6**. The well locations are provided on **Figure 1**.

Background Sulfate Concentrations

Background sulfate concentrations for OU-4 were determined based on sulfate concentrations within monitoring wells located upgradient of the S-ISCO treatment area (WCMW-19S, 19I and 19I2). The background sulfate concentrations ranged from approximately 11,000 µg/L to 40,000 µg/L. These concentrations are similar to the background concentrations observed for OU-1 and OU-2. The OU-4 sulfate background wells were sampled quarterly for sulfate from Q2 2010 through Q2 2011. The OU-4 background concentrations are depicted on **Graph G-4** of **Appendix G**. The monitoring well locations are shown on **Figure 1**.

Sulfate Concentrations Within and Immediately Downgradient of the S-ISCO Treatment Area

Sulfate concentrations are depicted graphically for monitoring wells within and immediately downgradient of the S-ISCO treatment area in **Appendix G, Graph G-5**. Historically, 10 monitoring wells had sulfate concentrations greater than the NYS AWQS value of 250,000 µg/L (WCMW-01S, WCMW-01D, WCMW-03S, WCMW-04S, WCMW-05S, WCMW-14D, WCMW-17S, WCMW-17I, WCMW-25I and WCMW-25D). Five of these wells (WCMW-01S, WCMW-01D, WCMW-03S, WCMW-17S and WCMW-17I) were decommissioned in support of the remedial excavation and were not sampled in Q1 2012. There were no monitoring wells

sampled in OU-4 during Q1 2012 with sulfate concentrations in exceedances of the NYS AWQS criteria for GA groundwater.

Sulfate Concentrations Greater than 200 Feet Downgradient of the S-ISCO Treatment Area

Historical sulfate concentrations are depicted graphically for monitoring wells greater than 200 feet downgradient of the S-ISCO treatment area in **Appendix G, Graph G-6**. Historically the only sulfate exceedances detected greater than 200 feet downgradient of the S-ISCO treatment area was in WCMW-02I in Q4 2010. The sulfate concentrations were below the NYS AWQS value of 250,000 µg/L in Q1, Q2, and Q3 2011, after which sulfate sampling was discontinued in the area.

5. Soil Vapor Sampling Program

Soil vapor and ambient air have been sampled to evaluate the potential influence of remedial activity on soil vapor concentrations. To date, there has been no indication that remedial activity has impacted long term soil vapor or ambient air concentrations.

5.1 Program Scope and Purpose

Soil vapor is monitored at the site to evaluate the potential contribution of contaminants from the dissolved phase groundwater plumes to soil vapor. Ambient air samples are collected to gather background information to assist in determining whether soil vapor at the site could potentially be influencing the contaminant concentrations in ambient air and assist in evaluating soil vapor quality. In OU-1, ambient air samples are collected to determine if the SVE system effluent is impacting ambient air.

Soil vapor and ambient air locations are shown on **Figure 1**. Variations of soil vapor and ambient air concentrations over time are depicted graphically in **Appendix I**. Sampling activities are described for each of the four operable units (OU-1 through OU-4) in **Table 5a**, below.

Table 5a – Current Soil Vapor Monitoring Site Activity

Location	Site Activity	Frequency	Soil Vapor Sample Locations	Ambient Air Sample Locations
OU-1	Performance monitoring of the OU-1 ozone groundwater treatment system	Monthly	3	5
	OU-1 upgradient soil vapor monitoring	Quarterly	3	0
OU-2	Performance monitoring of the OU-2 oxygen injection systems (6 systems currently operating)	Quarterly	35	5
OU-3	Continued soil vapor monitoring (Former Brightwaters Yard oxygen injection system performance monitoring)[1]	Quarterly	1	0
OU-4	Performance monitoring of S-ISCO IRM and OU4 Cesspool area excavation	Sampling Ended in Q2 2011	0	0

Notes:
[1]The Brightwaters Yard oxygen injection system was abandoned in July 2009 in support of the LIRR Excavation IRM.

5.2 Soil Vapor Fate and Transport

The fate and transport of soil vapor in the subsurface is dependent on various chemical and environmental conditions that directly affect the concentrations (United States Environmental Protection Agency, 1997). These include the vapor pressure and the Henry's law constant of the individual contaminant present, the temperature and barometric pressure at the surface, and the moisture content and porosity of the vadose zone soils. A description of each of these

chemical and environmental conditions and their effects on soil vapor fate and transport has been presented in previous OM&M reports.

In 2007, National Grid completed a hydrologic study in OU-2 and concluded that the sharp increases in groundwater elevations noted during the two specific rainfall events affected soil vapor concentrations in the immediate vicinity of the sample points. For a more detailed evaluation of groundwater elevations and soil vapor concentrations relationship, see *Hydrologic Study* dated December 31, 2007 (GEI, 2007c).

5.3 OU-1 Soil Vapor and Ambient Air Monitoring

5.3.1 Overview

Soil vapor is monitored at three locations in and upgradient of OU-1. This data can be used to observe general trends in soil vapor outside of the influence of the site and remedial activity.

Three soil vapor points are located downgradient of the ozone groundwater treatment system. These points are sampled monthly to monitor potential influence of the ozone groundwater treatment system operation on soil vapor concentrations, downgradient of the barrier wall. Ambient air is monitored to determine the potential influence of the ozone groundwater treatment system on ambient air.

5.3.2 Soil Vapor Data

Soil vapor concentrations have remained generally consistent at the locations downgradient of the ozone groundwater treatment system (OZSV-01, OZSV-02, and OZSV-03). A majority of the compounds detected have varied within a range of 50 micrograms per cubic meter ($\mu g/m^3$) over the sampling history. During Q1 2012, concentrations remained consistent with historical levels. Concentrations are depicted graphically in **Appendix I**. Analytical data are provided in **Table 5-1**.

5.3.3 Ambient Air Sampling Data

Ambient air concentrations have remained mostly consistent since the startup of the ozone groundwater treatment system. During Q1 2012, concentrations remained consistent with historical levels. Ambient air analytical data are provided in **Table 5-2**.

5.4 OU-2 Soil Vapor and Ambient Air Sampling

5.4.1 Overview and Sampling Scope

Soil vapor was sampled at 35 locations within OU-2 during Q1 2012. Soil vapor monitoring points are located upgradient and downgradient of the oxygen injection systems. The data are used to evaluate the potential influence of the system operation on soil vapor concentrations.

Ambient air was sampled at five locations within OU-2 during Q1 2012. The soil vapor sample locations, ambient air sample locations, and oxygen injection systems are shown on **Figure 1**.

5.4.2 Soil Vapor Sampling Data

Soil vapor concentrations have periodically fluctuated from the beginning of the monitoring program in 2004 through Q1 2012. These fluctuations have occurred before the oxygen injection systems were installed and after the systems were in operation. Fluctuations in soil vapor concentrations 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 (OU2SG-11). Concentrations in Q1 2012 were generally consistent with previous quarters, except for the variations in concentrations shown **Table 5b**, below. The most significant changes occurred at OU2SG-33, where fluctuations of non-MGP chemicals have been observed since Q1 2011. OU2SG-33 had several non-MGP related chemicals with historic peaks in Q1 2011. OU2SG-33 is located upgradient of the Cooper Lane oxygen injection system, at the intersection of Clinton Avenue and Cooper Lane, where there is significant vehicular traffic. Concentrations are depicted graphically in **Appendix I**. Analytical data are provided in **Table 5-1**.

Table 5b – Variations in OU-2 Soil Vapor Concentrations

Ambient Air Sampling Location	Description	Contaminant of Concern	Concentration (µg/m^3)		MGP Risk	Other Potential Sources
			Q4 2011	Q1 2012		
OU2SG-33	Upgradient of Cooper Lane Oxygen Injection System	Butane	10,200	16,700*	Non-MGP related	Insecticides, greases, oils
		Acetone	2,610	1,060	Non-MGP related	Paint materials, finger nail polish and removers
		Pentane	2,090	3,900*	Non-MGP related	Insecticides and fumigants
		Toluene	68.2	30.7	Potentially MGP related	Heating oil, gasoline, diesel fuel
		n-Hexane	479	807*	Non-MGP related	Gasoline, adhesives
		2-Butanone	95	139*	Non-MGP related	Used in manufacture of plastics, textiles and solvents

Notes:
µg/m3: micrograms per cubic meter
*: Peak concentration for historical sampling data

5.4.3 Ambient Air Sampling Data

OU-2 ambient air concentrations remained consistent in Q4 2011, except for acetaldehyde. Acetaldehyde increased at OU2AA-02, and OU2AA-05. Acetaldehyde is not an MGP-related COC. It is formed from the oxidation of ethanol. Chemicals that are frequently detected in site outdoor air include potentially MGP-related chemicals, benzene, toluene, ethylbenzene, m,p-xylene, o-xylene, as well as the non MGP-related chemical, methylene chloride. These chemicals have historically been found in low concentrations in ambient air samples collected in OU-2. These chemicals are typical of urban, populated areas with high vehicular traffic. Low

concentrations of these COCs have been found pre- and post-oxygen system startups, and the data indicates that they are not influenced by system operation. Analytical data are provided in **Table 5-2**.

5.5 OU-3 Soil Vapor Monitoring

5.5.1 Overview and Sampling Scope

One soil vapor point (OU3SG-1) is located within the center line of OU-3, downgradient of the LIRR Right-of-Way. Historically, this point was monitored as part of the performance monitoring of the former Brightwaters Yard oxygen injection system. This system was abandoned in July 2009. The OU-3 Community Road Oxygen Injection line began operation on April 2010, and the current soil vapor point is located upgradient of this system. Soil vapor monitoring has been continued at this location to observe soil vapor concentrations within OU-3. The location of the soil vapor sample location is depicted on **Figure 1**.

5.5.2 Soil Vapor Sampling Data

Soil vapor concentrations have been slightly decreasing since their peak in June of 2008. During Q1 2012, the concentration of carbon disulfide decreased from 3.61 to 1.06 ug/m3. This has followed the general trend of decreasing concentrations during the autumn and winter months. Carbon disulfide is considered to be a potential MGP related COC, but is also associated with insecticides and natural biodegradation in soils. Concentrations are depicted graphically in **Appendix I**. Analytical data are provided in **Table 5-1**.

5.6 OU-4 Soil Vapor Monitoring

5.6.1 Overview and Sampling Scope

Historically, soil vapor in OU-4 has been monitored as part of the performance monitoring of the S-ISCO IRM. The IRM began on April 30, 2009 and ended on December 3, 2009. Monitoring concluded in OU-4 with the Q2 2011 sampling event. The soil vapor points in OU-4 were removed as part of the OU-4 Cesspool Area Excavation remedy. There are currently no plans to reinstall soil vapor points in OU-4.

6. Future Plans

The operations, maintenance and monitoring schedule is evaluated on a quarterly basis to keep the remedial systems operating as efficiently as possible. Rationale for sampling groundwater and soil vapor is also evaluated on a quarterly basis. Recommendations for future system GM and OM&M, as well as recommendations and rational for groundwater, soil vapor and ambient air monitoring are presented in the sections below.

6.1 Remedial Systems

6.1.1 NAPL Gauging & Recovery

- The frequency of NAPL gauging at BBMW-05D, BBMW-22D, BBRW-01R, BBRW-02, BBRW-05, and BBRW-06 will remain on a quarterly schedule, as approved by the NYSDEC.
- DNAPL monitoring will continue on a quarterly basis for OU-1 monitoring wells BBMW-34I2, BBMW-38I, BBMW-38I2, OZMW-21I, and OZMW-21D. LNAPL has been observed, historically in monitoring wells BBMW-34I and OZMW-25I. NAPL thickness in these wells will continue to be monitored on a quarterly basis.
- The DNAPL recovery system operational schedule was changed in Q2 2011 so that DNAPL recovery was conducted once every four weeks. The increase in time between pumping events has allowed more DNAPL to enter the recovery well, increasing the amount of DNAPL recovered during each pumping event, and minimizing excess water purged during the recovery event. DNAPL will continue to be recovered once every four weeks.
- Based on the results of the DNAPL gauging, bailing and recovery rate analysis conducted on existing wells with DNAPL and the temporary recovery wells installed following the Tar-specific Green Optical Screening Tool (TarGOST®) investigation, one additional permanent recovery well is planned. Following installation, a DNAPL recovery rate analysis will be conducted.

6.1.2 Ozone Groundwater Treatment System

- Continue bi-weekly and monthly inspections.
- Continue monthly sampling of groundwater, soil vapor and the SVE effluent.
- Develop a long term sampling plan for groundwater, soil vapor and SVE effluent.
- Conduct manufacturer recommended maintenance on the system components.

6.1.3 Current Oxygen Injection Systems

- Continue monthly system inspections and groundwater parameter monitoring.
- Continue quarterly groundwater monitoring.

- Continue weekly system inspections.
- Conduct manufacturer recommended maintenance on the systems.

6.2 Groundwater Monitoring

6.2.1 OU-3

- The groundwater monitoring network in the vicinity of the OU-3 LIRR Excavation IRM and downgradient of the upgraded Community Road oxygen injection line will continue to be monitored.

6.2.2 Sitewide

- Continue quarterly gauging and sampling of the groundwater monitoring well network.
- Rationale for reducing the size of the long-term groundwater monitoring program including the elimination of additional analysis designed to confirm that the aquifer environment was suitable for aerobic bacteria and that the bacteria population was sufficient for bioremediation of the plume, was submitted to NYSDEC during Q2 2012.
- Continue to sample for sulfate at and downgradient of monitoring wells that exceed the NYS AWQS criteria for class GA groundwater.

6.3 Soil Vapor/Ambient Air Monitoring

- Continue monthly soil vapor and ambient air sampling at locations within OU-1 to monitor for potential influence to soil vapor from the ozone injection system.
- In a letter to NYSDEC dated June 20, 2012, it was proposed that soil vapor monitoring associated with the treatment systems generally be discontinued in OU-1, OU-2 and OU-3.

6.4 Remedial Activity

6.4.1 OU-1

- Based on the results of the DNAPL gauging, bailing and recovery rate analysis conducted on existing wells with DNAPL and the temporary recovery wells installed following the TarGOST® investigation, one additional permanent recovery well is planned. Following installation, a DNAPL recovery rate analysis will be conducted and a recovery system proposed, if appropriate.
- A shallow soil removal program is planned to be completed in Q3 2012 to remove PAH impacted soils within the LIRR Right-of-Way to facilitate LIRR construction activities.

6.4.2 OU-2

- None

6.4.3 OU-3

- Optimization of the Community Road oxygen injection line was completed in Q1 2012 to target the most highly impacted zones to reduce or eliminate the migration of shallow and intermediate zone groundwater impacts downgradient of Community Road. Further evaluation of the groundwater impacts in the upgradient area, including potential supplemental groundwater treatment options, are being considered.

6.4.4 OU-4

- None

References

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Tables (compact disk only)

Tables also available at www.bayshoreworksmgp.com

Table 2-1
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Associated System	Total Heterotropic Plate Count (cfu/ml)											
		Q2 2008	Q3 2008	Q4 2008	Q1 2009			Q2 2009			Q3 2009		Q4 2009
		May-08	Sep-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Aug-09	Sep-09	Nov-09
OU2MW-28S	9 North Clinton	--	4,600	--	--	--	420	320	280	1,400	91	--	520
OU2MW-28I	9 North Clinton	--	29	--	--	--	4,600	4,400	11,000	1,300	200	--	11,000
OU2MW-28I2	9 North Clinton	--	860	--	--	--	2,300	1,200	960	540	140	--	180
OU2MW-29I	9 North Clinton	--	480	--	--	--	5,000	2,100	13,000	14,000	240	--	8,700
OU2MW-29I2	9 North Clinton	--	890	--	--	--	3,600	7,100	13,000	16,000	5,000	--	78,000
OU2MW-29D	9 North Clinton	--	3,300	--	--	--	1,800	180	180	180	1,100	--	300
OU2MW-30S	9 North Clinton	--	3,200	--	--	--	720	1,200	10,000	2,500	6,200	--	280
OU2MW-30I	9 North Clinton	--	10,000	--	--	--	240	13,000	26,000	63,450	81,250	--	21,000
OU2MW-30I2	9 North Clinton	--	540	--	--	--	960	16,000	145,000	66,950	23,000	--	9,400
OU2MW-30I3	9 North Clinton	--	2,100	--	--	--	18,000	3,800	18,000	67,700	62,700	--	162,500
OU2MW-30D	9 North Clinton	--	14,000	--	--	--	13,000	13,000	16,000	107,600	15,000	--	106,900
OU2MW-30D2	9 North Clinton	--	101,200	--	--	--	3,000	100,500	105,000	135,350	18,000	--	101,200
OU2MW-31I	9 North Clinton	--	100	--	--	--	13,000	13,000	102,000	64,150	260	--	27,000
OU2MW-31I2	9 North Clinton	--	1,300	--	--	--	1,600	520	1,600	1,800	340	--	112,600
OU2MW-32S	9 North Clinton	--	170	--	--	--	69	99	24	4,800	160	--	24
OU2MW-32I	9 North Clinton	--	77	--	--	--	70	160	35	280	240	--	880
OU2MW-32I2	9 North Clinton	--	26	--	--	--	2,300	230	180	26	26	--	69
OU2MW-32D	9 North Clinton	--	1,100	--	--	--	300	42	58	20	10	--	13
OU2MW-40S	9 North Clinton	--	820	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	9 North Clinton	--	190	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	9 North Clinton	--	6,000	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	9 North Clinton	--	42	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	33 North Clinton	--	--	140	--	--	--	230	100	300	--	45	--
OU2MW-35I	33 North Clinton	--	--	--	220	--	--	12,000	12,000	340	--	32	--
OU2MW-35I2	33 North Clinton	--	--	--	1,100	--	--	170	100	29	--	74	--
OU2MW-35D	33 North Clinton	--	--	--	1,100	--	--	1,500	1,100	250	--	87	--
OU2MW-36S	33 North Clinton	--	--	62	--	--	--	33	63	130	--	500	--
OU2MW-36I	33 North Clinton	--	--	120	--	--	--	1,000	710	1,500	--	320	--
OU2MW-36I2	33 North Clinton	--	--	100	--	--	--	45	53	57	--	1,100	--
OU2MW-36D	33 North Clinton	--	--	4,000	--	--	--	240	83	140	--	65	--
OU2MW-37S	33 North Clinton	--	--	--	130	--	--	560	130	1,100	--	2,100	--
OU2MW-37I	33 North Clinton	--	--	--	230	--	--	1,800	2,100	750	--	2,500	--
OU2MW-37I2	33 North Clinton	--	--	--	1,700	--	--	170	180	400	--	430	--
OU2MW-37D	33 North Clinton	--	--	--	2,700	--	--	1,055	240	200	--	50	--
OU2MW-38S	33 North Clinton	--	--	--	120	--	--	--	--	--	--	--	--
OU2MW-38I	33 North Clinton	--	--	--	280	--	--	--	--	--	--	--	--
OU2MW-38I2	33 North Clinton	--	--	--	240	--	--	--	--	--	--	--	--
OU2MW-38D	33 North Clinton	--	--	--	230	--	--	--	--	--	--	--	--
OU2MW-39S	33 North Clinton	--	--	--	23,000	--	--	7	41	19	--	40	--
OU2MW-39I	33 North Clinton	--	--	--	4,200	--	--	3,600	11,000	4,100	--	200	--
OU2MW-39I2	33 North Clinton	--	--	--	1,200	--	--	54	33	1	--	6	--
OU2MW-39D	33 North Clinton	--	--	--	20,000	--	--	730	960	250	--	54	--
OU2MW-42S	33 North Clinton	--	--	--	--	--	1,040	300	210	5,700	--	150	--
OU2MW-42I	33 North Clinton	--	--	--	--	--	74	94,000	12,000	2,200	--	3,400	--
OU2MW-42I2	33 North Clinton	--	--	--	--	--	130	2,500	620	140	--	200	--
OU2MW-42D	33 North Clinton	--	--	--	--	--	13,000	620	910	240	--	2,900	--
OU2MW-45S	34 North Clinton	--	--	--	86	1,200	270	--	1,000	95	--	520	--
OU2MW-45I	34 North Clinton	--	--	--	20	700	86	--	240	220	--	960	--
OU2MW-45I2	34 North Clinton	--	--	--	240	620	250	--	460	3,800	--	13,000	--
OU2MW-45D	34 North Clinton	--	--	--	220	360	310	--	210	4,200	--	270	--
OU2MW-46S	34 North Clinton	--	--	--	18	4,800	15,000	--	920	760	--	290	--
OU2MW-46I	34 North Clinton	--	--	--	110	120,000	11,000	--	7,600	13,000	--	2,900	--
OU2MW-46I2	34 North Clinton	--	--	--	32	860	300	--	3,300	14,000	--	180	--
OU2MW-47S	34 North Clinton	--	--	--	75	8,700	64,000	--	560	17,000	--	480	--

Table 2-1
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Associated System	Total Heterotropic Plate Count (cfu/ml)											
		Q2 2008	Q3 2008	Q4 2008	Q1 2009			Q2 2009			Q3 2009		Q4 2009
		May-08	Sep-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Aug-09	Sep-09	Nov-09
OU2MW-47I	34 North Clinton	--	--	--	4	68,000	2,600	--	2,500	2,800	--	420	--
OU2MW-47I2	34 North Clinton	--	--	--	24	73,000	9,800	--	6,500	950	--	960	--
OU2MW-47D	34 North Clinton	--	--	--	640	98,000	14,000	--	84,000	89,100	--	360	--
OU2MW-48S	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	Cooper Lane	880	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	Cooper Lane	1,900	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20S	Cooper Lane	180	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	Cooper Lane	110	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	Cooper Lane	1,400	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43S	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	75
OU2MW-43I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	430
OU2MW-43I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	760
OU2MW-43D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	2,100
OU2MW-44S	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	640
OU2MW-44I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	2,800
OU2MW-44I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	700
OU2MW-44D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	15,000
OU2MW-53S	Manatuck Lane	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	Manatuck Lane	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	Manatuck Lane	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52S	Plume Tail	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	Plume Tail	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	Plume Tail	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	NONE	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	NONE	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	NONE	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	NONE	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	NONE	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	NONE	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	NONE	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	NONE	--	--	--	--	--	--	--	--	--	--	--	--

Table 2-1
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Associated System	Total Heterotropic Plate Count (cfu/ml)											
		Q4 2009	Q1 2010			Q2 2010		Q3 2010		Q4 2010			Q1 2011
		Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Aug-10	Oct-10	Nov-10	Dec-10	Jan-11
OU2MW-28S	9 North Clinton	--	--	340	--	--	35	--	43	--	46	--	--
OU2MW-28I	9 North Clinton	--	--	2,600	--	--	220	--	49	--	22	--	--
OU2MW-28I2	9 North Clinton	--	--	3,600	--	--	860	--	210	--	5,900	--	--
OU2MW-29I	9 North Clinton	--	--	820	--	--	380	--	220	--	240	--	--
OU2MW-29I2	9 North Clinton	--	--	2,400	--	--	10,000	--	2,600	--	230	--	--
OU2MW-29D	9 North Clinton	--	--	7,800	--	--	180	--	120	--	590	--	--
OU2MW-30S	9 North Clinton	--	--	94	--	--	65	--	130	--	14	--	--
OU2MW-30I	9 North Clinton	--	--	4,400	--	--	680	--	200	--	1,400	--	--
OU2MW-30I2	9 North Clinton	--	--	12,000	--	--	9,200	--	270	--	130	--	--
OU2MW-30I3	9 North Clinton	--	--	9,900	--	--	2,600	--	660	--	640	--	--
OU2MW-30D	9 North Clinton	--	--	29,000	--	--	6,200	--	240	--	190	--	--
OU2MW-30D2	9 North Clinton	--	--	7,000	--	--	1,800	--	4,200	--	5,600	--	--
OU2MW-31I	9 North Clinton	--	--	880	--	--	350	--	220	--	120	--	--
OU2MW-31I2	9 North Clinton	--	--	240	--	--	2,100	--	680	--	130	--	--
OU2MW-32S	9 North Clinton	--	--	23	--	--	37	--	100	--	48	--	--
OU2MW-32I	9 North Clinton	--	--	180	--	--	95	--	340	--	400	--	--
OU2MW-32I2	9 North Clinton	--	--	760	--	--	76	--	80	--	320	--	--
OU2MW-32D	9 North Clinton	--	--	7	--	--	12	--	17	--	10	--	--
OU2MW-40S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	33 North Clinton	12	--	--	23	--	12	--	47	--	71	--	--
OU2MW-35I	33 North Clinton	290	--	--	17	--	58	--	11	--	27	--	--
OU2MW-35I2	33 North Clinton	10	--	--	27	--	13	--	6	--	10	--	--
OU2MW-35D	33 North Clinton	460	--	--	330	--	660	--	99	--	65	--	--
OU2MW-36S	33 North Clinton	42	--	--	14	--	31	--	21	--	340	--	--
OU2MW-36I	33 North Clinton	170	--	--	48	--	75	--	77	--	55	--	--
OU2MW-36I2	33 North Clinton	560	--	--	68	--	28	--	10	--	12	--	--
OU2MW-36D	33 North Clinton	1,100	--	--	78	--	37	--	35	--	160	--	--
OU2MW-37S	33 North Clinton	280	--	--	210	--	60	--	650	--	140	--	--
OU2MW-37I	33 North Clinton	700	--	--	33	--	300	--	89	--	59	--	--
OU2MW-37I2	33 North Clinton	450	--	--	15	--	24	--	130	--	15	--	--
OU2MW-37D	33 North Clinton	4,400	--	--	92	--	28	--	83	--	8	--	--
OU2MW-38S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	33 North Clinton	45	--	--	12	--	15	--	96	50	--	--	18
OU2MW-39I	33 North Clinton	54	--	--	50	--	72	--	13	98	--	--	45
OU2MW-39I2	33 North Clinton	38	--	--	380	--	110	--	11	30	--	--	70
OU2MW-39D	33 North Clinton	150	--	--	380	--	61	--	310	870	--	--	300
OU2MW-42S	33 North Clinton	700	--	--	820	--	580	--	460	--	280	--	--
OU2MW-42I	33 North Clinton	4,600	--	--	1,100	--	660	--	95	--	320	--	--
OU2MW-42I2	33 North Clinton	1,100	--	--	15	--	170	--	520	--	270	--	--
OU2MW-42D	33 North Clinton	1,300	--	--	720	--	67	--	45	--	55	--	--
OU2MW-45S	34 North Clinton	1,000	--	--	340	--	160	--	5,000	--	1,600	--	--
OU2MW-45I	34 North Clinton	290	--	--	3,200	--	300	--	260	--	750	--	--
OU2MW-45I2	34 North Clinton	6,700	--	--	4,200	--	110	--	22	--	170	--	--
OU2MW-45D	34 North Clinton	140	--	--	200	--	190	--	140	--	89	--	--
OU2MW-46S	34 North Clinton	36	--	--	40	--	22	--	50	--	150	--	--
OU2MW-46I	34 North Clinton	360	--	--	55	--	130	--	130	--	26	--	--
OU2MW-46I2	34 North Clinton	20	--	--	20	--	12	--	18	--	39	--	--
OU2MW-47S	34 North Clinton	1,600	--	--	130	--	200	--	320	--	190	--	99

Table 2-1
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Associated System	Total Heterotropic Plate Count (cfu/ml)											
		Q4 2009	Q1 2010			Q2 2010		Q3 2010		Q4 2010			Q1 2011
		Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Aug-10	Oct-10	Nov-10	Dec-10	Jan-11
OU2MW-47I	34 North Clinton	12,000	--	--	340	--	300	--	440	--	230	--	340
OU2MW-47I2	34 North Clinton	4,700	--	--	2,000	--	1,000	--	120	--	270	--	22
OU2MW-47D	34 North Clinton	125,400	--	--	6,200	--	5,700	--	520	--	880	--	340
OU2MW-48S	66 North Clinton	--	--	1,000	--	--	270	--	30	--	--	30	--
OU2MW-48I	66 North Clinton	--	--	100	--	--	82	--	22	--	--	15	--
OU2MW-48I2	66 North Clinton	--	--	80	--	--	55	--	15	--	--	37	--
OU2MW-48D	66 North Clinton	--	--	760	--	--	74	--	65	--	--	61	--
OU2MW-49S	66 North Clinton	--	--	45	--	--	30	--	10	13	--	--	--
OU2MW-49I	66 North Clinton	--	--	360	--	--	42	--	15	25	--	--	53
OU2MW-49I2	66 North Clinton	--	--	660	--	--	99	--	44	110	--	--	57
OU2MW-49D	66 North Clinton	--	--	460	--	--	130	--	72	40	--	--	220
OU2MW-54S	66 North Clinton	--	--	47	36	130	--	--	130	--	--	22	--
OU2MW-54I	66 North Clinton	--	--	290	80	94	--	--	580	--	--	26	--
OU2MW-54I2	66 North Clinton	--	--	1,900	1,500	580	--	--	66	--	--	82	--
OU2MW-54D	66 North Clinton	--	--	11,000	110	99	--	--	820	--	--	32	--
OU2MW-19I	Cooper Lane	--	--	--	7,400	--	820	--	--	--	--	190	--
OU2MW-19I2	Cooper Lane	--	--	--	13,000	--	4,600	--	--	--	--	1,300	--
OU2MW-19D	Cooper Lane	--	--	--	12,000	--	640	--	--	--	--	610	--
OU2MW-20S	Cooper Lane	--	--	--	100	--	58	--	30	--	4	--	--
OU2MW-20I	Cooper Lane	--	--	--	24,000	--	1,900	--	2,800	--	7	--	--
OU2MW-20I2	Cooper Lane	--	--	--	85	--	53	--	15	--	3	--	--
OU2MW-20D	Cooper Lane	--	--	--	220	--	57	--	13	--	5	--	--
OU2MW-43S	Cooper Lane	--	--	--	99,000	--	380	--	--	--	--	260	--
OU2MW-43I	Cooper Lane	--	--	--	20,000	--	1,500	--	--	--	--	22	--
OU2MW-43I2	Cooper Lane	--	--	--	4,200	--	6,900	--	--	--	--	100	--
OU2MW-43D	Cooper Lane	--	--	--	3,400	--	1,700	--	--	--	--	580	--
OU2MW-44S	Cooper Lane	--	--	--	180	--	460	--	--	--	--	160	--
OU2MW-44I2	Cooper Lane	--	--	--	71	--	58	--	--	--	--	56	--
OU2MW-44I	Cooper Lane	--	--	--	34	--	90	--	--	--	--	100	--
OU2MW-44D	Cooper Lane	--	--	--	210	--	200	--	--	--	--	28	--
OU2MW-53S	Manatuck Lane	--	--	--	--	--	--	--	97	--	--	34	--
OU2MW-53I	Manatuck Lane	--	--	--	--	--	--	--	39	--	--	47	--
OU2MW-53D	Manatuck Lane	--	--	--	--	--	--	--	42	--	--	95	--
OU2MW-52S	Plume Tail	--	--	--	--	--	--	--	--	--	--	36	--
OU2MW-52I	Plume Tail	--	--	--	--	--	--	--	--	--	--	51	--
OU2MW-52D	Plume Tail	--	--	--	--	--	--	--	--	--	--	14	--
OU2MW-55S	NONE	--	--	--	--	--	--	2,400	400	--	--	90	--
OU2MW-55I	NONE	--	--	--	--	--	--	4,200	260	--	--	220	--
OU2MW-55I2	NONE	--	--	--	--	--	--	1,100	40	--	--	63	--
OU2MW-55D	NONE	--	--	--	--	--	--	2,400	1,200	--	--	160	--
OU2MW-56S	NONE	--	--	--	--	--	--	22,000	130	--	--	120	--
OU2MW-56I	NONE	--	--	--	--	--	--	2,300	280	--	--	200	--
OU2MW-56I2	NONE	--	--	--	--	--	--	3,200	41	--	--	60	--
OU2MW-56D	NONE	--	--	--	--	--	--	9,400	130	--	--	75	--

Table 2-1
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Associated System	Total Heterotropic Plate Count (cfu/ml)										
		Q1 2011		Q2 2011			Q3 2011			Q4 2011		
		Feb-11	Mar-11	Apr-11	May-11	Jun-11	July-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
OU2MW-28S	9 North Clinton	25	--	130	--	--	42	--	--	29	--	--
OU2MW-28I	9 North Clinton	44	--	180	--	--	41	--	--	21	--	--
OU2MW-28I2	9 North Clinton	3,200	--	4,600	--	--	2,300	--	--	840	--	--
OU2MW-29I	9 North Clinton	130	--	57	--	--	86	--	--	38	--	--
OU2MW-29I2	9 North Clinton	52	--	180	--	--	310	--	--	66	--	--
OU2MW-29D	9 North Clinton	3,700	--	65	--	--	66	--	--	48	--	--
OU2MW-30S	9 North Clinton	130	--	43	--	--	36	--	--	100	--	--
OU2MW-30I	9 North Clinton	130	--	380	--	--	85	--	--	780	--	--
OU2MW-30I2	9 North Clinton	270	--	480	--	--	28	--	--	19	--	--
OU2MW-30I3	9 North Clinton	130	--	10,000	--	--	21	--	--	15	--	--
OU2MW-30D	9 North Clinton	95	--	1,900	--	--	77	--	--	95	--	--
OU2MW-30D2	9 North Clinton	1,900	--	1,000	--	--	2,700	--	--	710	--	--
OU2MW-31I	9 North Clinton	63	--	250	--	--	93	--	--	260	--	--
OU2MW-31I2	9 North Clinton	44	--	400	--	--	7	--	--	190	--	--
OU2MW-32S	9 North Clinton	42	--	37	--	--	25	--	--	61	--	--
OU2MW-32I	9 North Clinton	270	--	190	--	--	140	--	--	280	--	--
OU2MW-32I2	9 North Clinton	370	--	170	--	--	210	--	--	19	--	--
OU2MW-32D	9 North Clinton	89	--	72	--	--	220	--	--	46	--	--
OU2MW-40S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	33 North Clinton	8	--	--	7	--	--	41	--	--	43	--
OU2MW-35I	33 North Clinton	8	--	--	89	--	--	9	--	--	26	--
OU2MW-35I2	33 North Clinton	17	--	--	20	--	--	12	--	--	54	--
OU2MW-35D	33 North Clinton	52	--	--	110	--	--	64	--	--	770	--
OU2MW-36S	33 North Clinton	30	--	--	18	--	27	--	--	--	37	--
OU2MW-36I	33 North Clinton	11	--	--	15	--	15	--	--	--	21	--
OU2MW-36I2	33 North Clinton	6	--	--	6	--	19	--	--	--	14	--
OU2MW-36D	33 North Clinton	37	--	--	13	--	18	--	--	--	14	--
OU2MW-37S	33 North Clinton	51	--	--	34	--	--	200	--	--	110	--
OU2MW-37I	33 North Clinton	26	--	--	12	--	--	61	--	--	140	--
OU2MW-37I2	33 North Clinton	20	--	--	38	--	--	64	--	--	100	--
OU2MW-37D	33 North Clinton	30	--	--	16	--	--	19	--	--	270	--
OU2MW-38S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	33 North Clinton	--	--	21	--	--	--	27	--	33	--	--
OU2MW-39I	33 North Clinton	--	--	45	--	--	--	99	--	47	--	--
OU2MW-39I2	33 North Clinton	--	--	40	--	--	--	20	--	190	--	--
OU2MW-39D	33 North Clinton	--	--	67	--	--	--	65	--	46	--	--
OU2MW-42S	33 North Clinton	79	--	--	240	--	--	700	--	--	720	--
OU2MW-42I	33 North Clinton	210	--	--	120	--	--	120	--	--	42	--
OU2MW-42I2	33 North Clinton	29	--	--	130	--	--	12	--	--	130	--
OU2MW-42D	33 North Clinton	20	--	--	17	--	--	15	--	--	29	--
OU2MW-45S	34 North Clinton	--	160	--	43	--	--	360	--	--	140	--
OU2MW-45I	34 North Clinton	--	230	28,000	--	--	--	160	--	--	1,000	--
OU2MW-45I2	34 North Clinton	--	44	--	17	--	--	15	--	--	260	--
OU2MW-45D	34 North Clinton	--	37	31,000	--	--	--	1,100	--	--	230	--
OU2MW-46S	34 North Clinton	27	--	270	--	--	--	38	--	--	27	--
OU2MW-46I	34 North Clinton	5	--	240	--	--	--	11	--	--	18	--
OU2MW-46I2	34 North Clinton	14	--	5,000	--	--	--	20	--	--	240	--
OU2MW-47S	34 North Clinton	--	--	100	--	--	--	170	--	160	--	--

Table 2-1
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Associated System	Total Heterotropic Plate Count (cfu/ml)										
		Q1 2011		Q2 2011			Q3 2011			Q4 2011		
		Feb-11	Mar-11	Apr-11	May-11	Jun-11	July-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
OU2MW-47I	34 North Clinton	--	--	190	--	--	--	12	--	64	--	--
OU2MW-47I2	34 North Clinton	--	--	2,000	--	--	--	44	--	540	--	--
OU2MW-47D	34 North Clinton	--	--	3,400	--	--	--	39	--	240	--	--
OU2MW-48S	66 North Clinton	--	11	--	--	--	--	--	--	--	--	--
OU2MW-48I	66 North Clinton	--	12	--	--	--	--	--	--	--	--	--
OU2MW-48I2	66 North Clinton	--	25	--	--	--	--	--	--	--	--	--
OU2MW-48D	66 North Clinton	--	8	--	--	--	--	--	--	--	--	--
OU2MW-49S	66 North Clinton	20	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	66 North Clinton	--	220	--	62	--	--	120	--	80	--	--
OU2MW-54I	66 North Clinton	--	59	--	140	--	--	66	--	45	--	--
OU2MW-54I2	66 North Clinton	--	20	--	17	--	--	13	--	17	--	--
OU2MW-54D	66 North Clinton	--	77	--	76	--	--	82	--	81	--	--
OU2MW-19I	Cooper Lane	360	--	--	--	--	--	130	--	--	--	51
OU2MW-19I2	Cooper Lane	400	--	--	--	--	--	60	--	--	--	27
OU2MW-19D	Cooper Lane	350	--	--	--	--	--	6,400	--	--	--	1,700
OU2MW-20S	Cooper Lane	33	--	--	--	--	110	--	--	37	--	--
OU2MW-20I	Cooper Lane	270	--	--	--	--	47	--	--	110	--	--
OU2MW-20I2	Cooper Lane	140	--	--	--	--	35	--	--	24	--	--
OU2MW-20D	Cooper Lane	67	--	--	--	--	81	--	--	220	--	--
OU2MW-43S	Cooper Lane	--	380	--	3,200	--	67	--	--	--	55	--
OU2MW-43I	Cooper Lane	6	--	--	4,000	--	140	--	--	--	380	--
OU2MW-43I2	Cooper Lane	3,600	--	--	2,300	--	410	--	--	--	82	--
OU2MW-43D	Cooper Lane	23,000	--	--	3,800	--	290	--	--	--	57	--
OU2MW-44S	Cooper Lane	--	56	--	46	--	19	--	--	--	--	22
OU2MW-44I2	Cooper Lane	--	30	--	27	--	25	--	--	--	--	11
OU2MW-44I	Cooper Lane	--	14	--	19	--	12	--	--	--	--	44
OU2MW-44D	Cooper Lane	--	7	--	45	--	24	--	--	--	--	34
OU2MW-53S	Manatuck Lane	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	Manatuck Lane	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	Manatuck Lane	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52S	Plume Tail	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	Plume Tail	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	Plume Tail	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	NONE	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	NONE	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	NONE	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	NONE	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	NONE	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	NONE	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	NONE	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	NONE	--	--	--	--	--	--	--	--	--	--	--

Table 2-1
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Associated System	Total Heterotropic Plate Count (cfu/ml)		
		Q1 2012		
		Jan-12	Feb-12	Mar-12
OU2MW-28S	9 North Clinton	--	13	--
OU2MW-28I	9 North Clinton	--	21	--
OU2MW-28I2	9 North Clinton	--	96	--
OU2MW-29I	9 North Clinton	--	42	--
OU2MW-29I2	9 North Clinton	--	39	--
OU2MW-29D	9 North Clinton	--	71	--
OU2MW-30S	9 North Clinton	--	29	--
OU2MW-30I	9 North Clinton	--	66	--
OU2MW-30I2	9 North Clinton	--	130	--
OU2MW-30I3	9 North Clinton	--	580	--
OU2MW-30D	9 North Clinton	--	190	--
OU2MW-30D2	9 North Clinton	--	2,400	--
OU2MW-31I	9 North Clinton	--	81	--
OU2MW-31I2	9 North Clinton	--	11	--
OU2MW-32S	9 North Clinton	--	31	--
OU2MW-32I	9 North Clinton	--	91	--
OU2MW-32I2	9 North Clinton	--	85	--
OU2MW-32D	9 North Clinton	--	25	--
OU2MW-40S	9 North Clinton	--	--	--
OU2MW-40I	9 North Clinton	--	--	--
OU2MW-41S	9 North Clinton	--	--	--
OU2MW-41I	9 North Clinton	--	--	--
OU2MW-35S	33 North Clinton	--	530	--
OU2MW-35I	33 North Clinton	--	140	--
OU2MW-35I2	33 North Clinton	--	12	--
OU2MW-35D	33 North Clinton	--	470	--
OU2MW-36S	33 North Clinton	--	17	--
OU2MW-36I	33 North Clinton	--	10	--
OU2MW-36I2	33 North Clinton	--	6	--
OU2MW-36D	33 North Clinton	--	13	--
OU2MW-37S	33 North Clinton	--	21	--
OU2MW-37I	33 North Clinton	--	36	--
OU2MW-37I2	33 North Clinton	--	420	--
OU2MW-37D	33 North Clinton	--	110	--
OU2MW-38S	33 North Clinton	--	--	--
OU2MW-38I	33 North Clinton	--	--	--
OU2MW-38I2	33 North Clinton	--	--	--
OU2MW-38D	33 North Clinton	--	--	--
OU2MW-39S	33 North Clinton	--	160	--
OU2MW-39I	33 North Clinton	--	340	--
OU2MW-39I2	33 North Clinton	--	91	--
OU2MW-39D	33 North Clinton	--	350	--
OU2MW-42S	33 North Clinton	--	45	--
OU2MW-42I	33 North Clinton	--	64	--
OU2MW-42I2	33 North Clinton	--	34	--
OU2MW-42D	33 North Clinton	--	10	--
OU2MW-45S	34 North Clinton	--	56	--
OU2MW-45I	34 North Clinton	--	140	--
OU2MW-45I2	34 North Clinton	--	110	--
OU2MW-45D	34 North Clinton	--	60	--
OU2MW-46S	34 North Clinton	--	21	--
OU2MW-46I	34 North Clinton	--	17	--
OU2MW-46I2	34 North Clinton	--	120	--
OU2MW-47S	34 North Clinton	--	44	--

Table 2-1
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Associated System	Total Heterotropic Plate Count (cfu/ml)		
		Q1 2012		
		Jan-12	Feb-12	Mar-12
OU2MW-47I	34 North Clinton	--	100	--
OU2MW-47I2	34 North Clinton	--	640	--
OU2MW-47D	34 North Clinton	--	66	--
OU2MW-48S	66 North Clinton	--	--	--
OU2MW-48I	66 North Clinton	--	--	--
OU2MW-48I2	66 North Clinton	--	--	--
OU2MW-48D	66 North Clinton	--	--	--
OU2MW-49S	66 North Clinton	--	--	--
OU2MW-49I	66 North Clinton	--	--	--
OU2MW-49I2	66 North Clinton	--	--	--
OU2MW-49D	66 North Clinton	--	--	--
OU2MW-54S	66 North Clinton	--	--	52
OU2MW-54I	66 North Clinton	--	--	460
OU2MW-54I2	66 North Clinton	--	--	7
OU2MW-54D	66 North Clinton	--	--	37
OU2MW-19I	Cooper Lane	--	--	9
OU2MW-19I2	Cooper Lane	--	--	15
OU2MW-19D	Cooper Lane	--	--	410
OU2MW-20S	Cooper Lane	--	11	--
OU2MW-20I	Cooper Lane	--	21	--
OU2MW-20I2	Cooper Lane	--	28	--
OU2MW-20D	Cooper Lane	--	32	--
OU2MW-43S	Cooper Lane	--	--	53
OU2MW-43I	Cooper Lane	--	--	450
OU2MW-43I2	Cooper Lane	--	--	3,800
OU2MW-43D	Cooper Lane	--	--	8,100
OU2MW-44S	Cooper Lane	--	--	18
OU2MW-44I2	Cooper Lane	--	--	10
OU2MW-44I	Cooper Lane	--	--	13
OU2MW-44D	Cooper Lane	--	--	25
OU2MW-53S	Manatuck Lane	--	--	--
OU2MW-53I	Manatuck Lane	--	--	--
OU2MW-53D	Manatuck Lane	--	--	--
OU2MW-52S	Plume Tail	--	--	--
OU2MW-52I	Plume Tail	--	--	--
OU2MW-52D	Plume Tail	--	--	--
OU2MW-55S	NONE	--	--	--
OU2MW-55I	NONE	--	--	--
OU2MW-55I2	NONE	--	--	--
OU2MW-55D	NONE	--	--	--
OU2MW-56S	NONE	--	--	--
OU2MW-56I	NONE	--	--	--
OU2MW-56I2	NONE	--	--	--
OU2MW-56D	NONE	--	--	--

Notes:
cfu/ml - colony forming units per milliliter
-- Not Sampled

Table 2-2
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Total Heterotropic Plate Count (cfu/ml)													
	Q1 2001	Q2 2001	Q3 2001	Q4 2001	Q1 2002	Q2 2002	Q3 2002	Q4 2002	Q2 2004	Q3 2004	Q4 2004	Q1 2005	Q2 2005	Q3 2005
MW-02S	--	--	--	--	--	--	--	--	10,000	--	--	--	--	--
MW-02SR	--	--	--	--	--	--	--	--	--	TNTC	2,200	1,600	1,400	2,500
MW-16S	--	--	--	--	--	--	--	--	2,700	--	--	--	--	--
MW-16SR	--	--	--	--	--	--	--	--	--	TNTC	6,400	160	2,000	1,100
MW-30W	1,400	240	200	60,000	290	5,600	5,100	7,200	--	--	--	--	--	--
MW-34S	330	>300	2,200	220,000	>3,000	--	14,000	570	1,800	320	750	420	1,300	420
MW-46W	>3,000	>300	--	--	--	--	--	--	--	--	--	--	--	--
MW-46WR	--	--	--	--	--	--	--	46,000	24,000	13,000	6,600	4,400	2,000	1,800
MW-64	150	--	--	34,000	--	360,000	110,000	760	--	--	--	--	--	--
MW-70/70S	3,000	>300	6,000	4,100	140	1,900	3,700	57	660	TNTC	7,800	340	8,200	2,600
MW-71/71S	650	190	7,900	17,000	400	88	600	3,800	270	980	4,200	--	--	--
MWBS-02S	--	--	--	--	--	--	--	--	160	1,400	1,200	250	100	220
PDMW-01	--	--	--	--	--	--	--	--	150	83	78	110	220	71
PDMW-02	--	--	--	--	--	--	--	--	13	TNTC	200	29,000	2,200	2,300
OU3MW-01S	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2-2
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Total Heterotropic Plate Count (cfu/ml)													
	Q4 2005	Q1 2006	Q2 2006	Q3 2006	Q4 2006	Q1 2007	Q2 2007	Q3 2007	Q4 2007	Q1 2008	Q2 2008	Q3 2008	Q4 2008	Q1 2009
MW-02S	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02SR	1,100	1,200	95	350	1,000	560	70	190	300	76	44	380	290	130
MW-16S	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	23,000	6,000	1,700	4,100	30,000	12,000	3,200	2,000	416,400	137,500	84,000	7,765	25,000	4,300
MW-30W	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-34S	5,800	640	730	1,900	1,000	2,200	130	9,000	370	1,000	390	580	360	100
MW-46W	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-46WR	1,800	1,000	22,000	2,800	4,600	2,100	560	8,600	3,200	15,000	120	1,400	800	170
MW-64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	900	800	470	350	170	180	44	1,700	170	2,000	80	580	680	120
MW-71/71S	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	340	260	55	45	26	74	16	100	160	280	340	860	650	550
PDMW-01	810	140	45	240	50	33	22	420	130	38	120	1,000	200	280
PDMW-02	6,000	4,300	3,000	720	2,400	1,700	390	2,000	110	2,100	95	5,200	3,300	3,700
OU3MW-01S	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2-2
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Total Heterotropic Plate Count (cfu/ml)											
	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011	Q3 2011	Q4 2011	Q1 2012
MW-02S	--	--	--	--	--	--	--	--	--	--	--	--
MW-02SR	110	--	--	--	--	--	--	--	--	--	--	--
MW-16S	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	16,000	--	--	--	--	--	--	--	--	--	--	--
MW-30W	--	--	--	--	--	--	--	--	--	--	--	--
MW-34S	2,400	210	420	260	400	130	330	4,600	1,400	200	--	--
MW-46W	--	--	--	--	--	--	--	--	--	--	--	--
MW-46WR	12,000	4,200	260	310	2,000	64	37	220	83	560	--	--
MW-64	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	920	390	5,900	160	340	280	88	240	350	660	--	--
MW-71/71S	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	55	220	62	620	32	20	100	290	45	97	--	--
PDMW-01	140	--	71	--	120	--	--	--	--	--	--	--
PDMW-02	600	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	--	960	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	--	1,200	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	--	300	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	--	--	--	86	70	--	--	--	--	--	95	29
OU3MW-07I	--	--	--	890	100	--	--	--	--	--	290	200
OU3MW-07I2	--	--	--	1,100	170	--	--	--	--	--	200	280

Notes:
cfu/ml - colony forming units per milliliter
TNTC - too numerous to count
-- Not Sampled

Table 3-1
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-05D	1/3/2012	8:22	2.00	23.97	9.86	14.11	
BBMW-05D2R	1/3/2012	8:20	2.00	24.17	8.87	15.30	
BBMW-13D	1/3/2012	10:35	2.00	23.90	9.23	14.67	
BBMW-20I	1/3/2012	9:20	1.00	18.63	4.56	14.07	
BBMW-22S	1/3/2012	9:00	2.00	20.87	6.64	14.23	
BBMW-22I	1/3/2012	9:04	2.00	17.58	6.26	11.32	
BBMW-22D	1/3/2012	9:03	2.00	20.77	6.31	14.46	
BBMW-26S	1/6/2012	10:18	1.00	24.96	9.23	15.73	
BBMW-26I	1/6/2012	10:19	1.00	25.02	9.29	15.73	
BBMW-27S	1/6/2012	10:36	1.00	25.03	9.33	15.70	
BBMW-27I	1/6/2012	10:37	1.00	25.37	9.67	15.70	
BBMW-34S	1/3/2012	13:40	2.00	25.03	10.34	14.69	
BBMW-34I	1/3/2012	13:40	2.00	25.24	10.31	14.93	
BBMW-34I2	1/3/2012	13:40	2.00	25.05	10.44	14.61	
BBMW-34D	1/3/2012	13:40	2.00	25.21	10.63	14.58	
BBMW-35S	1/3/2012	14:15	1.00	24.08	10.28	13.80	
BBMW-35I	1/3/2012	14:15	1.00	24.17	10.35	13.82	
BBMW-35I2	1/3/2012	14:15	1.00	24.10	10.28	13.82	
BBMW-35D	1/3/2012	14:15	1.00	24.07	10.29	13.78	
BBMW-38S	1/3/2012	13:30	2.00	26.14	10.95	15.19	
BBMW-38I	1/3/2012	13:30	2.00	26.09	10.92	15.17	
BBMW-38I2	1/3/2012	13:30	2.00	26.16	11.07	15.09	
BBMW-38D	1/3/2012	13:30	2.00	26.08	11.00	15.08	
BBMW-39S	1/3/2012	13:50	2.00	23.99	9.59	14.40	
BBMW-39I	1/3/2012	13:50	2.00	24.03	9.62	14.41	
BBMW-39I2	1/3/2012	13:50	2.00	23.98	9.61	14.37	
BBMW-39D	1/3/2012	13:50	2.00	23.98	9.58	14.40	
BBMW-40S	1/3/2012	14:00	2.00	24.76	9.85	14.91	
BBMW-40I	1/3/2012	14:00	2.00	24.77	9.81	14.96	
BBMW-40I2	1/3/2012	14:00	2.00	24.77	9.81	14.96	
BBMW-40D	1/3/2012	14:00	2.00	24.76	9.85	14.91	
BBMW-41S	1/3/2012	13:35	2.00	24.28	9.54	14.74	
BBMW-41I	1/3/2012	13:35	2.00	24.37	9.60	14.77	
BBMW-41I2	1/3/2012	13:35	2.00	24.47	9.72	14.75	
BBMW-41D	1/3/2012	13:35	2.00	24.40	9.67	14.73	
MW-03S	1/3/2012	10:30	4.00	22.59	7.97	14.62	
MW-03D	1/3/2012	10:32	4.00	22.48	7.84	14.64	
MW-05S	1/3/2012	8:22	2.00	24.05	9.64	14.41	
MW-05D	1/3/2012	8:21	2.00	24.37	9.86	14.51	
MW-09S	1/6/2012	10:29	4.00	25.17	9.17	16.00	
MW-09I	1/6/2012	10:31	2.00	24.71	8.70	16.01	
MW-09I2	1/6/2012	10:32	2.00	25.59	9.67	15.92	
MW-09D	1/6/2012	10:33	2.00	25.51	9.60	15.91	
OZMW-16S	1/3/2012	9:50	2.00	19.88	6.25	13.63	
OZMW-16I	1/3/2012	9:50	2.00	19.90	6.29	13.61	
OZMW-16I2	1/3/2012	9:51	2.00	19.72	6.11	13.61	
OZMW-16D	1/3/2012	9:51	2.00	20.10	6.46	13.64	
OZMW-17S	1/3/2012	9:56	2.00	19.83	6.16	13.67	
OZMW-17I	1/3/2012	9:57	2.00	19.91	6.27	13.64	
OZMW-17I2	1/3/2012	9:57	2.00	19.86	6.26	13.60	
OZMW-17D	1/3/2012	9:58	2.00	19.88	6.26	13.62	
OZMW-18S	1/3/2012	10:07	2.00	19.56	5.99	13.57	
OZMW-18I	1/3/2012	10:08	2.00	19.98	5.95	14.03	
OZMW-18I2	1/3/2012	10:10	2.00	19.97	5.90	14.07	
OZMW-18D	1/3/2012	10:10	2.00	19.53	5.96	13.57	
OZMW-19S	1/3/2012	8:35	2.00	26.11	11.67	14.44	
OZMW-19I	1/3/2012	8:35	2.00	26.08	11.94	14.14	
OZMW-19I2	1/3/2012	8:35	2.00	26.08	11.99	14.09	
OZMW-19D	1/3/2012	8:35	2.00	26.08	11.93	14.15	
OZMW-21S	1/3/2012	8:25	2.00	24.38	9.81	14.57	
OZMW-21I	1/3/2012	8:27	2.00	24.38	9.95	14.43	
OZMW-21I2	1/3/2012	8:27	2.00	24.36	9.80	14.56	
OZMW-21D	1/3/2012	8:27	2.00	24.33	9.86	14.47	
OZMW-22RS	1/3/2012	9:35	2.00	22.69	8.76	13.93	

Table 3-1
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OZMW-22RI	1/3/2012	9:35	2.00	22.72	8.87	13.85	
OZMW-23S	1/3/2012	8:50	2.00	24.33	10.46	13.87	
OZMW-23I	1/3/2012	8:50	2.00	24.32	10.44	13.88	
OZMW-23I2	1/3/2012	8:50	2.00	24.29	10.49	13.80	
OZMW-23D	1/3/2012	8:50	2.00	24.28	10.42	13.86	
OZMW-24S	1/3/2012	8:45	2.00	20.39	9.22	11.17	
OZMW-24I	1/3/2012	8:45	2.00	23.12	9.29	13.83	
OZMW-24I2	1/3/2012	8:45	2.00	23.12	9.30	13.82	
OZMW-24D	1/3/2012	8:45	2.00	23.10	9.22	13.88	
OZMW-25S	1/3/2012	8:30	2.00	24.67	10.34	14.33	
OZMW-25I	1/3/2012	8:30	2.00	24.55	10.26	14.29	
OZMW-25I2	1/3/2012	8:30	2.00	24.61	10.32	14.29	
OZMW-25D	1/3/2012	8:30	2.00	24.82	10.52	14.30	
OZMW-26S	1/3/2012	8:40	2.00	24.59	10.41	14.18	
OZMW-26I	1/3/2012	8:40	2.00	24.60	10.40	14.20	
OZMW-26I2	1/3/2012	8:40	2.00	24.60	10.43	14.17	
OZMW-26D	1/3/2012	8:40	2.00	24.60	10.42	14.18	

Notes:
1 - Well Elevations obtained from 2007 survey or later and reference NAVD88 datum
MSL - Mean Sea Level
NS - Survey Data Not Available
NM - Not Measured
NC - Not Calculated

Table 3-2
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04	Aug-04
BBMW-05D	64.0 - 74.0	NC	13.67	13.42	13.51	12.15	14.25	14.72	14.55	13.70	14.15	15.83	13.54
BBMW-05D2	126.5 - 136.5	NC	NC	14.00	13.82	12.30	14.72	15.54	15.07	14.51	15.10	16.23	14.38
BBMW-05D2R	127.0 - 137.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-13D	62.0 -72.0	NC	14.05	13.75	14.55	12.48	14.64	15.12	15.15	14.09	14.52	16.29	13.91
BBMW-20S	4.0 - 14.0	NC	NC	NC	12.59	11.28	13.21	13.72	13.56	12.71	13.13	14.59	12.56
BBMW-20I	35.0 - 45.0	NC	NC	NC	12.52	11.22	13.14	13.64	13.48	12.64	13.04	14.51	12.50
BBMW-20D	62.0 - 72.0	NC	NC	NC	12.62	11.32	13.25	13.76	13.62	12.93	13.33	14.80	12.76
BBMW-22S	5.0 - 10.0	NC	NC	13.26	13.34	12.01	13.99	14.52	14.35	13.51	13.92	15.54	13.34
BBMW-22I	30.0 - 40.0	NC	NC	13.26	13.34	12.02	14.01	14.52	14.36	13.42	13.94	15.52	13.33
BBMW-22D	64.0 - 74.0	NC	NC	13.26	13.34	12.01	14.01	14.55	14.37	13.61	13.98	15.52	13.37
BBMW-26S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-26I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-27S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-27I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I2	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-03S	3.0 -13.0	13.81	14.02	13.72	14.51	12.45	14.60	15.10	15.11	14.07	14.49	16.23	13.87
MW-03D	35.0 - 45.0	13.77	14.01	13.72	14.48	12.44	14.59	15.09	15.08	14.06	14.49	16.22	13.87
MW-05S	4.0 - 14.0	17.61	13.75	13.45	13.50	12.16	14.19	14.72	14.55	13.69	14.15	15.83	13.54
MW-05D	35.5 - 45.5	18.51	14.71	14.41	14.51	13.16	15.21	15.73	15.52	14.70	15.15	15.81	13.55
MW-09S	4.0 - 14.0	15.24	15.34	NC	15.08	13.55	15.67	16.50	16.55	15.54	15.88	17.44	15.26
MW-09I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-09I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-09D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04	Aug-04
OZMW-16D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17D	53.0 - 63.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19D	53.0 - 63.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22RS	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22RI	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07
BBMW-05D	64.0 - 74.0	13.99	14.66	14.55	13.32	15.08	14.95	14.46	14.19	14.63	14.51	14.91	14.23
BBMW-05D2	126.5 - 136.5	15.10	15.66	15.62	13.64	16.27	16.22	15.38	14.51	15.61	15.81	16.19	14.44
BBMW-05D2R	127.0 - 137.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-13D	62.0 -72.0	14.37	15.04	14.86	13.71	15.45	15.33	14.83	14.54	14.99	14.93	15.32	14.55
BBMW-20S	4.0 - 14.0	13.00	13.66	13.54	12.35	14.08	13.93	13.45	13.17	13.64	13.55	NC	NC
BBMW-20I	35.0 - 45.0	12.92	12.68	13.46	12.63	14.34	14.20	13.73	13.42	13.90	13.79	NC	NC
BBMW-20D	62.0 - 72.0	13.20	13.83	NC	13.00	14.70	14.55	14.10	13.78	14.28	14.20	NC	NC
BBMW-22S	5.0 - 10.0	13.79	14.44	14.34	13.13	14.93	14.75	14.26	13.97	14.43	14.34	14.73	14.08
BBMW-22I	30.0 - 40.0	13.78	14.43	14.33	13.12	14.88	14.74	14.26	13.97	14.43	14.34	14.72	14.08
BBMW-22D	64.0 - 74.0	13.83	14.42	14.36	13.16	14.96	14.76	14.27	13.98	14.49	14.41	14.46	13.70
BBMW-26S	6.0 - 16.0	NC	16.11	16.09	14.74	16.60	16.49	15.98	15.72	16.11	16.07	16.46	15.67
BBMW-26I	30.0 - 40.0	NC	16.12	16.10	14.79	16.62	16.50	15.98	15.72	16.10	16.08	16.46	15.63
BBMW-27S	5.0 - 15.0	NC	16.10	16.08	14.73	16.59	16.47	15.98	NC	16.04	16.02	16.42	15.67
BBMW-27I	30.0 - 40.0	NC	16.14	16.11	14.78	16.62	16.50	16.00	NC	16.07	16.05	16.44	15.70
BBMW-34S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I2	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-03S	3.0 -13.0	14.33	15.01	14.88	13.64	15.42	15.30	14.80	14.51	14.98	14.88	15.29	14.52
MW-03D	35.0 - 45.0	14.33	15.00	14.89	13.65	15.41	15.27	14.80	14.50	14.94	14.89	15.28	14.51
MW-05S	4.0 - 14.0	13.99	14.66	14.54	13.32	14.06	14.96	14.46	14.17	14.63	14.53	14.93	14.23
MW-05D	35.5 - 45.5	14.00	14.66	14.55	13.32	15.08	14.95	14.45	14.18	14.65	14.56	14.95	14.24
MW-09S	4.0 - 14.0	15.74	16.41	16.40	15.03	16.89	16.79	16.29	NC	16.34	16.33	16.75	15.96
MW-09I	30.0 - 40.0	NC	16.37	16.37	15.02	16.85	16.77	16.28	NC	16.34	16.32	16.72	15.94
MW-09I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-09D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07
OZMW-16D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17D	53.0 - 63.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19D	53.0 - 63.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22RS	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22RI	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Oct/Nov-07	Jan-08	Apr-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10
BBMW-05D	64.0 - 74.0	13.41	14.27	15.01	14.01	14.54	14.60	14.91	14.82	13.69	14.70	16.40	13.63
BBMW-05D2	126.5 - 136.5	14.18	15.07	15.81	14.01	15.33	15.66	14.75	15.61	NC	NC	NC	NC
BBMW-05D2R	127.0 - 137.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-13D	62.0 -72.0	13.66	14.63	15.25	14.09	14.76	14.86	15.12	15.01	14.14	15.24	16.52	14.17
BBMW-20S	4.0 - 14.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-20I	35.0 - 45.0	NC	13.91	NC	NC	14.21	NC	NC	NC	NC	NC	14.42	11.72
BBMW-20D	62.0 - 72.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-22S	5.0 - 10.0	13.26	13.86	14.63	13.80	14.41	14.46	14.72	14.68	11.07	14.78	16.50	13.75
BBMW-22I	30.0 - 40.0	13.27	14.11	14.82	13.80	14.40	14.45	14.75	14.69	7.82	11.46	13.17	10.42
BBMW-22D	64.0 - 74.0	12.89	14.10	14.82	13.68	14.31	14.42	14.75	14.66	10.92	14.78	16.43	13.71
BBMW-26S	6.0 - 16.0	14.74	15.63	16.38	15.19	15.82	16.04	16.22	16.14	15.27	16.34	17.85	15.34
BBMW-26I	30.0 - 40.0	14.76	15.64	16.37	15.19	15.82	16.09	16.24	16.16	15.27	16.36	17.84	15.34
BBMW-27S	5.0 - 15.0	14.76	15.66	16.38	15.21	15.81	16.02	16.22	16.14	15.29	16.30	17.76	15.34
BBMW-27I	30.0 - 40.0	14.80	15.65	16.33	15.24	15.84	16.04	16.21	16.16	15.30	16.33	17.79	15.34
BBMW-34S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.27	15.33	16.65	14.21
BBMW-34I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.17	15.22	16.79	14.13
BBMW-34I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	14.16	15.22	16.61	14.15
BBMW-34D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.16	15.21	16.79	14.15
BBMW-35S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I2	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.70	15.83	17.32	14.70
BBMW-38I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.63	15.69	17.22	14.64
BBMW-38I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	14.63	15.68	17.25	14.63
BBMW-38D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.63	15.71	17.22	14.66
BBMW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.03	15.04	16.58	14.00
BBMW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.03	15.03	16.58	14.00
BBMW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	14.02	15.01	16.54	13.98
BBMW-39D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.02	15.03	16.55	14.00
BBMW-40S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.54	15.66	17.15	14.53
BBMW-40I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.55	15.58	17.08	14.55
BBMW-40I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	14.52	15.54	17.07	14.52
BBMW-40D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	14.55	15.57	17.08	14.55
BBMW-41S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	14.29	15.36	16.68	14.29
BBMW-41I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.32	15.38	16.82	14.32
BBMW-41I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	14.28	15.36	16.93	14.27
BBMW-41D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.28	15.35	16.89	14.27
MW-03S	3.0 -13.0	13.64	14.60	15.21	14.05	14.72	14.83	15.10	15.00	14.11	15.21	16.48	14.14
MW-03D	35.0 - 45.0	13.62	14.60	15.21	14.05	14.72	14.81	15.10	14.98	14.11	15.21	16.46	14.13
MW-05S	4.0 - 14.0	13.40	14.24	15.01	13.99	9.51	14.58	14.92	14.82	13.96	14.98	16.74	13.89
MW-05D	35.5 - 45.5	13.42	14.26	14.98	14.00	9.82	14.60	14.91	14.82	14.29	15.29	17.02	14.26
MW-09S	4.0 - 14.0	14.99	15.85	16.63	15.45	16.09	16.35	16.49	16.41	15.52	16.62	18.00	15.59
MW-09I	30.0 - 40.0	15.02	15.90	16.64	15.44	16.07	16.35	16.50	16.45	15.54	16.62	18.02	15.60
MW-09I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	15.47	16.56	17.96	15.54
MW-09D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	15.45	16.55	17.94	15.53
OZMW-16S	5.0 - 15.0	NC	NC	NC	13.06	13.76	13.75	14.05	13.99	NC	NC	NC	NC
OZMW-16I	20.0 - 30.0	NC	NC	NC	13.07	13.76	13.74	14.06	14.01	NC	NC	NC	NC
OZMW-16I2	35.0 - 45.0	NC	NC	NC	13.11	13.77	13.75	14.05	14.02	NC	NC	NC	NC

Table 3-2
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Oct/Nov-07	Jan-08	Apr-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10
OZMW-16D	55.0 - 65.0	NC	NC	NC	13.05	13.81	13.77	14.05	14.02	NC	NC	NC	NC
OZMW-17S	5.0 - 15.0	NC	NC	NC	13.10	13.84	13.67	14.10	14.03	13.19	14.23	15.92	13.19
OZMW-17I	20.0 - 30.0	NC	NC	NC	13.07	13.83	13.75	14.11	14.02	13.18	14.23	15.94	13.19
OZMW-17I2	35.0 - 45.0	NC	NC	NC	13.05	13.79	13.73	14.05	13.99	13.14	14.2	15.91	13.13
OZMW-17D	53.0 - 63.0	NC	NC	NC	13.02	13.80	13.74	14.09	13.99	13.16	14.21	15.86	13.12
OZMW-18S	5.0 - 15.0	NC	NC	NC	12.72	13.76	13.66	14.01	13.95	NC	NC	NC	NC
OZMW-18I	20.0 - 30.0	NC	NC	NC	13.38	14.14	14.04	14.36	14.30	NC	NC	NC	NC
OZMW-18I2	35.0 - 45.0	NC	NC	NC	13.49	14.23	14.14	14.44	14.38	NC	NC	NC	NC
OZMW-18D	55.0 - 65.0	NC	NC	NC	12.98	13.76	13.65	13.98	13.92	NC	NC	NC	NC
OZMW-19S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	16.52	13.99
OZMW-19I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	16.37	13.66
OZMW-19I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	16.31	13.62
OZMW-19D	53.0 - 63.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	16.38	13.67
OZMW-21S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22S	5.0 - 15.0	NC	NC	NC	13.44	14.15	14.13	14.39	14.38	13.52	NC	NC	NC
OZMW-22I	20.0 - 30.0	NC	NC	NC	13.48	14.16	14.14	14.42	14.39	13.51	NC	NC	NC
OZMW-22I2	35.0 - 45.0	NC	NC	NC	13.46	14.15	14.12	14.39	14.36	13.50	NC	NC	NC
OZMW-22D	55.0 - 65.0	NC	NC	NC	13.42	14.12	14.09	14.38	14.32	13.46	NC	NC	NC
OZMW-22RS	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22RI	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	13.86	14.87	16.66	13.82
OZMW-25I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	13.87	14.85	16.63	13.81
OZMW-25I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	13.88	14.89	16.64	13.81
OZMW-25D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	13.88	14.89	16.63	13.85
OZMW-26S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	13.86	14.87	16.66	13.82
OZMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)								
		Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Minimum	Average	Maximum
BBMW-05D	64.0 - 74.0	13.27	13.95	13.97	13.85	14.43	14.11	12.15	14.26	16.40
BBMW-05D2	126.5 - 136.5	NC	NC	NC	NC	NC	NC	12.30	15.02	16.27
BBMW-05D2R	127.0 - 137.0	14.26	14.85	14.77	14.40	15.13	15.30	14.26	14.79	15.30
BBMW-13D	62.0 -72.0	13.73	14.46	14.46	14.37	14.20	14.67	12.48	14.63	16.52
BBMW-20S	4.0 - 14.0	NC	NC	NC	NC	NC	NC	11.28	13.25	14.59
BBMW-20I	35.0 - 45.0	13.17	13.93	13.98	11.21	11.23	14.07	11.21	13.23	14.51
BBMW-20D	62.0 - 72.0	NC	NC	NC	NC	NC	NC	11.32	13.56	14.80
BBMW-22S	5.0 - 10.0	13.37	14.04	14.37	13.99	14.17	14.23	11.07	14.08	16.50
BBMW-22I	30.0 - 40.0	10.04	10.73	11.06	10.67	11.18	11.32	7.82	13.27	15.52
BBMW-22D	64.0 - 74.0	13.18	13.01	12.97	13.80	14.35	14.46	10.92	14.00	16.43
BBMW-26S	6.0 - 16.0	14.76	15.43	15.93	15.49	15.73	15.73	14.74	15.86	17.85
BBMW-26I	30.0 - 40.0	14.77	15.51	15.93	15.50	15.74	15.73	14.76	15.87	17.84
BBMW-27S	5.0 - 15.0	14.77	15.45	15.91	15.19	15.72	15.70	14.73	15.85	17.76
BBMW-27I	30.0 - 40.0	14.78	15.48	15.94	15.50	15.75	15.70	14.78	15.88	17.79
BBMW-34S	5.0 - 15.0	13.77	14.53	14.85	14.46	14.33	14.69	13.77	14.71	16.65
BBMW-34I	25.0 - 30.0	13.75	14.44	14.76	14.37	14.99	14.93	13.75	14.76	16.79
BBMW-34I2	40.0 - 45.0	13.51	14.44	14.85	14.36	14.35	14.61	13.51	14.63	16.61
BBMW-34D	65.0 - 70.0	13.70	14.45	14.74	14.37	14.32	14.58	13.70	14.65	16.79
BBMW-35S	5.0 - 15.0	NC	NC	13.98	13.54	13.79	13.80	13.54	13.78	13.98
BBMW-35I	25.0 - 30.0	NC	NC	13.97	13.60	13.90	13.82	13.60	13.82	13.97
BBMW-35I2	40.0 - 50.0	NC	NC	13.86	13.56	13.79	13.82	13.56	13.76	13.86
BBMW-35D	63.0 - 68.0	NC	NC	13.80	13.56	13.81	13.78	13.56	13.74	13.81
BBMW-38S	5.0 - 15.0	14.15	14.98	15.68	14.94	18.72	15.19	14.15	15.62	18.72
BBMW-38I	25.0 - 30.0	14.13	14.87	15.16	14.85	18.70	15.17	14.13	15.51	18.70
BBMW-38I2	40.0 - 45.0	14.14	14.87	15.19	14.84	18.60	15.09	14.14	15.49	18.60
BBMW-38D	65.0 - 70.0	14.13	14.87	15.18	14.83	18.78	15.08	14.13	15.51	18.78
BBMW-39S	5.0 - 15.0	13.57	14.27	14.60	14.21	14.49	14.40	13.57	14.52	16.58
BBMW-39I	25.0 - 30.0	13.57	14.27	14.61	14.21	14.44	14.41	13.57	14.52	16.58
BBMW-39I2	45.0 - 50.0	13.55	14.24	14.58	14.17	14.51	14.37	13.55	14.50	16.54
BBMW-39D	65.0 - 70.0	13.57	14.26	14.58	14.71	14.42	14.40	13.57	14.55	16.55
BBMW-40S	5.0 - 15.0	14.06	14.74	15.25	14.72	14.97	14.91	14.06	15.05	17.15
BBMW-40I	25.0 - 30.0	14.05	14.77	15.14	14.74	15.06	14.96	14.05	15.05	17.08
BBMW-40I2	45.0 - 50.0	14.02	14.73	15.09	14.71	14.96	14.96	14.02	15.01	17.07
BBMW-40D	70.0 - 75.0	14.05	14.75	15.12	14.73	15.04	14.91	14.05	15.04	17.08
BBMW-41S	6.0 - 16.0	13.81	14.57	14.76	14.51	14.68	14.74	13.81	14.77	16.68
BBMW-41I	25.0 - 30.0	13.84	14.57	14.95	14.55	14.84	14.77	13.84	14.84	16.82
BBMW-41I2	45.0 - 50.0	13.83	14.58	15.10	14.50	14.97	14.75	13.83	14.86	16.93
BBMW-41D	65.0 - 70.0	13.82	14.55	14.85	14.49	14.81	14.73	13.82	14.80	16.89
MW-03S	3.0 -13.0	13.69	14.43	14.38	14.34	13.59	14.62	12.45	14.56	16.48
MW-03D	35.0 - 45.0	13.67	14.43	14.30	14.34	13.33	14.64	12.44	14.55	16.46
MW-05S	4.0 - 14.0	13.53	14.25	14.25	14.16	14.44	14.41	9.51	14.25	17.61
MW-05D	35.5 - 45.5	13.88	14.60	14.54	14.49	14.75	14.51	9.82	14.60	18.51
MW-09S	4.0 - 14.0	14.99	15.72	16.19	15.77	16.00	16.00	13.55	15.99	18.00
MW-09I	30.0 - 40.0	15.00	15.72	16.20	15.76	16.01	16.01	15.00	16.14	18.02
MW-09I2	45.0 - 50.0	14.93	15.66	16.13	15.70	15.94	15.92	14.93	15.98	17.96
MW-09D	65.0 - 70.0	14.92	15.64	16.11	15.68	15.93	15.91	14.92	15.97	17.94
OZMW-16S	5.0 - 15.0	12.86	13.49	13.48	13.43	13.74	13.63	12.86	13.57	14.05
OZMW-16I	20.0 - 30.0	12.91	13.50	13.48	13.46	13.80	13.61	12.91	13.58	14.06
OZMW-16I2	35.0 - 45.0	12.93	13.48	13.49	13.43	13.65	13.61	12.93	13.57	14.05

Table 3-2
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)								
		Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Minimum	Average	Maximum
OZMW-16D	55.0 - 65.0	12.84	13.49	13.53	13.57	14.07	13.64	12.84	13.62	14.07
OZMW-17S	5.0 - 15.0	12.86	13.53	13.51	13.23	13.29	13.67	12.86	13.69	15.92
OZMW-17I	20.0 - 30.0	12.85	13.51	13.51	12.80	13.71	13.64	12.80	13.69	15.94
OZMW-17I2	35.0 - 45.0	12.80	13.46	13.45	12.82	13.17	13.60	12.80	13.62	15.91
OZMW-17D	53.0 - 63.0	12.85	13.49	13.50	12.91	13.08	13.62	12.85	13.63	15.86
OZMW-18S	5.0 - 15.0	12.74	13.46	13.44	13.26	13.50	13.57	12.72	13.46	14.01
OZMW-18I	20.0 - 30.0	13.13	13.78	13.80	13.72	13.87	14.03	13.13	13.87	14.36
OZMW-18I2	35.0 - 45.0	13.23	13.88	13.90	13.70	13.83	14.07	13.23	13.94	14.44
OZMW-18D	55.0 - 65.0	12.78	13.41	13.42	13.31	13.34	13.57	12.78	13.47	13.98
OZMW-19S	5.0 - 15.0	13.64	14.37	14.65	14.24	14.50	14.44	13.64	14.54	16.52
OZMW-19I	20.0 - 30.0	13.31	14.02	14.31	13.94	13.78	14.14	13.31	14.19	16.37
OZMW-19I2	35.0 - 45.0	13.26	13.97	14.33	13.88	14.08	14.09	13.26	14.19	16.31
OZMW-19D	53.0 - 63.0	13.34	14.03	14.32	13.94	14.18	14.15	13.34	14.25	16.38
OZMW-21S	5.0 - 15.0	13.71	14.80	15.08	14.34	14.53	14.57	13.71	14.51	15.08
OZMW-21I	20.0 - 30.0	13.67	14.80	15.11	14.29	14.45	14.43	13.67	14.46	15.11
OZMW-21I2	35.0 - 45.0	13.60	14.37	15.13	14.24	14.45	14.56	13.60	14.39	15.13
OZMW-21D	55.0 - 65.0	13.69	14.30	15.04	14.31	14.56	14.47	13.69	14.40	15.04
OZMW-22S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	13.44	14.00	14.39
OZMW-22I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	13.48	14.02	14.42
OZMW-22I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	13.46	14.00	14.39
OZMW-22D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	13.42	13.97	14.38
OZMW-22RS	5.0 - 15.0	12.97	14.22	13.49	13.61	13.97	13.93	12.97	13.70	14.22
OZMW-22RI	20.0 - 30.0	12.94	13.68	13.56	13.56	13.82	13.85	12.94	13.57	13.85
OZMW-23S	5.0 - 15.0	13.05	13.78	13.79	13.63	13.86	13.87	13.05	13.66	13.87
OZMW-23I	20.0 - 25.0	13.03	13.82	13.83	13.66	13.38	13.88	13.03	13.60	13.88
OZMW-23I2	35.0 - 40.0	12.91	13.76	13.77	13.61	13.89	13.80	12.91	13.62	13.89
OZMW-23D	55.0 - 65.0	13.03	13.80	13.78	13.67	13.76	13.86	13.03	13.65	13.86
OZMW-24S	5.0 - 15.0	10.36	11.04	11.01	10.95	11.07	11.17	10.36	10.93	11.17
OZMW-24I	20.0 - 25.0	13.00	13.71	13.72	13.60	13.76	13.83	13.00	13.60	13.83
OZMW-24I2	35.0 - 40.0	13.02	13.70	13.67	13.61	13.71	13.82	13.02	13.59	13.82
OZMW-24D	55.0 - 65.0	13.04	13.72	13.75	13.71	13.80	13.88	13.04	13.65	13.88
OZMW-25S	5.0 - 15.0	13.45	14.15	14.41	14.06	14.31	14.33	13.45	14.39	16.66
OZMW-25I	20.0 - 30.0	13.42	14.15	14.27	14.05	14.15	14.29	13.42	14.35	16.63
OZMW-25I2	35.0 - 45.0	13.46	14.16	14.42	14.07	14.34	14.29	13.46	14.40	16.64
OZMW-25D	55.0 - 65.0	13.45	14.17	14.56	14.06	14.40	14.30	13.45	14.42	16.63
OZMW-26S	5.0 - 15.0	13.29	14.05	14.32	13.90	14.18	14.18	13.29	14.31	16.66
OZMW-26I	20.0 - 25.0	13.34	14.09	14.35	13.95	14.22	14.20	13.34	14.03	14.35
OZMW-26I2	35.0 - 40.0	13.32	14.09	14.37	13.95	14.22	14.17	13.32	14.02	14.37
OZMW-26D	55.0 - 65.0	13.33	14.09	14.27	13.92	14.17	14.18	13.33	13.99	14.27

Notes:
NC - Not Calculated
bgs - below ground surface
Well Elevations obtained from 2007 survey or later and reference NAVD88 datum.

Table 3-3
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-01S	1/3/2012	10:20	2.00	19.65	6.30	13.35	
BBMW-01I	1/3/2012	10:24	2.00	19.23	6.41	12.82	
BBMW-01D	1/3/2012	10:26	2.00	19.20	6.17	13.03	
BBMW-02S	1/3/2012	10:55	2.00	16.83	5.12	11.71	
BBMW-02I	1/3/2012	10:58	2.00	16.96	5.20	11.76	
BBMW-02D	1/3/2012	10:53	2.00	17.13	5.26	11.87	
BBMW-03S	1/3/2012	13:28	2.00	11.33	3.35	7.98	
BBMW-03I	1/3/2012	13:28	2.00	11.19	3.32	7.87	
BBMW-03D	1/3/2012	13:30	2.00	11.24	3.37	7.87	
BBMW-04D	1/4/2012	9:10	2.00	19.69	5.29	14.40	
BBMW-07S	1/3/2012	11:40	2.00	12.80	7.27	5.53	
BBMW-07I	1/3/2012	11:35	2.00	12.60	7.13	5.47	
BBMW-07D	1/3/2012	11:38	2.00	12.58	7.11	5.47	
BBMW-15S	1/3/2012	11:10	2.00	15.92	5.21	10.71	
BBMW-15I	1/3/2012	11:10	2.00	15.82	5.27	10.55	
BBMW-15I2	1/3/2012	11:08	2.00	15.79	5.32	10.47	
BBMW-15D	1/3/2012	11:06	2.00	15.63	5.30	10.33	
BBMW-16S	1/3/2012	14:12	2.00	19.04	6.09	12.95	
BBMW-16I	1/3/2012	14:10	2.00	19.43	6.17	13.26	
BBMW-16D	1/3/2012	14:12	2.00	18.97	6.08	12.89	
BBMW-23S	1/3/2012	14:20	1.00	19.13	5.99	13.14	
BBMW-23I	1/3/2012	14:24	1.00	19.16	6.10	13.06	
BBMW-23D	1/3/2012	14:26	1.00	19.17	6.07	13.10	
BBMW-23D2	1/3/2012	14:28	2.00	18.61	5.90	12.71	
BBMW-24S	1/3/2012	13:55	1.00	18.14	6.90	11.24	
BBMW-24I	1/3/2012	13:58	1.00	18.01	6.98	11.03	
BBMW-24D	1/3/2012	13:59	1.00	17.76	6.80	10.96	
BBMW-25S	1/3/2012	13:48	1.00	12.80	4.51	8.29	
BBMW-25I	1/3/2012	13:48	1.00	12.79	4.49	8.30	
BBMW-25D	1/3/2012	13:49	1.00	12.70	4.50	8.20	
GM-05S	1/3/2012	9:30	1.25	5.73	2.55	3.18	
GM-05I	1/3/2012	9:30	1.25	5.92	2.50	3.42	
GM-05D	1/3/2012	9:30	1.25	7.87	0.00	7.87	Artesian
GM-06S	1/4/2012	9:05	1.25	9.52	6.51	3.01	
GM-06I	1/4/2012	9:05	1.25	9.56	6.32	3.24	
GM-06D	1/4/2012	9:05	1.25	9.66	6.60	3.06	
GM-07S	1/4/2012	9:20	1.25	10.61	8.26	2.35	
GM-07I	1/4/2012	9:24	1.25	10.53	8.23	2.30	
GM-07D	1/4/2012	9:20	1.25	10.75	8.45	2.30	
GM-08S	1/4/2012	9:30	1.25	3.90	3.00	0.90	
GM-08I	1/4/2012	9:32	1.25	4.05	3.34	0.71	
GM-08D	1/4/2012	9:34	1.25	3.91	3.19	0.72	
GM-09S	1/3/2012	14:30	1.25	3.22	2.39	0.83	
GM-09I	1/3/2012	14:35	1.25	3.41	3.00	0.41	
GM-09D	1/3/2012	14:35	1.25	3.09	2.30	0.79	
GM-10AD	1/4/2012	9:10	2.00	8.07	6.60	1.47	
GMP-01	1/3/2012	9:33	0.75	6.58	2.94	3.64	
GMP-02	1/3/2012	9:32	0.75	6.28	3.33	2.95	
GMP-04	1/4/2012	9:42	0.75	3.74	2.38	1.36	
MW-16AS	1/4/2012	9:48	2.00	16.16	5.60	10.56	
OU2-IW01S	1/4/2012	9:50	2.00	5.95	5.00	0.95	
OU2MW-01WT	1/3/2012	13:40	1.00	12.86	4.51	8.35	
OU2MW-01S	1/3/2012	13:42	2.00	12.41	4.21	8.20	
OU2MW-01I	1/3/2012	13:44	2.00	12.47	4.18	8.29	
OU2MW-01I2	1/3/2012	13:42	2.00	12.28	4.00	8.28	
OU2MW-01D	1/3/2012	13:40	2.00	12.35	4.11	8.24	
OU2MW-02S	1/3/2012	13:35	2.00	11.58	3.30	8.28	
OU2MW-02I	1/3/2012	13:37	2.00	11.59	3.34	8.25	
OU2MW-02I2	1/3/2012	13:35	2.00	11.74	3.75	7.99	
OU2MW-02D	1/3/2012	13:33	2.00	11.53	3.27	8.26	
OU2MW-03S	1/3/2012	11:55	2.00	11.23	4.50	6.73	
OU2MW-03I	1/3/2012	11:56	2.00	11.15	4.36	6.79	
OU2MW-03I2	1/3/2012	11:56	2.00	11.15	4.46	6.69	

Table 3-3
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU2MW-03D	1/3/2012	11:58	2.00	11.14	4.42	6.72	
OU2MW-04WT	1/3/2012	11:45	1.00	10.34	3.90	6.44	
OU2MW-04S	1/3/2012	11:46	2.00	10.18	3.62	6.56	
OU2MW-04I	1/3/2012	11:47	2.00	10.10	3.60	6.50	
OU2MW-04I2	1/3/2012	11:48	2.00	10.05	3.32	6.73	
OU2MW-04D	1/3/2012	11:50	2.00	10.08	3.39	6.69	
OU2MW-05	1/4/2012	10:40	2.00	6.32	2.49	3.83	
OU2MW-06S	1/3/2012	9:02	2.00	4.83	2.35	2.48	
OU2MW-06	1/3/2012	9:00	2.00	4.43	2.30	2.13	
OU2MW-07S	1/3/2012	9:53	2.00	5.47	3.82	1.65	
OU2MW-07	1/3/2012	9:50	2.00	5.34	3.76	1.58	
OU2MW-08WT	1/3/2012	15:00	2.00	14.93	6.47	8.46	
OU2MW-08S	1/3/2012	15:02	2.00	14.77	6.30	8.47	
OU2MW-08I	1/3/2012	15:05	2.00	14.70	6.22	8.48	
OU2MW-08I2	1/3/2012	16:00	2.00	14.78	6.33	8.45	
OU2MW-08D	1/3/2012	15:07	2.00	14.87	5.53	9.34	
OU2MW-09	1/3/2012	13:27	2.00	11.26	3.39	7.87	
OU2MW-10S	1/3/2012	8:40	2.00	5.31	4.40	0.91	
OU2MW-10I	1/3/2012	8:41	2.00	5.42	4.42	1.00	
OU2MW-10D	1/3/2012	8:42	2.00	5.43	4.40	1.03	
OU2MW-11S	1/3/2012	10:15	2.00	6.69	3.22	3.47	
OU2MW-11I	1/3/2012	10:10	2.00	6.72	3.18	3.54	
OU2MW-11I2	1/3/2012	10:16	2.00	6.53	3.16	3.37	
OU2MW-11D	1/3/2012	10:14	2.00	6.65	3.20	3.45	
OU2MW-12S	1/3/2012	10:08	2.00	5.70	2.99	2.71	
OU2MW-12I	1/3/2012	10:08	2.00	5.73	3.05	2.68	
OU2MW-12I2	1/3/2012	10:06	2.00	5.81	3.05	2.76	
OU2MW-12D	1/3/2012	10:06	2.00	5.59	3.06	2.53	
OU2MW-13S	1/3/2012	10:00	2.00	4.78	3.31	1.47	
OU2MW-13I	1/3/2012	10:00	2.00	4.81	3.27	1.54	
OU2MW-13D	1/3/2012	10:00	2.00	4.94	3.30	1.64	
OU2MW-14S	1/4/2012	6:58	1.00	14.58	6.59	7.99	
OU2MW-14I	1/4/2012	6:57	1.00	14.75	6.41	8.34	
OU2MW-14I2	1/4/2012	6:58	1.00	14.77	6.23	8.54	
OU2MW-15S	1/3/2012	8:32	2.00	4.80	3.12	1.68	
OU2MW-15I	1/3/2012	8:32	2.00	5.09	3.07	2.02	
OU2MW-15I2	1/3/2012	8:32	2.00	5.13	3.13	2.00	
OU2MW-15D	1/3/2012	8:35	2.00	5.21	3.05	2.16	
OU2MW-16S	1/3/2012	8:50	2.00	5.44	3.10	2.34	
OU2MW-16I	1/3/2012	8:52	2.00	5.31	3.02	2.29	
OU2MW-16I2	1/3/2012	8:54	2.00	5.31	3.08	2.23	
OU2MW-16D	1/3/2012	8:55	2.00	5.61	2.10	3.51	
OU2MW-17S	1/3/2012	10:30	2.00	19.83	7.14	12.69	
OU2MW-17I	1/3/2012	10:32	2.00	19.91	7.08	12.83	
OU2MW-17I2	1/3/2012	10:32	2.00	19.86	7.10	12.76	
OU2MW-17D	1/3/2012	10:32	2.00	19.71	7.12	12.59	
OU2MW-18I	1/3/2012	10:48	2.00	19.98	7.09	12.89	
OU2MW-18I2	1/3/2012	10:49	2.00	19.97	7.22	12.75	
OU2MW-18D	1/3/2012	10:50	2.00	19.97	7.25	12.72	
OU2MW-39S	1/4/2012	10:30	1.00	21.22	9.01	12.21	
OU2MW-39I	1/4/2012	10:33	1.00	21.32	8.94	12.38	
OU2MW-39I2	1/4/2012	10:34	1.00	21.14	8.97	12.17	
OU2MW-39D	1/4/2012	10:35	1.00	21.18	9.05	12.13	
OU2MW-49S	1/3/2012	11:28	2.00	18.88	5.34	13.54	
OU2MW-49I	1/3/2012	11:28	2.00	19.09	5.30	13.79	
OU2MW-49I2	1/3/2012	11:29	2.00	18.58	5.36	13.22	
OU2MW-49D	1/3/2012	11:30	2.00	18.72	5.34	13.38	
OU2MW-50S	1/4/2012	10:20	1.00	20.97	7.49	13.48	
OU2MW-50I	1/4/2012	10:22	1.00	20.94	7.58	13.36	
OU2MW-50I2	1/4/2012	10:23	1.00	21.02	7.59	13.43	
OU2MW-50D	1/4/2012	10:24	1.00	21.09	7.54	13.55	
OU2MW-51S	1/4/2012	10:10	1.00	20.99	7.66	13.33	
OU2MW-51I	1/4/2012	10:12	1.00	20.93	7.53	13.40	

Table 3-3
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU2MW-51I2	1/4/2012	10:14	1.00	21.00	7.55	13.45	
OU2MW-51D	1/4/2012	10:14	1.00	21.03	7.61	13.42	
OU2MW-52S	1/3/2012	9:25	1.00	5.80	4.51	1.29	
OU2MW-52I	1/3/2012	9:20	1.00	5.64	4.56	1.08	
OU2MW-52D	1/3/2012	9:28	1.00	5.70	4.55	1.15	
OU2MW-53S	1/3/2012	9:40	1.00	4.98	4.34	0.64	
OU2MW-53I	1/3/2012	9:42	1.00	4.98	4.30	0.68	
OU2MW-53D	1/3/2012	9:42	1.00	5.08	4.38	0.70	
OU2MW-54S	1/3/2012	10:09	1.00	18.24	5.05	13.19	
OU2MW-54I	1/3/2012	10:09	2.00	18.14	5.10	13.04	
OU2MW-54I2	1/3/2012	10:10	2.00	18.06	4.99	13.07	
OU2MW-54D	1/3/2012	10:12	1.00	18.35	5.00	13.35	
OU2MW-57S	1/3/2012	11:22	2.00	19.21	5.60	13.61	
OU2MW-57I	1/3/2012	11:20	2.00	18.88	5.72	13.16	
OU2MW-57I2	1/4/2012	11:20	2.00	19.09	5.69	13.40	
OU2MW-58S	1/4/2012	10:18	1.00	20.80	7.09	13.71	
OU2MW-58I	1/4/2012	10:19	1.00	20.79	7.72	13.07	
OU2SW-01*	1/4/2012	9:40	NA	2.65	2.76	-0.11	Boat Basin - Water Surface Frozen
BBSW-06*	1/4/2012	9:45	NA	2.08	2.17	-0.09	Boat Basin - Water Surface Frozen
BBSW-07*	1/4/2012	9:50	NA	6.83	1.90	4.93	Weir

Notes:
1 - Well Elevations obtained from 2007 survey or later and reference NAVD88 datum
MSL - Mean Sea Level
NA - Not Applicable
* - Surface Water Gauging Station

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Dec-78	Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04
BBMW-01S	5.0 - 15.0	NC	NC	12.33	NC	12.49	NC	12.70	13.34	13.09	12.38	12.67	14.11
BBMW-01I	32.0 - 42.0	NC	NC	12.29	NC	12.47	NC	12.69	13.32	13.07	12.35	12.65	14.09
BBMW-01D	68.5 - 78.5	NC	NC	12.33	NC	12.47	NC	12.75	14.40	13.12	12.37	12.68	14.14
BBMW-02S	5.0 - 15.0	NC	NC	11.45	11.29	11.34	NC	11.85	12.35	12.08	11.42	NC	13.10
BBMW-02I	30.0 - 40.0	NC	NC	11.42	11.26	11.32	NC	11.83	12.33	12.07	11.41	NC	13.08
BBMW-02D	73.0 - 83.0	NC	NC	11.40	11.24	11.30	NC	11.81	NC	12.05	11.38	NC	13.08
BBMW-03S	3.0 - 13.0	NC	NC	7.61	7.51	7.54	NC	8.05	8.23	8.25	7.46	7.74	9.01
BBMW-03I	30.0 - 40.0	NC	NC	7.60	7.52	7.53	NC	8.03	8.24	8.24	7.48	7.73	8.97
BBMW-03D	52.0 - 62.0	NC	NC	7.62	7.52	7.58	NC	8.08	8.27	8.26	7.45	7.77	8.99
BBMW-04D	63.0 - 73.0	NC	NC	13.55	13.28	13.98	12.03	14.10	14.57	14.40	13.54	13.96	15.48
BBMW-07S	5.0 - 15.0	NC	NC	5.29	5.16	5.58	NC	5.90	6.05	5.92	5.45	NC	6.83
BBMW-07I	30.0 - 40.0	NC	NC	5.28	5.13	5.60	NC	5.92	6.06	5.91	5.44	NC	6.83
BBMW-07D	55.0 - 65.0	NC	NC	5.29	5.14	5.59	NC	5.92	NC	5.91	5.47	NC	6.82
BBMW-15S	5.0 - 15.0	NC	NC	10.21	10.06	10.10	NC	10.57	10.93	10.71	10.15	10.46	11.72
BBMW-15I	35.0 - 45.0	NC	NC	10.06	10.02	10.07	NC	10.49	10.91	10.69	10.09	10.45	11.71
BBMW-15I2	23.0 - 28.0	NC	NC	10.14	9.89	9.93	NC	10.37	10.84	10.63	10.10	10.39	11.66
BBMW-15D	70.0 -80.0	NC	NC	10.16	10.01	10.06	NC	10.49	10.87	10.67	10.10	10.40	11.76
BBMW-16S	5.0 - 15.0	NC	NC	9.40	NC	NC	NC	12.82	NC	10.07	9.53	9.67	10.79
BBMW-16I	35.0 - 45.0	NC	NC	9.43	NC	NC	NC	9.85	10.28	10.10	9.56	9.70	10.82
BBMW-16D	68.0 - 78.0	NC	NC	9.42	NC	NC	NC	9.88	10.32	10.12	9.58	9.73	10.86
BBMW-23S	5.0 - 15.0	NC	NC	NC	NC	12.58	NC	13.16	13.78	13.51	12.80	13.09	14.55
BBMW-23I	33.0 - 43.0	NC	NC	NC	NC	12.62	NC	13.15	13.78	13.50	12.79	13.08	14.55
BBMW-23D	49.5 - 59.5	NC	NC	NC	NC	12.54	NC	13.16	13.78	13.52	12.80	13.10	14.55
BBMW-23D2	63.0 - 73.0	NC	NC	NC	NC	12.80	NC	13.19	13.81	13.46	12.82	13.10	14.57
BBMW-24S	4.0 - 14.0	NC	NC	NC	NC	10.36	NC	10.83	11.36	11.17	10.49	10.74	12.15
BBMW-24I	32.0 - 42.0	NC	NC	NC	NC	10.35	NC	10.83	11.36	11.15	10.48	10.74	12.15
BBMW-24D	59.5 - 69.5	NC	NC	NC	NC	10.36	NC	10.82	11.36	11.15	10.49	10.75	12.16
BBMW-25S	4.0 - 14.0	NC	NC	NC	NC	7.33	NC	7.85	8.22	8.03	7.32	7.60	8.98
BBMW-25I	25.0 - 35.0	NC	NC	NC	NC	7.36	NC	7.87	8.25	8.04	7.35	7.63	8.99
BBMW-25D	62.0 - 72.0	NC	NC	NC	NC	7.35	NC	NC	8.22	7.98	7.28	7.56	8.92
GM-03S	6.78 - 21.78	8.95	9.13	9.34	NC	9.53	NC	9.68	10.00	10.02	9.39	9.59	10.83
GM-03I	30.03 - 45.03	8.88	8.95	9.18	NC	9.35	NC	9.51	9.84	9.83	9.22	9.42	10.67
GM-03D	53.18 - 68.18	9.07	9.16	9.27	NC	9.45	NC	9.63	9.93	9.94	9.32	9.53	10.77
GM-05S	5.1 - 20.1	2.12	2.48	2.49	2.52	3.21	NC	3.35	2.80	3.21	2.62	2.49	3.74
GM-05I	35.05 - 48.05	2.28	2.69	2.59	2.62	3.37	NC	3.50	2.99	3.36	2.72	2.64	3.90
GM-05D	60.95 - 75.95	7.35	9.04	7.87	NC	7.03	NC	7.42	7.51	7.50	6.83	7.18	NC
GM-06S	8.97 - 23.97	2.59	2.96	3.08	2.89	3.46	NC	3.77	3.72	3.70	3.33	2.90	4.58
GM-06I	35.40 - 40.40	2.60	2.97	3.08	2.93	3.57	NC	3.86	3.73	3.77	3.54	3.47	4.59
GM-06D	60.05 - 75.05	2.71	2.96	3.07	2.92	3.49	NC	3.79	3.73	3.72	3.35	2.91	4.58
GM-07S	9.75 - 24.75	1.40	2.17	2.15	2.01	2.49	NC	2.64	2.53	2.73	2.56	2.01	3.34
GM-07I	29.6 - 44.6	1.32	2.16	2.14	2.00	2.52	NC	2.85	2.52	2.75	2.57	2.06	3.35
GM-07D	50.3 - 65.3	1.52	2.17	2.14	NC	2.54	NC	2.67	2.58	3.76	2.58	2.04	3.36
GM-08S	6.35 - 21.35	0.37	0.64	0.54	0.61	1.34	NC	1.43	0.54	1.22	0.72	0.62	1.41
GM-08I	29.95 - 44.95	0.53	0.64	0.54	0.64	1.34	NC	1.45	0.56	1.22	0.71	0.63	1.11
GM-08D	48.25 - 63.25	0.26	0.67	0.55	0.62	1.38	NC	1.47	0.56	1.26	0.73	0.65	1.48
GM-09S	20.0 - 25.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	1.15
GM-09I	40.0 - 45.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	1.17
GM-09D	48.35 - 63.35	0.02	0.47	0.45	0.41	1.24	NC	0.80	0.45	0.69	0.93	0.31	1.16
GM-10AD	unknown	NC	NC	NC	1.12	1.86	NC	1.92	1.62	1.82	1.76	1.08	2.43
GMP-01	25.0 - 30.0	NC	NC	NC	2.97	3.65	NC	3.78	3.26	3.66	3.07	3.04	4.18
GMP-02	18.0 - 23.0	NC	NC	NC	2.25	2.95	NC	3.05	2.44	2.91	2.36	2.24	3.37
GMP-04	15.5 - 20.5	NC	NC	NC	0.96	1.46	NC	1.18	0.47	1.40	1.01	1.11	1.17
MW-16AS	3.0 - 13.0	NC	NC	10.45	10.30	10.36	NC	10.82	11.21	10.99	10.44	NC	12.00

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Dec-78	Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04
OU2-IW01S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-02S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-02I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-02I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-02D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-03S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-03I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-03I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-03D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-05	25.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-06S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-06	25.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-07S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-07	15.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-09	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-10S	3.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-10I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-10D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12S	3.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-14S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Dec-78	Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04
OU2MW-14I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-14I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16I2	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17S	5.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51D	61.0 - 66.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54D	60.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Aug-04	Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	July/Aug-06	Nov-06	Jan-07	May-07
BBMW-01S	5.0 - 15.0	12.10	12.51	13.16	13.03	11.91	13.41	13.36	12.95	12.64	14.10	13.03	13.36
BBMW-01I	32.0 - 42.0	12.08	12.49	13.14	13.01	11.89	13.49	13.34	12.94	12.63	13.09	13.01	13.34
BBMW-01D	68.5 - 78.5	12.11	12.51	13.16	13.07	11.92	13.50	13.36	12.96	12.64	13.10	13.02	13.38
BBMW-02S	5.0 - 15.0	11.16	11.52	NC	12.06	10.99	12.45	12.36	12.00	11.62	12.12	12.07	12.35
BBMW-02I	30.0 - 40.0	11.15	11.50	NC	12.03	10.96	12.43	12.32	11.95	11.59	12.08	12.02	12.35
BBMW-02D	73.0 - 83.0	11.12	11.48	NC	12.01	10.93	12.41	12.31	11.95	11.58	12.06	12.02	12.33
BBMW-03S	3.0 - 13.0	7.42	7.72	8.25	8.09	7.36	8.43	8.29	8.00	7.65	8.19	8.02	8.27
BBMW-03I	30.0 - 40.0	7.41	7.72	8.24	8.09	7.75	8.82	8.29	8.00	7.64	7.99	8.01	8.28
BBMW-03D	52.0 - 62.0	7.44	7.75	8.26	8.12	7.35	8.44	8.31	8.03	NC	8.14	8.05	8.32
BBMW-04D	63.0 - 73.0	13.38	13.84	14.51	14.39	13.18	14.96	14.67	14.31	14.01	14.48	14.39	NC
BBMW-07S	5.0 - 15.0	5.27	5.71	5.98	5.80	5.12	6.29	NC	5.75	5.52	5.89	5.63	NC
BBMW-07I	30.0 - 40.0	5.26	5.72	5.98	5.83	5.13	6.29	NC	5.76	5.53	5.91	5.63	NC
BBMW-07D	55.0 - 65.0	5.27	5.73	5.98	5.82	5.11	6.29	NC	5.77	5.51	5.94	5.64	NC
BBMW-15S	5.0 - 15.0	9.86	10.18	10.84	10.69	9.71	11.09	10.98	10.66	10.23	10.75	10.71	11.01
BBMW-15I	35.0 - 45.0	9.84	10.16	10.81	10.67	9.66	11.03	10.91	10.61	10.18	10.73	10.66	10.98
BBMW-15I2	23.0 - 28.0	9.81	10.16	10.80	10.60	9.66	11.05	10.93	10.62	10.21	10.73	10.67	10.98
BBMW-15D	70.0 -80.0	9.82	10.15	10.80	10.63	9.66	11.04	10.92	10.62	10.19	10.71	10.67	10.96
BBMW-16S	5.0 - 15.0	9.28	9.73	10.15	10.05	9.04	10.45	10.30	10.00	14.62	10.10	10.02	10.28
BBMW-16I	35.0 - 45.0	9.32	9.76	10.15	10.08	9.05	10.47	10.33	10.02	9.63	10.14	10.06	10.32
BBMW-16D	68.0 - 78.0	9.31	9.75	10.18	10.06	9.03	10.46	10.32	10.01	9.62	10.12	10.06	10.32
BBMW-23S	5.0 - 15.0	12.51	12.93	NC	13.46	12.32	14.00	13.78	13.37	13.06	13.52	13.48	13.76
BBMW-23I	33.0 - 43.0	12.50	12.93	NC	13.46	12.31	13.92	13.79	13.38	13.07	13.51	13.47	13.76
BBMW-23D	49.5 - 59.5	12.53	12.94	NC	13.47	12.32	13.95	13.79	13.39	13.08	13.53	13.49	13.81
BBMW-23D2	63.0 - 73.0	12.52	12.96	NC	13.47	12.32	13.93	13.78	13.38	13.07	13.52	13.48	13.76
BBMW-24S	4.0 - 14.0	10.23	10.61	11.20	11.09	10.04	11.53	11.39	11.02	10.67	11.09	11.06	11.41
BBMW-24I	32.0 - 42.0	10.22	10.60	11.20	11.09	10.02	11.51	11.37	10.99	10.66	11.07	11.04	11.43
BBMW-24D	59.5 - 69.5	10.24	10.61	11.19	11.09	10.03	11.52	11.38	11.03	10.67	11.10	11.07	11.43
BBMW-25S	4.0 - 14.0	7.23	7.62	8.13	8.01	7.64	8.99	8.84	8.49	NC	8.55	8.53	8.84
BBMW-25I	25.0 - 35.0	7.25	7.64	8.16	8.02	7.66	8.99	8.84	8.49	NC	8.55	8.55	8.86
BBMW-25D	62.0 - 72.0	7.18	7.55	8.08	7.97	NC	8.99	NC	8.49	NC	8.55	8.52	8.83
GM-03S	6.78 - 21.78	9.14	9.53	NC	9.96	8.94	10.42	10.26	9.90	9.53	9.97	9.92	10.18
GM-03I	30.03 - 45.03	8.97	9.36	NC	9.80	8.76	10.24	10.09	9.73	9.36	9.80	9.75	10.17
GM-03D	53.18 - 68.18	9.07	9.46	NC	9.95	8.86	10.34	10.19	9.83	9.47	9.90	9.86	10.19
GM-05S	5.1 - 20.1	2.68	3.36	3.31	2.91	2.65	3.34	3.01	3.00	2.85	3.06	2.82	3.08
GM-05I	35.05 - 48.05	2.81	3.49	3.42	3.03	2.76	3.49	3.15	3.13	2.97	3.18	2.96	3.21
GM-05D	60.95 - 75.95	8.97	7.58	7.72	7.50	6.56	7.87	7.81	8.23	8.72	7.61	7.59	7.76
GM-06S	8.97 - 23.97	3.14	3.69	3.73	3.52	3.06	4.10	3.69	3.50	3.48	3.79	3.29	3.73
GM-06I	35.40 - 40.40	3.16	3.70	3.74	3.57	3.08	4.10	3.70	3.52	3.48	3.80	3.30	3.75
GM-06D	60.05 - 75.05	3.15	3.70	3.74	3.54	3.07	4.11	3.70	3.52	3.48	3.79	3.30	3.74
GM-07S	9.75 - 24.75	2.34	3.01	2.80	2.58	2.36	3.04	2.63	2.64	2.60	2.88	2.42	2.71
GM-07I	29.6 - 44.6	2.32	3.00	2.79	2.63	2.34	3.03	2.62	2.64	2.59	2.87	2.41	2.69
GM-07D	50.3 - 65.3	2.33	3.02	2.81	2.63	2.34	3.44	2.62	2.65	2.61	2.87	2.43	2.70
GM-08S	6.35 - 21.35	1.08	1.74	1.46	0.83	0.89	1.35	0.95	1.04	1.01	1.06	0.79	0.96
GM-08I	29.95 - 44.95	1.09	1.76	1.46	0.86	0.91	1.35	0.96	1.04	1.02	1.06	0.79	0.97
GM-08D	48.25 - 63.25	1.14	1.77	1.48	0.88	0.93	1.39	0.96	1.03	1.02	1.06	0.79	0.96
GM-09S	20.0 - 25.0	0.66	1.41	1.17	0.74	0.65	0.94	0.62	0.79	0.81	0.88	0.58	0.75
GM-09I	40.0 - 45.0	0.67	1.43	1.17	0.74	0.65	0.95	0.63	0.80	0.83	0.89	0.60	0.76
GM-09D	48.35 - 63.35	0.67	1.41	1.17	0.75	0.65	0.96	0.64	0.79	0.82	0.89	0.59	0.76
GM-10AD	unknown	1.51	2.20	1.92	1.41	1.57	2.08	1.67	1.72	1.74	NC	1.43	1.76
GMP-01	25.0 - 30.0	3.15	3.78	3.73	3.35	3.08	3.77	3.47	3.44	3.28	3.47	3.33	3.50
GMP-02	18.0 - 23.0	2.40	3.15	3.04	2.58	2.41	3.03	2.69	2.70	2.57	2.73	2.59	2.74
GMP-04	15.5 - 20.5	0.93	2.11	1.72	1.02	1.37	1.73	1.19	1.23	1.42	1.09	1.51	1.06
MW-16AS	3.0 - 13.0	10.10	10.44	11.10	10.96	9.93	11.34	11.23	10.92	10.48	11.02	10.98	11.27

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Aug-04	Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	July/Aug-06	Nov-06	Jan-07	May-07
OU2-IW01S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01S	20.0 - 25.0	NC	NC	NC	NC	NC	8.79	8.62	8.30	NC	8.37	8.30	8.58
OU2MW-01I	35.0 - 40.0	NC	NC	NC	NC	NC	8.82	8.65	8.28	NC	9.96	8.32	8.61
OU2MW-01I2	50.0 - 55.0	NC	NC	NC	NC	NC	8.78	8.62	8.30	NC	8.36	8.40	8.59
OU2MW-01D	65.0 - 70.0	NC	NC	NC	NC	NC	10.24	10.16	9.79	NC	8.23	9.89	10.06
OU2MW-02S	20.0 - 25.0	NC	NC	NC	NC	NC	8.68	8.66	8.21	NC	8.31	8.31	8.51
OU2MW-02I	35.0 - 40.0	NC	NC	NC	NC	NC	8.68	8.52	8.22	NC	8.26	8.23	8.51
OU2MW-02I2	50.0 - 55.0	NC	NC	NC	NC	NC	8.67	8.51	8.21	NC	8.25	8.22	8.51
OU2MW-02D	65.0 - 70.0	NC	NC	NC	NC	NC	8.87	8.74	8.41	NC	8.47	8.42	8.68
OU2MW-03S	20.0 - 25.0	NC	NC	NC	NC	NC	7.23	7.01	6.73	NC	6.80	6.69	7.01
OU2MW-03I	35.0 - 40.0	NC	NC	NC	NC	NC	7.25	7.03	6.75	NC	6.84	6.71	7.03
OU2MW-03I2	50.0 - 55.0	NC	NC	NC	NC	NC	7.23	7.01	6.74	NC	6.79	6.69	7.02
OU2MW-03D	65.0 - 70.0	NC	NC	NC	NC	NC	8.99	8.95	8.63	NC	6.75	8.85	8.95
OU2MW-04WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04S	20.0 - 25.0	NC	NC	NC	NC	NC	6.97	6.73	6.49	6.19	6.60	6.41	6.75
OU2MW-04I	35.0 - 40.0	NC	NC	NC	NC	NC	6.97	6.73	6.49	6.19	6.61	6.45	6.76
OU2MW-04I2	50.0 - 55.0	NC	NC	NC	NC	NC	6.96	6.72	6.49	NC	6.57	6.43	6.74
OU2MW-04D	65.0 - 70.0	NC	NC	NC	NC	NC	6.99	6.75	6.51	NC	6.60	6.47	6.77
OU2MW-05	25.0 - 35.0	NC	NC	NC	NC	NC	4.44	4.16	4.09	3.93	4.16	3.97	4.21
OU2MW-06S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-06	25.0 - 35.0	NC	NC	NC	NC	NC	2.57	2.17	2.21	2.17	2.17	2.21	2.17
OU2MW-07S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-07	15.0 - 25.0	NC	NC	NC	NC	NC	2.37	1.98	2.00	2.03	1.90	2.08	1.89
OU2MW-08WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08S	20.0 - 25.0	NC	NC	NC	NC	NC	9.07	8.92	8.61	8.26	8.66	8.66	8.96
OU2MW-08I	35.0 - 40.0	NC	NC	NC	NC	NC	9.08	8.92	8.62	8.27	8.67	8.66	8.97
OU2MW-08I2	50.0 - 55.0	NC	NC	NC	NC	NC	9.12	8.95	8.66	8.30	8.71	8.70	8.99
OU2MW-08D	65.0 - 70.0	NC	NC	NC	NC	NC	9.89	9.79	9.45	9.01	9.55	9.52	9.83
OU2MW-09	20.0 - 30.0	NC	NC	NC	NC	NC	8.42	8.28	7.99	NC	8.04	8.02	8.27
OU2MW-10S	3.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-10I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-10D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12S	3.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-14S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Aug-04	Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	July/Aug-06	Nov-06	Jan-07	May-07
OU2MW-14I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-14I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16I2	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17S	5.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51D	61.0 - 66.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54D	60.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		July/Aug-07	Oct/Nov-07	Jan-08	Apr/May-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10
BBMW-01S	5.0 - 15.0	12.63	11.91	12.78	13.27	12.22	12.92	12.88	13.10	13.11	12.29	13.41	14.73
BBMW-01I	32.0 - 42.0	12.62	11.90	12.77	13.25	12.21	12.91	12.88	13.07	13.11	12.30	13.43	14.74
BBMW-01D	68.5 - 78.5	12.64	11.91	12.79	13.29	12.24	12.94	12.91	13.08	13.15	12.34	13.43	14.74
BBMW-02S	5.0 - 15.0	11.56	11.00	11.85	12.23	11.23	11.92	11.57	12.08	12.09	11.27	12.39	13.60
BBMW-02I	30.0 - 40.0	11.55	11.00	11.85	12.24	11.24	11.92	11.88	12.08	12.10	11.26	12.39	13.59
BBMW-02D	73.0 - 83.0	11.54	10.98	11.84	12.22	11.21	11.90	11.87	12.07	12.07	11.22	12.34	13.60
BBMW-03S	3.0 - 13.0	7.71	7.36	7.92	8.21	7.43	8.00	7.89	8.09	8.10	7.43	8.28	9.68
BBMW-03I	30.0 - 40.0	7.71	7.37	7.89	8.22	7.43	8.02	7.86	8.09	8.10	7.47	8.28	9.68
BBMW-03D	52.0 - 62.0	7.74	7.38	7.92	8.23	7.43	8.03	7.90	8.09	8.11	7.45	8.29	9.70
BBMW-04D	63.0 - 73.0	NC	13.28	14.20	14.78	10.72	14.37	14.39	14.59	14.57	13.15	14.74	16.04
BBMW-07S	5.0 - 15.0	NC	4.18	5.63	5.97	5.43	5.76	5.46	5.76	5.98	5.39	6.05	7.77
BBMW-07I	30.0 - 40.0	NC	5.16	5.57	5.96	5.43	5.77	5.46	5.86	5.96	5.38	6.03	7.76
BBMW-07D	55.0 - 65.0	NC	5.15	5.62	5.98	5.45	5.76	5.46	5.75	5.96	5.37	6.03	7.73
BBMW-15S	5.0 - 15.0	10.26	9.81	10.57	10.91	9.93	10.63	10.57	10.75	10.76	9.92	11.42	12.16
BBMW-15I	35.0 - 45.0	10.27	9.78	10.54	10.85	9.90	10.55	10.55	10.72	10.75	9.92	11.02	12.13
BBMW-15I2	23.0 - 28.0	10.19	9.77	10.60	10.87	9.90	10.60	10.49	10.68	10.70	9.86	10.99	12.09
BBMW-15D	70.0 -80.0	10.22	9.77	10.54	10.86	9.89	10.57	10.51	10.67	10.73	9.87	11.00	12.11
BBMW-16S	5.0 - 15.0	9.56	9.14	9.80	10.14	9.29	9.87	9.85	10.09	10.14	9.46	10.19	11.39
BBMW-16I	35.0 - 45.0	9.58	9.16	9.77	10.18	9.31	9.89	9.89	10.09	15.14	9.45	10.38	11.45
BBMW-16D	68.0 - 78.0	9.56	9.15	9.82	10.23	9.36	9.94	9.92	10.53	10.19	9.48	10.42	11.48
BBMW-23S	5.0 - 15.0	10.35	12.31	13.19	13.67	12.62	13.34	13.25	13.37	13.49	12.67	13.75	15.14
BBMW-23I	33.0 - 43.0	10.48	12.31	13.19	13.68	12.62	13.33	13.24	13.46	13.49	12.61	13.73	15.09
BBMW-23D	49.5 - 59.5	10.29	12.28	13.19	13.71	12.65	13.36	13.26	13.86	13.51	12.69	13.76	15.13
BBMW-23D2	63.0 - 73.0	10.31	12.31	13.16	13.68	12.62	13.36	13.27	13.16	13.48	12.66	13.80	15.13
BBMW-24S	4.0 - 14.0	9.41	10.12	10.86	11.32	10.37	11.27	11.16	11.10	11.43	10.50	11.71	12.89
BBMW-24I	32.0 - 42.0	9.44	10.11	10.82	11.30	10.36	11.09	10.97	11.21	11.24	10.40	11.46	12.70
BBMW-24D	59.5 - 69.5	9.44	10.13	10.88	11.31	10.35	11.04	10.90	11.26	11.15	10.31	11.46	12.63
BBMW-25S	4.0 - 14.0	NC	7.78	8.37	8.77	NC	8.43	8.30	8.60	NC	NC	8.75	10.40
BBMW-25I	25.0 - 35.0	NC	NC	NC	NC	NC	8.40	8.32	8.57	NC	NC	8.79	10.37
BBMW-25D	62.0 - 72.0	NC	7.76	8.46	8.75	NC	8.45	8.36	8.56	NC	NC	8.90	10.35
GM-03S	6.78 - 21.78	9.44	8.97	9.64	10.08	9.15	NC	NC	NC	NC	NC	NC	NC
GM-03I	30.03 - 45.03	9.43	8.98	9.64	10.06	9.13	NC	NC	NC	NC	NC	NC	NC
GM-03D	53.18 - 68.18	9.46	8.97	9.67	10.08	9.16	NC	NC	NC	NC	NC	NC	NC
GM-05S	5.1 - 20.1	2.94	2.59	2.98	3.20	2.88	2.89	2.64	3.04	3.12	2.80	3.03	4.57
GM-05I	35.05 - 48.05	3.08	2.71	3.22	3.39	3.02	3.08	2.83	3.17	3.33	3.06	3.27	4.82
GM-05D	60.95 - 75.95	6.96	6.83	7.54	NC	NC	7.66	7.66	7.66	7.87	7.10	7.87	7.87
GM-06S	8.97 - 23.97	3.44	3.07	3.39	3.71	3.35	3.58	3.14	3.64	3.77	3.31	3.82	5.56
GM-06I	35.40 - 40.40	3.45	3.08	3.39	3.72	3.36	3.60	3.16	3.65	3.75	3.31	3.85	5.57
GM-06D	60.05 - 75.05	3.45	3.08	3.38	3.70	3.37	3.59	3.17	3.67	3.75	3.32	3.82	5.57
GM-07S	9.75 - 24.75	2.62	2.30	2.54	2.73	2.57	2.57	2.20	2.70	2.86	2.46	2.81	4.41
GM-07I	29.6 - 44.6	2.60	2.30	2.50	2.72	2.56	2.56	2.20	2.68	2.83	2.42	2.79	4.39
GM-07D	50.3 - 65.3	2.61	2.31	2.55	2.72	2.57	2.57	2.20	2.70	2.83	2.38	2.77	4.36
GM-08S	6.35 - 21.35	1.02	0.72	1.08	1.13	0.99	0.79	0.57	1.21	1.48	1.02	1.16	2.81
GM-08I	29.95 - 44.95	1.02	0.73	1.04	1.13	1.00	0.79	0.58	1.22	1.16	1.04	1.17	2.81
GM-08D	48.25 - 63.25	1.02	0.62	1.09	1.13	1.00	0.79	0.58	1.21	1.20	0.86	1.20	2.80
GM-09S	20.0 - 25.0	0.95	0.72	0.96	0.89	0.92	0.68	0.34	1.08	0.90	0.78	0.76	1.63
GM-09I	40.0 - 45.0	0.96	0.73	0.92	0.90	0.92	0.70	0.34	1.07	0.90	0.88	0.74	1.73
GM-09D	48.35 - 63.35	0.96	0.72	0.95	0.90	0.93	0.70	0.36	1.07	0.91	0.78	0.77	1.73
GM-10AD	unknown	1.80	1.50	1.70	1.83	1.75	1.66	1.22	1.79	1.94	1.61	1.82	3.43
GMP-01	25.0 - 30.0	3.33	3.00	3.43	3.66	3.27	3.30	3.06	NC	3.57	3.17	3.48	5.4
GMP-02	18.0 - 23.0	2.55	2.30	2.72	2.89	2.58	2.55	2.31	2.74	2.83	2.77	2.79	4.76
GMP-04	15.5 - 20.5	1.63	1.41	1.28	1.00	1.65	1.09	0.70	1.39	1.29	1.01	1.50	2.80
MW-16AS	3.0 - 13.0	10.47	10.11	10.92	11.16	10.22	10.92	10.88	11.22	11.05	10.31	11.37	12.48

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		July/Aug-07	Oct/Nov-07	Jan-08	Apr/May-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10
OU2-IW01S	3.0 - 8.0	NC	2.50	2.91	2.97	2.77	2.74	2.57	2.97	2.99	2.68	2.99	4.97
OU2MW-01WT	3.0 - 8.0	NC	7.74	8.29	8.70	NC	8.42	8.30	8.53	NC	7.82	8.81	10.29
OU2MW-01S	20.0 - 25.0	NC	7.56	8.12	8.51	NC	8.28	8.15	8.36	NC	7.70	8.61	10.18
OU2MW-01I	35.0 - 40.0	NC	7.56	8.17	8.52	NC	8.28	8.19	8.43	NC	7.72	8.52	10.25
OU2MW-01I2	50.0 - 55.0	NC	7.55	8.14	8.47	NC	8.27	8.13	8.33	NC	7.66	8.58	9.16
OU2MW-01D	65.0 - 70.0	NC	8.95	9.58	9.98	NC	9.70	9.61	9.84	NC	9.15	10.14	11.74
OU2MW-02S	20.0 - 25.0	NC	7.50	8.07	8.43	NC	8.21	8.08	8.28	NC	7.63	8.53	9.99
OU2MW-02I	35.0 - 40.0	NC	7.52	8.10	8.42	NC	8.21	8.12	8.29	NC	7.63	8.52	10.03
OU2MW-02I2	50.0 - 55.0	NC	7.10	8.08	8.41	NC	8.21	8.08	8.26	NC	7.60	8.51	9.99
OU2MW-02D	65.0 - 70.0	NC	7.71	8.28	8.62	NC	8.42	8.30	8.47	NC	7.83	8.73	10.14
OU2MW-03S	20.0 - 25.0	NC	6.12	6.62	7.01	NC	6.67	6.62	6.84	NC	6.26	7.08	8.84
OU2MW-03I	35.0 - 40.0	NC	6.14	6.64	7.02	NC	6.72	6.59	6.80	NC	6.27	7.10	8.86
OU2MW-03I2	50.0 - 55.0	NC	6.12	6.62	7.01	NC	6.68	6.52	6.78	NC	6.25	6.74	8.32
OU2MW-03D	65.0 - 70.0	NC	7.91	8.28	8.84	NC	8.50	7.17	8.67	NC	8.04	8.83	10.63
OU2MW-04WT	3.0 - 8.0	NC	5.91	6.41	6.53	6.12	6.50	6.32	6.57	6.63	6.06	6.74	8.55
OU2MW-04S	20.0 - 25.0	6.25	5.93	6.40	6.71	6.12	6.50	6.27	5.60	6.60	6.06	6.77	8.37
OU2MW-04I	35.0 - 40.0	6.28	5.94	6.42	6.73	6.19	6.52	6.33	6.57	6.63	6.05	6.81	8.58
OU2MW-04I2	50.0 - 55.0	6.26	5.90	6.39	6.73	6.13	6.52	6.30	6.56	6.62	6.03	6.74	8.55
OU2MW-04D	65.0 - 70.0	6.28	6.06	6.41	6.74	6.14	6.52	6.25	6.56	6.63	6.02	6.78	8.56
OU2MW-05	25.0 - 35.0	3.97	3.54	4.01	4.29	3.92	4.05	3.80	-1.05	4.22	3.83	4.28	6.14
OU2MW-06S	3.0 - 8.0	NC	2.05	2.16	2.22	2.35	2.09	1.70	2.25	2.22	2.02	2.38	4.07
OU2MW-06	25.0 - 35.0	2.22	2.03	2.16	2.16	2.32	2.07	1.66	2.27	2.26	2.03	2.37	4.11
OU2MW-07S	3.0 - 8.0	NC	1.96	2.04	1.94	2.22	1.85	1.50	2.11	2.02	1.87	2.22	3.67
OU2MW-07	15.0 - 25.0	2.02	1.93	2.02	1.89	2.17	1.80	1.45	2.06	1.47	1.75	2.14	3.79
OU2MW-08WT	3.0 - 8.0	NC	7.87	8.51	8.87	8.04	8.63	8.52	8.74	8.72	8.03	8.98	10.26
OU2MW-08S	20.0 - 25.0	8.28	7.85	8.52	8.86	8.04	8.62	8.52	8.71	8.74	8.00	8.90	10.28
OU2MW-08I	35.0 - 40.0	8.29	7.87	8.56	8.86	8.02	8.61	8.49	8.71	8.74	8.00	8.97	10.24
OU2MW-08I2	50.0 - 55.0	8.32	7.89	8.52	9.58	8.06	8.64	8.52	8.72	8.74	8.53	8.99	10.27
OU2MW-08D	65.0 - 70.0	9.06	8.69	9.34	9.72	8.75	9.45	9.42	9.54	9.58	8.82	9.83	11.06
OU2MW-09	20.0 - 30.0	7.71	7.37	7.93	8.20	7.47	8.00	7.89	8.08	8.11	7.45	8.30	9.67
OU2MW-10S	3.0 - 7.0	NC	2.00	2.42	2.60	2.38	2.37	1.99	2.41	2.52	2.29	2.35	4.52
OU2MW-10I	20.0 - 25.0	NC	2.01	2.42	2.61	2.35	2.36	1.76	2.47	2.54	2.25	2.32	4.55
OU2MW-10D	35.0 - 40.0	NC	1.99	2.38	2.60	2.33	2.34	1.97	2.41	2.52	2.20	2.32	4.50
OU2MW-11S	3.0 - 8.0	NC	3.29	3.65	3.92	3.58	3.68	3.42	3.75	3.83	3.51	3.84	5.83
OU2MW-11I	20.0 - 25.0	NC	3.26	3.67	3.89	3.57	3.65	3.38	3.75	3.81	3.44	3.84	5.76
OU2MW-11I2	30.0 - 35.0	NC	3.24	3.68	3.86	3.55	3.62	3.25	3.71	3.76	3.46	3.81	5.75
OU2MW-11D	40.0 - 45.0	NC	3.23	3.63	3.85	3.54	3.61	3.35	3.72	3.77	3.55	3.80	5.70
OU2MW-12S	3.0 - 7.0	NC	2.64	3.05	3.24	3.01	2.88	2.63	3.23	3.12	2.74	3.03	5.02
OU2MW-12I	20.0 - 25.0	NC	2.70	3.08	3.34	3.05	3.00	2.69	3.19	3.29	2.87	3.29	5.18
OU2MW-12I2	30.0 - 35.0	NC	2.70	2.97	3.27	3.03	2.91	2.61	3.13	3.16	3.01	3.20	5.07
OU2MW-12D	40.0 - 45.0	NC	2.67	3.06	3.26	3.02	2.91	2.62	3.15	3.15	2.84	3.19	5.04
OU2MW-13S	3.0 - 8.0	NC	1.82	2.16	2.27	2.29	1.96	1.64	2.23	2.13	1.92	2.23	3.72
OU2MW-13I	20.0 - 25.0	NC	1.79	2.08	2.21	2.30	1.95	1.61	2.15	2.09	1.89	2.30	3.70
OU2MW-13D	35.0 - 40.0	NC	1.79	2.00	2.20	2.29	1.94	1.58	2.12	2.08	1.85	2.25	3.68
OU2MW-14S	3.0 - 8.0	NC	7.64	7.76	8.63	7.78	8.35	8.21	8.52	8.54	7.85	8.78	10.06

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		July/Aug-07	Oct/Nov-07	Jan-08	Apr/May-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10
OU2MW-14I	20.0 - 25.0	NC	NC	NC	NC	8.04	8.61	8.47	8.75	8.77	8.13	9.00	10.30
OU2MW-14I2	40.0 - 45.0	NC	NC	NC	NC	8.05	8.61	8.46	8.74	8.80	8.09	9.01	10.35
OU2MW-15S	3.0 - 8.0	NC	2.04	2.45	2.64	2.37	2.37	2.00	2.44	2.56	2.29	2.40	4.58
OU2MW-15I	20.0 - 25.0	NC	2.05	2.43	2.63	2.37	2.38	2.02	2.47	2.59	2.49	2.41	4.58
OU2MW-15I2	30.0 - 35.0	NC	2.06	2.41	2.65	2.37	2.39	2.00	2.40	2.59	2.26	2.43	4.56
OU2MW-15D	40.0 - 45.0	NC	2.06	2.46	2.66	2.37	2.39	2.02	2.45	2.60	2.30	2.40	4.53
OU2MW-16S	3.0 - 8.0	NC	2.14	2.59	2.83	2.55	2.55	2.11	2.66	2.69	2.41	2.58	4.73
OU2MW-16I	15.0 - 20.0	NC	2.12	2.56	2.75	2.48	2.47	2.16	2.58	2.67	2.35	2.49	4.63
OU2MW-16I2	25.0 - 30.0	NC	2.13	2.51	2.77	2.49	2.48	2.04	2.56	2.65	2.33	2.50	4.66
OU2MW-16D	35.0 - 40.0	NC	2.14	2.56	2.75	2.48	2.48	2.15	2.58	2.66	2.39	2.50	4.67
OU2MW-17S	5.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	12.78	11.47	12.52	13.88
OU2MW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	12.26	11.43	12.46	13.86
OU2MW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	15.26	11.48	12.46	13.86
OU2MW-39D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	12.27	11.45	12.45	13.85
OU2MW-49S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51D	61.0 - 66.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.17
OU2MW-52I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.36
OU2MW-52D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.35
OU2MW-53S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.12
OU2MW-53I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	2.31
OU2MW-53D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54D	60.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)									
		Jul-10	Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Minimum	Average	Maximum
BBMW-01S	5.0 - 15.0	12.27	12.47	12.65	13.00	12.78	12.88	13.35	11.91	12.91	14.73
BBMW-01I	32.0 - 42.0	12.27	11.58	12.63	13.02	12.55	12.88	12.82	11.58	12.83	14.74
BBMW-01D	68.5 - 78.5	12.29	11.99	12.70	13.00	12.58	12.91	13.03	11.91	12.90	14.74
BBMW-02S	5.0 - 15.0	11.22	11.05	11.74	12.03	11.57	11.77	11.71	10.99	11.83	13.60
BBMW-02I	30.0 - 40.0	11.21	11.05	11.73	12.06	11.63	11.83	11.76	10.96	11.83	13.59
BBMW-02D	73.0 - 83.0	11.21	11.03	11.72	11.98	11.68	11.81	11.87	10.93	11.80	13.60
BBMW-03S	3.0 - 13.0	7.39	7.50	7.88	8.03	7.62	8.26	7.98	7.36	7.95	9.68
BBMW-03I	30.0 - 40.0	7.39	7.52	7.89	8.04	7.40	8.08	7.87	7.37	7.95	9.68
BBMW-03D	52.0 - 62.0	7.39	7.51	7.89	8.04	7.36	8.00	7.87	7.35	7.95	9.70
BBMW-04D	63.0 - 73.0	13.67	13.25	14.00	14.35	14.12	14.16	14.40	10.72	14.05	16.04
BBMW-07S	5.0 - 15.0	5.28	5.49	5.58	5.72	5.62	5.82	5.53	4.18	5.71	7.77
BBMW-07I	30.0 - 40.0	5.28	5.47	5.56	5.70	5.45	5.64	5.47	5.13	5.73	7.76
BBMW-07D	55.0 - 65.0	5.29	5.52	5.55	5.69	5.60	5.74	5.47	5.11	5.72	7.73
BBMW-15S	5.0 - 15.0	9.87	9.82	10.44	10.67	10.38	10.63	10.71	9.71	10.55	12.16
BBMW-15I	35.0 - 45.0	9.84	9.83	10.44	10.67	10.32	10.52	10.55	9.66	10.50	12.13
BBMW-15I2	23.0 - 28.0	9.77	9.72	10.38	10.60	10.27	10.46	10.47	9.66	10.46	12.09
BBMW-15D	70.0 -80.0	9.82	9.78	10.63	10.62	10.22	10.49	10.33	9.66	10.48	12.11
BBMW-16S	5.0 - 15.0	9.33	9.28	9.70	9.94	9.55	9.95	12.95	9.04	10.16	14.62
BBMW-16I	35.0 - 45.0	9.34	9.30	9.73	9.97	9.65	9.96	13.26	9.05	10.12	15.14
BBMW-16D	68.0 - 78.0	9.38	9.34	9.78	10.49	9.68	10.01	12.89	9.03	10.02	12.89
BBMW-23S	5.0 - 15.0	12.63	12.35	13.03	13.09	13.10	13.19	13.14	10.35	13.17	15.14
BBMW-23I	33.0 - 43.0	12.60	12.30	13.01	12.99	13.07	13.14	13.06	10.48	13.16	15.09
BBMW-23D	49.5 - 59.5	12.63	12.38	13.05	13.05	13.20	13.19	13.10	10.29	13.19	15.13
BBMW-23D2	63.0 - 73.0	12.61	12.33	13.01	12.61	12.87	13.19	12.71	10.31	13.14	15.13
BBMW-24S	4.0 - 14.0	10.56	11.08	11.01	11.25	11.07	11.26	11.24	9.41	11.00	12.89
BBMW-24I	32.0 - 42.0	10.40	10.27	10.83	11.09	10.87	11.08	11.03	9.44	10.92	12.70
BBMW-24D	59.5 - 69.5	10.31	10.21	10.52	11.01	10.78	11.00	10.96	9.44	10.90	12.63
BBMW-25S	4.0 - 14.0	NC	7.89	8.29	8.50	8.14	8.46	8.29	7.23	8.29	10.40
BBMW-25I	25.0 - 35.0	NC	7.90	8.31	8.49	8.17	8.54	8.30	7.25	8.30	10.37
BBMW-25D	62.0 - 72.0	NC	7.85	8.30	8.52	8.19	8.52	8.20	7.18	8.30	10.35
GM-03S	6.78 - 21.78	NC	NC	NC	NC	NC	NC	NC	8.94	9.67	10.83
GM-03I	30.03 - 45.03	NC	NC	NC	NC	NC	NC	NC	8.76	9.54	10.67
GM-03D	53.18 - 68.18	NC	NC	NC	NC	NC	NC	NC	8.86	9.64	10.77
GM-05S	5.1 - 20.1	2.73	3.21	2.92	2.73	3.05	3.23	3.18	2.12	2.97	4.57
GM-05I	35.05 - 48.05	2.88	2.92	3.14	NC	3.10	3.44	3.42	2.28	3.13	4.82
GM-05D	60.95 - 75.95	7.05	7.36	5.53	7.37	7.16	7.87	7.87	5.53	7.55	9.04
GM-06S	8.97 - 23.97	3.24	3.51	3.39	3.45	3.51	3.69	3.01	2.59	3.51	5.56
GM-06I	35.40 - 40.40	3.25	3.46	3.40	3.46	3.48	3.69	3.24	2.60	3.54	5.57
GM-06D	60.05 - 75.05	3.24	3.43	3.41	3.45	3.54	3.69	3.06	2.71	3.52	5.57
GM-07S	9.75 - 24.75	2.49	2.80	2.56	2.41	2.54	2.92	2.35	1.40	2.59	4.41
GM-07I	29.6 - 44.6	2.47	2.98	2.54	2.38	2.59	2.89	2.30	1.32	2.59	4.39
GM-07D	50.3 - 65.3	2.48	2.81	2.57	2.40	2.62	3.01	2.30	1.52	2.65	4.36
GM-08S	6.35 - 21.35	0.94	1.54	1.01	0.69	1.19	1.48	0.90	0.37	1.06	2.81
GM-08I	29.95 - 44.95	0.74	1.39	1.03	NC	1.33	1.48	0.71	0.53	1.05	2.81
GM-08D	48.25 - 63.25	0.74	1.46	1.09	0.66	1.15	1.49	0.72	0.26	1.04	2.80
GM-09S	20.0 - 25.0	0.86	1.28	0.93	0.45	1.14	1.33	0.83	0.26	0.73	1.63
GM-09I	40.0 - 45.0	0.86	1.27	0.94	0.44	1.14	1.34	0.41	0.26	0.73	1.73
GM-09D	48.35 - 63.35	0.87	1.26	0.96	0.44	1.13	1.37	0.79	0.02	0.82	1.73
GM-10AD	unknown	1.65	2.01	NC	1.87	1.96	2.05	1.47	1.08	1.78	3.43
GMP-01	25.0 - 30.0	3.14	3.73	3.39	3.19	3.42	3.70	3.64	2.97	3.47	5.40
GMP-02	18.0 - 23.0	2.44	2.97	2.72	2.39	2.79	3.06	2.95	2.24	2.75	4.76
GMP-04	15.5 - 20.5	0.95	2.01	1.54	0.89	1.37	1.69	1.36	0.47	1.33	2.80
MW-16AS	3.0 - 13.0	10.16	10.10	10.70	10.99	10.81	10.84	10.56	9.93	10.81	12.48

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)									
		Jul-10	Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Minimum	Average	Maximum
OU2-IW01S	3.0 - 8.0	2.70	3.08	2.89	2.65	2.99	3.18	0.95	0.95	2.86	4.97
OU2MW-01WT	3.0 - 8.0	NC	7.84	8.35	8.56	NC	8.51	8.35	7.74	8.47	10.29
OU2MW-01S	20.0 - 25.0	NC	7.72	8.12	8.31	NC	8.31	8.20	7.56	8.35	10.18
OU2MW-01I	35.0 - 40.0	NC	7.77	8.17	8.36	NC	8.40	8.29	7.56	8.46	10.25
OU2MW-01I2	50.0 - 55.0	NC	7.72	8.13	8.28	NC	8.30	8.28	7.55	8.30	9.16
OU2MW-01D	65.0 - 70.0	NC	9.13	9.51	9.75	NC	9.67	8.24	8.23	9.67	11.74
OU2MW-02S	20.0 - 25.0	NC	7.68	NC	8.23	NC	8.19	8.28	7.50	8.30	9.99
OU2MW-02I	35.0 - 40.0	NC	7.67	NC	8.24	NC	8.20	8.25	7.52	8.30	10.03
OU2MW-02I2	50.0 - 55.0	NC	7.65	NC	8.21	NC	8.27	7.99	7.10	8.25	9.99
OU2MW-02D	65.0 - 70.0	NC	7.87	NC	8.45	NC	8.42	8.26	7.71	8.48	10.14
OU2MW-03S	20.0 - 25.0	NC	6.34	NC	6.73	6.63	6.81	6.73	6.12	6.84	8.84
OU2MW-03I	35.0 - 40.0	NC	6.34	NC	6.75	6.59	6.79	6.79	6.14	6.85	8.86
OU2MW-03I2	50.0 - 55.0	NC	6.34	NC	6.71	6.53	6.70	6.69	6.12	6.77	8.32
OU2MW-03D	65.0 - 70.0	NC	7.84	NC	8.56	NC	6.66	6.72	6.66	8.30	10.63
OU2MW-04WT	3.0 - 8.0	6.04	6.17	6.33	6.49	6.23	6.53	6.44	5.91	6.48	8.55
OU2MW-04S	20.0 - 25.0	6.00	6.15	6.39	6.48	6.33	6.64	6.56	5.60	6.47	8.37
OU2MW-04I	35.0 - 40.0	5.99	6.18	6.36	6.50	6.35	6.54	6.50	5.94	6.53	8.58
OU2MW-04I2	50.0 - 55.0	5.88	6.16	6.35	6.46	6.26	6.59	6.73	5.88	6.52	8.55
OU2MW-04D	65.0 - 70.0	5.99	6.17	6.38	6.48	6.19	6.50	6.69	5.99	6.54	8.56
OU2MW-05	25.0 - 35.0	3.83	4.10	4.00	3.92	4.05	4.30	3.83	-1.05	3.92	6.14
OU2MW-06S	3.0 - 8.0	1.96	2.69	2.54	1.88	1.28	2.57	2.48	1.28	2.27	4.07
OU2MW-06	25.0 - 35.0	1.93	2.65	2.49	1.85	0.81	2.54	2.13	0.81	2.22	4.11
OU2MW-07S	3.0 - 8.0	1.75	2.61	2.45	1.72	2.14	2.45	1.65	1.50	2.12	3.67
OU2MW-07	15.0 - 25.0	1.72	2.49	2.41	1.70	2.11	2.37	1.58	1.45	2.04	3.79
OU2MW-08WT	3.0 - 8.0	7.95	8.07	8.49	8.67	8.37	8.56	8.46	7.87	8.54	10.26
OU2MW-08S	20.0 - 25.0	7.97	8.06	8.48	8.67	8.44	8.59	8.47	7.85	8.58	10.28
OU2MW-08I	35.0 - 40.0	7.92	8.03	8.45	8.65	8.35	8.54	8.48	7.87	8.58	10.24
OU2MW-08I2	50.0 - 55.0	7.96	8.03	8.28	8.68	8.39	8.57	8.45	7.89	8.64	10.27
OU2MW-08D	65.0 - 70.0	8.69	8.82	9.27	8.49	8.31	9.41	9.34	8.31	9.33	11.06
OU2MW-09	20.0 - 30.0	7.35	7.51	6.96	8.01	7.63	8.00	7.87	6.96	7.94	9.67
OU2MW-10S	3.0 - 7.0	2.15	2.65	NC	2.11	2.41	2.65	0.91	0.91	2.40	4.52
OU2MW-10I	20.0 - 25.0	2.14	2.65	NC	2.11	2.51	2.75	1.00	1.00	2.40	4.55
OU2MW-10D	35.0 - 40.0	2.19	2.60	NC	2.08	2.41	2.65	1.03	1.03	2.38	4.50
OU2MW-11S	3.0 - 8.0	3.42	3.80	3.65	3.52	3.74	3.95	3.47	3.29	3.77	5.83
OU2MW-11I	20.0 - 25.0	3.33	3.85	3.63	3.52	3.79	4.03	3.54	3.26	3.76	5.76
OU2MW-11I2	30.0 - 35.0	3.38	3.75	3.61	3.46	3.58	3.91	3.37	3.24	3.71	5.75
OU2MW-11D	40.0 - 45.0	3.36	3.74	3.11	3.45	3.68	3.88	3.45	3.11	3.69	5.70
OU2MW-12S	3.0 - 7.0	2.79	3.32	3.02	2.75	3.12	3.31	2.71	2.63	3.09	5.02
OU2MW-12I	20.0 - 25.0	2.83	3.42	3.06	2.85	3.12	3.38	2.68	2.68	3.17	5.18
OU2MW-12I2	30.0 - 35.0	2.80	3.42	3.07	2.81	3.14	3.31	2.76	2.61	3.13	5.07
OU2MW-12D	40.0 - 45.0	2.80	3.41	3.08	2.81	3.13	3.30	2.53	2.53	3.11	5.04
OU2MW-13S	3.0 - 8.0	1.89	2.65	2.29	1.81	2.15	2.47	1.47	1.47	2.17	3.72
OU2MW-13I	20.0 - 25.0	1.83	2.71	2.37	1.81	2.10	2.44	1.54	1.54	2.16	3.70
OU2MW-13D	35.0 - 40.0	1.83	2.74	2.32	1.79	2.20	2.43	1.64	1.58	2.15	3.68
OU2MW-14S	3.0 - 8.0	7.81	7.80	8.11	8.33	8.11	8.31	7.99	7.64	8.25	10.06

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)									
		Jul-10	Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Minimum	Average	Maximum
OU2MW-14I	20.0 - 25.0	7.99	8.05	8.35	8.57	8.40	8.57	8.34	7.99	8.56	10.30
OU2MW-14I2	40.0 - 45.0	7.99	8.10	8.45	8.61	8.40	NC	8.54	7.99	8.59	10.35
OU2MW-15S	3.0 - 8.0	2.22	2.63	2.27	2.15	2.17	2.66	1.68	1.68	2.44	4.58
OU2MW-15I	20.0 - 25.0	2.24	2.60	2.30	2.66	2.47	2.59	2.02	2.02	2.52	4.58
OU2MW-15I2	30.0 - 35.0	2.23	2.58	2.16	2.05	2.48	2.60	2.00	2.00	2.46	4.56
OU2MW-15D	40.0 - 45.0	2.26	2.60	2.38	2.22	2.45	2.56	2.16	2.02	2.49	4.53
OU2MW-16S	3.0 - 8.0	2.34	2.80	NC	2.26	2.66	3.00	2.34	2.11	2.66	4.73
OU2MW-16I	15.0 - 20.0	2.26	2.75	NC	2.23	2.48	2.78	2.29	2.12	2.59	4.63
OU2MW-16I2	25.0 - 30.0	2.30	2.76	NC	2.21	2.34	2.55	2.23	2.04	2.56	4.66
OU2MW-16D	35.0 - 40.0	2.28	2.72	NC	2.21	2.56	2.79	3.51	2.14	2.67	4.67
OU2MW-17S	5.0 - 10.0	NC	12.05	12.70	13.56	13.00	12.90	12.69	12.05	12.82	13.56
OU2MW-17I	13.0 - 23.0	NC	12.07	12.71	13.50	12.92	12.97	12.83	12.07	12.83	13.50
OU2MW-17I2	35.0 - 45.0	NC	12.05	12.66	13.47	12.92	12.99	12.76	12.05	12.81	13.47
OU2MW-17D	60.0 - 70.0	NC	12.05	12.66	13.35	12.83	12.89	12.59	12.05	12.73	13.35
OU2MW-18I	13.0 - 23.0	NC	12.04	12.63	13.83	12.73	12.86	12.89	12.04	12.83	13.83
OU2MW-18I2	35.0 - 45.0	NC	11.99	12.60	13.79	12.74	12.86	12.75	11.99	12.79	13.79
OU2MW-18D	60.0 - 70.0	NC	12.02	12.63	13.87	12.58	12.88	12.72	12.02	12.78	13.87
OU2MW-39S	5.0 - 15.0	11.43	11.22	11.83	12.15	11.76	12.21	12.21	11.22	12.13	13.88
OU2MW-39I	25.0 - 30.0	11.44	11.20	11.82	12.13	11.88	12.27	12.38	11.20	12.10	13.86
OU2MW-39I2	45.0 - 50.0	11.42	11.19	11.83	12.14	11.66	12.07	12.17	11.19	12.32	15.26
OU2MW-39D	70.0 - 75.0	11.43	11.19	11.84	12.13	11.23	12.08	12.13	11.19	12.00	13.85
OU2MW-49S	3.0 - 13.0	NC	12.51	13.23	13.58	13.14	13.53	13.54	12.51	13.26	13.58
OU2MW-49I	25.0 - 30.0	NC	12.91	13.65	13.99	13.54	13.78	13.79	12.91	13.61	13.99
OU2MW-49I2	45.0 - 50.0	NC	12.50	13.26	13.58	12.97	13.39	13.22	12.50	13.15	13.58
OU2MW-49D	63.0 - 68.0	NC	12.49	12.80	13.57	13.00	13.22	13.38	12.49	13.08	13.57
OU2MW-50S	5.0 - 15.0	NC	NC	NC	13.54	13.24	13.55	13.48	13.24	13.45	13.55
OU2MW-50I	25.0 - 30.0	NC	NC	NC	13.44	13.14	13.52	13.36	13.14	13.37	13.52
OU2MW-50I2	45.0 - 50.0	NC	NC	NC	13.53	13.23	13.51	13.43	13.23	13.43	13.53
OU2MW-50D	65.0 - 70.0	NC	NC	NC	13.57	13.25	13.54	13.55	13.25	13.48	13.57
OU2MW-51S	5.0 - 15.0	NC	NC	NC	13.32	13.29	13.46	13.33	13.29	13.35	13.46
OU2MW-51I	25.0 - 30.0	NC	NC	NC	13.28	13.20	13.47	13.40	13.20	13.34	13.47
OU2MW-51I2	45.0 - 50.0	NC	NC	NC	13.40	13.25	13.52	13.45	13.25	13.41	13.52
OU2MW-51D	61.0 - 66.0	NC	NC	NC	13.38	13.27	13.46	13.42	13.27	13.38	13.46
OU2MW-52S	3.0 - 8.0	1.47	2.23	2.33	1.35	2.00	2.11	1.29	1.29	1.99	3.17
OU2MW-52I	20.0 - 25.0	1.46	2.19	2.09	1.19	1.73	2.12	1.08	1.08	1.90	3.36
OU2MW-52D	35.0 - 40.0	1.44	2.12	2.10	1.23	1.55	2.13	1.15	1.15	1.88	3.35
OU2MW-53S	3.0 - 8.0	1.13	1.69	NC	1.03	0.93	1.73	0.64	0.64	1.47	3.12
OU2MW-53I	20.0 - 25.0	1.13	1.83	NC	0.90	0.89	1.83	0.68	0.68	1.37	2.31
OU2MW-53D	35.0 - 40.0	1.14	1.84	NC	1.13	1.06	1.82	0.70	0.70	1.28	1.84
OU2MW-54S	5.0 - 15.0	NC	12.29	12.99	13.04	13.07	13.15	13.19	12.29	12.96	13.19
OU2MW-54I	25.0 - 30.0	NC	12.22	13.00	14.94	12.93	13.08	13.04	12.22	13.20	14.94
OU2MW-54I2	40.0 - 45.0	NC	12.25	12.74	12.55	12.81	13.13	13.07	12.25	12.76	13.13
OU2MW-54D	60.0 - 65.0	NC	12.26	13.27	13.28	13.21	13.13	13.35	12.26	13.08	13.35
OU2MW-57S	5.0 - 15.0	NC	12.40	12.59	13.44	13.40	13.30	13.61	12.40	13.12	13.61
OU2MW-57I	20.0 - 30.0	NC	12.42	12.90	13.46	13.03	NC	13.16	12.42	12.99	13.46
OU2MW-57I2	35.0 - 45.0	NC	12.43	13.33	13.44	13.03	13.33	13.40	12.43	13.16	13.44
OU2MW-58S	5.0 - 15.0	NC	NC	NC	13.00	12.89	13.09	13.71	12.89	13.17	13.71
OU2MW-58I	25.0 - 30.0	NC	NC	NC	13.00	12.93	13.05	13.07	12.93	13.01	13.07

Notes:
NC - Not Calculated
bgs - below ground surface
Well Elevations obtained from 2007 survey or later and reference NAVD88 datum.

Table 3-5
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-09S	1/5/2012	9:50	2.00	21.93	7.70	14.23	
BBMW-09I	1/5/2012	9:50	2.00	22.01	7.23	14.78	
BBMW-09D	1/5/2012	9:50	2.00	22.43	7.29	15.14	
BBMW-28S	1/5/2012	10:05	2.00	16.43	2.62	13.81	
BBMW-28I	1/5/2012	10:05	2.00	16.43	2.37	14.06	
BBMW-29	1/4/2012	11:07	0.50	15.82	2.73	13.09	
BBMW-30S	1/4/2012	11:35	2.00	16.02	2.15	13.87	
BBMW-30I	1/4/2012	11:37	2.00	15.69	2.29	13.40	
BBMW-30D	1/4/2012	11:46	2.00	16.53	2.39	14.14	
BBMW-31S	1/4/2012	10:58	2.00	13.49	2.36	11.13	
BBMW-31I	1/4/2012	10:58	2.00	13.33	2.22	11.11	
BBMW-31D	1/4/2012	11:00	2.00	13.37	2.40	10.97	
BBMW-32S	1/5/2012	10:38	2.00	14.44	2.10	12.34	
BBMW-32I	1/5/2012	10:38	2.00	15.50	2.12	13.38	
BBMW-32D	1/5/2012	10:38	2.00	14.54	2.20	12.34	
BBMW-33	1/4/2012	11:42	2.00	16.58	2.32	14.26	
GM-02AS	1/4/2012	14:45	1.25	20.79	9.81	10.98	
GM-02AI	1/4/2012	14:45	1.25	20.75	9.99	10.76	
GM-02AD	1/4/2012	14:45	1.25	20.74	10.01	10.73	
MW-01S	1/5/2012	10:30	4.00	19.34	3.30	16.04	
MW-01D	1/5/2012	10:30	4.00	19.48	3.35	16.13	
MW-03	1/4/2012	13:05	4.00	19.30	3.84	15.46	
MW-04	1/4/2012	13:10	4.00	19.16	3.99	15.17	
MW-29S	1/4/2012	13:55	2.00	18.34	2.58	15.76	
MW-29D	1/4/2012	13:55	2.00	18.44	2.62	15.82	
MW-30WR	1/4/2012	11:26	2.00	14.83	2.71	12.12	
MW-32W/WR	1/4/2012	11:28	0.50	14.65	2.74	11.91	
MW-34S	1/4/2012	11:30	0.75	15.69	2.07	13.62	
MW-34I	1/4/2012	11:31	0.75	15.73	2.08	13.65	
MW-34D	1/4/2012	11:30	1.00	15.58	2.00	13.58	
MW-45W	1/4/2012	11:42	0.75	15.20	1.78	13.42	
MW-46W-R	1/4/2012	11:46	0.75	15.40	1.93	13.47	
MW-64	1/6/2012	13:50	2.00	16.03	1.64	14.39	
MW-65	1/5/2012	9:42	2.00	15.62	1.24	14.38	
MW-73	1/6/2012	14:10	2.00	15.75	1.33	14.42	
MW-73I	1/6/2012	14:11	2.00	16.32	1.99	14.33	
MW-75	1/6/2012	13:32	2.00	16.09	1.70	14.39	
MW-75I	1/6/2012	13:33	2.00	16.07	1.79	14.28	
MW-76	NM	NM	2.00	15.15	NM	NC	Inaccessible
MW-78	1/6/2012	14:00	4.00	15.04	0.62	14.42	
MW-79	1/6/2012	13:58	4.00	15.32	0.93	14.39	
MW-80	1/6/2012	13:51	4.00	15.60	1.20	14.40	
MW-81	1/6/2012	13:44	4.00	15.47	1.11	14.36	
MW-82	1/6/2012	13:40	4.00	15.01	0.61	14.40	
MW-83	1/5/2012	9:40	4.00	15.02	0.69	14.33	
MWBS-02S	1/4/2012	13:20	1.00	13.58	2.17	11.41	
MWBS-02I	1/4/2012	11:00	0.75	13.46	2.12	11.34	
MWBS-02D	1/4/2012	13:25	0.75	13.54	2.13	11.41	
OU3MW-01S	1/5/2012	10:10	2.00	15.56	1.52	14.04	
OU3MW-02S	1/5/2012	10:20	2.00	15.16	1.33	13.83	
OU3MW-02I	1/5/2012	10:20	2.00	15.14	1.74	13.40	
OU3MW-04S	1/4/2012	11:20	2.00	14.80	1.87	12.93	
OU3MW-04I	1/4/2012	11:20	2.00	14.76	1.84	12.92	
OU3MW-04D	1/4/2012	11:20	2.00	14.84	1.91	12.93	
OU3MW-05S	1/4/2012	11:25	1.00	15.96	3.93	12.03	
OU3MW-05I	1/4/2012	11:25	1.00	15.90	3.95	11.95	
OU3MW-08S	1/4/2012	13:20	2.00	21.28	6.50	14.78	
OU3MW-08I	1/4/2012	13:20	2.00	21.42	6.64	14.78	
OU3MW-09S	1/4/2012	13:22	2.00	21.31	6.30	15.01	
OU3MW-09I	1/4/2012	13:22	2.00	21.41	6.52	14.89	
OU3MW-09I2	1/4/2012	13:22	2.00	21.24	6.39	14.85	
OU3MW-10S	1/4/2012	13:25	2.00	21.70	6.72	14.98	
OU3MW-10I	1/4/2012	13:25	2.00	21.70	6.81	14.89	

Table 3-5
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU3MW-11S	1/4/2012	13:30	2.00	21.64	6.83	14.81	
OU3MW-11I	1/4/2012	13:30	2.00	21.62	6.87	14.75	
OU3MW-12S	1/4/2012	13:40	2.00	22.05	6.96	15.09	
OU3MW-12I	1/4/2012	13:40	2.00	22.07	4.25	17.82	Repaired and re-surveyed
OU3MW-13S	1/6/2012	14:03	2.00	15.51	1.15	14.36	
OU3MW-14S	1/6/2012	13:50	2.00	15.91	1.55	14.36	
OU3MW-15S	1/6/2012	11:15	2.00	15.38	1.04	14.34	
OU3MW-16S	1/4/2012	13:20	2.00	21.42	6.62	14.80	
PDMW-01	1/4/2012	13:30	2.00	19.29	3.96	15.33	
SV-02	1/6/2012	14:20	2.00	17.37	2.84	14.53	
SV-02I	1/6/2012	14:20	2.00	17.63	3.43	14.20	
SV-02I2	1/6/2012	14:20	2.00	17.49	3.28	14.21	
BBSW-13*	1/4/2012	10:55	NA	13.07	2.61	10.46	Cooper Lane near unnamed pond

Notes:
1 - Well Elevations obtained from 2007 survey or later and reference NAVD88 datum
MSL - Mean Sea Level
NS - Survey Data Not Available
NM - Not Measured
NA - Not Applicable
* - Surface Water Gauging Station

Table 3-6
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Dec-78	Oct-92	Jun-97	Aug-97	Mar-98	Jun-98	Nov-99	Jun-01	Jul-01	Oct-01	Jun-02	Aug-02
BBMW-09S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	14.17	NC	NC	NC	14.84	12.61
BBMW-09I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	14.17	NC	NC	NC	14.82	12.60
BBMW-09D	62.0 - 72.0	NC	NC	NC	NC	NC	NC	14.08	NC	NC	NC	14.78	12.61
BBMW-28S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-28I	10.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-29	2.0 - 9.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-30S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-30I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-30D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-33	7.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
GM-02AS	8.91 - 23.91	10.17	10.19	NC	NC	NC	NC	10.43	NC	NC	NC	10.33	NC
GM-02AI	35.24 - 50.24	10.12	10.21	NC	NC	NC	NC	10.46	NC	NC	NC	10.35	NC
GM-02AD	59.8 - 74.8	10.38	10.42	NC	NC	NC	NC	10.63	NC	NC	NC	10.44	NC
MW-01S	4.0 - 14.0	NC	NC	14.88	NC	NC	NC	NC	15.39	NC	NC	NC	NC
MW-01D	35.0 - 45.0	NC	NC	14.74	NC	NC	NC	NC	15.57	NC	NC	NC	NC
MW-02S/SR	2.0 -12.0	NC	14.67	NC	14.35	16.41	15.77	15.15	15.47	14.42	13.70	15.47	13.02
MW-02I/R	22.5 - 23.5	NC	NC	NC	15.10	16.74	NC	15.46	NC	NC	NC	20.02	NC
MW-03	4.94 - 14.94	NC	NC	15.19	14.34	16.2	15.65	14.8	NC	NC	NC	13.53	13.18
MW-04	5.1 - 15.1	NC	NC	NC	14.09	NC	15.38	14.59	NC	NC	NC	14.85	12.98
MW-16S/SR	2.0 - 10.0	NC	NC	NC	NC	15.32	14.8	13.88	14.34	13.66	13.25	14.98	12.35
MW-16I	14.0 - 19.0	NC	NC	NC	NC	15.66	15.11	14.22	NC	NC	NC	14.92	12.7
MW-29S	5.0 - 10.0	NC	NC	NC	NC	NC	NC	15.12	NC	NC	NC	NC	13.55
MW-29D	14.0 - 19.0	NC	NC	NC	NC	16.52	NC	15.11	NC	NC	NC	NC	13.53
MW-30W	2.0 - 10.0	NC	NC	15.20	14.57	15.89	15.37	NC	NC	NC	NC	NC	NC
MW-30WR	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-32W/WR	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-34S	2.0 - 10.0	NC	NC	13.42	12.76	14.2	13.64	NC	NC	NC	NC	NC	NC
MW-34I	18.5 - 19.5	NC	NC	NC	12.77	14.17	13.66	13.12	NC	NC	NC	13.05	NC
MW-34D	27.5 - 28.5	NC	NC	NC	12.78	14.64	13.68	13.12	NC	NC	NC	13.07	NC
MW-45W	2.0 - 10.0	NC	NC	13.55	12.85	14.34	13.82	NC	NC	NC	NC	NC	NC
MW-46W-R	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-64	19.0 - 24.0	NC	NC	NC	NC	15.4	14.85	13.94	NC	NC	NC	NC	NC
MW-65	11.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-73	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-73I	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-76	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-78	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-79	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-80	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-81	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-82	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Dec-78	Oct-92	Jun-97	Aug-97	Mar-98	Jun-98	Nov-99	Jun-01	Jul-01	Oct-01	Jun-02	Aug-02
MW-83	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MWBS-02S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MWBS-02I	14.5 - 15.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MWBS-02D	24.5 - 25.5	NC	NC	NC	10.39	11.57	11.32	11.00	NC	NC	NC	11.30	NC
OU3MW-01S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04S	1.5 - 11.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04I	16.0 - 21.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04D	26.0 - 31.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-13S	20. - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-15S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-16S	2.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
PDMW-01	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Nov-02	Mar-03	Jul-03	Sep-03	Oct-03	Jan-04	Apr-04	Aug-04	Oct-04	Feb-05	May-05	Aug-05
BBMW-09S	5.0 - 15.0	14.85	15.27	15.28	14.22	NC	14.65	15.41	14.05	14.48	15.17	14.99	13.79
BBMW-09I	30.0 - 40.0	14.84	15.27	15.25	14.22	NC	14.64	15.39	14.04	14.47	15.16	14.97	13.80
BBMW-09D	62.0 - 72.0	14.81	15.25	15.28	14.22	NC	14.63	16.37	14.04	14.48	15.16	14.99	13.80
BBMW-28S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.31	14.05	12.96
BBMW-28I	10.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.28	14.04	12.94
BBMW-29	2.0 - 9.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.41	12.22	11.28
BBMW-30S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-30I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-30D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-33	7.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
GM-02AS	8.91 - 23.91	NC	11.03	11.03	10.23	NC	10.69	11.86	10.08	10.35	10.94	10.90	9.94
GM-02AI	35.24 - 50.24	NC	NC	NC	10.24	NC	10.74	11.87	10.10	10.37	10.96	10.92	9.96
GM-02AD	59.8 - 74.8	NC	11.32	11.22	10.42	NC	10.97	12.03	10.25	10.59	11.17	11.11	10.06
MW-01S	4.0 - 14.0	13.64	15.89	16.59	16.54	15.93	NC	15.93	17.36	15.33	15.77	16.47	16.38
MW-01D	35.0 - 45.0	13.66	15.88	16.61	16.58	15.64	NC	15.95	17.38	15.37	15.80	16.46	16.40
MW-02S/SR	2.0 -12.0	NC	NC	NC	NC	14.79	14.93	16.47	NC	14.58	15.29	15.09	NC
MW-02I/R	22.5 - 23.5	NC	NC	NC	NC	NC	NC	NC	NC	14.11	NC	NC	NC
MW-03	4.94 - 14.94	15.32	15.98	16.00	15.02	NC	15.31	16.77	14.67	15.18	15.85	15.73	14.49
MW-04	5.1 - 15.1	16.28	19.16	15.84	14.89	NC	NC	16.61	14.57	15.19	15.55	15.55	14.34
MW-16S/SR	2.0 - 10.0	15.04	15.50	15.40	14.35	NC	14.79	16.47	NC	14.14	14.96	15.15	13.52
MW-16I	14.0 - 19.0	14.89	15.32	15.29	14.28	NC	14.71	16.08	NC	14.64	15.25	15.13	NC
MW-29S	5.0 - 10.0	15.69	16.30	16.24	15.35	NC	15.64	17.84	15.09	15.48	16.17	16.02	14.84
MW-29D	14.0 - 19.0	15.68	16.34	NC	15.34	NC	15.65	17.03	15.08	15.48	16.15	16.01	14.83
MW-30W	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-30WR	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	15.30	15.09	14.17
MW-32W/WR	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.57	13.36	12.36
MW-34S	2.0 - 10.0	NC	14.13	14.07	13.01	NC	13.52	14.8	12.97	13.28	14.00	13.73	12.73
MW-34I	18.5 - 19.5	NC	14.08	14.02	12.98	NC	13.48	14.76	12.92	13.25	13.97	13.72	12.74
MW-34D	27.5 - 28.5	NC	14.07	14.03	12.98	NC	13.47	14.8	12.93	13.26	13.97	13.72	12.75
MW-45W	2.0 - 10.0	NC	NC	NC	13.32	NC	13.71	14.87	13.20	13.40	14.13	13.97	12.85
MW-46W-R	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-64	19.0 - 24.0	NC	NC	NC	13.95	NC	14.87	15.77	13.85	14.21	NC	14.73	13.58
MW-65	11.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-73	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-73I	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-76	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-78	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-79	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-80	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-81	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-82	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Nov-02	Mar-03	Jul-03	Sep-03	Oct-03	Jan-04	Apr-04	Aug-04	Oct-04	Feb-05	May-05	Aug-05
MW-83	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MWBS-02S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	10.77	10.97	11.58	11.44	10.59
MWBS-02I	14.5 - 15.5	NC	NC	NC	NC	NC	NC	NC	10.69	10.91	11.57	11.42	10.55
MWBS-02D	24.5 - 25.5	NC	NC	NC	NC	NC	NC	NC	10.69	10.95	11.45	11.44	10.61
OU3MW-01S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04S	1.5 - 11.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04I	16.0 - 21.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04D	26.0 - 31.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-13S	20. - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-15S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-16S	2.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
PDMW-01	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07	Oct/Nov-07	Jan-08	Apr-08	Aug-08
BBMW-09S	5.0 - 15.0	15.55	15.43	14.93	14.63	15.09	15.02	15.44	14.67	13.75	14.72	15.29	14.12
BBMW-09I	30.0 - 40.0	15.54	15.42	14.92	14.63	15.10	15.02	15.44	14.69	13.76	14.72	15.30	14.11
BBMW-09D	62.0 - 72.0	15.52	15.42	14.93	14.63	15.11	15.01	15.45	14.65	13.74	14.72	15.30	14.12
BBMW-28S	2.0 - 12.0	14.45	14.35	13.97	13.65	14.11	14.07	14.36	13.72	12.89	13.74	14.28	13.23
BBMW-28I	10.0 - 20.0	14.45	14.34	13.96	13.63	14.09	14.06	14.34	13.71	12.88	13.73	14.29	13.22
BBMW-29	2.0 - 9.0	12.53	12.46	12.17	11.80	12.28	12.25	12.53	11.87	11.30	12.03	12.45	11.54
BBMW-30S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	13.68	12.93	13.71	14.22	13.21
BBMW-30I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	13.70	12.92	13.67	14.24	13.21
BBMW-30D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	13.67	12.91	13.64	14.20	13.16
BBMW-31S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	10.76	10.51	11.13	11.40	10.46
BBMW-31I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	10.77	10.52	11.12	11.40	10.45
BBMW-31D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	10.77	10.52	11.12	11.42	10.46
BBMW-32S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	12.15	11.58	12.29	12.72	11.75
BBMW-32I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	13.16	12.59	13.30	13.72	12.74
BBMW-32D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	13.09	11.56	12.26	12.69	11.71
BBMW-33	7.0 - 12.0	NC	NC	NC	13.22	13.72	13.59	13.93	13.24	12.56	13.39	13.85	12.78
GM-02AS	8.91 - 23.91	11.24	11.09	10.83	10.38	10.93	10.94	11.31	10.46	10.10	10.73	11.03	10.06
GM-02AI	35.24 - 50.24	11.26	11.11	10.85	10.40	10.96	10.94	11.33	10.48	10.12	10.76	11.04	10.07
GM-02AD	59.8 - 74.8	11.47	11.36	11.05	10.52	11.16	11.20	11.51	10.61	10.26	11.74	11.27	10.18
MW-01S	4.0 - 14.0	15.08	16.95	16.77	16.28	16.01	16.39	16.37	16.79	16.01	15.93	16.59	15.38
MW-01D	35.0 - 45.0	15.21	16.87	16.79	16.30	16.07	16.40	16.38	16.80	16.00	15.95	16.61	15.41
MW-02S/SR	2.0 -12.0	NC	NC	NC	14.77	15.23	15.13	15.58	14.86	13.87	14.87	15.49	14.23
MW-02I/R	22.5 - 23.5	NC	NC	NC	NC	NC	NC	NC	NC	13.83	14.56	15.29	14.18
MW-03	4.94 - 14.94	16.28	16.15	15.65	15.38	15.79	15.74	16.16	15.38	14.43	15.39	16.02	14.81
MW-04	5.1 - 15.1	16.13	15.90	15.45	15.19	15.56	15.52	15.73	15.14	14.20	15.07	NC	14.58
MW-16S/SR	2.0 - 10.0	15.70	15.6	15.01	14.75	15.29	15.11	15.92	15.03	13.89	14.81	16.14	14.22
MW-16I	14.0 - 19.0	15.56	15.46	14.98	14.7	15.15	15.07	15.66	14.77	13.84	14.93	15.35	14.22
MW-29S	5.0 - 10.0	16.53	16.39	15.91	15.69	16.07	16.00	16.41	15.67	NC	15.66	16.23	15.10
MW-29D	14.0 - 19.0	16.52	16.38	15.91	15.68	16.06	16.00	16.40	15.66	NC	15.63	16.22	15.08
MW-30W	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-30WR	2.0 - 10.0	15.40	15.34	15.03	14.69	15.13	15.10	15.40	14.74	11.83	12.58	13.04	12.07
MW-32W/WR	2.0 - 10.0	13.72	13.6	13.26	12.96	13.41	13.32	13.64	12.99	12.30	13.09	13.56	12.64
MW-34S	2.0 - 10.0	14.12	14.03	13.59	13.35	13.81	13.75	14.07	13.38	NC	13.48	14.00	12.94
MW-34I	18.5 - 19.5	14.12	14.01	13.65	13.35	13.80	13.75	14.07	13.38	NC	13.48	13.98	12.94
MW-34D	27.5 - 28.5	14.13	14.01	13.66	13.35	14.30	13.76	14.08	13.38	NC	13.38	13.98	12.94
MW-45W	2.0 - 10.0	14.26	14.15	13.78	13.49	13.97	13.88	14.22	13.51	12.79	13.56	NC	NC
MW-46W-R	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-64	19.0 - 24.0	15.09	15.07	14.61	14.24	14.75	14.72	14.99	14.35	13.49	14.33	14.95	13.84
MW-65	11.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.88	13.75
MW-73	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-73I	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-76	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-78	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-79	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-80	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-81	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-82	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07	Oct/Nov-07	Jan-08	Apr-08	Aug-08
MW-83	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MWBS-02S	5.0 - 15.0	11.70	11.6	11.38	10.93	11.46	11.47	11.65	11.06	10.67	NC	NC	10.61
MWBS-02I	14.5 - 15.5	11.66	11.6	11.39	10.94	11.45	11.45	11.58	10.99	10.63	NC	NC	10.63
MWBS-02D	24.5 - 25.5	11.73	11.6	11.39	10.88	11.47	11.47	11.28	11.05	10.67	NC	NC	10.65
OU3MW-01S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04S	1.5 - 11.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04I	16.0 - 21.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04D	26.0 - 31.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-13S	20. - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-15S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-16S	2.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
PDMW-01	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10	Oct-10	Jan-11	Apr-11	Jul-11
BBMW-09S	5.0 - 15.0	14.82	14.86	15.22	15.06	14.21	15.29	16.78	14.13	13.68	14.44	14.79	14.35
BBMW-09I	30.0 - 40.0	14.81	14.90	15.23	15.09	14.21	15.30	16.77	14.26	13.79	14.54	14.90	14.45
BBMW-09D	62.0 - 72.0	14.83	14.88	15.24	15.06	14.21	15.28	16.76	14.24	13.74	14.54	14.89	14.46
BBMW-28S	2.0 - 12.0	13.94	13.92	14.30	14.06	13.25	14.30	15.33	13.26	12.96	13.69	13.97	13.54
BBMW-28I	10.0 - 20.0	13.94	13.90	14.29	14.05	13.24	14.38	15.32	13.24	12.93	13.66	13.96	13.52
BBMW-29	2.0 - 9.0	12.21	12.16	12.48	12.27	11.48	12.52	13.51	11.44	11.35	12.02	12.23	11.83
BBMW-30S	2.0 - 10.0	13.90	13.87	14.27	13.99	13.24	14.22	15.10	13.25	12.96	13.66	13.72	13.51
BBMW-30I	14.0 -19.0	13.91	13.86	14.25	13.97	13.21	14.22	15.13	13.24	12.96	13.66	13.65	13.32
BBMW-30D	30.0 - 35.0	13.88	13.83	14.22	13.92	13.19	14.19	15.11	13.22	12.93	13.63	14.13	13.55
BBMW-31S	2.0 - 10.0	11.23	11.20	11.48	11.21	10.43	11.46	12.27	10.40	10.38	11.04	11.09	10.96
BBMW-31I	14.0 -19.0	11.22	11.18	11.38	11.20	10.42	11.45	12.20	10.38	10.37	11.02	10.95	10.88
BBMW-31D	30.0 - 35.0	11.23	11.19	11.38	11.21	10.44	11.45	12.21	10.39	10.38	11.03	11.02	10.84
BBMW-32S	2.0 - 10.0	12.45	12.43	12.74	12.49	11.76	12.76	13.62	11.75	11.61	12.25	12.24	12.07
BBMW-32I	14.0 -19.0	13.45	13.42	13.74	13.50	12.77	13.75	14.66	12.74	12.60	13.21	13.20	13.10
BBMW-32D	30.0 - 35.0	12.42	12.39	12.71	12.47	11.73	12.73	13.63	11.71	11.56	12.19	12.22	12.05
BBMW-33	7.0 - 12.0	13.53	13.48	13.89	13.65	12.84	13.86	14.93	12.81	13.60	NC	13.69	13.35
GM-02AS	8.91 - 23.91	10.85	10.84	10.93	10.86	10.04	11.14	12.21	9.97	9.96	10.61	10.83	10.46
GM-02AI	35.24 - 50.24	10.88	10.85	10.95	10.88	10.05	11.16	12.22	10.00	9.97	10.64	10.86	10.48
GM-02AD	59.8 - 74.8	11.04	11.05	11.36	11.04	10.25	11.37	12.44	10.13	10.16	10.79	11.02	10.60
MW-01S	4.0 - 14.0	16.08	NC	16.53	16.42	15.49	16.62	17.99	15.61	14.98	15.70	16.23	15.75
MW-01D	35.0 - 45.0	16.11	16.27	16.55	16.44	15.52	16.65	18.03	15.65	14.99	15.75	16.25	15.78
MW-02S/SR	2.0 -12.0	14.97	14.98	15.32	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-02I/R	22.5 - 23.5	14.84	14.89	15.24	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-03	4.94 - 14.94	15.49	15.62	15.97	15.81	14.91	16.02	17.58	15.01	14.47	15.23	15.61	15.03
MW-04	5.1 - 15.1	15.27	15.28	NC	15.50	14.82	15.73	NC	14.71	14.18	14.95	15.31	15.04
MW-16S/SR	2.0 - 10.0	14.94	15.00	15.97	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-16I	14.0 - 19.0	14.86	14.94	15.28	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-29S	5.0 - 10.0	15.76	15.88	16.18	16.00	15.14	16.24	17.43	15.29	14.77	15.49	15.84	15.45
MW-29D	14.0 - 19.0	15.75	15.88	16.16	16.00	15.17	16.25	17.44	15.29	14.77	15.47	15.89	15.44
MW-30W	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-30WR	2.0 - 10.0	12.8	12.75	13.14	12.83	12.04	13.10	14.15	12.05	11.95	12.58	12.81	12.45
MW-32W/WR	2.0 - 10.0	13.28	13.21	NC	13.36	12.58	13.61	NC	12.56	NC	NC	13.29	12.95
MW-34S	2.0 - 10.0	13.68	13.64	14.05	13.82	13.00	14.03	15.09	12.98	12.72	13.46	13.71	13.31
MW-34I	18.5 - 19.5	13.66	13.63	14.02	13.80	12.98	13.98	15.06	12.95	12.95	13.42	13.71	13.30
MW-34D	27.5 - 28.5	13.67	13.67	14.02	13.80	12.99	14.00	15.07	12.95	12.68	13.43	13.73	13.27
MW-45W	2.0 - 10.0	13.79	NC	14.16	14.21	13.18	NC	15.16	13.18	12.98	13.60	13.37	13.27
MW-46W-R	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.29
MW-64	19.0 - 24.0	14.52	14.58	14.90	14.65	13.87	14.90	15.75	13.96	13.50	14.21	14.54	14.11
MW-65	11.0 - 16.0	14.46	14.51	14.87	14.60	13.80	14.82	NC	13.80	13.44	14.18	14.52	14.05
MW-73	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	13.41	14.22	14.54	14.04
MW-73I	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	13.24	14.47	14.69	13.70
MW-75I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-76	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-78	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.23	14.60	14.13
MW-79	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.20	14.54	14.09
MW-80	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	13.48	14.22	14.65	14.09
MW-81	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.21	14.55	14.06
MW-82	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.09	14.63	14.07

Table 3-6
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10	Oct-10	Jan-11	Apr-11	Jul-11
MW-83	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.09
MWBS-02S	5.0 - 15.0	11.43	11.38	NC	11.70	10.43	11.65	NC	10.18	NC	11.17	11.32	11.04
MWBS-02I	14.5 - 15.5	11.41	11.34	NC	11.35	10.57	11.66	NC	10.54	NC	11.21	11.39	11.01
MWBS-02D	24.5 - 25.5	11.42	11.22	NC	11.44	10.62	11.49	NC	10.50	NC	11.19	11.35	11.04
OU3MW-01S	3.0 - 13.0	NC	NC	NC	NC	NC	14.35	15.28	13.43	13.14	13.78	14.11	13.69
OU3MW-02S	3.0 - 13.0	NC	NC	NC	NC	13.10	14.10	15.05	13.10	12.88	13.55	13.57	13.13
OU3MW-02I	15.0 - 20.0	NC	NC	NC	NC	13.09	14.03	15.05	13.01	12.81	13.47	13.54	13.07
OU3MW-04S	1.5 - 11.5	NC	NC	NC	NC	12.34	13.39	14.42	12.31	12.17	12.81	13.09	12.79
OU3MW-04I	16.0 - 21.0	NC	NC	NC	NC	12.33	13.37	14.39	12.31	12.15	12.79	13.06	12.73
OU3MW-04D	26.0 - 31.0	NC	NC	NC	NC	12.31	13.36	14.38	12.26	12.09	12.78	13.04	12.70
OU3MW-05S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.59	14.89	14.46
OU3MW-08I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.58	14.89	14.48
OU3MW-09S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.64	15.02	14.62
OU3MW-09I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.58	14.94	14.53
OU3MW-09I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.62	15.02	14.58
OU3MW-10I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.59	14.97	14.55
OU3MW-11S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.54	14.94	14.46
OU3MW-11I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.54	14.91	14.46
OU3MW-12S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.83	15.19	14.76
OU3MW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.84	15.20	14.77
OU3MW-13S	20. - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-15S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-16S	2.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
PDMW-01	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.77
SV-02	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.33	14.67	14.03
SV-02I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)				
		Oct-11	Jan-12	Minimum	Average	Maximum
BBMW-09S	5.0 - 15.0	14.70	14.23	12.61	14.72	16.78
BBMW-09I	30.0 - 40.0	14.81	14.78	12.60	14.75	16.77
BBMW-09D	62.0 - 72.0	14.80	15.14	12.61	14.78	16.76
BBMW-28S	2.0 - 12.0	13.86	13.81	12.89	13.87	15.33
BBMW-28I	10.0 - 20.0	14.13	14.06	12.88	13.88	15.32
BBMW-29	2.0 - 9.0	12.11	13.09	11.28	12.13	13.51
BBMW-30S	2.0 - 10.0	14.02	13.87	12.93	13.75	15.10
BBMW-30I	14.0 -19.0	13.48	13.40	12.92	13.68	15.13
BBMW-30D	30.0 - 35.0	14.24	14.14	12.91	13.78	15.11
BBMW-31S	2.0 - 10.0	11.08	11.13	10.38	11.03	12.27
BBMW-31I	14.0 -19.0	11.13	11.11	10.37	11.01	12.20
BBMW-31D	30.0 - 35.0	11.00	10.97	10.38	11.00	12.21
BBMW-32S	2.0 - 10.0	11.76	12.34	11.58	12.25	13.62
BBMW-32I	14.0 -19.0	13.35	13.38	12.59	13.28	14.66
BBMW-32D	30.0 - 35.0	12.33	12.34	11.56	12.30	13.63
BBMW-33	7.0 - 12.0	13.38	14.26	12.56	13.53	14.93
GM-02AS	8.91 - 23.91	10.99	10.98	9.94	10.70	12.21
GM-02AI	35.24 - 50.24	10.73	10.76	9.96	10.69	12.22
GM-02AD	59.8 - 74.8	10.84	10.73	10.06	10.90	12.44
MW-01S	4.0 - 14.0	16.07	16.04	13.64	16.06	17.99
MW-01D	35.0 - 45.0	16.11	16.13	13.66	16.08	18.03
MW-02S/SR	2.0 -12.0	NC	NC	13.02	14.96	16.47
MW-02I/R	22.5 - 23.5	NC	NC	13.83	15.36	20.02
MW-03	4.94 - 14.94	15.44	15.46	13.18	15.41	17.58
MW-04	5.1 - 15.1	15.19	15.17	12.98	15.25	19.16
MW-16S/SR	2.0 - 10.0	NC	NC	12.35	14.83	16.47
MW-16I	14.0 - 19.0	NC	NC	12.70	14.93	16.08
MW-29S	5.0 - 10.0	15.50	15.76	13.55	15.78	17.84
MW-29D	14.0 - 19.0	15.80	15.82	13.53	15.77	17.44
MW-30W	2.0 - 10.0	NC	NC	14.57	15.26	15.89
MW-30WR	2.0 - 10.0	12.70	12.12	11.83	13.53	15.40
MW-32W/WR	2.0 - 10.0	13.22	11.91	11.91	13.11	13.72
MW-34S	2.0 - 10.0	13.69	13.62	12.72	13.63	15.09
MW-34I	18.5 - 19.5	13.58	13.65	12.74	13.60	15.06
MW-34D	27.5 - 28.5	13.49	13.58	12.68	13.61	15.07
MW-45W	2.0 - 10.0	13.62	13.42	12.79	13.69	15.16
MW-46W-R	2.0 - 10.0	13.60	13.47	13.29	13.45	13.60
MW-64	19.0 - 24.0	14.44	14.39	13.49	14.50	15.77
MW-65	11.0 - 16.0	13.88	14.38	13.44	14.26	14.88
MW-73	2.0 - 12.0	14.35	14.42	13.41	14.16	14.54
MW-73I	2.0 - 12.0	14.38	14.33	14.33	14.36	14.38
MW-75	2.0 - 12.0	14.43	14.39	13.24	14.15	14.69
MW-75I	22.0 - 27.0	14.35	14.28	14.28	14.32	14.35
MW-76	2.0 - 12.0	NC	NC	NC	NC	NC
MW-78	5.0 - 20.0	14.44	14.42	14.13	14.36	14.60
MW-79	5.0 - 20.0	14.43	14.39	14.09	14.33	14.54
MW-80	5.0 - 20.0	14.37	14.40	13.48	14.20	14.65
MW-81	5.0 - 20.0	13.47	14.36	13.47	14.13	14.55
MW-82	5.0 - 20.0	14.51	14.40	14.07	14.34	14.63

Table 3-6
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)				
		Oct-11	Jan-12	Minimum	Average	Maximum
MW-83	5.0 - 20.0	14.45	14.33	14.09	14.29	14.45
MWBS-02S	5.0 - 15.0	11.45	11.41	10.18	11.19	11.70
MWBS-02I	14.5 - 15.5	11.29	11.34	10.54	11.18	11.66
MWBS-02D	24.5 - 25.5	11.20	11.41	10.39	11.15	11.73
OU3MW-01S	3.0 - 13.0	14.49	14.04	13.14	14.03	15.28
OU3MW-02S	3.0 - 13.0	13.91	13.83	12.88	13.62	15.05
OU3MW-02I	15.0 - 20.0	13.34	13.40	12.81	13.48	15.05
OU3MW-04S	1.5 - 11.5	12.96	12.93	12.17	12.92	14.42
OU3MW-04I	16.0 - 21.0	12.86	12.92	12.15	12.89	14.39
OU3MW-04D	26.0 - 31.0	12.89	12.93	12.09	12.87	14.38
OU3MW-05S	2.0 - 12.0	NC	12.03	12.03	12.03	12.03
OU3MW-05I	15.0 - 20.0	NC	11.95	11.95	11.95	11.95
OU3MW-08S	2.0 - 12.0	14.68	14.78	14.46	14.68	14.89
OU3MW-08I	25.0 - 30.0	14.97	14.78	14.48	14.74	14.97
OU3MW-09S	2.0 - 12.0	15.00	15.01	14.62	14.86	15.02
OU3MW-09I	25.0 - 30.0	14.90	14.89	14.53	14.77	14.94
OU3MW-09I2	35.0 - 40.0	14.87	14.85	14.85	14.86	14.87
OU3MW-10S	2.0 - 12.0	14.99	14.98	14.58	14.84	15.02
OU3MW-10I	25.0 - 30.0	14.93	14.89	14.55	14.79	14.97
OU3MW-11S	2.0 - 12.0	14.83	14.81	14.46	14.72	14.94
OU3MW-11I	25.0 - 30.0	14.81	14.75	14.46	14.69	14.91
OU3MW-12S	2.0 - 12.0	15.11	15.09	14.76	15.00	15.19
OU3MW-12I	25.0 - 30.0	NC	17.82	14.77	15.66	17.82
OU3MW-13S	20. - 12.0	13.63	14.36	13.63	14.00	14.36
OU3MW-14S	2.0 - 12.0	NC	14.36	14.36	14.36	14.36
OU3MW-15S	2.0 - 12.0	14.38	14.34	14.34	14.36	14.38
OU3MW-16S	2.0 - 16.0	14.81	14.80	14.80	14.81	14.81
PDMW-01	5.0 - 20.0	15.17	15.33	14.77	15.09	15.33
SV-02	2.0 - 12.0	14.97	14.53	14.03	14.51	14.97
SV-02I	22.0 - 27.0	14.31	14.20	14.20	14.26	14.31
SV-02I2	35.0 - 40.0	14.26	14.21	14.21	14.24	14.26

Notes:
NC - Not Calculated
bgs - below ground surface
Well Elevations obtained from 2007 survey or later and reference NAVD88 datum.

Table 3-7
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 4 (OU-4)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
WCMW-02S	1/3/2012	11:10	1.00	15.34	2.02	13.32	
WCMW-02I	1/3/2012	11:12	1.00	15.23	1.99	13.24	
WCMW-02D	1/3/2012	11:11	1.00	15.15	1.75	13.40	
WCMW-04S	1/3/2012	11:30	2.00	19.27	5.11	14.16	
WCMW-04I	1/3/2012	11:31	2.00	19.21	5.22	13.99	
WCMW-04I2	1/3/2012	11:31	2.00	19.16	5.09	14.07	
WCMW-05S	1/3/2012	14:45	2.00	18.46	4.16	14.30	
WCMW-05I	1/3/2012	14:46	2.00	18.27	4.20	14.07	
WCMW-05I2	1/3/2012	14:47	2.00	18.39	4.32	14.07	
WCMW-06S	1/4/2012	8:55	2.00	NS	3.74	NC	
WCMW-06I	1/4/2012	8:55	2.00	NS	3.67	NC	
WCMW-06I2	1/4/2012	8:55	2.00	NS	3.66	NC	
WCMW-07S	1/4/2012	8:50	2.00	NS	2.43	NC	
WCMW-07I	1/4/2012	8:50	2.00	NS	2.78	NC	
WCMW-07I2	1/4/2012	8:50	2.00	NS	2.63	NC	
WCMW-08S	1/3/2012	14:55	2.00	17.64	3.06	14.58	
WCMW-08I	1/3/2012	14:57	2.00	17.72	3.04	14.68	
WCMW-08I2	1/3/2012	14:57	2.00	17.76	3.03	14.73	
WCMW-09S	NM	NM	2.00	18.02	NM	NC	Inaccessible
WCMW-10S	1/4/2012	8:30	2.00	17.44	3.30	14.14	
WCMW-10D	1/4/2012	8:31	2.00	17.36	3.21	14.15	
WCMW-11S	1/5/2012	9:00	2.00	18.87	4.78	14.09	
WCMW-11I	1/5/2012	9:02	2.00	19.18	5.07	14.11	
WCMW-11D	1/5/2012	9:04	2.00	19.02	4.92	14.10	
WCMW-12S	1/3/2012	11:05	2.00	16.88	3.97	12.91	
WCMW-12I	1/3/2012	11:05	2.00	17.19	3.92	13.27	
WCMW-12D	1/3/2012	11:05	2.00	17.15	3.85	13.30	
WCMW-13S	1/3/2012	10:48	2.00	15.11	1.92	13.19	
WCMW-13I	1/3/2012	10:50	2.00	15.41	2.03	13.38	
WCMW-13D	1/3/2012	10:51	2.00	15.38	2.15	13.23	
WCMW-14S	1/3/2012	11:00	2.00	NS	3.43	NC	
WCMW-14I	1/3/2012	11:01	2.00	NS	3.41	NC	
WCMW-14I2	1/3/2012	11:01	2.00	NS	3.40	NC	
WCMW-14D	1/3/2012	11:02	2.00	NS	3.54	NC	
WCMW-18WT	1/3/2012	14:30	2.00	17.00	2.51	14.49	
WCMW-18S	1/3/2012	14:32	2.00	17.20	2.71	14.49	
WCMW-18I	1/3/2012	14:32	2.00	17.22	2.72	14.50	
WCMW-18I2	1/3/2012	14:33	2.00	17.22	2.73	14.49	
WCMW-19S	1/3/2012	11:20	2.00	16.68	1.88	14.80	
WCMW-19I	1/3/2012	11:22	2.00	16.92	2.11	14.81	
WCMW-19I2	1/3/2012	11:22	2.00	16.64	1.81	14.83	
WCMW-22S	NM	NM	2.00	18.66	NM	NC	
WCMW-22I	NM	NM	2.00	18.36	NM	NC	
WCMW-23S	NM	NM	2.00	19.13	NM	NC	Inaccessible
WCMW-23I	NM	NM	2.00	19.06	NM	NC	Inaccessible
WCMW-25I	1/3/2012	11:40	1.00	18.65	4.86	13.79	
WCMW-25D	1/3/2012	11:42	1.00	18.61	4.82	13.79	
WCMW-26S	1/5/2012	9:10	2.00	20.08	4.38	15.70	
WCMW-26I	1/5/2012	9:12	2.00	20.73	4.51	16.22	
WCMW-26I2	1/5/2012	9:15	2.00	20.98	4.53	16.45	
WCMW-29S	1/5/2012	9:22	1.00	18.08	3.83	14.25	
WCMW-29I	1/5/2012	9:24	1.00	18.09	3.85	14.24	
BBSW-14*	1/3/2012	10:56	NA	15.05	3.08	11.97	Watchogue Creek at Union Blvd.

Notes:
1 - Well Elevations obtained from 2007 survey or later and reference NAVD88 datum
MSL - Mean Sea Level
NS - Survey Data Not Available
NM - Not Measured
NA - Not Applicable
* - Surface Water Gauging Station

Table 3-8
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Nov-99	Jun-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04	Jun-04	Oct-04	Feb-05	May-05
WCMW-02S	3.0 - 13.0	NC	12.96	13.12	13.53	13.45	12.92	13.09	14.00	12.66	13.03	14.07	13.44
WCMW-02I	34.5 - 44.5	NC	12.86	13.03	13.43	13.34	12.86	13.01	13.96	12.56	12.95	13.52	13.41
WCMW-02D	62.0 - 72.0	NC	12.92	13.10	13.64	13.44	12.90	12.75	14.01	12.61	12.98	13.46	13.55
WCMW-04S	1.5 - 11.5	NC	NC	13.97	14.50	14.36	13.70	NC	15.06	13.39	13.83	14.46	14.32
WCMW-04I	19.0 - 24.0	NC	NC	13.94	14.49	14.36	13.70	NC	15.00	13.41	13.83	14.47	14.33
WCMW-04I2	29.85 - 34.85	NC	NC	14.05	14.58	14.43	13.79	NC	15.07	13.48	13.88	14.55	14.45
WCMW-05S	1.4 - 11.4	NC	NC	14.20	14.68	14.46	13.82	NC	15.05	13.48	13.97	14.66	14.39
WCMW-05I	19.61 - 24.61	NC	NC	13.98	14.51	14.40	13.76	NC	14.99	13.44	13.89	14.52	14.37
WCMW-05I2	29.46 - 34.46	NC	NC	14.02	14.54	14.43	13.81	NC	15.02	13.48	13.92	14.57	14.41
WCMW-06S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-06I	19.55 - 24.55	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-06I2	29.83 - 34.83	NC	NC	13.86	14.33	14.21	13.60	NC	14.79	13.27	13.74	14.39	14.22
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I	18.9 - 23.9	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I2	28.95 - 33.95	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-08S	4.2 - 9.2	NC	NC	14.55	15.14	15.02	14.32	14.57	15.59	14.00	14.45	15.11	15.01
WCMW-08I	19.2 - 24.2	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-08I2	26.9 - 31.9	NC	NC	14.55	15.13	15.05	14.33	14.59	15.61	14.03	14.47	15.14	15.03
WCMW-09S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-10S	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-10D	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-11S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-11I	25.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-11D	50.0 - 60.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-12S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-12D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-13S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-13I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-13D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-14I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-14I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-14D	67.0 - 72.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18WT	2.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-22S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-22I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-23S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-23I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-25I	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-25D	55.0 - 60.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-29S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-29I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-8
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Aug-05	Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07	Oct/Nov-07	Jan-08	May-08
WCMW-02S	3.0 - 13.0	12.25	13.69	13.53	13.22	12.95	13.39	13.35	13.60	12.95	12.35	13.07	13.54
WCMW-02I	34.5 - 44.5	12.28	13.75	13.61	13.28	12.98	13.43	13.41	13.67	12.98	12.34	13.11	13.62
WCMW-02D	62.0 - 72.0	12.34	13.84	13.64	13.32	12.98	13.47	13.44	13.70	13.02	12.39	13.16	13.65
WCMW-04S	1.5 - 11.5	13.10	14.73	14.59	14.23	13.90	14.36	14.33	14.58	13.83	13.18	13.97	14.57
WCMW-04I	19.0 - 24.0	13.10	14.73	14.59	14.23	13.90	14.36	14.35	14.59	13.84	13.20	14.02	14.59
WCMW-04I2	29.85 - 34.85	13.21	14.83	14.64	14.32	13.99	14.45	14.43	14.70	13.94	13.29	14.12	14.67
WCMW-05S	1.4 - 11.4	13.18	14.85	14.70	14.31	13.99	14.48	14.43	14.67	13.92	13.25	14.14	14.64
WCMW-05I	19.61 - 24.61	13.16	14.81	14.65	14.29	13.97	14.42	14.40	14.66	13.92	13.27	14.07	14.62
WCMW-05I2	29.46 - 34.46	13.17	14.84	14.68	14.33	13.98	14.46	14.44	14.70	13.95	13.31	14.08	14.66
WCMW-06S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.03	13.83	14.38
WCMW-06I	19.55 - 24.55	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.02	13.82	14.36
WCMW-06I2	29.83 - 34.83	12.98	14.62	NC	14.12	NC	NC	14.25	14.45	13.69	13.07	13.83	14.39
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I	18.9 - 23.9	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I2	28.95 - 33.95	NC	NC	NC		NC	NC	NC	NC	NC	NC	NC	NC
WCMW-08S	4.2 - 9.2	13.73	15.43	15.26	14.92	14.58	14.99	15.01	15.29	14.52	13.82	14.64	15.26
WCMW-08I	19.2 - 24.2	NC	NC	NC	NC	14.60	15.03	15.03	15.28	14.51	13.85	14.66	15.27
WCMW-08I2	26.9 - 31.9	13.77	15.44	15.27	14.92	14.59	15.02	15.02	15.28	14.52	13.82	14.74	15.25
WCMW-09S	5.0 - 15.0	NC	NC	15.05	14.71	14.39	14.81	14.82	15.08	14.32	13.64	14.45	15.04
WCMW-10S	15.0 - 20.0	NC	NC	NC	NC	NC	NC	14.57	17.44	NC	13.47	14.18	14.80
WCMW-10D	40.0 - 50.0	NC	NC	14.82	14.46	14.14	NC	14.57	17.36	NC	13.42	14.18	14.80
WCMW-11S	5.0 - 15.0	NC	NC	15.84	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-11I	25.0 - 35.0	NC	NC	15.84	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-11D	50.0 - 60.0	NC	NC	15.81	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-12S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.77
WCMW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.76
WCMW-12D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.78
WCMW-13S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.59
WCMW-13I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.68
WCMW-13D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.71
WCMW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.57
WCMW-14I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.53
WCMW-14I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.53
WCMW-14D	67.0 - 72.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.56
WCMW-18WT	2.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-22S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-22I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-23S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-23I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-25I	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-25D	55.0 - 60.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-29S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-29I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-8
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)											
		Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10	Oct-10	Jan-11	Apr-11
WCMW-02S	3.0 - 13.0	12.59	13.24	13.31	13.63	13.53	12.88	13.63	14.50	12.73	12.57	13.09	13.14
WCMW-02I	34.5 - 44.5	12.64	13.25	13.25	13.60	13.59	12.92	13.71	14.56	12.75	12.59	13.18	13.16
WCMW-02D	62.0 - 72.0	12.93	13.30	13.38	13.56	13.62	12.95	13.70	14.64	12.78	12.62	13.20	13.26
WCMW-04S	1.5 - 11.5	13.49	14.17	14.26	14.58	14.56	13.82	14.66	15.67	13.86	13.35	13.97	13.98
WCMW-04I	19.0 - 24.0	13.64	14.16	14.30	14.55	14.55	13.79	14.63	15.63	13.62	13.33	13.91	13.92
WCMW-04I2	29.85 - 34.85	13.45	14.26	14.39	14.62	14.63	13.95	14.66	15.60	13.70	13.37	13.87	13.89
WCMW-05S	1.4 - 11.4	13.59	14.32	14.40	14.66	14.62	13.97	14.66	15.57	13.91	13.43	14.01	14.53
WCMW-05I	19.61 - 24.61	13.57	14.23	14.36	14.61	14.65	13.89	14.62	15.60	13.68	13.42	14.01	14.42
WCMW-05I2	29.46 - 34.46	13.65	14.28	14.40	14.62	14.67	13.92	14.68	15.67	13.74	13.47	14.04	14.60
WCMW-06S	2.0 - 12.0	13.40	14.01	14.18	14.07	14.35	13.60	14.38	14.76	14.39	13.24	13.77	13.71
WCMW-06I	19.55 - 24.55	13.31	13.99	14.07	14.04	14.34	13.65	14.42	14.91	14.50	13.20	13.72	13.74
WCMW-06I2	29.83 - 34.83	13.37	14.02	14.11	14.17	14.38	13.68	14.48	14.99	14.55	13.26	13.80	13.87
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I	18.9 - 23.9	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I2	28.95 - 33.95	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-08S	4.2 - 9.2	14.14	14.78	14.99	15.21	15.20	14.43	15.24	16.16	14.31	13.89	14.52	14.54
WCMW-08I	19.2 - 24.2	14.13	14.80	15.01	15.24	15.21	14.47	15.27	16.19	14.33	13.93	14.55	14.48
WCMW-08I2	26.9 - 31.9	14.11	14.79	14.99	15.22	15.23	14.44	15.28	16.20	14.35	13.92	14.56	14.55
WCMW-09S	5.0 - 15.0	13.94	14.60	14.75	15.03	15.03	14.30	15.08	15.98	14.13	13.73	14.34	14.64
WCMW-10S	15.0 - 20.0	13.69	14.37	14.53	14.78	14.72	14.05	14.78	15.76	13.88	13.64	14.13	14.14
WCMW-10D	40.0 - 50.0	13.74	14.37	13.52	14.78	14.71	13.99	14.82	15.76	13.89	13.47	14.16	14.11
WCMW-11S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.43	9.06	14.13
WCMW-11I	25.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.64	14.07	14.74
WCMW-11D	50.0 - 60.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.31	14.06	14.44
WCMW-12S	3.0 - 13.0	12.82	13.42	13.46	13.75	13.73	13.07	13.83	13.43	12.92	12.71	13.18	13.15
WCMW-12I	25.0 - 30.0	12.82	13.43	13.46	13.70	13.73	13.05	13.79	13.77	12.93	12.71	13.25	13.23
WCMW-12D	65.0 - 70.0	12.81	13.44	13.49	13.77	13.74	13.06	13.84	13.78	12.96	12.76	13.25	13.26
WCMW-13S	3.0 - 13.0	12.71	13.30	13.37	13.56	13.66	12.95	13.62	14.10	12.81	12.64	NC	11.35
WCMW-13I	25.0 - 30.0	12.74	13.33	13.41	13.62	13.60	12.97	13.69	14.46	12.95	12.75	NC	11.72
WCMW-13D	65.0 - 70.0	12.92	13.37	13.47	13.68	13.66	13.01	13.73	14.47	12.89	12.70	NC	11.68
WCMW-14S	2.0 - 12.0	13.80	14.20	14.34	14.49	14.24	12.84	14.30	15.30	13.39	13.17	13.71	13.73
WCMW-14I	20.0 - 25.0	13.50	14.15	14.25	14.33	14.52	13.79	14.19	14.82	13.60	13.38	14.03	14.01
WCMW-14I2	30.0 - 35.0	13.18	14.16	14.28	14.41	14.52	13.83	14.55	14.83	13.61	13.41	14.03	13.64
WCMW-14D	67.0 - 72.0	12.42	14.20	14.43	14.45	14.65	13.91	14.78	15.37	13.79	13.54	13.93	14.36
WCMW-18WT	2.0 - 7.0	NC	NC	NC	NC	15.18	14.51	15.10	15.95	14.22	13.61	14.40	14.34
WCMW-18S	2.0 - 12.0	NC	NC	NC	NC	15.13	14.43	15.10	16.05	14.22	13.83	14.45	14.49
WCMW-18I	20.0 - 25.0	NC	NC	NC	NC	15.17	14.43	15.11	16.06	14.21	13.81	14.48	14.48
WCMW-18I2	30.0 - 35.0	NC	NC	NC	NC	15.17	14.42	15.04	16.03	14.19	13.80	14.44	14.44
WCMW-19S	2.0 - 12.0	NC	NC	NC	NC	NC	14.71	15.56	16.63	14.62	14.15	14.81	14.79
WCMW-19I	20.0 - 25.0	NC	NC	NC	NC	NC	14.69	15.43	16.53	14.61	14.13	14.80	14.92
WCMW-19I2	30.0 - 35.0	NC	NC	NC	NC	NC	14.65	15.48	16.54	14.59	14.13	14.78	14.84
WCMW-22S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	14.86	15.90	NC	13.52	14.42	14.48
WCMW-22I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	14.78	15.76	NC	13.47	13.84	14.47
WCMW-23S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	15.62	NC	13.25	NC	NC
WCMW-23I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	15.64	NC	13.23	NC	NC
WCMW-25I	30.0 - 35.0	NC	NC	NC	NC	NC	NC	14.34	15.10	13.41	13.11	13.69	14.07
WCMW-25D	55.0 - 60.0	NC	NC	NC	NC	NC	NC	14.16	15.07	13.34	13.04	13.66	14.07
WCMW-26S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	16.27	17.37	NC	15.00	15.64	15.98
WCMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	16.83	17.91	NC	15.57	16.19	16.54
WCMW-26I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	17.13	18.16	NC	15.79	16.48	16.79
WCMW-29S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.64	14.24	14.23
WCMW-29I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.58	14.18	14.20

Table 3-8
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)					
		Jul-11	Oct-11	Jan-12	Minimum	Average	Maximum
WCMW-02S	3.0 - 13.0	12.87	12.71	13.32	12.25	13.21	14.50
WCMW-02I	34.5 - 44.5	12.82	12.64	13.24	12.28	13.19	14.56
WCMW-02D	62.0 - 72.0	12.86	12.85	13.40	12.34	13.25	14.64
WCMW-04S	1.5 - 11.5	13.89	14.71	14.16	13.10	14.17	15.67
WCMW-04I	19.0 - 24.0	13.80	14.60	13.99	13.10	14.15	15.63
WCMW-04I2	29.85 - 34.85	13.79	14.20	14.07	13.21	14.20	15.60
WCMW-05S	1.4 - 11.4	14.02	14.21	14.30	13.18	14.26	15.57
WCMW-05I	19.61 - 24.61	14.16	13.88	14.07	13.16	14.20	15.60
WCMW-05I2	29.46 - 34.46	14.43	14.01	14.07	13.17	14.25	15.67
WCMW-06S	2.0 - 12.0	NC	8.08	NC	8.08	13.57	14.76
WCMW-06I	19.55 - 24.55	13.59	8.19	NC	8.19	13.58	14.91
WCMW-06I2	29.83 - 34.83	13.59	8.36	NC	8.36	13.83	14.99
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC
WCMW-07I	18.9 - 23.9	NC	NC	NC	NC	NC	NC
WCMW-07I2	28.95 - 33.95	NC	NC	NC	NC	NC	NC
WCMW-08S	4.2 - 9.2	13.37	14.64	14.58	13.37	14.74	16.16
WCMW-08I	19.2 - 24.2	13.37	14.71	14.68	13.37	14.72	16.19
WCMW-08I2	26.9 - 31.9	13.44	14.67	14.73	13.44	14.76	16.20
WCMW-09S	5.0 - 15.0	NC	14.93	NC	13.64	14.64	15.98
WCMW-10S	15.0 - 20.0	14.07	13.81	14.14	13.47	14.45	17.44
WCMW-10D	40.0 - 50.0	14.04	13.89	14.15	13.42	14.40	17.36
WCMW-11S	5.0 - 15.0	NC	13.96	14.09	9.06	13.42	15.84
WCMW-11I	25.0 - 35.0	NC	14.29	14.11	13.64	14.45	15.84
WCMW-11D	50.0 - 60.0	NC	14.22	14.10	13.31	14.32	15.81
WCMW-12S	3.0 - 13.0	12.91	13.06	12.91	12.71	13.26	13.83
WCMW-12I	25.0 - 30.0	12.97	13.32	13.27	12.71	13.32	13.79
WCMW-12D	65.0 - 70.0	12.99	13.16	13.30	12.76	13.34	13.84
WCMW-13S	3.0 - 13.0	11.17	13.22	13.19	11.17	13.02	14.10
WCMW-13I	25.0 - 30.0	11.52	13.40	13.38	11.52	13.15	14.46
WCMW-13D	65.0 - 70.0	11.45	13.23	13.23	11.45	13.15	14.47
WCMW-14S	2.0 - 12.0	13.54	12.00	NC	12.00	13.84	15.30
WCMW-14I	20.0 - 25.0	13.76	11.93	NC	11.93	13.92	14.82
WCMW-14I2	30.0 - 35.0	13.74	11.93	NC	11.93	13.91	14.83
WCMW-14D	67.0 - 72.0	13.83	12.54	NC	12.42	14.05	15.37
WCMW-18WT	2.0 - 7.0	NC	14.17	14.49	13.61	14.60	15.95
WCMW-18S	2.0 - 12.0	NC	14.41	14.49	13.83	14.66	16.05
WCMW-18I	20.0 - 25.0	NC	14.51	14.50	13.81	14.68	16.06
WCMW-18I2	30.0 - 35.0	NC	14.47	14.49	13.80	14.65	16.03
WCMW-19S	2.0 - 12.0	14.59	14.77	14.80	14.15	14.94	16.63
WCMW-19I	20.0 - 25.0	14.58	15.04	14.81	14.13	14.95	16.53
WCMW-19I2	30.0 - 35.0	14.56	14.78	14.83	14.13	14.92	16.54
WCMW-22S	2.0 - 12.0	14.00	NC	NC	13.52	14.53	15.90
WCMW-22I	25.0 - 30.0	13.95	NC	NC	13.47	14.38	15.76
WCMW-23S	3.0 - 13.0	13.72	13.34	NC	13.25	13.98	15.62
WCMW-23I	25.0 - 30.0	13.73	13.36	NC	13.23	13.99	15.64
WCMW-25I	30.0 - 35.0	13.73	13.66	13.79	13.11	13.88	15.10
WCMW-25D	55.0 - 60.0	13.72	13.60	13.79	13.04	13.83	15.07
WCMW-26S	2.0 - 12.0	15.50	15.76	15.70	15.00	15.90	17.37
WCMW-26I	20.0 - 25.0	16.06	16.22	16.22	15.57	16.44	17.91
WCMW-26I2	30.0 - 35.0	16.31	16.61	16.45	15.79	16.72	18.16
WCMW-29S	2.0 - 12.0	13.99	14.09	14.25	13.64	14.07	14.25
WCMW-29I	20.0 - 25.0	14.01	14.06	14.24	13.58	14.05	14.24

Notes:
NC - Not Calculated
bgs - below ground surface
Well Elevations obtained from 2007 survey or later and reference NAVD 88 datum.

Table 4-1
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
BBMW-05D	64.0 - 74.0	--	--	1,523	943	--	0	600	--	--	1,890	--	--
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	16	0	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	--	0	0	--	--	--	--	--	0	--	--
BBMW-20S	4.0 - 14.0	--	--	--	15,140	--	6,190	11,700	--	--	10,876	--	10,120
BBMW-20I	35.0 - 45.0	--	--	--	40	--	193	170	--	--	110	--	142
BBMW-20D	62.0 - 72.0	--	--	--	3,505	--	9,639	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	--	--	--	13,610	--	25,800	6,030	20,000	25,200	12,960	13,800	21,300
BBMW-22I	30.0 - 40.0	--	--	--	36	--	25	22	--	28	13	--	--
BBMW-22D	64.0 - 74.0	--	--	--	8,600	--	5,028	6,297	--	--	2,370	--	--
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0 -68.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-36I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	361	15	19	26	--	--	--	45	20	0	0	33
MW-03D	35.0 - 45.0	0	0	0	0	--	--	--	--	--	0	--	--
MW-05S	4.0 - 14.0	17,180	27,000	20,430	24,320	--	34,290	46,300	--	--	21,660	--	--

Table 4-1
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
MW-05D	35.5 - 45.5	253	15	39	3	--	0	17	--	--	0	--	--
MW-09S	4.0 - 14.0	0	--	29	--	0	0	0	--	--	0	--	--
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S/22SR	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
BBMW-05D	64.0 - 74.0	--	680	--	--	--	890	1,267	3,150	553	1,597	613	21
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	--	0	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-20S	4.0 - 14.0	--	--	--	--	5,655	--	--	19,133	12,900	173	4,144	2,677
BBMW-20I	35.0 - 45.0	--	--	--	--	104	--	--	165	125	105	0	29
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	1,540	1,800	1,359
BBMW-22S	5.0 - 10.0	14,500	11,670	16,900	9,200	--	12,370	10,300	--	--	10,850	10,420	14,810
BBMW-22I	30.0 - 40.0	--	16	--	--	--	16	--	--	--	0	43	37
BBMW-22D	64.0 - 74.0	--	1,650	--	--	--	1,020	--	--	--	1,558	1,580	2,807
BBMW-26S	6.0 - 16.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-26I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-27S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0 -68.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-36I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	35	--	180	34	0	132	31	250	10	0	111	116
MW-03D	35.0 - 45.0	--	--	--	--	--	0	--	--	--	0	0	0
MW-05S	4.0 - 14.0	--	24,395	--	--	--	14,197	17,327	18,100	24,600	48,430	15,905	12,929

Table 4-1
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
MW-05D	35.5 - 45.5	--	0	--	--	--	12	0	0	0	0	18	22
MW-09S	4.0 - 14.0	0	--	--	--	--	0	--	--	--	0	0	0
MW-09I	30.0 - 40.0	--	--	--	--	--	0	--	--	--	0	0	2
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S/22SR	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1
Summary of Historical BTEX Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jul	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-05D	64.0 - 74.0	399	717	727	790	1,414	482	880	1,016	1,029	933	893	850
BBMW-05D2/D2R	126.5 - 136.5	--	0	--	--	--	7	--	--	--	--	--	0
BBMW-13D	62.0 - 72.0	0	0	--	--	--	0	--	--	--	0	2	0
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	13	8	5	6	8	8	3	5	10	12	10	3
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	7,150	5,816	7,340	9,140	10,770	10,730	7,820	9,600	10,010	9,920	9,280	7,350
BBMW-22I	30.0 - 40.0	32	31	32	38	42	43	111	199	170	164	257	218
BBMW-22D	64.0 - 74.0	3,126	2,356	3,126	4,810	2,835	2,314	4,329	4,010	1,692	921	1,893	1,972
BBMW-26S	6.0 - 16.0	0	0	--	--	--	0	--	--	--	0	--	--
BBMW-26I	30.0 - 40.0	--	0	--	--	--	8	--	--	--	0	--	--
BBMW-27S	5.0 - 15.0	0	0	0	0	0	0	0	1	0	0	0	0
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	0	--	--	0	--	--
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	749	885	634	696	843
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	3,109	3,547	2,360	2,714	3,757
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	196	192	174	219	229
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	8	0	0	0	0
BBMW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0 -68.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	0	0	0	0	0	0	0	--	7	8	24	7
BBMW-36I	25.0 - 30.0	0	0	0	0	0	0	0	--	0	0	0	0
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	49	9	3	4	186
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	9	7	10	6	9
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	7	8	7	6	6
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	9,755	5,970	8,580	3,341	5,362
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	0	0	0	210	0
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	1	0	0	0	0
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	5,069	5,987	1	10	6,390
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	5	12	26	12	0
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	3	0	0
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	37	19	4	0	1
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	6,819	2,192	4,407	3,773	3,099
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	2	1	0	0	0
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0
MW-03S	3.0 - 13.0	18	30	5	--	--	34	28	--	--	30	7	20
MW-03D	35.0 - 45.0	0	0	--	--	--	0	0	--	--	0	0	0
MW-05S	4.0 - 14.0	18,130	15,095	8,060	14,554	2,304	9,600	2,655	7,891	9,341	7,150	1,311	3,333

Table 4-1
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jul	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
MW-05D	35.5 - 45.5	0	0	0	7	5	26	29	22	15	7	14	25
MW-09S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-09I	30.0 - 40.0	--	4	--	--	--	0	--	--	--	0	0	4
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-48S	3.0 - 13.0	--	--	--	--	--	--	8	6	0	0	0	0
OU2MW-48I	25.0 - 30.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	0	0	1	0	0	0
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-50S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	2,082	308
OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	4,716	71
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	0
OZMW-16S	5.0 - 15.0	--	4,685	0	0	0	0	0	0	0	0	0	0
OZMW-16I	20.0 - 30.0	--	512	105	136	189	441	775	585	37	0	0	0
OZMW-16I2	35.0 - 45.0	--	3	4	8	2	12	92	686	468	464	558	855
OZMW-16D	55.0 - 65.0	--	0	0	0	0	0	0	0	0	0	0	0
OZMW-17S	5.0 - 15.0	--	1,664	78	52	25	141	17	337	35	0	0	0
OZMW-17I	20.0 - 30.0	--	1,316	82	23	40	74	42	67	9	0	0	0
OZMW-17I2	35.0 - 45.0	--	0	0	0	0	0	36	8	14	35	0	0
OZMW-17D	53.0 - 63.0	--	0	0	0	0	0	0	0	4	15	0	1
OZMW-18S	5.0 - 15.0	--	3,160	54	212	24	244	0	5	1	0	0	0
OZMW-18I	20.0 - 30.0	--	3,600	169	25	84	178	149	449	0	0	0	0
OZMW-18I2	35.0 - 45.0	--	201	95	57	123	129	50	104	63	7	5	1
OZMW-18D	55.0 - 65.0	--	77	31	79	147	216	94	389	612	384	424	186
OZMW-19S	5.0 - 15.0	--	--	--	--	--	--	--	--	391	0	86	73
OZMW-19I	20.0 - 30.0	--	--	--	--	--	--	--	--	1,143	992	973	914
OZMW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	827	1,105	1,332	1,111
OZMW-19D	55.0 - 65.0	--	--	--	--	--	--	--	--	76	14	0	49
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	8,270	4,406	5,400	6,960
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	428	542	342	446
OZMW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	145	134	115	177
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	10	6	14	12
OZMW-22S/22SR	5.0 - 15.0	--	7,077	7,480	7,381	6,074	11,947	5,605	6,942	4,305	--	3,477	4,121
OZMW-22I/22IR	20.0 - 30.0	--	0	0	0	0	607	43	17	8	--	564	214

Table 4-1
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jul	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
OZMW-22I2	35.0 - 45.0	--	--	--	--	0	2	0	0	0	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	0	0	0	0	0	--	--	--
OZMW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	3	0	0	0
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	8	0	0	0
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	11	1	0	0
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	20	33	24	0
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	25	13	13	5
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	22	0	0	0
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	140	143	191	143
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	1,595	1,387	1,164	721
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	1,691	1,724	2,883	3,070	2,365	2,226
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	198	248	257	310	291	355
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	91	177	158	141	196	306
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	0	0	0	0	0	0
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	44	18	5	24
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	9	0	0	0
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	393	159	48	100
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0

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Summary of Historical BTEX Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
BBMW-05D	64.0 - 74.0	884	1,211	1,041	14	4	99	0	3,150	900	0	3,150
BBMW-05D2/D2R	126.5 - 136.5	0	0	14	0	0	5	0	16	3	0	16
BBMW-13D	62.0 - 72.0	0	0	--	--	--	0	0	2	0	0	2
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	173	19,133	8,973	173	19,133
BBMW-20I	35.0 - 45.0	1	27	114	6	10	6	0	193	51	0	193
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	1,359	9,639	3,569	1,359	9,639
BBMW-22S	5.0 - 10.0	5,860	10,540	9,110	2,834	8,720	8,669	2,834	25,800	11,521	2,834	25,800
BBMW-22I	30.0 - 40.0	251	270	231	256	279	171	0	279	106	0	279
BBMW-22D	64.0 - 74.0	1,781	2,102	1,842	501	1,962	1,221	501	8,600	2,788	501	8,600
BBMW-26S	6.0 - 16.0	--	0	--	--	--	0	0	0	0	0	0
BBMW-26I	30.0 - 40.0	--	0	--	--	--	0	0	8	1	0	8
BBMW-27S	5.0 - 15.0	0	0	0	0	0	0	0	1	0	0	1
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	0	0	0	0	0
BBMW-34S	5.0 - 15.0	534	587	586	413	626	554	413	885	655	413	885
BBMW-34I	25.0 - 30.0	3,177	2,272	1,894	1,544	1,239	2,158	1,239	3,757	2,561	1,239	3,757
BBMW-34I2	40.0 - 45.0	283	171	154	135	82	101	82	283	184	82	283
BBMW-34D	65.0 - 70.0	0	0	14	0	0	3	0	14	2	0	14
BBMW-35S	5.0 - 15.0	--	0	0	0	0	0	0	0	0	0	0
BBMW-35I	25.0 - 30.0	--	0	0	0	0	0	0	0	0	0	0
BBMW-35I2	45.0 - 50.0	--	0	0	0	0	0	0	0	0	0	0
BBMW-35D	63.0 -68.0	--	0	2	0	0	0	0	2	1	0	2
BBMW-36S	5.0 - 15.0	6	6	0	6	0	7	0	24	2	0	24
BBMW-36I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0
BBMW-37S	5.0 - 10.0	--	--	--	--	271	251	271	271	271	251	271
BBMW-37I	20.0 - 30.0	--	--	--	--	1,082	1,208	1,082	1,082	1,082	1,082	1,208
BBMW-37I2	35.0 - 45.0	--	--	--	--	412	341	412	412	412	341	412
BBMW-37D	55.0 - 65.0	--	--	--	--	8	0	8	8	8	0	8
BBMW-38S	5.0 - 15.0	432	1	5	187	9	4	1	432	89	1	432
BBMW-38I	25.0 - 30.0	3	4	12	3	5	4	3	12	7	3	12
BBMW-38I2	40.0 - 45.0	4	11	6	4	11	8	4	11	7	4	11
BBMW-38D	65.0 - 70.0	0	0	0	0	12	0	0	12	1	0	12
BBMW-39S	5.0 - 15.0	5,720	3,615	3,430	3,365	10,700	11,900	3,341	10,700	5,984	3,341	11,900
BBMW-39I	25.0 - 30.0	0	2	0	1	35	0	0	210	25	0	210
BBMW-39I2	45.0 - 50.0	0	0	0	0	5	0	0	5	1	0	5
BBMW-39D	65.0 - 70.0	0	28	0	2	1	23	0	28	3	0	28
BBMW-40S	5.0 - 15.0	3,589	170	119	2,797	0	0	0	6,390	2,413	0	6,390
BBMW-40I	25.0 - 30.0	1	11	2	67	7	1	0	67	14	0	67
BBMW-40I2	45.0 - 50.0	0	0	15	0	622	2,478	0	622	64	0	2,478
BBMW-40D	70.0 - 75.0	0	0	0	0	0	0	0	37	6	0	37
BBMW-41S	6.0 - 16.0	1,856	2,819	11,320	5,325	4,689	4,410	1,856	11,320	4,630	1,856	11,320
BBMW-41I	25.0 - 30.0	0	0	56	348	0	0	0	348	40	0	348
BBMW-41I2	45.0 - 50.0	0	0	0	0	0	0	0	2	0	0	2
BBMW-41D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0
MW-03S	3.0 - 13.0	12	4	15	1	29	16	0	361	50	0	361
MW-03D	35.0 - 45.0	--	0	--	--		0	0	0	0	0	0
MW-05S	4.0 - 14.0	6,653	8,398	5,165	4,901	7,344	5,832	1,311	48,430	15,592	1,311	48,430

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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
MW-05D	35.5 - 45.5	15	17	343	457	19	14	0	457	43	0	457
MW-09S	4.0 - 14.0	0	0	0	0	0	0	0	29	1	0	29
MW-09I	30.0 - 40.0	--	0	--	--	--	0	0	4	1	0	4
MW-09I2	45.0 - 50.0	--	0	--	--	--	0	0	0	0	0	0
MW-09D	65.0 - 70.0	--	0	--	--	--	0	0	0	0	0	0
OU2MW-48S	3.0 - 13.0	0	0	0	0	0	0	0	8	1	0	8
OU2MW-48I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-48I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-48D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-49S	3.0 - 13.0	0	0	0	0	0	0	0	1	0	0	1
OU2MW-49I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-49I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-49D	63.0 - 68.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-50S	5.0 - 15.0	--	274	239	0	0	39	0	274	128	0	274
OU2MW-50I	25.0 - 30.0	--	1	0	1	0	0	0	1	1	0	1
OU2MW-50I2	45.0 - 50.0	--	0	2	0	0	0	0	2	1	0	2
OU2MW-50D	65.0 - 70.0	--	0	0	0	0	0	0	0	0	0	0
OU2MW-51S	5.0 - 15.0	--	7	6	7	9	6	6	9	7	6	9
OU2MW-51I	25.0 - 30.0	--	0	0	0	0	0	0	0	0	0	0
OU2MW-51I2	45.0 - 50.0	--	3	0	0	0	0	0	3	1	0	3
OU2MW-51D	61.0 - 66.0	--	0	0	0	0	0	0	0	0	0	0
OU2MW-57S	5.0 - 15.0	310	242	322	98	174	97	98	2,082	505	97	2,082
OU2MW-57I	20.0 - 30.0	44	32	114	0	0	28	0	4,716	711	0	4,716
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0
OZMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	4,685	293	0	4,685
OZMW-16I	20.0 - 30.0	44	8	1	18	0	1	0	775	178	0	775
OZMW-16I2	35.0 - 45.0	634	683	671	603	88	466	2	855	364	2	855
OZMW-16D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0
OZMW-17S	5.0 - 15.0	0	0	0	0	0	0	0	1,664	147	0	1,664
OZMW-17I	20.0 - 30.0	0	0	0	0	0	0	0	1,316	103	0	1,316
OZMW-17I2	35.0 - 45.0	0	5	0	0	0	0	0	36	6	0	36
OZMW-17D	53.0 - 63.0	0	0	0	0	23	15	0	23	3	0	23
OZMW-18S	5.0 - 15.0	0	0	0	0	0	0	0	3,160	231	0	3,160
OZMW-18I	20.0 - 30.0	0	0	0	0	0	0	0	3,600	291	0	3,600
OZMW-18I2	35.0 - 45.0	6	0	0	0	4	7	0	201	53	0	201
OZMW-18D	55.0 - 65.0	222	273	158	218	204	274	31	612	232	31	612
OZMW-19S	5.0 - 15.0	493	698	137	4	41	1,792	0	698	214	0	1,792
OZMW-19I	20.0 - 30.0	689	664	670	606	413	647	413	1,143	785	413	1,143
OZMW-19I2	35.0 - 45.0	924	697	608	1,188	353	528	353	1,332	905	353	1,332
OZMW-19D	55.0 - 65.0	17	17	20	9	68	0	0	76	30	0	76
OZMW-21S	5.0 - 15.0	6,730	6,730	7,540	2,903	5,420	5,330	2,903	8,270	6,040	2,903	8,270
OZMW-21I	20.0 - 30.0	465	418	407	459	365	453	342	542	430	342	542
OZMW-21I2	35.0 - 45.0	153	175	112	190	175	102	112	190	153	102	190
OZMW-21D	55.0 - 65.0	3	5	4	10	7	0	3	14	8	0	14
OZMW-22S/22SR	5.0 - 15.0	1,075	1,251	435	614	405	469	405	11,947	4,546	405	11,947
OZMW-22I/22IR	20.0 - 30.0	24	15	0	23	216	191	0	607	115	0	607

Table 4-1
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	0	2	0	0	2
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	0	0	0	0	0
OZMW-23S	5.0 - 15.0	0	0	0	0	0	0	0	3	0	0	3
OZMW-23I	20.0 - 30.0	0	0	0	0	0	1	0	8	1	0	8
OZMW-23I2	35.0 - 45.0	0	2	0	0	0	0	0	11	2	0	11
OZMW-23D	55.0 - 65.0	0	0	0	0	0	0	0	33	9	0	33
OZMW-24S	5.0 - 15.0	4	6	0	1	2	0	0	25	8	0	25
OZMW-24I	20.0 - 30.0	0	0	0	0	0	24	0	22	2	0	24
OZMW-24I2	35.0 - 45.0	129	158	131	111	674	220	111	674	202	111	674
OZMW-24D	55.0 - 65.0	876	1,525	1,394	1,215	1,034	984	721	1,595	1,212	721	1,595
OZMW-25S	5.0 - 15.0	1,145	1,015	2,444	774	1,180	1,468	774	3,070	1,865	774	3,070
OZMW-25I	20.0 - 30.0	340	285	409	370	416	477	198	416	316	198	477
OZMW-25I2	35.0 - 45.0	149	100	152	239	37	41	37	306	159	37	306
OZMW-25D	55.0 - 65.0	0	0	17	0	0	0	0	17	2	0	17
OZMW-26S	5.0 - 15.0	11	5	0	0	0	0	0	44	12	0	44
OZMW-26I	20.0 - 30.0	0	0	0	7	9	29	0	9	3	0	29
OZMW-26I2	35.0 - 45.0	200	155	26	47	89	35	26	393	135	26	393
OZMW-26D	55.0 - 65.0	0	0	1	0	1	0	0	1	0	0	1

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-2
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
BBMW-05D	64.0 - 74.0	--	--	3,249	4,181	--	2,247	1,800	--	--	3,187	--	--
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	147	0	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	--	0	40	--	--	--	--	--	0	--	--
BBMW-20S	4.0 - 14.0	--	--	--	2,248	--	3,080	15,000	--	--	3,408	--	1,758
BBMW-20I	35.0 - 45.0	--	--	--	7,134	--	7,900	7,400	--	--	6,939	--	6,956
BBMW-20D	62.0 - 72.0	--	--	--	14,594	--	7,300	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	--	--	--	3,954	--	3,700	2,500	3,608	--	2,400	2,042	4,460
BBMW-22I	30.0 - 40.0	--	--	--	8,810	--	8,000	3,500	--	--	7,240	--	--
BBMW-22D	64.0 - 74.0	--	--	--	11,436	--	8,808	5,300	--	--	145,100	--	--
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0-68.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	620	17	1,425	104	--	--	--	120	20	0	28	25
MW-03D	35.0 - 45.0	0	0	0	0	--	--	--	--	--	184	--	--
MW-05S	4.0 - 14.0	5,514	2,360	2,964	2,682	--	2,100	1,600	--	--	2,783	--	--

Table 4-2
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
MW-05D	35.5 - 45.5	4,292	3,959	4,944	2,501	--	4,560	2,600	--	--	3,214	--	--
MW-09S	4.0 - 14.0	0	--	0	--	0	74	0	--	--	0	--	--
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	65.0-70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0-66.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S/22SR	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
BBMW-05D	64.0 - 74.0	--	3,109	--	--	--	2,924	352	4,492	2,386	2,371	1,233	40
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	--	0	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-20S	4.0 - 14.0	--	--	--	--	2,483	--	--	1,365	2,179	1,819	1,343	860
BBMW-20I	35.0 - 45.0	--	--	--	--	8,636	--	--	7,722	5,749	7,160	2,189	2,033
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	2,289	4,688	5,460
BBMW-22S	5.0 - 10.0	4,780	2,640	143	4,549	--	4,131	2,214	--	--	1,634	2,931	3,629
BBMW-22I	30.0 - 40.0	--	5,865	--	--	--	7,114	--	--	--	4,696	4,283	4,879
BBMW-22D	64.0 - 74.0	--	4,418	--	--	--	6,288	--	--	--	2,725	3,310	5,374
BBMW-26S	6.0 - 16.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-26I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	0	1
BBMW-27S	5.0 - 15.0	--	--	--	--	--	0	--	--	--	0	0	0
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0-68.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	0	--	0	21	0	25	11	0	0	0	0	9
MW-03D	35.0 - 45.0	--	--	--	--	--	0	--	--	--	0	0	0
MW-05S	4.0 - 14.0	--	2,144	--	--	--	2,220	1,647	2,493	1,652	1,647	1,294	1,630

Table 4-2
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
MW-05D	35.5 - 45.5	--	2,842	--	--	--	2,456	435	1,984	3,122	1,113	142	55
MW-09S	4.0 - 14.0	0	--	--	--	--	0	--	--	--	0	0	0
MW-09I	30.0 - 40.0	--	--	--	--	--	0	--	--	--	0	0	2
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	65.0-70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0-66.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S/22SR	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2
Summary of Historical Total PAH Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-05D	64.0 - 74.0	930	981	1,203	1,555	1,165	786	2,767	186	1,704	2,711	1,400	2,098
BBMW-05D2/D2R	126.5 - 136.5	--	0	--	--	--	0	--	--	--	--	--	0
BBMW-13D	62.0 - 72.0	0	0	--	--	--	0	--	--	--	0	0	0
BBMW-20S	4.0 - 14.0	--	--	--	--	--	0	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	452	75	48	348	165	1,150	137	657	78	157	37	471
BBMW-20D	62.0 - 72.0	--	--	--	--	--	0	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	3,189	24	25	1,961	1,972	1,664	986	2,329	3,239	4,564	3,290	3,210
BBMW-22I	30.0 - 40.0	5,212	5,536	4,290	4,686	4,680	4,949	6,539	4,155	5,071	5,634	6,469	4,653
BBMW-22D	64.0 - 74.0	8,516	4,257	4,894	6,442	5,681	5,140	8,539	5,411	3,812	4,425	4,301	5,276
BBMW-26S	6.0 - 16.0	24	0	--	--	--	0	--	--	--	0	--	--
BBMW-26I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	--	--
BBMW-27S	5.0 - 15.0	0	0	0	2	0	0	0	0	0	0	0	0
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	0	--	--	0	--	--
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	969	524	612	440	468
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	2,223	1,887	3,283	1,592	2,562
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	2,033	2,126	2,219	1,643	1,534
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	478	256	237	148	120
BBMW-35S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0-68.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	2	2	23
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	13	14	0	25	50
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	131	1,075	732	660	212
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	706	931	211	574	116
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	914	488	1,627	18	761
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	45	1	0	231	2
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	1,322	73	0	0	4,533
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	51	3	24	8	25
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	3,264	623	1,532	5	764
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	0	4	0	0	0
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	0	4	0	0	0
MW-03S	3.0 - 13.0	0	0	0	--	--	0	0	--	--	1	0	3
MW-03D	35.0 - 45.0	2	0	--	--	--	0	0	--	--	0	0	0
MW-05S	4.0 - 14.0	1,431	1,699	144	1,306	7	1,052	1	226	1,879	2,080	309	1,279

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Summary of Historical Total PAH Groundwater Analytical Results
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Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
MW-05D	35.5 - 45.5	741	2,644	390	1,988	107	232	9	138	711	809	742	1,996
MW-09S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-09I	30.0 - 40.0	--	4	--	--	--	0	--	--	--	0	0	0
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-48S	3.0 - 13.0	--	--	--	--	--	--	3	4	0	0	0	0
OU2MW-48I	25.0 - 30.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-50S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	65.0-70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0-66.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	375	70
OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	72	0
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	0
OZMW-16S	5.0 - 15.0	--	830	2	0	0	0	0	0	0	0	0	0
OZMW-16I	20.0 - 30.0	--	1,447	39	22	440	153	72	1,167	31	0	0	0
OZMW-16I2	35.0 - 45.0	--	0	219	0	159	6	178	2,002	2,844	160	809	171
OZMW-16D	55.0 - 65.0	--	1	0	0	0	0	0	1	1	0	0	0
OZMW-17S	5.0 - 15.0	--	1,963	1	0	0	0	0	0	1	0	0	0
OZMW-17I	20.0 - 30.0	--	5,197	5	0	0	0	12	0	3	0	0	0
OZMW-17I2	35.0 - 45.0	--	7	0	2	0	0	62	0	7	6	0	0
OZMW-17D	53.0 - 63.0	--	27	0	0	3	2	0	4	65	391	12	5
OZMW-18S	5.0 - 15.0	--	569	15	0	2	0	0	0	0	0	0	0
OZMW-18I	20.0 - 30.0	--	2,312	625	7	600	9	149	68	15	1	0	0
OZMW-18I2	35.0 - 45.0	--	8,178	7,353	11,417	10,065	7,728	8,917	10,984	7,375	676	88	36
OZMW-18D	55.0 - 65.0	--	1,684	461	0	1,279	435	1,166	1,586	2,031	1,515	629	890
OZMW-19S	5.0 - 15.0	--	--	--	--	--	--	--	--	409	44	74	241
OZMW-19I	20.0 - 30.0	--	--	--	--	--	--	--	--	4,299	2,849	2,632	2,982
OZMW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	5,346	4,551	1,409	4,346
OZMW-19D	55.0 - 65.0	--	--	--	--	--	--	--	--	471	485	0	245
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	4,403	2,697	3,466	5,177
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	4,402	6,135	5,202	5,315
OZMW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	4,012	5,131	4,742	5,972
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	952	933	707	684
OZMW-22S/22SR	5.0 - 15.0	--	2,191	2,555	1,449	1,684	1,850	971	2,406	1,108	--	1,347	1,588
OZMW-22I/22IR	20.0 - 30.0	--	0	0	1	0	95	0	3	7	--	220	4

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Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
OZMW-22I2	35.0 - 45.0	--	0	0	0	0	0	0	0	0	--	--	--
OZMW-22D	55.0 - 65.0	--	0	0	0	49	0	0	0	0	--	--	--
OZMW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	25	0	1	0
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	6	0	0	0
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	38	51	26	3
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	6	0	160	0
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	4,805	5,033	5,122	3,128
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	5,323	4,857	5,198	2,399
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	4,595	3,968	3,480	2,919	3,550	3,504
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	3,276	849	4,046	3,756	3,252	292
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	29	51	162	482	730	162
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	0	0	54	96	33	0
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	1	0	0	3
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	60	23	0	0
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	7	0	0

Table 4-2
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
BBMW-05D	64.0 - 74.0	1,556	2,751	2,004	0	0	78	0	4,492	1,846	0	4,492
BBMW-05D2/D2R	126.5 - 136.5	0	0	0	0	0	0	0	147	13	0	147
BBMW-13D	62.0 - 72.0	0	0	--	--	--	1	0	40	3	0	40
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	0	15,000	2,962	0	15,000
BBMW-20I	35.0 - 45.0	15	516	47	1	497	633	1	8,636	2,667	1	8,636
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	0	14,594	5,722	0	14,594
BBMW-22S	5.0 - 10.0	2,584	2,744	4,284	1,574	576	3,388	24	4,780	2,652	24	4,780
BBMW-22I	30.0 - 40.0	5,761	5,237	6,417	5,304	4,215	7,155	3,500	8,810	5,508	3,500	8,810
BBMW-22D	64.0 - 74.0	4,413	4,434	7,346	5,996	4,744	5,388	2,725	145,100	11,015	2,725	145,100
BBMW-26S	6.0 - 16.0	--	0	--	--	--	0	0	24	2	0	24
BBMW-26I	30.0 - 40.0	--	0	--	--	--	0	0	1	0	0	1
BBMW-27S	5.0 - 15.0	0	0	0	0	0	0	0	2	0	0	2
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	0	0	0	0	0
BBMW-34S	5.0 - 15.0	409	556	435	195	370	540	195	969	498	195	969
BBMW-34I	25.0 - 30.0	2,390	2,175	2,922	2,783	2,428	3,307	1,592	3,283	2,425	1,592	3,307
BBMW-34I2	40.0 - 45.0	2,080	2,040	2,335	2,139	2,087	1,907	1,534	2,335	2,024	1,534	2,335
BBMW-34D	65.0 - 70.0	109	239	85	54	49	335	49	478	178	49	478
BBMW-35S	5.0-15.0	--	0	0	0	0	0	0	0	0	0	0
BBMW-35I	25.0-30.0	--	0	0	0	0	0	0	0	0	0	0
BBMW-35I2	45.0-50.0	--	0	0	0	0	0	0	0	0	0	0
BBMW-35D	63.0-68.0	--	0	0	0	0	0	0	0	0	0	0
BBMW-36S	5.0 - 15.0	3	4	3	0	0	0	0	23	4	0	23
BBMW-36I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0
BBMW-37S	5.0 - 10.0	--	--	--	--	520	270	520	520	520	270	520
BBMW-37I	20.0 - 30.0	--	--	--	--	2,506	1,655	2,506	2,506	2,506	1,655	2,506
BBMW-37I2	35.0 - 45.0	--	--	--	--	1,219	1,234	1,219	1,219	1,219	1,219	1,234
BBMW-37D	55.0 - 65.0	--	--	--	--	7	0	7	7	7	0	7
BBMW-38S	5.0 - 15.0	69	4	6	14	5	2	0	69	20	0	69
BBMW-38I	25.0 - 30.0	691	761	275	365	468	653	131	1,075	537	131	1,075
BBMW-38I2	40.0 - 45.0	202	402	603	759	167	983	116	931	467	116	983
BBMW-38D	65.0 - 70.0	0	0	0	2	0	0	0	2	0	0	2
BBMW-39S	5.0 - 15.0	150	0	1,344	1,220	405	2,988	0	1,627	693	0	2,988
BBMW-39I	25.0 - 30.0	0	78	4	29	14	39	0	231	40	0	231
BBMW-39I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
BBMW-39D	65.0 - 70.0	0	0	0	0	0	3	0	0	0	0	3
BBMW-40S	5.0 - 15.0	899	0	8	3,314	0	0	0	4,533	1,015	0	4,533
BBMW-40I	25.0 - 30.0	5	37	13	100	17	34	3	100	28	3	100
BBMW-40I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
BBMW-40D	70.0 - 75.0	0	0	0	0	0	0	0	0	0	0	0
BBMW-41S	6.0 - 16.0	0	421	2,372	3,693	782	1,449	0	3,693	1,346	0	3,693
BBMW-41I	25.0 - 30.0	0	0	28	47	0	0	0	47	8	0	47
BBMW-41I2	45.0 - 50.0	0	0	0	0	0	0	0	4	0	0	4
BBMW-41D	65.0 - 70.0	0	0	0	0	0	0	0	4	0	0	4
MW-03S	3.0 - 13.0	0	0	2	0	2	2	0	1,425	74	0	1,425
MW-03D	35.0 - 45.0	--	0	--	--		0	0	184	11	0	184
MW-05S	4.0 - 14.0	1,149	1,076	582	1,807	17	1,680	1	5,514	1,587	1	5,514

Table 4-2
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
MW-05D	35.5 - 45.5	1,039	1,094	1,064	2,620	789	2,242	9	4,944	1,729	9	4,944
MW-09S	4.0 - 14.0	0	0	0	0	0	0	0	74	3	0	74
MW-09I	30.0 - 40.0	--	0	--	--	--	0	0	4	1	0	4
MW-09I2	45.0 - 50.0	--	0	--	--	--	0	0	0	0	0	0
MW-09D	65.0 - 70.0	--	0	--	--	--	0	0	0	0	0	0
OU2MW-48S	3.0 - 13.0	0	0	0	0	0	0	0	4	1	0	4
OU2MW-48I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-48I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-48D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-49S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-49I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-49I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-49D	63.0 - 68.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-50S	5.0-15.0	--	120	95	0	0	9	0	120	54	0	120
OU2MW-50I	25.0-30.0	--	0	0	9	4	1	0	9	3	0	9
OU2MW-50I2	45.0-50.0	--	0	2	0	0	0	0	2	1	0	2
OU2MW-50D	65.0-70.0	--	0	0	0	0	0	0	0	0	0	0
OU2MW-51S	5.0-15.0	--	0	0	26	19	0	0	26	11	0	26
OU2MW-51I	25.0-30.0	--	0	0	0	0	0	0	0	0	0	0
OU2MW-51I2	45.0-50.0	--	0	0	0	0	0	0	0	0	0	0
OU2MW-51D	61.0-66.0	--	1	0	0	2	0	0	2	1	0	2
OU2MW-57S	5.0 - 15.0	268	3	235	127	0	94	0	375	154	0	375
OU2MW-57I	20.0 - 30.0	0	0	16	0	18	13	0	72	15	0	72
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0
OZMW-16S	5.0 - 15.0	0	0	0	0	2	0	0	830	52	0	830
OZMW-16I	20.0 - 30.0	0	3	0	8	5	0	0	1,447	212	0	1,447
OZMW-16I2	35.0 - 45.0	422	5,792	1,195	3,138	542	2,192	0	5,792	1,102	0	5,792
OZMW-16D	55.0 - 65.0	0	11	2	24	68	18	0	68	7	0	68
OZMW-17S	5.0 - 15.0	1	0	0	0	0	0	0	1,963	123	0	1,963
OZMW-17I	20.0 - 30.0	0	0	0	0	0	1	0	5,197	326	0	5,197
OZMW-17I2	35.0 - 45.0	0	9	0	0	9	2	0	62	6	0	62
OZMW-17D	53.0 - 63.0	5	8	8	10	725	345	0	725	79	0	725
OZMW-18S	5.0 - 15.0	0	0	0	0	0	0	0	569	37	0	569
OZMW-18I	20.0 - 30.0	0	0	0	0	0	0	0	2,312	237	0	2,312
OZMW-18I2	35.0 - 45.0	30	249	0	0	12	56	0	11,417	4,569	0	11,417
OZMW-18D	55.0 - 65.0	1,328	1,642	594	2,635	1,907	2,913	0	2,635	1,236	0	2,913
OZMW-19S	5.0 - 15.0	214	1,016	242	55	244	881	44	1,016	282	44	1,016
OZMW-19I	20.0 - 30.0	3,529	2,814	2,048	2,065	2,708	4,325	2,048	4,299	2,881	2,048	4,325
OZMW-19I2	35.0 - 45.0	382	4,856	1,761	7,531	272	2,016	272	7,531	3,384	272	7,531
OZMW-19D	55.0 - 65.0	398	557	178	661	75	36	0	661	341	0	661
OZMW-21S	5.0 - 15.0	5,130	5,292	6,351	2,966	6,618	6,333	2,697	6,618	4,678	2,697	6,618
OZMW-21I	20.0 - 30.0	6,052	4,487	6,915	5,702	2,458	4,873	2,458	6,915	5,185	2,458	6,915
OZMW-21I2	35.0 - 45.0	5,259	2,648	6,727	5,458	5,163	5,757	2,648	6,727	5,012	2,648	6,727
OZMW-21D	55.0 - 65.0	494	332	409	453	195	157	195	952	573	157	952
OZMW-22S/22SR	5.0 - 15.0	6	6	110	61	1	122	1	2,555	1,156	1	2,555
OZMW-22I/22IR	20.0 - 30.0	0	1	0	20	1	89	0	220	23	0	220

Table 4-2
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	0	0	0	0	0
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	0	49	6	0	49
OZMW-23S	5.0 - 15.0	0	0	1	1	1	0	0	25	3	0	25
OZMW-23I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0
OZMW-23I2	35.0 - 45.0	0	7	0	0	0	0	0	7	1	0	7
OZMW-23D	55.0 - 65.0	3	0	1	0	0	3	0	51	14	0	51
OZMW-24S	5.0 - 15.0	0	5	47	9	8	17	0	160	26	0	160
OZMW-24I	20.0 - 30.0	0	0	0	0	0	208	0	0	0	0	208
OZMW-24I2	35.0 - 45.0	3,405	4,719	5,641	5,416	1,228	3,527	1,228	5,641	4,277	1,228	5,641
OZMW-24D	55.0 - 65.0	3,219	3,383	5,508	3,042	4,121	3,300	2,399	5,508	4,117	2,399	5,508
OZMW-25S	5.0 - 15.0	6,452	79	3,783	4,336	237	3,228	79	6,452	3,355	79	6,452
OZMW-25I	20.0 - 30.0	6,045	1,886	3,289	3,887	1,857	3,721	292	6,045	2,949	292	6,045
OZMW-25I2	35.0 - 45.0	881	588	585	1,040	149	322	29	1,040	442	29	1,040
OZMW-25D	55.0 - 65.0	69	82	100	47	73	85	0	100	50	0	100
OZMW-26S	5.0 - 15.0	2	4	2	1	1	5	0	4	2	0	5
OZMW-26I	20.0 - 30.0	0	0	0	0	0	52	0	0	0	0	52
OZMW-26I2	35.0 - 45.0	176	61	0	41	163	54	0	176	58	0	176
OZMW-26D	55.0 - 65.0	0	0	5	1	4	0	0	7	2	0	7

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-3
Summary of BTEX, MTBE, and Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-05D	BBMW-05D2R	BBMW-13D	BBMW-20I	BBMW-22S	BBMW-22I	BBMW-22D	MW-03S	MW-03D
Screened/Sample Interval:		64-74 ft	127-137 ft	62-72 ft	35-45 ft	5-10 ft	30-40 ft	64-74 ft	3-13 ft	35-45 ft
Sample Date:		1/12/2012	1/12/2012	1/12/2012	1/12/2012	1/12/2012	1/12/2012	1/12/2012	1/24/2012	1/24/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	**69**	**110**	**1**	**1**	1 U
Toluene	5	**8**	1 U	1 U	1 U	**200**	**14**	**240**	1 U	1 U
Ethylbenzene	5	**37**	**2**	1 U	**1**	**3500**	**22**	**120**	**10**	1 U
Total Xylene	5	**54**	**3**	1 U	**5**	**4900**	**25**	**860**	**5**	1 U
Total BTEX	NE	**99**	**5**	ND	**6**	**8669**	**171**	**1221**	**16**	ND
Other VOCs (µg/L)										
Methyl tert-butyl ether	10*	**2**	10 U	10 U	**3**	10 U	10 U	10 U	10 U	10 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	**1 J**	10 U	10 U	**4 J**	**120 J**	**230 J**	**14**	10 U	10 U
Acenaphthylene	NE	**4 J**	10 U	10 U	**60**	**70**	**18**	**210 J**	10 U	10 U
Anthracene	50*	**2 J**	10 U	10 U	**2 J**	**8**	**7**	**9**	10 U	10 U
Benzo[g,h,i]perylene	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	**3 J**	**2 J**	**3 J**	10 U	10 U
Fluorene	50*	**3 J**	10 U	10 U	**10**	**45**	**49**	**45**	10 U	10 U
2-Methylnaphthalene	NE	**7**	10 U	10 U	**86 J**	**490 J**	**1300**	**650**	10 U	10 U
Naphthalene	10*	**51**	10 U	**1 J**	**460**	**2600**	**5500**	**4400**	**2 J**	10 U
Phenanthrene	50*	**9**	10 U	10 U	**11**	**48**	**47**	**53**	10 U	10 U
Pyrene	50*	**1 J**	10 U	10 U	10 U	**4 J**	**2 J**	**4 J**	10 U	10 U
Total Non-carcinogenic PAHs	NE	**78**	ND	**1**	**633**	**3388**	**7155**	**5388**	**2**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**78**	ND	**1**	**633**	**3388**	**7155**	**5388**	**2**	ND

Table 4-3
Summary of BTEX, MTBE, and Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		MW-05S	MW-05D	MW-09S	MW-09I	MW-09I2	MW-09D
Screened/Sample Interval:		4-14 ft	35.5-45.5 ft	4-14 ft	30-40 ft	45-50 ft	65-70 ft
Sample Date:		3/1/2012	3/1/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012
Parent Sample:							
BTEX (µg/L)							
Benzene	1	**21**	**2**	1 U	1 U	1 U	1 U
Toluene	5	**11**	**1**	1 U	1 U	1 U	1 U
Ethylbenzene	5	**2600 D**	**3**	1 U	1 U	1 U	1 U
Total Xylene	5	**3200 D**	**8**	1 U	1 U	1 U	1 U
Total BTEX	NE	**5832**	**14**	ND	ND	ND	ND
Other VOCs (µg/L)							
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	**3 J**
Non-carcinogenic PAHs (µg/L)							
Acenaphthene	20*	**46**	**140 DJ**	10 U	10 U	10 U	10 U
Acenaphthylene	NE	**18**	**250 D**	10 U	10 U	10 U	10 U
Anthracene	50*	**6 J**	**10**	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
Fluoranthene	50*	**2 J**	**3 J**	10 U	10 U	10 U	10 U
Fluorene	50*	**26**	**53**	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	**250 D**	**1100 D**	10 U	10 U	10 U	10 U
Naphthalene	10*	**1300 D**	**630 D**	10 U	10 U	10 U	10 U
Phenanthrene	50*	**30**	**52**	10 U	10 U	10 U	10 U
Pyrene	50*	**2 J**	**4 J**	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	**1680**	**2242**	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)							
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)							
Total PAHs	NE	**1680**	**2242**	ND	ND	ND	ND

Notes for groundwater tables are compiled at the end of the tables in this section.

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-26S	BBMW-26I	BBMW-27S	DUP-08 Q1	BBMW-27I	BBMW-34S	BBMW-34I	BBMW-34I2	BBMW-34D
Screened/Sample Interval:		6-16 ft	30-40 ft	5-15 ft	5-15 ft	30-40 ft	5-15 ft	25-30 ft	40-45 ft	65-70 ft
Sample Date:		1/25/2012	1/25/2012	1/25/2012	1/25/2012	1/25/2012	1/17/2012	1/17/2012	1/17/2012	1/17/2012
Parent Sample:					BBMW-27S					
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	**73**	**84**	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	**5**	**14**	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	**370**	**1100**	**48**	**3**
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	**31**	**610**	**36**	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	**75**	**350**	**17**	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	**554**	**2158**	**101**	**3**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	**1**
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	R	R	R	R	R	R	R	R
Ethanol	NE	R	R	R	R	R	R	R	R	R
n-Heptane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	**27**	**30**	**6**	1 U

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-26S	BBMW-26I	BBMW-27S	DUP-08 Q1	BBMW-27I	BBMW-34S	BBMW-34I	BBMW-34I2	BBMW-34D
Screened/Sample Interval:		6-16 ft	30-40 ft	5-15 ft	5-15 ft	30-40 ft	5-15 ft	25-30 ft	40-45 ft	65-70 ft
Sample Date:		1/25/2012	1/25/2012	1/25/2012	1/25/2012	1/25/2012	1/17/2012	1/17/2012	1/17/2012	1/17/2012
Parent Sample:					BBMW-27S					
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 UJ	10 U	**3 J**	10 U	**1 J**	**5 J**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	**800**	**1700**	**610**	**20**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	R	R	R	R
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	**8**	**8**	**2**	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	**5**	**14**	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U	**1**	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	**100**	**180**	**35**	**2**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	**35 J**	**89 J**	**22 J**	1 UJ
2,2,4-Trimethylpentane	NE	10 UJ	**1 J**	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Vinyl acetate	NE	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	**66**	**170 J**	**160**	**5 J**
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	**32**	**29**	**20**
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	**4 J**	**39 J**	**21**	**11 J**
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	**1 J**	**2 J**
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	**2 J**	**31 J**	**5**	**20 J**
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	**32**	**110 J**	**65**	**31 J**
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	**1400**	**1200**	**54**
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	**400**	**1200 J**	**310**	**23 J**
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	**33**	**200 J**	**79**	**99 J**
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	**3 J**	**51 J**	**18**	**31 J**
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	**540**	**3236**	**1888**	**296**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	**21 J**	**6**	**12 J**
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	**11**	**3 J**	**6**
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	**1 J**	**2 J**
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	**10**	**3 J**	**5**
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	**20**	**6**	**12**
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U	**2 J**
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	**71**	**19**	**39**
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	**540**	**3307**	**1907**	**335**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-26S	BBMW-26I	BBMW-27S	DUP-08 Q1	BBMW-27I	BBMW-34S	BBMW-34I	BBMW-34I2	BBMW-34D
Screened/Sample Interval:		6-16 ft	30-40 ft	5-15 ft	5-15 ft	30-40 ft	5-15 ft	25-30 ft	40-45 ft	65-70 ft
Sample Date:		1/25/2012	1/25/2012	1/25/2012	1/25/2012	1/25/2012	1/17/2012	1/17/2012	1/17/2012	1/17/2012
Parent Sample:					BBMW-27S					
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Alkalinity	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-35S	DUP-04 Q1	BBMW-35I	BBMW-35I2	BBMW-35D	BBMW-36S	BBMW-36I	DUP-03 Q1	BBMW-37S
Screened/Sample Interval:		5-15 ft	5-15 ft	25-30 ft	45-50 ft	63-68 ft	5-15 ft	25-30 ft	25-30 ft	5-10 ft
Sample Date:		1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/12/2012	1/12/2012	1/12/2012	1/17/2012
Parent Sample:			BBMW-35S						BBMW-36I	
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4**
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	**5**	1 U	1 U	**160**
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**7**
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U	**80**
Total BTEX	NE	ND	ND	ND	ND	ND	**7**	ND	ND	**251**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U
Acetone	50*	5 UJ	5 UJ	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U
Chloroform	7	**3**	**4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Cyclohexane	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	R	R	R	R	R	R	R	R
Ethanol	NE	R	R	R	R	R	R	R	R	R
n-Heptane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	**3**	1 U	1 U	**10**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-35S	DUP-04 Q1	BBMW-35I	BBMW-35I2	BBMW-35D	BBMW-36S	BBMW-36I	DUP-03 Q1	BBMW-37S
Screened/Sample Interval:		5-15 ft	5-15 ft	25-30 ft	45-50 ft	63-68 ft	5-15 ft	25-30 ft	25-30 ft	5-10 ft
Sample Date:		1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/12/2012	1/12/2012	1/12/2012	1/17/2012
Parent Sample:			BBMW-35S						BBMW-36I	
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ	**400**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	R	500 U	500 U	500 U	500 U	R
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	**6**
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**75**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	**18 J**
2,2,4-Trimethylpentane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ
Vinyl acetate	NE	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**8**
Acenaphthylene	NE	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
Benzo[g,h,i]perylene	NE	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
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**37**
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**220**
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**
Pyrene	50*	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	**270**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	**270**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-35S	DUP-04 Q1	BBMW-35I	BBMW-35I2	BBMW-35D	BBMW-36S	BBMW-36I	DUP-03 Q1	BBMW-37S
Screened/Sample Interval:		5-15 ft	5-15 ft	25-30 ft	45-50 ft	63-68 ft	5-15 ft	25-30 ft	25-30 ft	5-10 ft
Sample Date:		1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/12/2012	1/12/2012	1/12/2012	1/17/2012
Parent Sample:			BBMW-35S						BBMW-36I	
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Alkalinity	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-37I	BBMW-37I2	BBMW-37D	BBMW-38S	BBMW-38I	BBMW-38I2	BBMW-38D	BBMW-39S	DUP05-Q1 2012
Screened/Sample Interval:		20-30 ft	35-45 ft	55-65 ft	5-15 ft	25-30 ft	40-45 ft	65-70 ft	5-15 ft	5-15 ft
Sample Date:		1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/18/2012	1/18/2012	1/18/2012	1/18/2012
Parent Sample:										BBMW-39S
BTEX (µg/L)										
Benzene	1	**92**	**57**	1 U	**3**	1 U	**1**	1 U	**7800**	**6200**
Toluene	5	**16**	**8**	1 U	1 U	1 U	**1**	1 U	**1200 J**	**740 J**
Ethylbenzene	5	**850**	**82**	1 U	**1**	1 U	**2**	1 U	**1700 J**	**840 J**
m,p-Xylene	5	**70**	**74**	1 U	1 U	**2**	**2**	1 U	**600 J**	**420 J**
o-Xylene	5	**180**	**120**	1 U	1 U	**2**	**2**	1 U	**600**	**480**
Total BTEX	NE	**1208**	**341**	ND	**4**	**4**	**8**	ND	**11900**	**8680**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	**6 J**	**4 J**	10 U	10 U	10 U	10 U	10 U	**16**	**12**
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 UJ	1 UJ
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	R	R	R	R	R	R	R	R
Ethanol	NE	R	R	R	R	R	R	R	R	R
n-Heptane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
n-Hexane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	**3 J**	**2 J**
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	**37**	**14**	1 U	1 U	1 U	1 U	1 U	**74 J**	**42 J**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-37I	BBMW-37I2	BBMW-37D	BBMW-38S	BBMW-38I	BBMW-38I2	BBMW-38D	BBMW-39S	DUP05-Q1 2012
Screened/Sample Interval:		20-30 ft	35-45 ft	55-65 ft	5-15 ft	25-30 ft	40-45 ft	65-70 ft	5-15 ft	5-15 ft
Sample Date:		1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/18/2012	1/18/2012	1/18/2012	1/18/2012
Parent Sample:										BBMW-39S
Methyl tert-butyl ether	10*	10 U	10 U	**4 J**	**9 J**	10 U	10 U	**1 J**	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**1900**	**1500**	1 U	1 U	**180**	**250**	1 U	**3300 J**	**1900 J**
2-Propanol (Isopropyl Alcohol)	NE	R	R	R	R	R	R	500 U	R	R
n-Propylbenzene	5	**11**	**3**	1 U	1 U	1 U	1 U	1 U	**19 J**	**9 J**
Styrene	5	1 U	**3**	1 U	1 U	1 U	1 U	1 U	**1**	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	**170**	**74**	1 U	1 U	**8**	**10**	1 U	**250**	**190 J**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	**88 J**	**35 J**	1 UJ	1 UJ	**4 J**	**4**	1 U	**140 J**	**100 J**
2,2,4-Trimethylpentane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	**120 J**	**120 J**	10 U	10 U	**17**	**16**	10 U	**86 J**	**65**
Acenaphthylene	NE	**10**	**120**	10 U	**1 J**	**190**	**170**	10 U	**2 J**	**1 J**
Anthracene	50*	**10 J**	**12 J**	10 U	**1 J**	**12**	**14**	10 U	**2 J**	**2 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
Fluoranthene	50*	**3 J**	**3 J**	10 U	10 U	**5**	**4 J**	10 U	10 U	10 U
Fluorene	50*	**36**	**25 J**	10 U	10 U	**71**	**81 J**	10 U	**22**	**18**
2-Methylnaphthalene	NE	**110 J**	**8**	10 U	10 U	**240**	**430**	10 U	**460 J**	10 UJ
Naphthalene	10*	**1300 J**	**870 J**	10 U	10 U	**39**	**150**	10 U	**2400 J**	10 UJ
Phenanthrene	50*	**61 J**	**70 J**	10 U	10 U	**70**	**110**	10 U	**16**	**12**
Pyrene	50*	**5 J**	**6 J**	10 U	10 U	**9**	**8**	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	**1655**	**1234**	ND	**2**	**653**	**983**	ND	**2988**	**98**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	10 UJ	10 UJ	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**1655**	**1234**	ND	**2**	**653**	**983**	ND	**2988**	**98**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-37I	BBMW-37I2	BBMW-37D	BBMW-38S	BBMW-38I	BBMW-38I2	BBMW-38D	BBMW-39S	DUP05-Q1 2012
Screened/Sample Interval:		20-30 ft	35-45 ft	55-65 ft	5-15 ft	25-30 ft	40-45 ft	65-70 ft	5-15 ft	5-15 ft
Sample Date:		1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/17/2012	1/18/2012	1/18/2012	1/18/2012	1/18/2012
Parent Sample:										BBMW-39S
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Alkalinity	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-39I	BBMW-39I2	BBMW-39D	BBMW-40S	BBMW-40I	BBMW-40I2	BBMW-40D	BBMW-41S	DUP-07 Q1
Screened/Sample Interval:		25-30 ft	45-50 ft	65-70 ft	5-15 ft	25-30 ft	45-50 ft	70-75 ft	6-16 ft	6-16 ft
Sample Date:		1/18/2012	1/20/2012	1/18/2012	1/20/2012	1/18/2012	1/20/2012	1/18/2012	1/20/2012	1/20/2012
Parent Sample:										BBMW-41S
BTEX (µg/L)										
Benzene	1	1 U	1 U	**14**	1 U	**1**	**14**	1 U	1 U	1 U
Toluene	5	1 U	1 U	**2**	1 U	1 U	**34**	1 U	**10**	**9**
Ethylbenzene	5	1 U	1 U	**3**	1 U	1 U	**1500 D**	1 U	**1300 D**	**1400 D**
m,p-Xylene	5	1 U	1 U	**2**	1 U	1 U	**640 D**	1 U	**2100 D**	**2200 D**
o-Xylene	5	1 U	1 U	**2**	1 U	1 U	**290 D**	1 U	**1000 D**	**1100 D**
Total BTEX	NE	ND	ND	**23**	ND	**1**	**2478**	ND	**4410**	**4709**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**1 J**	**1 J**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	**17**	10 U	**2 J**	**2 J**
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**1**
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	R	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	**14**	1 U	**100**	**95**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-39I	BBMW-39I2	BBMW-39D	BBMW-40S	BBMW-40I	BBMW-40I2	BBMW-40D	BBMW-41S	DUP-07 Q1
Screened/Sample Interval:		25-30 ft	45-50 ft	65-70 ft	5-15 ft	25-30 ft	45-50 ft	70-75 ft	6-16 ft	6-16 ft
Sample Date:		1/18/2012	1/20/2012	1/18/2012	1/20/2012	1/18/2012	1/20/2012	1/18/2012	1/20/2012	1/20/2012
Parent Sample:										BBMW-41S
Methyl tert-butyl ether	10*	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**10**	1 U	**8**	1 U	1 U	**770 DB**	1 U	**1600 DB**	**1700 DB**
2-Propanol (Isopropyl Alcohol)	NE	R	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	**3**	1 U	**27**	**25**
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5**	**5**
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	**36**	1 U	**320 D**	**330 D**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	**24**	1 U	**290**	**280**
2,2,4-Trimethylpentane	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	**3 J**	10 U	10 U	10 U	**2 J**	10 U	10 U	**2 J**	**2 J**
Acenaphthylene	NE	**15**	10 U	10 U	10 U	**2 J**	10 U	10 U	**2 J**	**2 J**
Anthracene	50*	**2 J**	10 U	10 U	10 U	**7 J**	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
Fluoranthene	50*	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U
Fluorene	50*	**3 J**	10 U	10 U	10 U	**1 J**	10 U	10 U	**2 J**	**3 J**
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**39**	**43**
Naphthalene	10*	**6**	10 U	**3 J**	10 U	10 U	10 U	10 U	**1400 D**	**1300 D**
Phenanthrene	50*	**10**	10 U	10 U	10 U	**15**	10 U	10 U	**4 J**	**4 J**
Pyrene	50*	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	**39**	ND	**3**	ND	**34**	ND	ND	**1449**	**1354**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**39**	ND	**3**	ND	**34**	ND	ND	**1449**	**1354**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-39I	BBMW-39I2	BBMW-39D	BBMW-40S	BBMW-40I	BBMW-40I2	BBMW-40D	BBMW-41S	DUP-07 Q1
Screened/Sample Interval:		25-30 ft	45-50 ft	65-70 ft	5-15 ft	25-30 ft	45-50 ft	70-75 ft	6-16 ft	6-16 ft
Sample Date:		1/18/2012	1/20/2012	1/18/2012	1/20/2012	1/18/2012	1/20/2012	1/18/2012	1/20/2012	1/20/2012
Parent Sample:										BBMW-41S
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Alkalinity	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-41I	BBMW-41I2	BBMW-41D	OU2MW-48S	OU2MW-48I	OU2MW-48I2	OU2MW-48D	DUP-11 Q1	OU2MW-49S
Screened/Sample Interval:		25-30 ft	45-50 ft	65-70 ft	3-13 ft	25-30 ft	45-50 ft	65-70 ft	65-70 ft	3-13 ft
Sample Date:		1/24/2012	1/20/2012	1/24/2012	2/3/2012	2/3/2012	2/3/2012	2/3/2012	2/3/2012	2/29/2012
Parent Sample:									OU2MW-48D	
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	**3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-41I	BBMW-41I2	BBMW-41D	OU2MW-48S	OU2MW-48I	OU2MW-48I2	OU2MW-48D	DUP-11 Q1	OU2MW-49S
Screened/Sample Interval:		25-30 ft	45-50 ft	65-70 ft	3-13 ft	25-30 ft	45-50 ft	65-70 ft	65-70 ft	3-13 ft
Sample Date:		1/24/2012	1/20/2012	1/24/2012	2/3/2012	2/3/2012	2/3/2012	2/3/2012	2/3/2012	2/29/2012
Parent Sample:									OU2MW-48D	
Methyl tert-butyl ether	10*	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	**10**	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	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
Anthracene	50*	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
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		BBMW-41I	BBMW-41I2	BBMW-41D	OU2MW-48S	OU2MW-48I	OU2MW-48I2	OU2MW-48D	DUP-11 Q1	OU2MW-49S
Screened/Sample Interval:		25-30 ft	45-50 ft	65-70 ft	3-13 ft	25-30 ft	45-50 ft	65-70 ft	65-70 ft	3-13 ft
Sample Date:		1/24/2012	1/20/2012	1/24/2012	2/3/2012	2/3/2012	2/3/2012	2/3/2012	2/3/2012	2/29/2012
Parent Sample:									OU2MW-48D	
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Alkalinity	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		DUP-19 Q1	OU2MW-49I	OU2MW-49I2	OU2MW-49D	OU2MW-50S	OU2MW-50I	OU2MW-50I2	OU2MW-50D	OU2MW-51S
Screened/Sample Interval:		3-13 ft	25-30 ft	45-50 ft	63-68 ft	5-15 ft	25-30 ft	45-50 ft	65-70 ft	5-15 ft
Sample Date:		2/29/2012	3/1/2012	2/29/2012	3/1/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/19/2012
Parent Sample:		OU2MW-49S								
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	**6**	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	**10**	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**6**
o-Xylene	5	1 U	1 U	1 U	1 U	**23**	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	ND	**39**	ND	ND	ND	**6**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	**1 BJ**	5 U	5 U	5 U	**10**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**6**
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**32**
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**220 D**
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**14**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		DUP-19 Q1	OU2MW-49I	OU2MW-49I2	OU2MW-49D	OU2MW-50S	OU2MW-50I	OU2MW-50I2	OU2MW-50D	OU2MW-51S
Screened/Sample Interval:		3-13 ft	25-30 ft	45-50 ft	63-68 ft	5-15 ft	25-30 ft	45-50 ft	65-70 ft	5-15 ft
Sample Date:		2/29/2012	3/1/2012	2/29/2012	3/1/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/19/2012
Parent Sample:		OU2MW-49S								
Methyl tert-butyl ether	10*	10 U	10 U	10 U	**1 J**	10 U	10 U	**1 J**	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	**12**	1 U	1 U	1 U	**5**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**78**
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	**3**	1 U	1 U	1 U	**490 D**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**250**
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	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	**1 J**	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
Benzo[g,h,i]perylene	NE	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
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	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	**9 J**	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
Pyrene	50*	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	**9**	**1**	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	**9**	**1**	ND	ND	ND

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		DUP-19 Q1	OU2MW-49I	OU2MW-49I2	OU2MW-49D	OU2MW-50S	OU2MW-50I	OU2MW-50I2	OU2MW-50D	OU2MW-51S
Screened/Sample Interval:		3-13 ft	25-30 ft	45-50 ft	63-68 ft	5-15 ft	25-30 ft	45-50 ft	65-70 ft	5-15 ft
Sample Date:		2/29/2012	3/1/2012	2/29/2012	3/1/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/19/2012
Parent Sample:		OU2MW-49S								
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Alkalinity	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OU2MW-51I	OU2MW-51I2	OU2MW-51D	OU2MW-57S	OU2MW-57I	OU2MW-57I2	OZMW-16S	OZMW-16I	OZMW-16I2
Screened/Sample Interval:		25-30 ft	45-50 ft	61-66 ft	5-15 ft	20-30 ft	35-45 ft	5-15 ft	20-30 ft	35-45 ft
Sample Date:		3/21/2012	3/19/2012	3/19/2012	3/15/2012	3/15/2012	3/15/2012	3/2/2012	3/2/2012	3/2/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**31**
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5**
Ethylbenzene	5	1 U	1 U	1 U	**51**	1 U	1 U	1 U	1 U	**130**
m,p-Xylene	5	1 U	1 U	1 U	**5**	**4**	1 U	1 U	1 U	**170**
o-Xylene	5	1 U	1 U	1 U	**41**	**24**	1 U	1 U	**1**	**130**
Total BTEX	NE	ND	ND	ND	**97**	**28**	ND	ND	**1**	**466**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	**1 J**	**1 J**	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	**29**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	**15**	**4**	1 U	1 U	1 U	**19**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OU2MW-51I	OU2MW-51I2	OU2MW-51D	OU2MW-57S	OU2MW-57I	OU2MW-57I2	OZMW-16S	OZMW-16I	OZMW-16I2
Screened/Sample Interval:		25-30 ft	45-50 ft	61-66 ft	5-15 ft	20-30 ft	35-45 ft	5-15 ft	20-30 ft	35-45 ft
Sample Date:		3/21/2012	3/19/2012	3/19/2012	3/15/2012	3/15/2012	3/15/2012	3/2/2012	3/2/2012	3/2/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	**82**	**36**	1 U	**2**	**1**	**3100 D**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	**1**	1 U	**11**	1 U	1 U	1 U	1 U	**11**
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**45**
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	**10**	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	**7**	1 U	**140**	**18**	1 U	1 U	1 U	**130**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	**3**	1 U	**72**	**2**	1 U	1 U	1 U	**81**
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	**10**	10 U	10 U	10 U	10 U	**20**
Acenaphthylene	NE	10 U	10 U	10 U	**2 J**	**4 J**	10 U	10 U	10 U	**110 DJ**
Anthracene	50*	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	**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
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Fluorene	50*	10 U	10 U	10 U	**8 J**	**2 J**	10 U	10 U	10 U	**5 J**
2-Methylnaphthalene	NE	10 U	10 U	10 U	**22**	**2 J**	10 U	10 U	10 U	**120 DJ**
Naphthalene	10*	10 U	10 U	10 U	**38**	**2 J**	10 U	10 U	10 U	**1900 D**
Phenanthrene	50*	10 U	10 U	10 U	**11**	**3 J**	10 U	10 U	10 U	**29**
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**
Total Non-carcinogenic PAHs	NE	ND	ND	ND	**94**	**13**	ND	ND	ND	**2192**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	**94**	**13**	ND	ND	ND	**2192**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OU2MW-51I	OU2MW-51I2	OU2MW-51D	OU2MW-57S	OU2MW-57I	OU2MW-57I2	OZMW-16S	OZMW-16I	OZMW-16I2
Screened/Sample Interval:		25-30 ft	45-50 ft	61-66 ft	5-15 ft	20-30 ft	35-45 ft	5-15 ft	20-30 ft	35-45 ft
Sample Date:		3/21/2012	3/19/2012	3/19/2012	3/15/2012	3/15/2012	3/15/2012	3/2/2012	3/2/2012	3/2/2012
Parent Sample:										
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	**107 B**	**33.7 B**	**109 B**
Antimony	3	NA	NA	NA	NA	NA	NA	1.1 U	1.1 U	1.1 U
Arsenic	25	NA	NA	NA	NA	NA	NA	4.4 U	4.4 U	4.4 U
Barium	1000	NA	NA	NA	NA	NA	NA	**10.7 B**	**43.4 B**	**25.4 B**
Beryllium	3*	NA	NA	NA	NA	NA	NA	0.12 U	0.12 U	0.12 U
Cadmium	5	NA	NA	NA	NA	NA	NA	0.18 U	0.18 U	0.18 U
Calcium	NE	NA	NA	NA	NA	NA	NA	**51600**	**60500**	**27000**
Chromium	50	NA	NA	NA	NA	NA	NA	0.52 U	0.52 U	0.52 U
Cobalt	NE	NA	NA	NA	NA	NA	NA	0.52 U	0.52 U	**3.4 B**
Copper	200	NA	NA	NA	NA	NA	NA	**5.7 B**	**4.4 B**	**3.9 B**
Iron	300	NA	NA	NA	NA	NA	NA	**88.6 B**	**23.2 B**	**4880**
Lead	25	NA	NA	NA	NA	NA	NA	**4.6**	**2.5 B**	**5.0**
Magnesium	35000*	NA	NA	NA	NA	NA	NA	**11900**	**15900**	**7630**
Manganese	300	NA	NA	NA	NA	NA	NA	**23.7**	**86.6**	**171**
Mercury	0.7	NA	NA	NA	NA	NA	NA	0.10 U	0.10 U	0.10 U
Nickel	100	NA	NA	NA	NA	NA	NA	0.64 U	0.64 U	**4.6 B**
Potassium	NE	NA	NA	NA	NA	NA	NA	**5120 *E**	**3030 B*E**	**2520 B*E**
Selenium	10	NA	NA	NA	NA	NA	NA	**3.2 B**	**4.6 B**	2.8 U
Silver	50	NA	NA	NA	NA	NA	NA	0.32 U	0.32 U	0.32 U
Sodium	20000	NA	NA	NA	NA	NA	NA	**20000**	**53800**	**52700**
Thallium	0.5*	NA	NA	NA	NA	NA	NA	3.2 U	3.2 U	3.2 U
Vanadium	NE	NA	NA	NA	NA	NA	NA	**2.6 B**	**1.0 B**	**0.40 B**
Zinc	2000*	NA	NA	NA	NA	NA	NA	**23.3**	**342**	**19.3 B**
Other (µg/L)										
Alkalinity	NE	NA	NA	NA	NA	NA	NA	**154000 D**	**214000 D**	**75300 D**
Ammonia	2000	NA	NA	NA	NA	NA	NA	100 U	100 U	**100**
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	**18500**	**26400**	**34300**
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	**270**	100 U	**290**
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	100 U	100 U	100 U
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	**290**	**160**	**340**
Sulfate	250000	NA	NA	NA	NA	NA	NA	**13700**	5000 U	**16700**
Sulfide	50*	NA	NA	NA	NA	NA	NA	2000 U	2000 U	2000 U
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	**570**	**160**	**630**
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	50 U	50 U	50 U

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-16D	OZMW-17S	OZMW-17I	OZMW-17I2	OZMW-17D	OZMW-18S	OZMW-18I	OZMW-18I2	OZMW-18D
Screened/Sample Interval:		55-65 ft	5-15 ft	20-30 ft	35-45 ft	53-63 ft	5-15 ft	20-30 ft	35-45 ft	55-65 ft
Sample Date:		3/2/2012	2/27/2012	2/27/2012	2/27/2012	2/27/2012	3/7/2012	3/7/2012	3/7/2012	3/7/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	**3**
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**67**
Ethylbenzene	5	1 U	1 U	1 U	1 U	**1**	1 U	1 U	**2**	**31**
m,p-Xylene	5	1 U	1 U	1 U	1 U	**8**	1 U	1 U	**2**	**87**
o-Xylene	5	1 U	1 U	1 U	1 U	**6**	1 U	1 U	**1**	**86**
Total BTEX	NE	ND	ND	ND	ND	**15**	ND	ND	**7**	**274**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**1 J**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**7**
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**14**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-16D	OZMW-17S	OZMW-17I	OZMW-17I2	OZMW-17D	OZMW-18S	OZMW-18I	OZMW-18I2	OZMW-18D
Screened/Sample Interval:		55-65 ft	5-15 ft	20-30 ft	35-45 ft	53-63 ft	5-15 ft	20-30 ft	35-45 ft	55-65 ft
Sample Date:		3/2/2012	2/27/2012	2/27/2012	2/27/2012	2/27/2012	3/7/2012	3/7/2012	3/7/2012	3/7/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	**7 J**	**6 J**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**23**	1 U	**2**	**6**	**440 DB**	**6 B**	**4 B**	**47 B**	**3400 D**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	**3**	1 U	1 U	1 U	**15**
Styrene	5	1 U	1 U	1 U	1 U	**3**	1 U	1 U	1 U	**110**
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**3**	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	**6 J**	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	**11**	1 U	1 U	**3**	**190**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	**11**	1 U	1 U	**2**	**93**
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	10 U	**10**	10 U	10 U	**2 J**	**43**
Acenaphthylene	NE	**3 J**	10 U	10 U	10 U	**27**	10 U	10 U	**1 J**	**160 DJ**
Anthracene	50*	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	**8 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
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**
Fluorene	50*	10 U	10 U	10 U	10 U	**11**	10 U	10 U	10 U	**19**
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	**36**	10 U	10 U	**10**	**330 DJ**
Naphthalene	10*	**15**	10 U	**1 J**	**2 J**	**250 D**	10 U	10 U	**43**	**2300 D**
Phenanthrene	50*	10 U	10 U	10 U	10 U	**10**	10 U	10 U	10 U	**49**
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**
Total Non-carcinogenic PAHs	NE	**18**	ND	**1**	**2**	**345**	ND	ND	**56**	**2913**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**18**	ND	**1**	**2**	**345**	ND	ND	**56**	**2913**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-16D	OZMW-17S	OZMW-17I	OZMW-17I2	OZMW-17D	OZMW-18S	OZMW-18I	OZMW-18I2	OZMW-18D
Screened/Sample Interval:		55-65 ft	5-15 ft	20-30 ft	35-45 ft	53-63 ft	5-15 ft	20-30 ft	35-45 ft	55-65 ft
Sample Date:		3/2/2012	2/27/2012	2/27/2012	2/27/2012	2/27/2012	3/7/2012	3/7/2012	3/7/2012	3/7/2012
Parent Sample:										
Total Metals (µg/L)										
Aluminum	NE	**194 B**	**77.7 B**	**32.6 B**	**30.3 B**	**93.1 B**	**70.6 B**	**39.8 B**	**30.2 B**	**50.1 B**
Antimony	3	1.1 U	2.2 U	**3.1 B**	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U
Arsenic	25	**9.2 B**	1.8 U	**8.1 B**	1.8 U	**14.4**	4.4 U	4.4 U	4.4 U	4.4 U
Barium	1000	**30.7 B**	**25.0 B**	**22.1 B**	**77.1 B**	**26.5 B**	**7.6 B**	**15.9 B**	**32.4 B**	**34.9 B**
Beryllium	3*	0.12 U	0.13 U	0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.12 U	0.12 U
Cadmium	5	0.18 U	0.17 U	0.17 U	**0.20 B**	0.17 U	0.18 U	0.18 U	0.18 U	**0.20 B**
Calcium	NE	**10400**	**68700**	**58400**	**20200**	**8310**	**57600**	**60300**	**35400**	**13700**
Chromium	50	0.52 U	**3.0 B**	**12.2**	**0.50 B**	0.28 U	**0.90 B**	**0.60 B**	0.52 U	0.52 U
Cobalt	NE	**3.4 B**	0.44 U	0.44 U	**3.2 B**	**12.2 B**	0.52 U	0.52 U	0.52 U	**16.3 B**
Copper	200	**1.9 B**	**1.9 B**	0.70 U	0.70 U	0.70 U	**5.7 B**	**3.4 B**	**5.0 B**	**0.70 B**
Iron	300	**12700**	**102**	**786**	**8.0 B**	**24900**	**404**	**77.1 B**	**19.2 B**	**46600**
Lead	25	**11.7**	**5.7**	**4.6**	**6.4**	**16.1**	**4.3**	**4.2**	**2.6 B**	**23.4**
Magnesium	35000*	**3120 B**	**9560**	**13300**	**3920 B**	**2700 B**	**11400**	**12800**	**5000**	**4770 B**
Manganese	300	**254**	**55.8**	**47.7**	**4450**	**405**	**48.1**	**15.7**	**477**	**1270**
Mercury	0.7	0.10 U	**0.12 B**	**0.11 B**	**0.12 B**	0.10 U	0.10 U	0.10 U	**0.11 B**	0.10 U
Nickel	100	**5.5 B**	**1.5 B**	**2.0 B**	**12.2 B**	**25.6 B**	0.64 U	0.64 U	0.64 U	**20.4 B**
Potassium	NE	**2000 B*E**	**5120**	**2990 B**	**375 B**	**623 B**	**5430 *E**	**8660 *E**	**3830 B*E**	**5780 *E**
Selenium	10	2.8 U	2.8 U	**8.5**	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Silver	50	0.32 U	0.42 U	0.42 U	0.42 U	0.42 U	0.32 U	0.32 U	0.32 U	0.32 U
Sodium	20000	**17300**	**20800**	**55000**	**47400**	**18700**	**19900**	**49900**	**41800**	**67500**
Thallium	0.5*	3.2 U	3.4 U	3.4 U	3.4 U	3.4 U	3.2 U	3.2 U	3.2 U	3.2 U
Vanadium	NE	**0.40 B**	**4.4 B**	**0.60 B**	0.21 U	**2.8 B**	**3.4 B**	**0.60 B**	**0.30 B**	**4.4 B**
Zinc	2000*	**18.9 B**	**605 E**	**404 E**	**9.1 BE**	**54.0 E**	**15.0 B**	**275**	**4.6 B**	**29.3**
Other (µg/L)										
Alkalinity	NE	1000 U	**202000 D**	**202000 D**	**31100 D**	**1950**	**183000 D**	**194000 D**	**97000 D**	**2450**
Ammonia	2000	100 U	**110**	**210**	100 U	**780**	**1050**	100 U	100 U	**950**
Carbon dioxide	NE	**33400**	**29900**	**13200**	**42200**	**60700**	**26400**	**24600**	**28200**	**114000**
Nitrogen, Nitrate	10000	100 U	**760**	**400**	**3350 D**	**450**	**1000**	**2250 D**	**330**	100 U
Nitrogen, Nitrite	1000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Total Kjeldahl Nitrogen	NE	**250**	**400**	100 U	100 U	**700**	**1470**	100 U	100 U	**2150**
Sulfate	250000	**76100 D**	**10400**	5000 U	**27800**	**112000 D**	**8990**	5000 U	5000 U	**155000 D**
Sulfide	50*	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Total Nitrogen	NE	**250**	**1150**	**400**	**3350**	**1150**	**2470**	**2250**	**330**	**2150**
Total Phosphorous	NE	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-19S	OZMW-19I	OZMW-19I2	OZMW-19D	OZMW-21S	OZMW-21I	OZMW-21I2	DUP-20 Q1	OZMW-21D
Screened/Sample Interval:		5-15 ft	20-30 ft	35-45 ft	55-65 ft	5-15 ft	20-30 ft	35-45 ft	35-45 ft	55-65 ft
Sample Date:		2/29/2012	2/29/2012	2/29/2012	2/29/2012	3/5/2012	3/5/2012	3/5/2012	3/5/2012	3/5/2012
Parent Sample:									OZMW-21I2	
BTEX (µg/L)										
Benzene	1	**9**	**57**	**23**	1 U	**1200 D**	**120**	**58**	**56**	1 U
Toluene	5	**3**	**6**	**4**	1 U	**100**	**13**	**4**	**4**	1 U
Ethylbenzene	5	**1100 D**	**390 D**	**330 D**	1 U	**1600 D**	**190**	**17**	**14**	1 U
m,p-Xylene	5	**140**	**94**	**89**	1 U	**1500 D**	**70**	**15**	**12**	1 U
o-Xylene	5	**540 D**	**100**	**82**	1 U	**930 D**	**60**	**8**	**7**	1 U
Total BTEX	NE	**1792**	**647**	**528**	ND	**5330**	**453**	**102**	**93**	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	**1 BJ**	**3 BJ**	**4 BJ**	**3 J**	**1 BJ**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	**3 J**	**11**	**4 J**	10 U	**1 J**	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	**7 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	**16**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	**47**	**50**	**23**	1 U	**50**	**49**	**45**	**38**	1 U

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-19S	OZMW-19I	OZMW-19I2	OZMW-19D	OZMW-21S	OZMW-21I	OZMW-21I2	DUP-20 Q1	OZMW-21D
Screened/Sample Interval:		5-15 ft	20-30 ft	35-45 ft	55-65 ft	5-15 ft	20-30 ft	35-45 ft	35-45 ft	55-65 ft
Sample Date:		2/29/2012	2/29/2012	2/29/2012	2/29/2012	3/5/2012	3/5/2012	3/5/2012	3/5/2012	3/5/2012
Parent Sample:									OZMW-21I2	
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	**2 J**	**6 J**	**6 J**	**7 J**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**890 D**	**4900 D**	**2200 D**	**50 B**	**3700 DB**	**5400 DB**	**5600 DB**	**4700 D**	**54**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	**18**	**19**	**9**	1 U	**28**	**32**	**28**	**22**	1 U
Styrene	5	1 U	**7**	**8**	1 U	1 U	1 U	**14**	**13**	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	**1**	**5**	**5**	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	**57**	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	**300 D**	**210 D**	**120**	**2**	**390 D**	**460 D**	**340 D**	**210 D**	**3**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	**190**	**210**	**90**	1 U	**330**	**300**	**210**	**160**	**2**
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	**40**	**280 DJ**	**110 DJ**	**2 J**	**78**	**220 DJ**	**130 DJ**	**94 DJ**	**8 J**
Acenaphthylene	NE	**9 J**	**7 J**	**70**	**4 J**	**170 DJ**	**14**	**270 DJ**	**220 DJ**	**20**
Anthracene	50*	**7 J**	**12**	**12**	10 U	**8 J**	**12**	**14**	**10**	**10**
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	**2 J**	**3 J**	**3 J**	10 U	**2 J**	**3 J**	**3 J**	**3 J**	**4 J**
Fluorene	50*	**27**	**60**	**27**	**2 J**	**42**	**56**	**67**	**54**	**25**
2-Methylnaphthalene	NE	**170 D**	**580 D**	**120 DJ**	10 U	**890 DJ**	**1100 D**	**1300 D**	**960 D**	**12**
Naphthalene	10*	**590 D**	**3300 D**	**1600 D**	**22**	**5100 D**	**3400 D**	**3900 D**	**3200 D**	**23**
Phenanthrene	50*	**32**	**79**	**69**	**6 J**	**40**	**64**	**69**	**53**	**50**
Pyrene	50*	**4 J**	**4 J**	**5 J**	10 U	**3 J**	**4 J**	**4 J**	**3 J**	**5 J**
Total Non-carcinogenic PAHs	NE	**881**	**4325**	**2016**	**36**	**6333**	**4873**	**5757**	**4597**	**157**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**881**	**4325**	**2016**	**36**	**6333**	**4873**	**5757**	**4597**	**157**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-19S	OZMW-19I	OZMW-19I2	OZMW-19D	OZMW-21S	OZMW-21I	OZMW-21I2	DUP-20 Q1	OZMW-21D
Screened/Sample Interval:		5-15 ft	20-30 ft	35-45 ft	55-65 ft	5-15 ft	20-30 ft	35-45 ft	35-45 ft	55-65 ft
Sample Date:		2/29/2012	2/29/2012	2/29/2012	2/29/2012	3/5/2012	3/5/2012	3/5/2012	3/5/2012	3/5/2012
Parent Sample:									OZMW-21I2	
Total Metals (µg/L)										
Aluminum	NE	**74.9 B**	**55.2 B**	**57.2 B**	**99.9 B**	**45.4 B**	**30.7 B**	**63.6 B**	**28.2 B**	**24.4 B**
Antimony	3	**1.4 B**	**2.2 B**	1.1 U	**1.9 B**	1.1 U	1.1 U	1.1 U	**1.3 B**	1.1 U
Arsenic	25	**4.6 B**	**5.0 B**	4.4 U	**4.9 B**	4.4 U	4.4 U	4.4 U	4.4 U	**9.8 B**
Barium	1000	**28.6 B**	**13.5 B**	**25.0 B**	**13.8 B**	**21.0 B**	**13.8 B**	**33.2 B**	**35.4 B**	**41.8 B**
Beryllium	3*	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Cadmium	5	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	**0.20 B**	**0.30 B**
Calcium	NE	**79700**	**63100**	**60000**	**10600**	**60100**	**56100**	**33400**	**33800**	**10200**
Chromium	50	**4.5 B**	**1.7 B**	**2.2 B**	**6.6 B**	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Cobalt	NE	0.52 U	0.52 U	0.52 U	**3.3 B**	0.52 U	**0.70 B**	**3.5 B**	**3.7 B**	**1.6 B**
Copper	200	**6.3 B**	**5.6 B**	**7.9 B**	**5.6 B**	**2.4 B**	**2.0 B**	**1.0 B**	**1.2 B**	**1.6 B**
Iron	300	**1910 ***	**815 ***	**43.9 B***	**8580 ***	**7050**	**6820**	**24400**	**24600**	**49100**
Lead	25	**5.8**	**4.7**	**1.8 B**	**8.9**	**5.6**	**4.1**	**3.2**	**4.2**	**22.3**
Magnesium	35000*	**11100**	**15800**	**14700**	**3490 B**	**9740**	**11700**	**6170**	**6350**	**3020 B**
Manganese	300	**31.6**	**41.4**	**183**	**200**	**122**	**197**	**4350**	**4300**	**681**
Mercury	0.7	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	**0.11 B**	0.10 U	0.10 U	0.10 U
Nickel	100	**0.70 B**	0.64 U	0.64 U	**6.6 B**	0.64 U	0.64 U	0.64 U	0.64 U	**4.9 B**
Potassium	NE	**10300 E**	**3960 BE**	**3800 BE**	**871 BE**	**10400 *E**	**5680 *E**	**3870 B*E**	**6640 *E**	**18000 *E**
Selenium	10	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
Silver	50	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Sodium	20000	**11000**	**46400**	**55000**	**12100**	**19000**	**46200**	**42500**	**44100**	**38100**
Thallium	0.5*	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Vanadium	NE	**3.2 B**	**0.40 B**	**0.30 B**	0.23 U	**2.6 B**	**0.50 B**	0.23 U	0.23 U	**3.8 B**
Zinc	2000*	**11.1 B**	**904**	**60.1**	**23.4**	**19.0 B**	**113**	**5.4 B**	**7.2 B**	**5.8 B**
Other (µg/L)										
Alkalinity	NE	**249000 D**	**219000 D**	**197000 D**	1000 U	**202000 D**	**186000 D**	**105000 D**	**101000 D**	**29200 D**
Ammonia	2000	**470**	**340**	**130**	**240**	**950**	**250**	**270**	**100**	**530**
Carbon dioxide	NE	**81800**	**15000**	**12300**	**48400**	**62500**	**8800**	**36100**	**52800**	**72200**
Nitrogen, Nitrate	10000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**170**
Nitrogen, Nitrite	1000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Total Kjeldahl Nitrogen	NE	**1200**	**660**	100 U	100 U	**1750**	**740**	**270**	100 U	**1560**
Sulfate	250000	5000 U	5000 U	5000 U	**39100**	5000 U	5000 U	125000 U	5000 U	**39400**
Sulfide	50*	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Total Nitrogen	NE	**1200**	**660**	100 U	100 U	**1750**	**740**	**270**	100 U	**1730**
Total Phosphorous	NE	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Table 4-4
Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-22SR	OZMW-22IR	OZMW-23S	OZMW-23S	OZMW-23S	OZMW-23I	OZMW-23I	OZMW-23I	OZMW-23I2
Screened/Sample Interval:		5-15 ft	20-30 ft	5-15 ft	5-15 ft	5-15 ft	20-30 ft	20-30 ft	20-30 ft	35-45 ft
Sample Date:		3/2/2012	3/2/2012	1/19/2012	2/29/2012	3/26/2012	1/19/2012	2/29/2012	3/26/2012	1/19/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	**4**	**1**	1 U	1 U	1 U	1 U	1 U	**1**	1 U
Ethylbenzene	5	**310 D**	**130**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	**24**	**15**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	**130**	**45**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	**469**	**191**	ND	ND	ND	ND	ND	**1**	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	**1 J**	5 U	**1 J**	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	**42**	**17**	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-22SR	OZMW-22IR	OZMW-23S	OZMW-23S	OZMW-23S	OZMW-23I	OZMW-23I	OZMW-23I	OZMW-23I2
Screened/Sample Interval:		5-15 ft	20-30 ft	5-15 ft	5-15 ft	5-15 ft	20-30 ft	20-30 ft	20-30 ft	35-45 ft
Sample Date:		3/2/2012	3/2/2012	1/19/2012	2/29/2012	3/26/2012	1/19/2012	2/29/2012	3/26/2012	1/19/2012
Parent Sample:										
Methyl tert-butyl ether	10*	**1 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**350 D**	**140**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	**14**	**7**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	**190 D**	**92**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	**32**	**52**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	**5 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	**2 J**	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	**1 J**	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
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	**3 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	10 U	**15**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	**110 D**	**65**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	**2 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	**122**	**89**	**1**	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**122**	**89**	**1**	ND	ND	ND	ND	ND	ND

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-22SR	OZMW-22IR	OZMW-23S	OZMW-23S	OZMW-23S	OZMW-23I	OZMW-23I	OZMW-23I	OZMW-23I2
Screened/Sample Interval:		5-15 ft	20-30 ft	5-15 ft	5-15 ft	5-15 ft	20-30 ft	20-30 ft	20-30 ft	35-45 ft
Sample Date:		3/2/2012	3/2/2012	1/19/2012	2/29/2012	3/26/2012	1/19/2012	2/29/2012	3/26/2012	1/19/2012
Parent Sample:										
Total Metals (µg/L)										
Aluminum	NE	**89.5 B**	**28.8 B**	NA	**465**	NA	NA	**55.3 B**	NA	NA
Antimony	3	1.1 U	1.1 U	NA	**2.4 B**	NA	NA	**1.4 B**	NA	NA
Arsenic	25	4.4 U	4.4 U	NA	4.4 U	NA	NA	4.4 U	NA	NA
Barium	1000	**33.3 B**	**22.6 B**	NA	**19.6 B**	NA	NA	**14.2 B**	NA	NA
Beryllium	3*	0.12 U	0.12 U	NA	0.12 U	NA	NA	0.12 U	NA	NA
Cadmium	5	0.18 U	0.18 U	NA	0.18 U	NA	NA	0.18 U	NA	NA
Calcium	NE	**36300**	**24200**	NA	**50300**	NA	NA	**58100**	NA	NA
Chromium	50	0.52 U	0.52 U	NA	**3.1 B**	NA	NA	**15.1**	NA	NA
Cobalt	NE	0.52 U	**0.90 B**	NA	0.52 U	NA	NA	0.52 U	NA	NA
Copper	200	**4.5 B**	**2.3 B**	NA	**14.8 B**	NA	NA	**10.1 B**	NA	NA
Iron	300	**4920**	**8660**	NA	**420 ***	NA	NA	**65.7 B***	NA	NA
Lead	25	**5.5**	**4.5**	NA	**3.1**	NA	NA	**1.9 B**	NA	NA
Magnesium	35000*	**6380**	**3910 B**	NA	**6020**	NA	NA	**14600**	NA	NA
Manganese	300	**303**	**541**	NA	**52.6**	NA	NA	**2.7 B**	NA	NA
Mercury	0.7	0.10 U	0.10 U	NA	0.10 U	NA	NA	0.10 U	NA	NA
Nickel	100	0.64 U	**1.9 B**	NA	**0.80 B**	NA	NA	0.64 U	NA	NA
Potassium	NE	**5360 *E**	**633 B*E**	NA	**11900 E**	NA	NA	**3370 BE**	NA	NA
Selenium	10	2.8 U	2.8 U	NA	2.8 U	NA	NA	2.8 U	NA	NA
Silver	50	0.32 U	0.32 U	NA	0.32 U	NA	NA	0.32 U	NA	NA
Sodium	20000	**42900**	**34700**	NA	**8680**	NA	NA	**48000**	NA	NA
Thallium	0.5*	3.2 U	3.2 U	NA	3.2 U	NA	NA	3.2 U	NA	NA
Vanadium	NE	**2.0 B**	**0.30 B**	NA	**11.9 B**	NA	NA	**3.6 B**	NA	NA
Zinc	2000*	**30.6**	**7.4 B**	NA	**13.8 B**	NA	NA	**39.8**	NA	NA
Other (µg/L)										
Alkalinity	NE	**109000 D**	**58900 D**	NA	**154000 D**	NA	NA	**206000 D**	NA	NA
Ammonia	2000	**150**	**110**	NA	100 U	NA	NA	100 U	NA	NA
Carbon dioxide	NE	**51000**	**35200**	NA	**26400**	NA	NA	**18500**	NA	NA
Nitrogen, Nitrate	10000	100 U	**850**	NA	**580**	NA	NA	**820**	NA	NA
Nitrogen, Nitrite	1000	100 U	100 U	NA	100 U	NA	NA	100 U	NA	NA
Total Kjeldahl Nitrogen	NE	**260**	**240**	NA	**230**	NA	NA	100 U	NA	NA
Sulfate	250000	**23100**	**26100**	NA	**9090**	NA	NA	5000 U	NA	NA
Sulfide	50*	2000 U	2000 U	NA	2000 U	NA	NA	2000 U	NA	NA
Total Nitrogen	NE	**260**	**1090**	NA	**810**	NA	NA	**820**	NA	NA
Total Phosphorous	NE	50 U	50 U	NA	50 U	NA	NA	50 U	NA	NA

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		DUP-06 Q1 OZ	OZMW-23I2	OZMW-23I2	OZMW-23D	OZMW-23D	OZMW-23D	OZMW-24S	OZMW-24S	OZMW-24S
Screened/Sample Interval:		35-45 ft	35-45 ft	35-45 ft	55-65 ft	55-65 ft	55-65 ft	5-15 ft	5-15 ft	5-15 ft
Sample Date:		1/19/2012	2/29/2012	3/26/2012	1/19/2012	2/29/2012	3/26/2012	1/19/2012	2/28/2012	3/26/2012
Parent Sample:		OZMW-23I2								
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**1**	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**8**	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**3**	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	**2**	**12**	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	**1 J**	5 U	**2 J**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**3**	1 U

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		DUP-06 Q1 OZ	OZMW-23I2	OZMW-23I2	OZMW-23D	OZMW-23D	OZMW-23D	OZMW-24S	OZMW-24S	OZMW-24S
Screened/Sample Interval:		35-45 ft	35-45 ft	35-45 ft	55-65 ft	55-65 ft	55-65 ft	5-15 ft	5-15 ft	5-15 ft
Sample Date:		1/19/2012	2/29/2012	3/26/2012	1/19/2012	2/29/2012	3/26/2012	1/19/2012	2/28/2012	3/26/2012
Parent Sample:		OZMW-23I2								
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	**3**	**3 B**	**2**	**16**	**490 DB**	**4**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	**10**	**27**	**2**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	**12**	**18**	**4**
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	**6 J**	**7 J**	**6 J**
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**11**	10 U
Anthracene	50*	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	**2 J**	10 U
Fluoranthene	50*	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	**2 J**	**4 J**	**4 J**
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**25**	**2 J**
Naphthalene	10*	10 U	10 U	10 U	**2 J**	**3 J**	**3 J**	**5 J**	**210 D**	**3 J**
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**2 J**
Pyrene	50*	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	**2**	**3**	**3**	**15**	**261**	**17**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	**1**	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	**2**	**3**	**3**	**15**	**262**	**17**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		DUP-06 Q1 OZ	OZMW-23I2	OZMW-23I2	OZMW-23D	OZMW-23D	OZMW-23D	OZMW-24S	OZMW-24S	OZMW-24S
Screened/Sample Interval:		35-45 ft	35-45 ft	35-45 ft	55-65 ft	55-65 ft	55-65 ft	5-15 ft	5-15 ft	5-15 ft
Sample Date:		1/19/2012	2/29/2012	3/26/2012	1/19/2012	2/29/2012	3/26/2012	1/19/2012	2/28/2012	3/26/2012
Parent Sample:		OZMW-23I2								
Total Metals (µg/L)										
Aluminum	NE	NA	**208**	NA	NA	**230**	NA	NA	**5470**	NA
Antimony	3	NA	1.1 U	NA	NA	1.1 U	NA	NA	**2.6 B**	NA
Arsenic	25	NA	4.4 U	NA	NA	4.4 U	NA	NA	**8.4 B**	NA
Barium	1000	NA	**19.5 B**	NA	NA	**24.0 B**	NA	NA	**85.9 B**	NA
Beryllium	3*	NA	**0.40 B**	NA	NA	**0.60 B**	NA	NA	**0.30 B**	NA
Cadmium	5	NA	0.18 U	NA	NA	0.18 U	NA	NA	0.18 U	NA
Calcium	NE	NA	**10200**	NA	NA	**10700**	NA	NA	**92500**	NA
Chromium	50	NA	**6.0 B**	NA	NA	**9.3 B**	NA	NA	**32.8**	NA
Cobalt	NE	NA	**3.1 B**	NA	NA	**3.9 B**	NA	NA	**2.3 B**	NA
Copper	200	NA	**8.4 B**	NA	NA	**6.7 B**	NA	NA	**44.9**	NA
Iron	300	NA	**7660 ***	NA	NA	**14100 ***	NA	NA	**10400 ***	NA
Lead	25	NA	**12.1**	NA	NA	**8.8**	NA	NA	**18.4**	NA
Magnesium	35000*	NA	**3380 B**	NA	NA	**3210 B**	NA	NA	**8930**	NA
Manganese	300	NA	**193**	NA	NA	**273**	NA	NA	**49.8**	NA
Mercury	0.7	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA
Nickel	100	NA	**5.2 B**	NA	NA	**8.9 B**	NA	NA	**2.9 B**	NA
Potassium	NE	NA	**1250 BE**	NA	NA	**1760 BE**	NA	NA	**8440 E**	NA
Selenium	10	NA	2.8 U	NA	NA	2.8 U	NA	NA	**4.9 B**	NA
Silver	50	NA	0.32 U	NA	NA	0.32 U	NA	NA	0.32 U	NA
Sodium	20000	NA	**16900**	NA	NA	**25600**	NA	NA	**10100**	NA
Thallium	0.5*	NA	3.2 U	NA	NA	3.2 U	NA	NA	3.2 U	NA
Vanadium	NE	NA	**0.30 B**	NA	NA	**2.5 B**	NA	NA	**28.1 B**	NA
Zinc	2000*	NA	**1010**	NA	NA	**354**	NA	NA	**307**	NA
Other (µg/L)										
Alkalinity	NE	NA	**2400**	NA	NA	1000 U	NA	NA	**228000 D**	NA
Ammonia	2000	NA	100 U	NA	NA	**310**	NA	NA	100 U	NA
Carbon dioxide	NE	NA	**52800**	NA	NA	**49300**	NA	NA	**29900**	NA
Nitrogen, Nitrate	10000	NA	100 U	NA	NA	100 U	NA	NA	**1380**	NA
Nitrogen, Nitrite	1000	NA	100 U	NA	NA	100 U	NA	NA	100 U	NA
Total Kjeldahl Nitrogen	NE	NA	100 U	NA	NA	**630**	NA	NA	**840**	NA
Sulfate	250000	NA	**46000**	NA	NA	**122000 D**	NA	NA	**35500**	NA
Sulfide	50*	NA	2000 U	NA	NA	2000 U	NA	NA	2000 U	NA
Total Nitrogen	NE	NA	100 U	NA	NA	**630**	NA	NA	**2220**	NA
Total Phosphorous	NE	NA	50 U	NA	NA	50 U	NA	NA	50 U	NA

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-24I	OZMW-24I	OZMW-24I	OZMW-24I2	OZMW-24I2	OZMW-24I2	DUP-01 OZ	OZMW-24D	OZMW-24D
Screened/Sample Interval:		20-30 ft	20-30 ft	20-30 ft	35-45 ft	35-45 ft	35-45 ft	35-45 ft	55-65 ft	55-65 ft
Sample Date:		1/19/2012	2/28/2012	3/27/2012	1/19/2012	2/28/2012	3/26/2012	3/26/2012	1/19/2012	2/27/2012
Parent Sample:								OZMW-24I2		
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**3**	**7**
Toluene	5	1 U	1 U	**4**	1 U	1 U	**10**	**11**	**220 D**	**320 D**
Ethylbenzene	5	1 U	1 U	**2**	**12**	**11**	**14**	**14**	**110**	**110**
m,p-Xylene	5	1 U	1 U	**13**	**170**	**150**	**140**	**150**	**440 D**	**520 D**
o-Xylene	5	1 U	1 U	**5**	**57**	**50**	**56**	**57**	**220 D**	**250 D**
Total BTEX	NE	ND	ND	**24**	**239**	**211**	**220**	**232**	**993**	**1207**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	**2 J**	5 U	**1 J**	**1 J**	**2 J**	**4 BJ**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	**3 B**
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	**47**	**40**	**29**	**34**	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	**2**	**56**	**50**	**45**	**43**	**3**	**3**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-24I	OZMW-24I	OZMW-24I	OZMW-24I2	OZMW-24I2	OZMW-24I2	DUP-01 OZ	OZMW-24D	OZMW-24D
Screened/Sample Interval:		20-30 ft	20-30 ft	20-30 ft	35-45 ft	35-45 ft	35-45 ft	35-45 ft	55-65 ft	55-65 ft
Sample Date:		1/19/2012	2/28/2012	3/27/2012	1/19/2012	2/28/2012	3/26/2012	3/26/2012	1/19/2012	2/27/2012
Parent Sample:								OZMW-24I2		
Methyl tert-butyl ether	10*	10 U	10 U	10 U	**3 J**	**3 J**	**3 J**	**3 J**	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**1 J**	**1 J**
Naphthalene	10*	1 U	1 U	**200 D**	**6600 D**	**7500 DB**	**5400 D**	**5000 D**	**3800 D**	**3700 DB**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	**1**	**33**	**29**	**22**	**22**	**13**	**11**
Styrene	5	1 U	1 U	**5**	**22**	**21**	**35**	**36**	**290 D**	**350 D**
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	**3**	**2**	**1**	**1**	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	**16**	**400 D**	**430 D**	**300 D**	**280 D**	**180 D**	**170 D**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	**7**	**260**	**240**	**160**	**160**	**72**	**62**
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	**1 J**	**53**	**47**	**32**	**38**	**11**	**15**
Acenaphthylene	NE	10 U	10 U	**7 J**	**420 DJ**	**230 DJ**	**170 DJ**	**210 DJ**	**270 DJ**	**200 DJ**
Anthracene	50*	10 U	10 U	10 U	**13**	**9 J**	**5 J**	**6 J**	**4 J**	**6 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
Fluoranthene	50*	10 U	10 U	10 U	**3 J**	**2 J**	**1 J**	**1 J**	10 U	**1 J**
Fluorene	50*	10 U	10 U	10 U	**56**	**47**	**29**	**34**	**28**	**43**
2-Methylnaphthalene	NE	10 U	10 U	**20**	**1300 D**	**670 D**	**460 DJ**	**580 D**	**830 DJ**	**600 D**
Naphthalene	10*	10 U	10 U	**180 D**	**7000 D**	**3700 D**	**2800 D**	**3400 D**	**4900 D**	**3000 D**
Phenanthrene	50*	10 U	10 U	10 U	**53**	**47**	**28**	**32**	**22**	**33**
Pyrene	50*	10 U	10 U	10 U	**3 J**	**3 J**	**2 J**	**2 J**	**1 J**	**2 J**
Total Non-carcinogenic PAHs	NE	ND	ND	**208**	**8901**	**4755**	**3527**	**4303**	**6066**	**3900**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	**208**	**8901**	**4755**	**3527**	**4303**	**6066**	**3900**

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-24I	OZMW-24I	OZMW-24I	OZMW-24I2	OZMW-24I2	OZMW-24I2	DUP-01 OZ	OZMW-24D	OZMW-24D
Screened/Sample Interval:		20-30 ft	20-30 ft	20-30 ft	35-45 ft	35-45 ft	35-45 ft	35-45 ft	55-65 ft	55-65 ft
Sample Date:		1/19/2012	2/28/2012	3/27/2012	1/19/2012	2/28/2012	3/26/2012	3/26/2012	1/19/2012	2/27/2012
Parent Sample:								OZMW-24I2		
Total Metals (µg/L)										
Aluminum	NE	NA	**42.7 B**	NA	NA	**53.7 B**	NA	NA	NA	**4830**
Antimony	3	NA	**1.3 B**	NA	NA	1.1 U	NA	NA	NA	2.2 U
Arsenic	25	NA	4.4 U	NA	NA	4.4 U	NA	NA	NA	**18.0**
Barium	1000	NA	**12.4 B**	NA	NA	**59.4 B**	NA	NA	NA	**10.4 B**
Beryllium	3*	NA	0.12 U	NA	NA	0.12 U	NA	NA	NA	**5.9**
Cadmium	5	NA	0.18 U	NA	NA	0.18 U	NA	NA	NA	0.17 U
Calcium	NE	NA	**57200**	NA	NA	**7050**	NA	NA	NA	**31800**
Chromium	50	NA	**6.4 B**	NA	NA	**9.1 B**	NA	NA	NA	**10.2**
Cobalt	NE	NA	0.52 U	NA	NA	**10.8 B**	NA	NA	NA	**29.0 B**
Copper	200	NA	**8.6 B**	NA	NA	**10.4 B**	NA	NA	NA	0.70 U
Iron	300	NA	**51.3 B***	NA	NA	**13300 ***	NA	NA	NA	**74300**
Lead	25	NA	**3.4**	NA	NA	**7.8**	NA	NA	NA	1.6 U
Magnesium	35000*	NA	**11700**	NA	NA	**1170 B**	NA	NA	NA	**14800**
Manganese	300	NA	**2.6 B**	NA	NA	**1380**	NA	NA	NA	**1100**
Mercury	0.7	NA	0.10 U	NA	NA	0.10 U	NA	NA	NA	**0.12 B**
Nickel	100	NA	0.64 U	NA	NA	**5.3 B**	NA	NA	NA	**74.7**
Potassium	NE	NA	**4280 BE**	NA	NA	**13100 E**	NA	NA	NA	**5150**
Selenium	10	NA	2.8 U	NA	NA	2.8 U	NA	NA	NA	2.8 U
Silver	50	NA	0.32 U	NA	NA	0.32 U	NA	NA	NA	0.42 U
Sodium	20000	NA	**46600**	NA	NA	**49000**	NA	NA	NA	**144000**
Thallium	0.5*	NA	3.2 U	NA	NA	3.2 U	NA	NA	NA	3.4 U
Vanadium	NE	NA	**1.7 B**	NA	NA	**2.4 B**	NA	NA	NA	**39.7 B**
Zinc	2000*	NA	**9.3 B**	NA	NA	**2320**	NA	NA	NA	**308 E**
Other (µg/L)										
Alkalinity	NE	NA	**197000 D**	NA	NA	**29800 D**	NA	NA	NA	2000 U
Ammonia	2000	NA	100 U	NA	NA	**290**	NA	NA	NA	**1750**
Carbon dioxide	NE	NA	**17600**	NA	NA	**26400**	NA	NA	NA	**196000**
Nitrogen, Nitrate	10000	NA	**500**	NA	NA	100 U	NA	NA	NA	100 U
Nitrogen, Nitrite	1000	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U
Total Kjeldahl Nitrogen	NE	NA	100 U	NA	NA	**580**	NA	NA	NA	**2840**
Sulfate	250000	NA	5000 U	NA	NA	**18400**	NA	NA	NA	**739000 D**
Sulfide	50*	NA	2000 U	NA	NA	2000 U	NA	NA	NA	2000 U
Total Nitrogen	NE	NA	**500**	NA	NA	**580**	NA	NA	NA	**2840**
Total Phosphorous	NE	NA	50 U	NA	NA	50 U	NA	NA	NA	50 U

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-24D	OZMW-25S	OZMW-25I	OZMW-25I2	OZMW-25D	OZMW-26S	OZMW-26I	OZMW-26I2	OZMW-26D
Screened/Sample Interval:		55-65 ft	5-15 ft	20-30 ft	35-45 ft	55-65 ft	5-15 ft	20-30 ft	35-45 ft	55-65 ft
Sample Date:		3/26/2012	3/1/2012	3/1/2012	3/1/2012	3/1/2012	2/29/2012	2/29/2012	2/29/2012	2/29/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	**4**	**48**	**69**	**1**	1 U	1 U	**3**	**12**	1 U
Toluene	5	**240 D**	**10**	**11**	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	**80**	**730 D**	**200 D**	**19**	1 U	1 U	**12**	1 U	1 U
m,p-Xylene	5	**440 D**	**340 D**	**100**	**7**	1 U	1 U	**6**	**2**	1 U
o-Xylene	5	**220 D**	**340 D**	**97**	**14**	1 U	1 U	**8**	**21**	1 U
Total BTEX	NE	**984**	**1468**	**477**	**41**	ND	ND	**29**	**35**	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	**3 J**	**1 BJ**	**5**	5 U	5 U	**1 J**	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	**3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	**3 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	**2**	**59**	**14**	**2**	1 U	1 U	1 U	**1**	1 U

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-24D	OZMW-25S	OZMW-25I	OZMW-25I2	OZMW-25D	OZMW-26S	OZMW-26I	OZMW-26I2	OZMW-26D
Screened/Sample Interval:		55-65 ft	5-15 ft	20-30 ft	35-45 ft	55-65 ft	5-15 ft	20-30 ft	35-45 ft	55-65 ft
Sample Date:		3/26/2012	3/1/2012	3/1/2012	3/1/2012	3/1/2012	2/29/2012	2/29/2012	2/29/2012	2/29/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	**1 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**3500 D**	**4600 D**	**4600 D**	**240 D**	**31**	**4**	**74 B**	**77 B**	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	**11**	**30**	**5**	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	**270 D**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	**200**	**460 D**	**170 D**	**21**	**2**	1 U	**4**	**4**	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	**63**	**290**	**91**	**6**	**1**	**7**	**2**	**2**	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	**9 J**	**45**	**130 DJ**	**1 J**	**2 J**	**3 J**	**7 J**	**6 J**	10 U
Acenaphthylene	NE	**170 DJ**	**130 DJ**	**140 DJ**	**19**	**15**	**1 J**	**7 J**	**11**	10 U
Anthracene	50*	**4 J**	**8 J**	**13**	10 U	**2 J**	10 U	10 U	**2 J**	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
Fluoranthene	50*	10 U	**2 J**	**4 J**	**4 J**	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	**26**	**44**	**60**	**33**	**6 J**	**1 J**	**2 J**	10 U	10 U
2-Methylnaphthalene	NE	**470 DJ**	**450 DJ**	**800 D**	**65**	**31**	10 U	**6 J**	10 U	10 U
Naphthalene	10*	**2600 D**	**2500 D**	**2500 D**	**140 D**	**20**	10 U	**29**	**25**	10 U
Phenanthrene	50*	**20**	**47**	**70**	**60**	**9 J**	10 U	**1 J**	**9 J**	10 U
Pyrene	50*	**1 J**	**2 J**	**4 J**	10 U	10 U	10 U	10 U	**1 J**	10 U
Total Non-carcinogenic PAHs	NE	**3300**	**3228**	**3721**	**322**	**85**	**5**	**52**	**54**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**3300**	**3228**	**3721**	**322**	**85**	**5**	**52**	**54**	ND

Table 4-4
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Operable Unit:	NYS AWQS	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name		OZMW-24D	OZMW-25S	OZMW-25I	OZMW-25I2	OZMW-25D	OZMW-26S	OZMW-26I	OZMW-26I2	OZMW-26D
Screened/Sample Interval:		55-65 ft	5-15 ft	20-30 ft	35-45 ft	55-65 ft	5-15 ft	20-30 ft	35-45 ft	55-65 ft
Sample Date:		3/26/2012	3/1/2012	3/1/2012	3/1/2012	3/1/2012	2/29/2012	2/29/2012	2/29/2012	2/29/2012
Parent Sample:										
Total Metals (µg/L)										
Aluminum	NE	NA	**23.8 B**	**36.7 B**	**45.6 B**	**133 B**	**245**	**51.9 B**	**56.2 B**	**61.0 B**
Antimony	3	NA	1.1 U	1.1 U	1.1 U	1.1 U	**1.5 B**	1.1 U	1.1 U	**1.5 B**
Arsenic	25	NA	**5.0 B**	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Barium	1000	NA	**7.7 B**	**18.1 B**	**33.1 B**	**15.1 B**	**24.0 B**	**24.8 B**	**22.8 B**	**16.8 B**
Beryllium	3*	NA	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Cadmium	5	NA	0.18 U	0.18 U	**0.40 B**	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Calcium	NE	NA	**45800**	**56100**	**26200**	**9990**	**50900**	**62500**	**43300**	**10400**
Chromium	50	NA	0.52 U	0.52 U	0.52 U	0.52 U	**2.4 B**	**1.7 B**	**1.7 B**	**5.1 B**
Cobalt	NE	NA	0.52 U	**0.60 B**	**5.0 B**	**3.8 B**	0.52 U	**0.70 B**	**1.9 B**	0.52 U
Copper	200	NA	**2.8 B**	**3.3 B**	**2.8 B**	**4.0 B**	**8.2 B**	**9.9 B**	**8.3 B**	**6.4 B**
Iron	300	NA	**656**	**2870**	**1690**	**1900**	**672 ***	**206 ***	**93.6 B***	**7310 ***
Lead	25	NA	**3.6**	**4.1**	**2.6 B**	**8.7**	**4.0**	**1.9 B**	**1.8 B**	**7.8**
Magnesium	35000*	NA	**11600**	**14000**	**3460 B**	**3030 B**	**9110**	**15300**	**10100**	**3410 B**
Manganese	300	NA	**57.8**	**243**	**7260**	**990**	**151**	**108**	**626**	**234**
Mercury	0.7	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	100	NA	0.64 U	0.64 U	0.64 U	**2.8 B**	0.64 U	**1.1 B**	0.64 U	0.64 U
Potassium	NE	NA	**3380 B*E**	**3220 B*E**	**4430 B*E**	**3620 B*E**	**7350 E**	**3440 BE**	**3380 BE**	**995 BE**
Selenium	10	NA	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Silver	50	NA	0.32 U	0.32 U	**1.0 B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Sodium	20000	NA	**18400**	**37600**	**60300**	**9370**	**11200**	**54300**	**44600**	**10600**
Thallium	0.5*	NA	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Vanadium	NE	NA	**0.70 B**	**0.50 B**	0.23 U	**0.80 B**	**3.7 B**	**1.0 B**	0.23 U	0.23 U
Zinc	2000*	NA	**3.8 B**	**116**	**4.5 B**	**16.2 B**	**125**	**616**	**7.1 B**	**10.6 B**
Other (µg/L)										
Alkalinity	NE	NA	**172000 D**	**196000 D**	**49500 D**	**1900**	**160000 D**	**222000 D**	**144000 D**	1000 U
Ammonia	2000	NA	**270**	**310**	100 U	100 U	100 U	100 U	100 U	100 U
Carbon dioxide	NE	NA	**22000**	**8800**	**25500**	**7900**	**40500**	**49300**	**14100**	**45800**
Nitrogen, Nitrate	10000	NA	100 U	100 U	**480**	100 U	**310**	**180**	**2200 D**	100 U
Nitrogen, Nitrite	1000	NA	100 U	100 U	**380**	100 U	100 U	100 U	100 U	100 U
Total Kjeldahl Nitrogen	NE	NA	**560**	**520**	100 U	100 U	**600**	**180**	**170**	100 U
Sulfate	250000	NA	5000 U	5000 U	**25500**	**18600**	**10500**	5000 U	**16000**	**35600**
Sulfide	50*	NA	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Total Nitrogen	NE	NA	**560**	**520**	**860**	100 U	**910**	**360**	**2370**	100 U
Total Phosphorous	NE	NA	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Notes for groundwater tables are compiled at the end of the tables in this section.

Table 4-5
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Subsurface Barrier Wall
Bay Shore/Brightwaters Former MGP Site
Qtly GW Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1999	2002			2003			2004				2005
		Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar
BBMW-01S	5.0 - 15.0	270	219	--	3,440	2,000	2,500	2,661	3,510	1,988	1,576	2,520	1,930
BBMW-01I	32.0 - 42.0	3	222	--	230	710	460	350	190	170	170	93	220
BBMW-01D	68.5 - 78.5	214	542	--	--	--	1,294	1,193	293	265	304	94	191
BBMW-23S	5.0 - 15.0	--	--	32,850	43,650	22,100	34,485	20,162	20,573	21,133	20,954	6,284	6,047
BBMW-23I	33.0 - 43.0	--	--	0	--	0	0	0	0	0	0	0	--
BBMW-23D	49.5 - 59.5	--	--	10	17	15	53	45	0	12	136	71	234
BBMW-23D2	63.0 - 73.0	--	--	28	--	0	97	80	0	--	0	--	0
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-5
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Subsurface Barrier Wall
Bay Shore/Brightwaters Former MGP Site
Qtly GW Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2005			2006				2007				2008
		Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar
BBMW-01S	5.0 - 15.0	1,085	1,080	1,090	273	59	1,361	2,329	949	3,640	7,420	5,590	4,210
BBMW-01I	32.0 - 42.0	230	120	120	43	94	110	110	77	156	375	274	262
BBMW-01D	68.5 - 78.5	585	112	32	24	216	462	109	32	555	386	9	43
BBMW-23S	5.0 - 15.0	29,430	3,300	1,725	7,450	4,070	6,558	120	12,332	18,185	19,818	14,940	26,389
BBMW-23I	33.0 - 43.0	0	0	--	0	0	0	0	0	0	19	10	0
BBMW-23D	49.5 - 59.5	446	210	--	729	467	509	579	519	96	1,324	660	493
BBMW-23D2	63.0 - 73.0	--	--	--	0	--	--	--	0	0	0	0	0
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-5
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Subsurface Barrier Wall
Bay Shore/Brightwaters Former MGP Site
Qtly GW Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2008			2009				2010				2011
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
BBMW-01S	5.0 - 15.0	3,022	1,251	797	284	43	29	187	23	38	4	11	2
BBMW-01I	32.0 - 42.0	64	57	36	47	66	29	19	76	11	0	3	1
BBMW-01D	68.5 - 78.5	81	75	21	33	47	115	105	213	83	72	58	32
BBMW-23S	5.0 - 15.0	22,830	18,758	9,986	11,860	6,483	11,108	7,779	9,643	11,441	6,213	4,890	4,327
BBMW-23I	33.0 - 43.0	3	0	0	0	0	0	115	0	6	0	3	0
BBMW-23D	49.5 - 59.5	23	12	14	7	10	6	3	2	1	0	1	0
BBMW-23D2	63.0 - 73.0	3	0	0	0	0	0	0	0	0	0	0	0
OU2MW-17S	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-17I	13.0 - 23.0	90	0	0	80	164	17	0	6	245	4	0	0
OU2MW-17I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-17D	60.0 - 75.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-18I	13.0 - 23.0	5,500	5,447	27,560	28,040	3,791	1,500	3,275	3,033	799	1,592	2,468	2,559
OU2MW-18I2	35.0 - 45.0	0	0	0	0	0	0	336	418	490	575	410	200
OU2MW-18D	60.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	85	59	4	0	0
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	2

Table 4-5
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Subsurface Barrier Wall
Bay Shore/Brightwaters Former MGP Site
Qtly GW Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)								
		Sampling Date				Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2011			2012					
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
BBMW-01S	5.0 - 15.0	2	1	0	0	0	7,420	1,510	0	7,420
BBMW-01I	32.0 - 42.0	0	0	0	0	0	710	137	0	710
BBMW-01D	68.5 - 78.5	11	94	20	26	9	1,294	223	9	1,294
BBMW-23S	5.0 - 15.0	4,104	654	3,771	3509	120	43,650	13,687	120	43,650
BBMW-23I	33.0 - 43.0	17	0	0	0	0	115	5	0	115
BBMW-23D	49.5 - 59.5	0	0	50	44	0	1,324	188	0	1,324
BBMW-23D2	63.0 - 73.0	0	0	0	0	0	97	7	0	97
OU2MW-17S	5.0 - 10.0	0	0	0	0	0	0	0	0	0
OU2MW-17I	13.0 - 23.0	2	19	3	10	0	245	42	0	245
OU2MW-17I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0
OU2MW-17D	60.0 - 75.0	0	0	0	0	0	0	0	0	0
OU2MW-18I	13.0 - 23.0	1,739	2,190	126	6	126	28,040	5,975	6	28,040
OU2MW-18I2	35.0 - 45.0	315	568	298	96	0	575	241	0	575
OU2MW-18D	60.0 - 70.0	0	9	0	0	0	9	1	0	9
OU2MW-54S	5.0 - 15.0	0	0	0	0	0	85	19	0	85
OU2MW-54I	20.0 - 25.0	0	0	0	0	0	0	0	0	0
OU2MW-54I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0
OU2MW-54D	60.0 - 65.0	0	0	0	0	0	0	0	0	0
OU2MW-58S	5.0-15.0	0	0	0	0	0	0	0	0	0
OU2MW-58I	25.0-30.0	0	0	0	0	0	2	1	0	2

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-6
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Subsurface Barrier Wall
Bay Shore/Brightwaters Former MGP Site
Qtly GW Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1999	2002			2003			2004				2005
		Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar
BBMW-01S	5.0 - 15.0	2,055	3,420	--	2,823	600	1,102	1,730	2,077	1,394	869	1,565	2,067
BBMW-01I	32.0 - 42.0	66	9,720	--	10,616	5,600	6,398	8,514	7,772	7,709	4,679	9,754	9,659
BBMW-01D	68.5 - 78.5	1,605	4,566	--	--	--	4,871	4,543	1,460	1,800	1,359	429	821
BBMW-23S	5.0 - 15.0	--	--	2,397	2,681	1,400	2,319	2,383	1,288	1,733	2,220	599	921
BBMW-23I	33.0 - 43.0	--	--	0	--	178	0	61	0	0	0	0	--
BBMW-23D	49.5 - 59.5	--	--	741	802	910	1,203	1,562	468	400	1,081	931	1,493
BBMW-23D2	63.0 - 73.0	--	--	36	--	0	120	0	0	--	0	--	0
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-6
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Subsurface Barrier Wall
Bay Shore/Brightwaters Former MGP Site
Qtly GW Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2005			2006				2007				2008
		Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar
BBMW-01S	5.0 - 15.0	1,333	1,034	2,425	1,043	0	956	2,158	659	4,347	3,927	3,929	1,432
BBMW-01I	32.0 - 42.0	7,734	10,674	8,276	3,679	6,746	7,141	10,165	5,812	7,721	8,946	8,071	10,403
BBMW-01D	68.5 - 78.5	2,832	50	251	349	863	2,250	425	195	2,090	1,248	50	55
BBMW-23S	5.0 - 15.0	1,830	994	890	1,410	959	759	2,521	1,741	2,519	1,785	2,703	2,569
BBMW-23I	33.0 - 43.0	13	33	--	146	88	65	59	199	2,207	2,559	31	16
BBMW-23D	49.5 - 59.5	1,665	2,161	--	2,459	2,391	2,994	2,353	2,591	6,619	5,835	5,620	3,118
BBMW-23D2	63.0 - 73.0	--	--	--	0	--	--	--	0	0	1	0	2
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-6
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Subsurface Barrier Wall
Bay Shore/Brightwaters Former MGP Site
Qtly GW Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2008			2009				2010				2011
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
BBMW-01S	5.0 - 15.0	1,640	1,991	142	359	119	0	126	46	63	44	42	36
BBMW-01I	32.0 - 42.0	6,532	8,764	5,806	3,303	10,202	5,703	5,737	5,463	904	431	1,714	508
BBMW-01D	68.5 - 78.5	183	274	13	68	92	141	220	273	248	135	134	103
BBMW-23S	5.0 - 15.0	2,169	1,838	1,340	1,673	2,456	3,162	2,697	1,571	2,292	948	976	71
BBMW-23I	33.0 - 43.0	14	23	0	12	2	0	237	2	1	0	0	0
BBMW-23D	49.5 - 59.5	188	95	0	0	31	1	27	5	14	15	12	0
BBMW-23D2	63.0 - 73.0	50	0	0	0	0	0	0	0	0	1	0	0
OU2MW-17S	5.0 - 10.0	0	2	0	0	0	0	0	0	0	0	0	0
OU2MW-17I	13.0 - 23.0	25	2	0	0	24	6	2	1	0	0	0	0
OU2MW-17I2	35.0 - 45.0	0	1	0	0	0	0	0	0	0	0	0	0
OU2MW-17D	60.0 - 75.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-18I	13.0 - 23.0	2,957	3,489	5,188	4,932	5,201	4,006	2,881	4,150	1,283	1,745	1,446	3,965
OU2MW-18I2	35.0 - 45.0	0	0	0	0	0	0	0	490	0	30	757	0
OU2MW-18D	60.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	41	10	0	0	0
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	0

Table 4-6
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Subsurface Barrier Wall
Bay Shore/Brightwaters Former MGP Site
Qtly GW Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)								
		Sampling Date				Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2011			2012					
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
BBMW-01S	5.0 - 15.0	3	50	21	2	0	4,347	1,253	0	4,347
BBMW-01I	32.0 - 42.0	0	0	0	0	0	10,674	6,077	0	10,674
BBMW-01D	68.5 - 78.5	0	423	73	88	0	4,871	958	0	4,871
BBMW-23S	5.0 - 15.0	427	224	389	519	71	3,162	1,645	71	3,162
BBMW-23I	33.0 - 43.0	0	2	0	0	0	2,559	175	0	2,559
BBMW-23D	49.5 - 59.5	0	0	0	17	0	6,619	1,327	0	6,619
BBMW-23D2	63.0 - 73.0	0	0	0	0	0	120	8	0	120
OU2MW-17S	5.0 - 10.0	0	0	0	0	0	2	0	0	2
OU2MW-17I	13.0 - 23.0	0	4	0	2	0	25	4	0	25
OU2MW-17I2	35.0 - 45.0	0	0	0	0	0	1	0	0	1
OU2MW-17D	60.0 - 75.0	0	0	0	4	0	0	0	0	4
OU2MW-18I	13.0 - 23.0	1,337	1,164	57	141	57	5,201	2,920	57	5,201
OU2MW-18I2	35.0 - 45.0	0	521	0	46	0	757	120	0	757
OU2MW-18D	60.0 - 70.0	0	13	3	0	0	13	1	0	13
OU2MW-54S	5.0 - 15.0	0	0	0	0	0	41	6	0	41
OU2MW-54I	20.0 - 25.0	0	0	0	0	0	0	0	0	0
OU2MW-54I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0
OU2MW-54D	60.0 - 65.0	0	0	0	0	0	0	0	0	0
OU2MW-58S	5.0-15.0	0	0	2	0	0	2	1	0	2
OU2MW-58I	25.0-30.0	0	0	3	0	0	3	1	0	3

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
BBMW-02S	5.0 - 15.0	--	--	0	--	0	--	--	--	--	--	--	--
BBMW-02I	30.0 - 40.0	--	--	7	--	0	--	--	--	--	--	--	--
BBMW-02D	73.0 - 83.0	--	--	21	--	0	--	--	--	--	--	--	--
BBMW-15S	5.0 - 15.0	--	--	0	--	0	0	0	--	--	0	--	--
BBMW-15I	23.0 - 28.0	--	--	473	--	2	0	0	--	--	0	--	--
BBMW-15I2	35.0 - 45.0	--	--	47	--	0		0	--	--	0	--	--
BBMW-15D	70.0 - 80.0	--	--	0	--	0	--	--	--	--	--	--	--
BBMW-16S	5.0 - 15.0	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-16I	35.0 - 45.0	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-16D	68.0 - 78.0	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-24S	4.0 - 14.0	--	--	--	--	14	0	0	0	0	0	0	0
BBMW-24I	32.0 - 42.0	--	--	--	--	264	533	612	774	833	96	82	2,408
BBMW-24D	59.5 - 69.5	--	--	--	--	1,102	--	1,005	837	1,389	1,420	590	194
GM-03S	6.78 - 21.78	41	15	70	4	36	--	32	--	--	229	--	--
GM-03I	30.03 - 45.03	7	0	26	7	135	--	0	--	--	879	--	--
GM-03D	53.18 - 68.18	175	375	0	0	0	--	0	--	--	0	--	0
MW-16AS	3.0 - 13.0	--	--	0	--	0	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
BBMW-02S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-02I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-02D	73.0 - 83.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-15S	5.0 - 15.0	--	0	0	--	--	0	0	0	0	0	0	0
BBMW-15I	23.0 - 28.0	--	0	--	--	--	--	--	0	--	0	0	0
BBMW-15I2	35.0 - 45.0	--	0	--	--	--	--	--	0	--	0	0	0
BBMW-15D	70.0 - 80.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-16I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-16D	68.0 - 78.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-24S	4.0 - 14.0	0	0	0	0	--	0	0	0	0	0	0	0
BBMW-24I	32.0 - 42.0	2,068	477	1,290	175	--	--	519	--	183	116	115	277
BBMW-24D	59.5 - 69.5	183	666	799	658	--	--	367	--	647	662	0	7
GM-03S	6.78 - 21.78	128	40	--	103	133	19	126	177	69	116	0	0
GM-03I	30.03 - 45.03	--	0	--	137	--	196	0	0	0	0	78	190
GM-03D	53.18 - 68.18	--	0	--	0	--	--	--	--	--	0	0	0
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0
OU2MW-08S	20.0 - 25.0	--	--	--	2,210	--	617	1,456	1,641	829	378	279	305
OU2MW-08I	35.0 - 40.0	--	--	--	181	--	527	196	355	201	167	521	481
OU2MW-08I2	50.0 - 55.0	--	--	--	112	--	172	272	590	582	249	105	120
OU2MW-08D	65.0 - 70.0	--	--	--	0	--	0	0	0	0	0	0	0
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-02S	5.0 - 15.0	0	0	4	0	0	0	0	0	10	0	0	0
BBMW-02I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-02D	73.0 - 83.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15I	23.0 - 28.0	0	0	0	0	0	146	0	0	0	0	0	0
BBMW-15I2	35.0 - 45.0	0	0	0	0	149	0	0	0	0	0	0	0
BBMW-15D	70.0 - 80.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16I	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16D	68.0 - 78.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-24S	4.0 - 14.0	0	0	0	117	0	0	0	0	0	0	0	0
BBMW-24I	32.0 - 42.0	9	0	0	0	0	10	394	14	3	2	1	0
BBMW-24D	59.5 - 69.5	4	176	215	7	15	22	107	29	103	147	65	0
GM-03S	6.78 - 21.78	0	0	0	23	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	129	245	161	257	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	0	0	0	0	--	--	--	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	0	0	--	0	0	0	0	0	0	0	0	0
OU2MW-08S	20.0 - 25.0	332	1,088	858	692	1,010	1,078	898	314	366	426	231	7
OU2MW-08I	35.0 - 40.0	196	88	245	62	69	46	333	209	4	156	168	136
OU2MW-08I2	50.0 - 55.0	545	369	317	248	293	152	39	86	104	136	92	120
OU2MW-08D	65.0 - 70.0	0	0	0	16	0	0	0	0	0	0	0	0
OU2MW-19I	13.0 - 23.0	--	--	1,616	4,617	2,299	82	110	121	65	21	1	0
OU2MW-19I2	35.0 - 45.0	--	--	130	133	112	103	75	61	108	0	10	22
OU2MW-19D	65.0 - 70.0	--	--	--	543	1,818	542	341	127	152	0	13	14
OU2MW-20S	4.0 - 9.0	--	--	0	1	0	0	0	0	0	0	0	0
OU2MW-20I	13.0 - 23.0	--	--	616	354	715	819	158	28	10	26	172	12
OU2MW-20I2	35.0 - 45.0	--	--	1	0	0	0	0	0	0	0	0	0
OU2MW-20D	65.0 - 70.0	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-21S	5.0 - 15.0	--	--	--	--	82	870	0	0	0	0	0	0
OU2MW-21I	13.0 - 23.0	--	--	780	1,041	1,877	4,930	195	26	9	3	0	0
OU2MW-21I2	35.0 - 45.0	--	--	46	83	367	479	99	176	26	5	6	6
OU2MW-22S	5.0 - 15.0	--	--	--	--	0	2	0	0	0	0	0	0
OU2MW-22I	25.0 - 30.0	--	--	--	--	298	125	6	158	3	0	8	89
OU2MW-22I2	46.0 - 51.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-22D	67.0 - 72.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-23S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-23I	25.0 - 30.0	--	--	--	--	2,029	157	117	2,393	112	294	3	1
OU2MW-23I2	45.0 - 50.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-23D	65.0 - 70.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-24S	5.0 - 15.0	--	--	--	--	0	23	0	0	0	0	0	0
OU2MW-24I	25.0 - 30.0	--	--	--	--	2,862	2,153	197	56	0	0	0	0
OU2MW-24I2	45.0 - 50.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-24D	62.0 - 67.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-25S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-25I	25.0 - 30.0	--	--	--	--	125	276	138	49	732	6	0	29

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
OU2MW-25I2	45.0 - 50.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-25D	70.0 - 75.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-26S	6.0 - 11.0	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-26I	13.0 - 23.0	--	--	40	253	245	287	4	5	3	24	0	0
OU2MW-26I2	35.0 - 45.0	--	--	0	5	347	1,559	26	3	319	136	5	41
OU2MW-26D	60.0 - 70.0	--	--	76	167	187	474	335	491	890	362	980	640
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	24	11	12	0
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	18	24	0	0
OU2MW-28S	5.0 - 15.0	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-28I	28.0 - 33.0	--	--	--	400	169	93	3	4	98	0	0	0
OU2MW-28I2	40.0 - 45.0	--	--	--	0	2	1	2	72	66	85	286	264
OU2MW-29I	18.0 - 23.0	--	--	--	1,290	1,715	1,122	480	31	4	0	0	0
OU2MW-29I2	30.0 - 35.0	--	--	--	1,316	246	87	96	99	52	153	118	3
OU2MW-29D	45.0 - 50.0	--	--	--	211	405	359	388	173	211	141	85	188
OU2MW-30S	5.0 - 15.0	--	--	--	52	251	3	0	0	0	0	0	0
OU2MW-30I	25.0 - 30.0	--	--	--	312	281	208	729	218	5	0	0	0
OU2MW-30I2	30.0 - 35.0	--	--	--	533	41	43	471	195	143	80	4	3
OU2MW-30I3	45.0 - 50.0	--	--	--	91	247	254	130	31	19	10	3	37
OU2MW-30D	50.0 - 55.0	--	--	--	301	206	134	197	30	117	62	254	137
OU2MW-30D2	60.0 - 65.0	--	--	--	282	406	375	347	220	303	120	422	301
OU2MW-31I	18.0 - 23.0	--	--	--	512	343	779	856	3	1	0	0	0
OU2MW-31I2	30.0 - 35.0	--	--	--	0	0	1	413	59	0	5	38	2
OU2MW-32S	5.0 - 15.0	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-32I	20.0 - 25.0	--	--	--	2,073	1,355	3,698	5,013	701	899	2,583	2,554	399
OU2MW-32I2	30.0 - 35.0	--	--	--	1,493	375	71	57	7	2	25	76	2
OU2MW-32D	40.0 - 45.0	--	--	--	57	177	25	8	0	0	7	0	0
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	3,159	63	5	36	8	83	2
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	77	2	0	154	1	0	0
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	2	0	0	0	0	0	0
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-34I	25.0 - 30.0	--	--	--	--	--	2,348	2,227	1,041	1,230	1,015	760	211
OU2MW-34I2	45.0 - 50.0	--	--	--	--	--	0	0	0	14	0	0	0
OU2MW-35S	5.0 - 15.0	--	--	--	--	17	9	16	0	0	0	0	0
OU2MW-35I	25.0 - 30.0	--	--	--	--	678	9	12	0	0	0	0	0
OU2MW-35I2	45.0 - 50.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-36S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	--	--	--	--	288	55	42	0	0	0	0	0
OU2MW-36I2	45.0 - 50.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-36D	61.0 - 66.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-37S	5.0 - 15.0	--	--	--	--	0	0	9	18	0	0	0	0
OU2MW-37I	25.0 - 30.0	--	--	--	--	87	373	411	2,623	3	267	11	338
OU2MW-37I2	45.0 - 50.0	--	--	--	--	0	0	4	0	0	0	0	0

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
OU2MW-37D	67.0 - 72.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-38S	5.0 - 15.0	--	--	--	--	0	23	0	0	0	0	0	0
OU2MW-38I	25.0 - 30.0	--	--	--	--	4,001	122	204	240	29	1	0	6
OU2MW-38I2	46.0 - 51.0	--	--	--	--	0	0	0	0	0	0	1	197
OU2MW-38D	56.0 - 61.0	--	--	--	--	0	0	0	0	0	0	0	80
OU2MW-39S	5.0 - 15.0	--	--	--	--	0	0	2	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	--	--	--	--	0	0	5	0	4	18	0	0
OU2MW-39I2	45.0 - 50.0	--	--	--	--	1	0	1	3	0	84	228	26
OU2MW-39D	70.0 - 75.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-40S	5.0 - 15.0	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-40I	18.0 - 23.0	--	--	--	192	61	270	168	24	0	0	0	0
OU2MW-41S	5.0 - 15.0	--	--	--	0	92	8	0	0	0	4	0	0
OU2MW-41I	18.0 - 23.0	--	--	--	1,500	1,625	1,433	585	526	48	358	5	2
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	22	11	0	3	0	0
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	4	86	18	13	33	0
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	0	0	0	2	4	0
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	0	100	45	8	12	18
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	963	1	118	0
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	205	0	2	5
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	81	5	13	12
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	58	14	4	2
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-45S	5.0 - 15.0	--	--	--	--	108	60	15	27	67	1	0	0
OU2MW-45I	20.0 - 25.0	--	--	--	--	3	10	20	1	2	600	62	0
OU2MW-45I2	40.0 - 45.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-45D	55.0 - 60.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-46S	5.0 - 15.0	--	--	--	--	421	422	21	0	0	0	0	0
OU2MW-46I	20.0 - 25.0	--	--	--	--	1,898	1,991	37	0	0	0	0	0
OU2MW-46I2	40.0 - 45.0	--	--	--	--	2	375	185	0	0	0	0	5
OU2MW-47S	5.0 - 15.0	--	--	--	--	148	146	0	0	5	0	0	0
OU2MW-47I	20.0 - 25.0	--	--	--	--	1,039	2,714	40	0	0	0	0	0
OU2MW-47I2	40.0 - 45.0	--	--	--	--	297	159	7	173	3	2	57	0
OU2MW-47D	60.0 - 65.0	--	--	--	--	472	569	695	258	234	39	13	11
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	8	8
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	18	10
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	120	100
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	159	156
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	0
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	45	6
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	0	0
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	0	0

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
BBMW-02S	5.0 - 15.0	11	2	0	0	0	0	0	11	1	0	11
BBMW-02I	30.0 - 40.0	0	0	0	0	0	0	0	7	0	0	7
BBMW-02D	73.0 - 83.0	0	0	0	0	0	0	0	21	1	0	21
BBMW-15S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15I	23.0 - 28.0	0	0	0	0	0	0	0	473	23	0	473
BBMW-15I2	35.0 - 45.0	0	0	2	0	0	0	0	149	8	0	149
BBMW-15D	70.0 - 80.0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16I	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16D	68.0 - 78.0	0	0	0	0	0	0	0	0	0	0	0
BBMW-24S	4.0 - 14.0	0	0	0	0	0	0	0	117	4	0	117
BBMW-24I	32.0 - 42.0	0	0	0	0	0	0	0	2,408	331	0	2,408
BBMW-24D	59.5 - 69.5	0	1	0	9	3	0	0	1,420	346	0	1,420
GM-03S	6.78 - 21.78	--	--	--	--	--	--	0	229	62	0	229
GM-03I	30.03 - 45.03	--	--	--	--	--	--	0	879	122	0	879
GM-03D	53.18 - 68.18	--	--	--	--	--	--	0	375	32	0	375
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	0	0	0	0	0
OU2MW-08WT	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-08S	20.0 - 25.0	0	0	0	0	0	0	0	2,210	601	0	2,210
OU2MW-08I	35.0 - 40.0	108	6	0	0	175	2	0	527	185	0	527
OU2MW-08I2	50.0 - 55.0	105	62	64	97	100	104	39	590	205	39	590
OU2MW-08D	65.0 - 70.0	0	0	0	0	0	0	0	16	1	0	16
OU2MW-19I	13.0 - 23.0	0	0	0	0	0	0	0	4,617	595	0	4,617
OU2MW-19I2	35.0 - 45.0	0	0	0	0	0	0	0	133	50	0	133
OU2MW-19D	65.0 - 70.0	14	38	84	63	13	39	0	1,818	269	0	1,818
OU2MW-20S	4.0 - 9.0	0	0	0	0	0	0	0	1	0	0	1
OU2MW-20I	13.0 - 23.0	35	0	0	0	0	0	0	819	196	0	819
OU2MW-20I2	35.0 - 45.0	0	0	87	0	0	0	0	87	6	0	87
OU2MW-20D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-21S	5.0 - 15.0	0	0	0	0	0	1	0	870	73	0	870
OU2MW-21I	13.0 - 23.0	0	0	0	0	0	2	0	4,930	591	0	4,930
OU2MW-21I2	35.0 - 45.0	0	0	0	0	0	3	0	479	86	0	479
OU2MW-22S	5.0 - 15.0	0	0	0	0	0	0	0	2	0	0	2
OU2MW-22I	25.0 - 30.0	6	0	0	105	0	0	0	298	61	0	298
OU2MW-22I2	46.0 - 51.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-22D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-23S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-23I	25.0 - 30.0	5,108	4,804	3	0	0	2	0	5,108	1,155	0	5,108
OU2MW-23I2	45.0 - 50.0	0	0	0	18	215	224	0	215	18	0	224
OU2MW-23D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-24S	5.0 - 15.0	0	0	0	0	0	0	0	23	2	0	23
OU2MW-24I	25.0 - 30.0	0	0	0	0	0	0	0	2,862	405	0	2,862
OU2MW-24I2	45.0 - 50.0	31	39	114	92	0	0	0	114	21	0	114
OU2MW-24D	62.0 - 67.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-25S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-25I	25.0 - 30.0	260	13	0	7	62	0	0	732	131	0	732

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
OU2MW-25I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-25D	70.0 - 75.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-26S	6.0 - 11.0	0	0	0	0	0	2	0	0	0	0	2
OU2MW-26I	13.0 - 23.0	0	0	0	2	0	0	0	287	58	0	287
OU2MW-26I2	35.0 - 45.0	0	2	0	0	2	6	0	1,559	163	0	1,559
OU2MW-26D	60.0 - 70.0	580	269	48	15	36	73	15	980	370	15	980
OU2MW-27S	5.0 - 15.0	2	0	0	0	0	0	0	2	0	0	2
OU2MW-27I	25.0 - 30.0	1	0	0	0	0	0	0	1	0	0	1
OU2MW-27I2	45.0 - 50.0	6	2	0	0	0	0	0	24	6	0	24
OU2MW-27D	65.0 - 70.0	3	24	7	27	1	0	0	27	12	0	27
OU2MW-28S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-28I	28.0 - 33.0	0	0	0	0	0	0	0	400	55	0	400
OU2MW-28I2	40.0 - 45.0	16	12	56	20	4	105	0	286	63	0	286
OU2MW-29I	18.0 - 23.0	0	0	0	0	0	0	0	1,715	332	0	1,715
OU2MW-29I2	30.0 - 35.0	0	0	0	0	0	0	0	1,316	155	0	1,316
OU2MW-29D	45.0 - 50.0	247	124	160	119	77	64	77	405	206	64	405
OU2MW-30S	5.0 - 15.0	0	0	0	0	0	0	0	251	22	0	251
OU2MW-30I	25.0 - 30.0	0	0	0	0	0	0	0	729	125	0	729
OU2MW-30I2	30.0 - 35.0	0	0	0	0	0	0	0	533	108	0	533
OU2MW-30I3	45.0 - 50.0	1	3	10	97	77	3	1	254	72	1	254
OU2MW-30D	50.0 - 55.0	186	33	30	51	22	26	22	301	126	22	301
OU2MW-30D2	60.0 - 65.0	251	0	1	233	0	1	0	422	233	0	422
OU2MW-31I	18.0 - 23.0	0	0	0	0	0	0	0	856	178	0	856
OU2MW-31I2	30.0 - 35.0	0	0	0	0	0	0	0	413	37	0	413
OU2MW-32S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-32I	20.0 - 25.0	31	0	0	0	0	0	0	5,013	1,379	0	5,013
OU2MW-32I2	30.0 - 35.0	0	1	0	0	0	7	0	1,493	151	0	1,493
OU2MW-32D	40.0 - 45.0	0	0	0	22	270	159	0	270	40	0	270
OU2MW-33S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-33I	25.0 - 30.0	0	0	0	0	0	0	0	3,159	280	0	3,159
OU2MW-33I2	35.0 - 40.0	3	0	0	0	0	0	0	154	20	0	154
OU2MW-33D	50.0 - 55.0	2	0	0	0	0	0	0	2	0	0	2
OU2MW-34S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-34I	25.0 - 30.0	123	0	0	1,403	45	1	0	2,348	867	0	2,348
OU2MW-34I2	45.0 - 50.0	0	0	0	0	42	0	0	42	5	0	42
OU2MW-35S	5.0 - 15.0	0	0	0	0	0	0	0	17	3	0	17
OU2MW-35I	25.0 - 30.0	0	0	0	0	0	0	0	678	54	0	678
OU2MW-35I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	5	0	0	0	0	0	0	5	0	0	5
OU2MW-36S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	0	0	0	0	0	0	0	288	30	0	288
OU2MW-36I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-36D	61.0 - 66.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-37S	5.0 - 15.0	0	0	0	0	0	0	0	18	2	0	18
OU2MW-37I	25.0 - 30.0	0	0	0	0	0	0	0	2,623	316	0	2,623
OU2MW-37I2	45.0 - 50.0	0	0	0	0	0	0	0	4	0	0	4

Table 4-7
Summary of Historical BTEX Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
OU2MW-37D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-38S	5.0 - 15.0	0	0	0	0	0	0	0	23	2	0	23
OU2MW-38I	25.0 - 30.0	1	0	0	0	0	0	0	4,001	354	0	4,001
OU2MW-38I2	46.0 - 51.0	125	445	204	155	43	588	0	445	90	0	588
OU2MW-38D	56.0 - 61.0	18	0	0	0	0	0	0	80	8	0	80
OU2MW-39S	5.0 - 15.0	0	0	0	0	0	1	0	2	0	0	2
OU2MW-39I	25.0 - 30.0	0	0	0	0	0	3	0	18	2	0	18
OU2MW-39I2	45.0 - 50.0	5	5	48	74	151	232	0	228	48	0	232
OU2MW-39D	70.0 - 75.0	0	0	0	0	0	2	0	0	0	0	2
OU2MW-40S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-40I	18.0 - 23.0	0	0	0	0	0	0	0	270	51	0	270
OU2MW-41S	5.0 - 15.0	0	0	0	0	0	0	0	92	7	0	92
OU2MW-41I	18.0 - 23.0	4	0	0	0	0	0	0	1,625	435	0	1,625
OU2MW-42S	5.0 - 15.0	0	0	0	0	0	0	0	22	3	0	22
OU2MW-42I	25.0 - 30.0	0	0	0	0	0	0	0	86	14	0	86
OU2MW-42I2	45.0 - 50.0	0	0	0	0	0	0	0	4	1	0	4
OU2MW-42D	60.0 - 65.0	14	43	17	23	4	8	0	100	26	0	100
OU2MW-43S	5.0 - 15.0	0	0	0	0	0	0	0	963	120	0	963
OU2MW-43I	25.0 - 30.0	0	0	0	0	0	0	0	205	24	0	205
OU2MW-43I2	45.0 - 50.0	32	50	1	7	0	6	0	81	22	0	81
OU2MW-43D	65.0 - 70.0	17	1	77	124	6	66	1	124	34	1	124
OU2MW-44S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-44I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-44I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-44D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-45S	5.0 - 15.0	6	1	0	0	0	0	0	108	22	0	108
OU2MW-45I	20.0 - 25.0	26	0	0	0	0	0	0	600	56	0	600
OU2MW-45I2	40.0 - 45.0	0	0	0	0	1	0	0	1	0	0	1
OU2MW-45D	55.0 - 60.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-46S	5.0 - 15.0	0	0	0	0	0	0	0	422	66	0	422
OU2MW-46I	20.0 - 25.0	0	0	0	0	0	0	0	1,991	302	0	1,991
OU2MW-46I2	40.0 - 45.0	2	0	0	0	0	0	0	375	44	0	375
OU2MW-47S	5.0 - 15.0	0	0	0	0	0	0	0	148	23	0	148
OU2MW-47I	20.0 - 25.0	0	0	0	0	0	0	0	2,714	292	0	2,714
OU2MW-47I2	40.0 - 45.0	0	0	0	3	5	0	0	297	54	0	297
OU2MW-47D	60.0 - 65.0	5	7	50	6	0	0	0	695	181	0	695
OU2MW-55S	5.0 - 15.0	5	0	0	0	0	0	0	8	3	0	8
OU2MW-55I	30.0 - 35.0	7	1	0	0	0	20	0	18	5	0	20
OU2MW-55I2	50.0 - 55.0	14	9	4	4	2	0	2	120	36	0	120
OU2MW-55D	65.0 - 70.0	149	84	59	4	11	0	4	159	89	0	159
OU2MW-56S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-56I	25.0 - 30.0	4	0	0	0	0	0	0	45	8	0	45
OU2MW-56I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-56D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-8
Summary of Historical Total PAH Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sept	Sept	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug
BBMW-02S	5.0 - 15.0	--	--	2	--	0	--	--	--	--	--	--	--
BBMW-02I	30.0 - 40.0	--	--	0	--	0	--	--	--	--	--	--	--
BBMW-02D	73.0 - 83.0	--	--	2	--	0	--	--	--	--	--	--	--
BBMW-15S	5.0 - 15.0	--	--	0	--	0	0	0	--	--	0	--	--
BBMW-15I	23.0 - 28.0	--	--	30	--	0	0	0	--	--	0	--	--
BBMW-15I2	35.0 - 45.0	--	--	3	--	0	0	0	--	--	0	--	--
BBMW-15D	70.0 - 80.0	--	--	0	--	0	--	--	--	--	--	--	--
BBMW-16S	5.0 - 15.0	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-16I	35.0 - 45.0	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-16D	68.0 - 78.0	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-24S	4.0 - 14.0	--	--	--	--	11	0	0	0	908	0	120	0
BBMW-24I	32.0 - 42.0	--	--	--	--	6,632	11,246	6,000	6,400	4,815	4,782	5,284	7,679
BBMW-24D	59.5 - 69.5	--	--	--	--	7,412	--	6,000	5,800	8,110	3,194	1,070	360
GM-03S	6.78 - 21.78	196	6	6	4	37	--	510	--	--	100	--	--
GM-03I	30.03 - 45.03	350	0	21	12	273	--	149	--	--	898	--	--
GM-03D	53.18 - 68.18	661	1,238	0	1	1	--	31	--	--	0	--	0
MW-16AS	3.0 - 13.0	--	--	0	--	0	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-8
Summary of Historical Total PAH Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sept	Sept	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-8
Summary of Historical Total PAH Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sept	Sept	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-8
Summary of Historical Total PAH Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	June	August	Nov/Dec	March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct
BBMW-02S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-02I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-02D	73.0 - 83.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-15S	5.0 - 15.0	--	0	0	--	--	0	0	0	0	0	0	0
BBMW-15I	23.0 - 28.0	--	0	--	--	--	--	--	0	--	0	0	0
BBMW-15I2	35.0 - 45.0	--	0	--	--	--	--	--	0	--	0	0	0
BBMW-15D	70.0 - 80.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-16I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-16D	68.0 - 78.0	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-24S	4.0 - 14.0	0	0	10	0	--	0	0	0	0	0	0	0
BBMW-24I	32.0 - 42.0	8,053	6,062	4,694	5,392	--	--	5,772	--	2,115	184	434	1,863
BBMW-24D	59.5 - 69.5	392	3,232	5,652	5,372	--	--	3,037	--	4,055	3,852	0	1
GM-03S	6.78 - 21.78	182	12	--	183	110	0	250	245	72	235	21	8
GM-03I	30.03 - 45.03	--	67	--	429	--	1,330	0	0	0	0	275	611
GM-03D	53.18 - 68.18	--	0	--	0	--	--	--	--	--	0	0	4
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	7
OU2MW-08S	20.0 - 25.0	--	--	--	2,204	--	9,968	7,000	4,974	8,445	5,763	9,121	8,025
OU2MW-08I	35.0 - 40.0	--	--	--	3,453	--	4,983	4,020	2,328	3,013	507	2,354	799
OU2MW-08I2	50.0 - 55.0	--	--	--	1,364	--	1,666	2,664	1,347	1,961	1,454	1,429	262
OU2MW-08D	65.0 - 70.0	--	--	--	0	--	0	0	0	0	0	111	0
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-8
Summary of Historical Total PAH Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	June	August	Nov/Dec	March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-8
Summary of Historical Total PAH Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	June	August	Nov/Dec	March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-8
Summary of Historical Total PAH Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept
BBMW-02S	5.0 - 15.0	1	0	0	0	0	0	0	0	0	0	0	0
BBMW-02I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-02D	73.0 - 83.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15I	23.0 - 28.0	0	0	0	0	0	48	0	0	0	0	0	0
BBMW-15I2	35.0 - 45.0	0	0	0	0	77	0	0	0	0	0	0	0
BBMW-15D	70.0 - 80.0	2	0	0	0	0	0	0	0	0	0	0	0
BBMW-16S	5.0 - 15.0	2	0	0	0	0	0	0	0	0	0	0	0
BBMW-16I	35.0 - 45.0	0	2	0	0	0	0	0	0	0	0	0	0
BBMW-16D	68.0 - 78.0	0	0	23	0	0	0	0	0	0	0	0	0
BBMW-24S	4.0 - 14.0	0	0	0	120	0	0	0	0	1	0	0	0
BBMW-24I	32.0 - 42.0	103	85	87	0	0	0	1,027	0	0	0	0	0
BBMW-24D	59.5 - 69.5	0	0	160	2	113	233	13	53	131	268	114	26
GM-03S	6.78 - 21.78	8	0	0	47	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	44	2	106	13	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	0	48	0	0	--	--	--	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	0	20	--	0	62	0	0	0	0	0	0	0
OU2MW-08S	20.0 - 25.0	13,563	6,542	6,504	7,369	6,698	4,426	4,661	4,301	714	1,958	820	84
OU2MW-08I	35.0 - 40.0	2,954	2,264	4,805	12,258	8,486	4,781	7,615	2,887	1	344	9	60
OU2MW-08I2	50.0 - 55.0	3,501	1,646	2,120	3,037	2,954	906	0	70	2,140	2,182	524	704
OU2MW-08D	65.0 - 70.0	3,892	0	0	9	0	0	0	0	0	0	0	0
OU2MW-19I	13.0 - 23.0	--	--	1,043	1,459	357	175	92	146	55	26	11	0
OU2MW-19I2	35.0 - 45.0	--	--	6,212	7,648	6,239	7,147	6,811	3,337	5,885	644	41	69
OU2MW-19D	65.0 - 70.0	--	--	--	801	3,718	1,862	2,841	3,601	2,932	0	0	0
OU2MW-20S	4.0 - 9.0	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-20I	13.0 - 23.0	--	--	101	91	0	74	0	0	5	1	2	3
OU2MW-20I2	35.0 - 45.0	--	--	4	0	0	0	0	0	0	0	0	0
OU2MW-20D	65.0 - 70.0	--	--	--	2	0	0	0	0	2	0	0	0
OU2MW-21S	5.0 - 15.0	--	--	--	--	424	341	9	4	0	0	13	0
OU2MW-21I	13.0 - 23.0	--	--	5,417	4,165	297	1,948	24	86	0	17	29	0
OU2MW-21I2	35.0 - 45.0	--	--	3,922	3,985	3,134	3,902	1,244	110	10	6	1	2
OU2MW-22S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-22I	25.0 - 30.0	--	--	--	--	181	32	0	23	0	0	0	22
OU2MW-22I2	46.0 - 51.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-22D	67.0 - 72.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-23S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-23I	25.0 - 30.0	--	--	--	--	429	178	63	323	0	0	0	0
OU2MW-23I2	45.0 - 50.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-23D	65.0 - 70.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-24S	5.0 - 15.0	--	--	--	--	0	0	0	3	0	258	0	0
OU2MW-24I	25.0 - 30.0	--	--	--	--	6,015	5,796	1,068	493	80	0	5	0
OU2MW-24I2	45.0 - 50.0	--	--	--	--	4	0	0	0	0	0	0	0
OU2MW-24D	62.0 - 67.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-25S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-25I	25.0 - 30.0	--	--	--	--	149	121	133	72	63	45	0	6

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Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept
OU2MW-25I2	45.0 - 50.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-25D	70.0 - 75.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-26S	6.0 - 11.0	--	--	0	5	0	0	0	0	0	0	0	0
OU2MW-26I	13.0 - 23.0	--	--	102	154	235	277	0	3	0	1	1	0
OU2MW-26I2	35.0 - 45.0	--	--	54	965	3,990	2,576	26	14	7	15	6	0
OU2MW-26D	60.0 - 70.0	--	--	623	149	1,369	1,742	3,482	4,328	5,814	4,267	2,232	3,291
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	10	2	0	0
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	18	8	0	2
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	1,150	0	2	1
OU2MW-28S	5.0 - 15.0	--	--	--	0	0	0	1	0	0	0	0	0
OU2MW-28I	28.0 - 33.0	--	--	--	283	132	121	0	11	13	0	0	0
OU2MW-28I2	40.0 - 45.0	--	--	--	12	16	15	0	1,712	532	79	4,443	4,414
OU2MW-29I	18.0 - 23.0	--	--	--	863	1,083	700	513	38	6	0	0	0
OU2MW-29I2	30.0 - 35.0	--	--	--	3,642	6,159	2,778	6,117	274	501	76	57	15
OU2MW-29D	45.0 - 50.0	--	--	--	2,656	2,474	314	2,842	2,937	2,890	1,726	789	2,278
OU2MW-30S	5.0 - 15.0	--	--	--	2	1,990	10	0	0	0	0	0	0
OU2MW-30I	25.0 - 30.0	--	--	--	5,560	7,304	5,175	2,186	33	6	11	5	0
OU2MW-30I2	30.0 - 35.0	--	--	--	6,605	5,671	6,025	4,696	195	76	6	2	13
OU2MW-30I3	45.0 - 50.0	--	--	--	93	5,101	5,562	5,586	94	80	3	0	73
OU2MW-30D	50.0 - 55.0	--	--	--	1,087	5,989	1,652	4,681	84	586	8	3	6
OU2MW-30D2	60.0 - 65.0	--	--	--	2,638	4,689	4,735	2,274	15	2,904	147	2,248	2,312
OU2MW-31I	18.0 - 23.0	--	--	--	212	488	79	137	4	0	0	0	0
OU2MW-31I2	30.0 - 35.0	--	--	--	1	6	0	841	21	1	0	0	0
OU2MW-32S	5.0 - 15.0	--	--	--	0	0	63	0	0	0	0	0	0
OU2MW-32I	20.0 - 25.0	--	--	--	4,029	3,970	2,818	7,796	4,621	2,814	1,579	573	202
OU2MW-32I2	30.0 - 35.0	--	--	--	5,230	3,459	1,164	408	94	39	503	578	132
OU2MW-32D	40.0 - 45.0	--	--	--	29	1,336	189	32	10	0	0	0	2
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	565	158	39	66	25	63	10
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	104	14	4	679	16	6	0
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-34I	25.0 - 30.0	--	--	--	--	--	257	333	153	280	295	195	53
OU2MW-34I2	45.0 - 50.0	--	--	--	--	--	3	0	0	11	0	0	0
OU2MW-35S	5.0 - 15.0	--	--	--	--	3	0	0	0	0	0	0	0
OU2MW-35I	25.0 - 30.0	--	--	--	--	2,270	250	8	0	0	0	0	0
OU2MW-35I2	45.0 - 50.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	--	--	--	--	4	0	0	0	0	0	0	0
OU2MW-36S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	--	--	--	--	1,302	573	325	0	0	0	0	0
OU2MW-36I2	45.0 - 50.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-36D	61.0 - 66.0	--	--	--	--	0	1	0	0	0	0	0	0
OU2MW-37S	5.0 - 15.0	--	--	--	--	0	0	3	0	0	0	0	0
OU2MW-37I	25.0 - 30.0	--	--	--	--	43	38	216	23	0	11	0	65
OU2MW-37I2	45.0 - 50.0	--	--	--	--	0	0	3	0	0	0	0	0

Table 4-8
Summary of Historical Total PAH Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept
OU2MW-37D	67.0 - 72.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-38S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-38I	25.0 - 30.0	--	--	--	--	2,992	2,202	206	61	14	0	0	0
OU2MW-38I2	46.0 - 51.0	--	--	--	--	0	0	0	0	0	0	0	26
OU2MW-38D	56.0 - 61.0	--	--	--	--	0	0	0	0	0	0	0	60
OU2MW-39S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	--	--	--	--	32	4	3	0	0	0	0	0
OU2MW-39I2	45.0 - 50.0	--	--	--	--	1	0	55	130	1	671	220	89
OU2MW-39D	70.0 - 75.0	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-40S	5.0 - 15.0	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-40I	18.0 - 23.0	--	--	--	165	122	167	71	25	16	14	0	0
OU2MW-41S	5.0 - 15.0	--	--	--	0	143	0	0	0	0	1	19	0
OU2MW-41I	18.0 - 23.0	--	--	--	2,370	3,785	4,276	1,981	540	129	543	0	13
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	107	0	0	5	0	0
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	2	0	0	106	14	7
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	4	185	373	199	80	56
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	219	31	0	0
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	197	18	0	0
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	5,130	10	96	0
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	14	71	10	4
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	1	0	0	0
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	--	--	45	0	0	0
OU2MW-45I	20.0 - 25.0	--	--	--	--	30	8	5	1	2	200	25	1
OU2MW-45I2	40.0 - 45.0	--	--	--	--	39	7	0	0	0	0	0	0
OU2MW-45D	55.0 - 60.0	--	--	--	--	0	0	0	2	0	0	0	0
OU2MW-46S	5.0 - 15.0	--	--	--	--	0	31	0	0	0	0	0	0
OU2MW-46I	20.0 - 25.0	--	--	--	--	2,503	2,169	12	0	0	0	0	0
OU2MW-46I2	40.0 - 45.0	--	--	--	--	0	4	56	0	0	0	0	0
OU2MW-47S	5.0 - 15.0	--	--	--	--	56	0	0	0	0	0	0	0
OU2MW-47I	20.0 - 25.0	--	--	--	--	785	1,043	4	0	1	0	0	0
OU2MW-47I2	40.0 - 45.0	--	--	--	--	6,146	3,627	8	31	7	4	8	0
OU2MW-47D	60.0 - 65.0	--	--	--	--	7,437	7,007	6,751	3,906	1,550	0	6	32
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	0
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	0	0
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	18	336
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	179	29
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	0
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	6	0
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	0	0
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	0	0

Table 4-8
Summary of Historical Total PAH Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar					
BBMW-02S	5.0 - 15.0	0	0	0	2	0	0	0	2	0	0	2
BBMW-02I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0
BBMW-02D	73.0 - 83.0	0	0	0	0	0	0	0	2	0	0	2
BBMW-15S	5.0 - 15.0	0	0	2	0	0	0	0	2	0	0	2
BBMW-15I	23.0 - 28.0	0	0	0	0	0	0	0	48	3	0	48
BBMW-15I2	35.0 - 45.0	0	0	0	0	0	0	0	77	3	0	77
BBMW-15D	70.0 - 80.0	0	0	0	0	0	0	0	2	0	0	2
BBMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	2	0	0	2
BBMW-16I	35.0 - 45.0	0	0	0	0	0	1	0	2	0	0	2
BBMW-16D	68.0 - 78.0	0	0	0	0	0	0	0	23	1	0	23
BBMW-24S	4.0 - 14.0	0	0	0	0	0	0	0	908	33	0	908
BBMW-24I	32.0 - 42.0	0	0	0	0	0	0	0	11,246	2,609	0	11,246
BBMW-24D	59.5 - 69.5	3	1	0	2	0	0	0	8,110	1,778	0	8,110
GM-03S	6.78 - 21.78	--	--	--	--	--	--	0	510	101	0	510
GM-03I	30.03 - 45.03	--	--	--	--	--	--	0	1,330	229	0	1,330
GM-03D	53.18 - 68.18	--	--	--	--	--	--	0	1,238	117	0	1,238
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	0	0	0	0	0
OU2MW-08WT	3.0 - 8.0	0	0	0	0	0	0	0	62	5	0	62
OU2MW-08S	20.0 - 25.0	52	1	4	2	4	0	1	13,563	4,528	0	13,563
OU2MW-08I	35.0 - 40.0	0	0	7	17	0	39	0	12,258	2,718	0	12,258
OU2MW-08I2	50.0 - 55.0	2,146	489	909	2,102	2,599	1,989	0	3,501	1,607	0	3,501
OU2MW-08D	65.0 - 70.0	0	0	0	6	0	0	0	3,892	161	0	3,892
OU2MW-19I	13.0 - 23.0	0	0	0	0	0	0	0	1,459	224	0	1,459
OU2MW-19I2	35.0 - 45.0	4	3	0	0	0	0	0	7,648	2,936	0	7,648
OU2MW-19D	65.0 - 70.0	30	212	20	4	14	254	0	3,718	1,145	0	3,718
OU2MW-20S	4.0 - 9.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-20I	13.0 - 23.0	16	0	0	0	0	0	0	101	20	0	101
OU2MW-20I2	35.0 - 45.0	0	0	0	5	0	0	0	5	1	0	5
OU2MW-20D	65.0 - 70.0	0	0	0	0	0	0	0	2	0	0	2
OU2MW-21S	5.0 - 15.0	0	0	0	0	0	0	0	424	61	0	424
OU2MW-21I	13.0 - 23.0	0	0	0	0	0	0	0	5,417	799	0	5,417
OU2MW-21I2	35.0 - 45.0	1	1	0	0	0	0	0	3,985	1,088	0	3,985
OU2MW-22S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-22I	25.0 - 30.0	22	0	0	58	0	0	0	181	26	0	181
OU2MW-22I2	46.0 - 51.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-22D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-23S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-23I	25.0 - 30.0	583	1,009	0	0	0	2	0	1,009	199	0	1,009
OU2MW-23I2	45.0 - 50.0	0	2	0	9	434	126	0	434	34	0	434
OU2MW-23D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-24S	5.0 - 15.0	0	0	0	0	0	0	0	258	20	0	258
OU2MW-24I	25.0 - 30.0	0	0	0	0	0	0	0	6,015	1,035	0	6,015
OU2MW-24I2	45.0 - 50.0	187	9	24	356	3	1	0	356	45	0	356
OU2MW-24D	62.0 - 67.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-25S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-25I	25.0 - 30.0	52	30	3	1	30	4	0	149	54	0	149

Table 4-8
Summary of Historical Total PAH Groundwater Analytical Results - Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar					
OU2MW-25I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-25D	70.0 - 75.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-26S	6.0 - 11.0	0	0	0	0	0	0	0	5	0	0	5
OU2MW-26I	13.0 - 23.0	0	0	0	0	19	0	0	277	53	0	277
OU2MW-26I2	35.0 - 45.0	0	0	0	0	0	0	0	3,990	510	0	3,990
OU2MW-26D	60.0 - 70.0	3,640	381	14	14	0	6	0	5,814	2,090	0	5,814
OU2MW-27S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-27I	25.0 - 30.0	0	0	0	0	0	0	0	10	1	0	10
OU2MW-27I2	45.0 - 50.0	1	0	0	0	0	0	0	18	3	0	18
OU2MW-27D	65.0 - 70.0	0	0	4	438	0	10	0	1,150	177	0	1,150
OU2MW-28S	5.0 - 15.0	0	0	0	1	0	0	0	1	0	0	1
OU2MW-28I	28.0 - 33.0	0	0	0	1	0	0	0	283	40	0	283
OU2MW-28I2	40.0 - 45.0	0	0	3	99	20	183	0	4,443	810	0	4,443
OU2MW-29I	18.0 - 23.0	0	1	27	0	0	0	0	1,083	231	0	1,083
OU2MW-29I2	30.0 - 35.0	1	0	0	0	0	0	0	6,159	1,401	0	6,159
OU2MW-29D	45.0 - 50.0	652	1,316	721	1,513	813	1,372	314	2,937	1,709	314	2,937
OU2MW-30S	5.0 - 15.0	0	0	0	0	0	0	0	1,990	143	0	1,990
OU2MW-30I	25.0 - 30.0	0	0	0	0	0	0	0	7,304	1,449	0	7,304
OU2MW-30I2	30.0 - 35.0	0	0	0	0	0	0	0	6,605	1,664	0	6,605
OU2MW-30I3	45.0 - 50.0	0	0	0	5	4	0	0	5,586	1,186	0	5,586
OU2MW-30D	50.0 - 55.0	2	5	0	2	0	3	0	5,989	1,008	0	5,989
OU2MW-30D2	60.0 - 65.0	273	10	0	194	0	0	0	4,735	1,603	0	4,735
OU2MW-31I	18.0 - 23.0	0	0	0	0	0	0	0	488	66	0	488
OU2MW-31I2	30.0 - 35.0	0	18	0	0	0	0	0	841	63	0	841
OU2MW-32S	5.0 - 15.0	0	0	0	0	0	0	0	63	5	0	63
OU2MW-32I	20.0 - 25.0	116	34	25	27	21	22	21	7,796	2,045	21	7,796
OU2MW-32I2	30.0 - 35.0	58	14	10	16	6	26	6	5,230	837	6	5,230
OU2MW-32D	40.0 - 45.0	0	0	0	2	598	4	0	1,336	157	0	1,336
OU2MW-33S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-33I	25.0 - 30.0	0	0	0	0	0	0	0	565	77	0	565
OU2MW-33I2	35.0 - 40.0	0	0	0	0	0	0	0	679	69	0	679
OU2MW-33D	50.0 - 55.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-34S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-34I	25.0 - 30.0	34	14	2	230	2	0	2	333	154	0	333
OU2MW-34I2	45.0 - 50.0	0	0	0	0	17	14	0	17	3	0	17
OU2MW-35S	5.0 - 15.0	0	0	0	0	0	0	0	3	0	0	3
OU2MW-35I	25.0 - 30.0	0	0	0	0	0	0	0	2,270	194	0	2,270
OU2MW-35I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	8	0	0	0	0	4	0	8	1	0	8
OU2MW-36S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	0	0	0	0	0	0	0	1,302	169	0	1,302
OU2MW-36I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-36D	61.0 - 66.0	0	0	0	0	0	0	0	1	0	0	1
OU2MW-37S	5.0 - 15.0	0	0	0	0	0	0	0	3	0	0	3
OU2MW-37I	25.0 - 30.0	0	0	0	0	0	0	0	216	30	0	216
OU2MW-37I2	45.0 - 50.0	0	0	0	0	0	0	0	3	0	0	3

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Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010	2011				2012					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar					
OU2MW-37D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-38S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-38I	25.0 - 30.0	0	0	0	0	0	0	0	2,992	421	0	2,992
OU2MW-38I2	46.0 - 51.0	5	7	116	164	0	439	0	164	24	0	439
OU2MW-38D	56.0 - 61.0	11	0	0	0	0	0	0	60	5	0	60
OU2MW-39S	5.0 - 15.0	0	0	0	0	4	0	0	4	0	0	4
OU2MW-39I	25.0 - 30.0	0	0	0	0	2	1	0	32	3	0	32
OU2MW-39I2	45.0 - 50.0	0	14	0	393	1,217	1,051	0	1,217	215	0	1,217
OU2MW-39D	70.0 - 75.0	0	0	0	0	0	1	0	0	0	0	1
OU2MW-40S	5.0 - 15.0	0	0	0	0	51	0	0	51	4	0	51
OU2MW-40I	18.0 - 23.0	0	0	0	0	0	10	0	167	41	0	167
OU2MW-41S	5.0 - 15.0	0	0	0	0	0	0	0	143	12	0	143
OU2MW-41I	18.0 - 23.0	0	0	0	0	54	66	0	4,276	978	0	4,276
OU2MW-42S	5.0 - 15.0	5	0	2	3	0	0	0	107	11	0	107
OU2MW-42I	25.0 - 30.0	0	0	0	0	0	0	0	106	12	0	106
OU2MW-42I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-42D	60.0 - 65.0	121	26	115	68	13	41	4	373	113	4	373
OU2MW-43S	5.0 - 15.0	0	0	0	0	0	0	0	219	28	0	219
OU2MW-43I	25.0 - 30.0	0	0	0	0	0	0	0	197	24	0	197
OU2MW-43I2	45.0 - 50.0	1,293	259	5	38	0	218	0	5,130	759	0	5,130
OU2MW-43D	65.0 - 70.0	44	0	119	320	416	333	0	416	111	0	416
OU2MW-44S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-44I	25.0 - 30.0	0	0	0	0	0	0	0	1	0	0	1
OU2MW-44I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-44D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-45S	5.0 - 15.0	0	0	0	0	0	0	0	45	5	0	45
OU2MW-45I	20.0 - 25.0	0	0	0	0	0	0	0	200	21	0	200
OU2MW-45I2	40.0 - 45.0	0	0	0	0	0	0	0	39	4	0	39
OU2MW-45D	55.0 - 60.0	0	0	13	0	0	0	0	13	1	0	13
OU2MW-46S	5.0 - 15.0	0	0	0	0	0	0	0	31	2	0	31
OU2MW-46I	20.0 - 25.0	0	0	0	0	0	0	0	2,503	360	0	2,503
OU2MW-46I2	40.0 - 45.0	0	0	0	0	0	0	0	56	5	0	56
OU2MW-47S	5.0 - 15.0	0	0	0	0	0	0	0	56	4	0	56
OU2MW-47I	20.0 - 25.0	0	0	0	0	0	0	0	1,043	141	0	1,043
OU2MW-47I2	40.0 - 45.0	0	0	0	0	0	0	0	6,146	756	0	6,146
OU2MW-47D	60.0 - 65.0	4	2	21	10	0	0	0	7,437	2,056	0	7,437
OU2MW-55S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-55I	30.0 - 35.0	0	0	0	0	111	0	0	111	16	0	111
OU2MW-55I2	50.0 - 55.0	0	0	0	0	0	0	0	336	51	0	336
OU2MW-55D	65.0 - 70.0	252	5	35	2	0	0	0	252	72	0	252
OU2MW-56S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-56I	25.0 - 30.0	0	0	0	0	0	0	0	6	1	0	6
OU2MW-56I2	45.0 - 50.0	0	0	0	0	8	0	0	8	1	0	8
OU2MW-56D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-9
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
Qtly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2000	2002			2003			2004	
		Sep	Sep	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May
BBMW-03S	3.0 - 13.0	--	--	0	--	2	0	--	--	--	--	--	--
BBMW-03I	30.0 - 40.0	--	--	2	--	1	0	--	--	--	--	--	--
BBMW-03D	52.0 - 62.0	--	--	3	--	3	0	--	--	--	--	--	--
BBMW-07S	5.0 - 15.0	--	--	2	--	--	5	0	0	116	241	160	11
BBMW-07I	30.0 - 40.0	--	--	0	--	--	0	0	--	--	--	--	--
BBMW-07D	55.0 - 65.0	--	--	0	--	--	0	--	--	--	--	--	--
BBMW-25S	4.0 - 14.0	--	--	--	--	--	58	0	0	0	0	0	--
BBMW-25I	25.0 - 35.0	--	--	--	--	--	1,034	533	1,330	980	1,707	1,304	936
BBMW-25D	62.0 - 72.0	--	--	--	--	--	45	--	59	75	44	29	20
GM-05S	5.1 - 20.1	0	422	283	124	27	106	307	87	367	0	0	0
GM-05I	35.05 - 48.05	0	0	2	0	0	0	0	0	--	0	--	--
GM-05D	60.95 - 75.95	0	0	0	0	0	0	--	--	--	--	--	--
GMP-01	25.0 - 30.0	--	--	--	1,090	1,056	433	348	250	824	454	692	455
GMP-02	18.0 - 23.0	--	--	--	1,387	321	197	2,268	710	2,275	1,194	1,735	913
GMP-04	15.5 - 20.5	--	--	--	60	67	44	82	0	11	12	331	385
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-9
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2000	2002			2003			2004	
		Sep	Sep	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-9
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Montauk Highway
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Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004		2005				2006				2007	
		Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul
BBMW-03S	3.0 - 13.0	0	0	--	--	0	--	0	0	0	0	393	0
BBMW-03I	30.0 - 40.0	0	0	--	--	0	--	0	0	0	0	0	0
BBMW-03D	52.0 - 62.0	--	0	--	--	0	--	0	0	0	0	0	0
BBMW-07S	5.0 - 15.0	39	20	0	--	--	0	0	0	37	0	0	0
BBMW-07I	30.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	0
BBMW-07D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	25	0
BBMW-25S	4.0 - 14.0	0	0	0	--	0	0	0	0	0	0	0	0
BBMW-25I	25.0 - 35.0	865	1,007	1,995	--	1,082	1,360	264	0	79	344	0	150
BBMW-25D	62.0 - 72.0	0	110	78	--	47	--	11	21	78	76	0	0
GM-05S	5.1 - 20.1	157	0	134	0	40	57	140	21	0	12	0	2
GM-05I	35.05 - 48.05	0	0	--	--	--	--	0	--	--	--	0	0
GM-05D	60.95 - 75.95	0	--	--	--	--	--	0	--	--	--	0	0
GMP-01	25.0 - 30.0	587	200	2,130	3,200	1,280	250	562	577	1,156	4,726	185	169
GMP-02	18.0 - 23.0	660	24	1,318	1,090	550	311	151	11	12	0	0	0
GMP-04	15.5 - 20.5	345	1,483	263	214	366	1,132	242	83	242	280	652	36
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-01S	20.0 - 25.0	--	--	--	--	1,243	--	348	176	988	288	876	46
OU2MW-01I	35.0 - 40.0	--	--	--	--	77	--	767	170	170	424	885	443
OU2MW-01I2	50.0 - 55.0	--	--	--	--	25	--	195	126	52	51	51	31
OU2MW-01D	65.0 - 70.0	--	--	--	--	0	--	0	0	0	0	0	0
OU2MW-02S	20.0 - 25.0	--	--	--	--	100	--	181	111	282	573	27	270
OU2MW-02I	35.0 - 40.0	--	--	--	--	477	--	370	415	493	459	645	260
OU2MW-02I2	50.0 - 55.0	--	--	--	--	10	--	0	0	0	0	0	0
OU2MW-02D	65.0 - 70.0	--	--	--	--	0	--	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	--	--	--	--	151	--	530	234	225	206	0	1,108
OU2MW-03I	35.0 - 40.0	--	--	--	--	0	--	0	0	0	182	0	0
OU2MW-03I2	50.0 - 55.0	--	--	--	--	0	--	0	0	0	0	11	29
OU2MW-03D	65.0 - 70.0	--	--	--	--	0	--	0	0	0	0	0	0
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-04S	20.0 - 25.0	--	--	--	--	3,130	--	844	740	1,176	386	421	873
OU2MW-04I	35.0 - 40.0	--	--	--	--	267	--	885	296	23	0	134	244
OU2MW-04I2	50.0 - 55.0	--	--	--	--	41	--	32	0	0	0	0	5
OU2MW-04D	65.0 - 70.0	--	--	--	--	0	--	0	0	0	0	0	0
OU2MW-05	25.0 - 35.0	--	--	--	--	1,120	--	224	254	1,039	3,159	280	188
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-06	15.0 - 25.0	--	--	--	--	1,085	--	11	0	0	0	53	0
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-07	15.0 - 25.0	--	--	--	--	35	--	59	39	0	35	0	3
OU2MW-09	30.0 - 40.0	--	--	--	--	0	--	0	0	0	0	0	0
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	3
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	168
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	293

Table 4-9
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Montauk Highway
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004		2005				2006				2007	
		Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	3
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	466
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	30
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	23
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	29
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	4
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	795
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	79
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-9
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007		2008				2009				2010	
		Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
BBMW-03S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-03I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-03D	52.0 - 62.0	0	0	0	0	0	0	0	0	0	0	0	1
BBMW-07S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-07I	30.0 - 40.0	--	0	0	0	0	0	0	0	0	0	0	0
BBMW-07D	55.0 - 65.0	--	0	0	0	0	0	0	0	0	0	0	0
BBMW-25S	4.0 - 14.0	0	0	2	0	0	0	0	0	0	0	0	0
BBMW-25I	25.0 - 35.0	252	41	158	169	101	523	469	301	46	18	6	0
BBMW-25D	62.0 - 72.0	16	6	2	6	8	8	35	32	2	4	15	9
GM-05S	5.1 - 20.1	0	14	185	55	16	113	8	36	11	6	8	7
GM-05I	35.05 - 48.05	13	0	0	0	0	0	0	0	0	0	0	0
GM-05D	60.95 - 75.95	0	0	4	0	0	0	2	0	0	0	0	0
GMP-01	25.0 - 30.0	49	135	182	94	170	655	762	869	432	372	535	247
GMP-02	18.0 - 23.0	0	0	3	4	0	0	0	0	0	0	0	0
GMP-04	15.5 - 20.5	295	264	15	0	0	0	0	0	0	0	0	0
OU2IW-01S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-01WT	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-01S	20.0 - 25.0	182	102	42	6	15	82	69	334	107	2	0	4
OU2MW-01I	35.0 - 40.0	408	85	8	1	13	10	2	195	186	4	2	0
OU2MW-01I2	50.0 - 55.0	0	0	0	0	0	0	0	0	3	1	0	47
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-02S	20.0 - 25.0	137	1	29	52	20	6	5	184	46	0	0	0
OU2MW-02I	35.0 - 40.0	410	229	377	412	281	359	370	335	350	154	378	118
OU2MW-02I2	50.0 - 55.0	0	1	11	0	2	1	3	2	0	0	0	0
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	223	9	45	94	42	53	30	99	48	90	13	0
OU2MW-03I	35.0 - 40.0	0	0	0	0	85	1,262	366	15	0	14	158	219
OU2MW-03I2	50.0 - 55.0	0	0	0	0	0	0	5	38	10	8	2	0
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-04WT	3.0 - 8.0	0	0	0	0	0	10	0	0	0	0	0	0
OU2MW-04S	20.0 - 25.0	253	600	791	200	200	730	841	891	654	818	345	70
OU2MW-04I	35.0 - 40.0	252	158	174	25	67	120	97	198	28	22	68	68
OU2MW-04I2	50.0 - 55.0	0	0	0	0	0	0	0	189	1	0	63	36
OU2MW-04D	65.0 - 70.0	0	3	2	1	0	1	2	0	0	0	0	0
OU2MW-05	25.0 - 35.0	110	202	221	158	181	514	466	290	369	242	94	137
OU2MW-06S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-06	15.0 - 25.0	0	0	11	3	0	2	0	0	0	0	0	3
OU2MW-07S	3.0 - 8.0	0	0	1	0	0	0	0	0	0	0	0	0
OU2MW-07	15.0 - 25.0	0	1	15	3	3	0	0	2	0	0	4	53
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	1
OU2MW-10S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-10I	20.0 - 25.0	0	278	906	14	10	143	76	33	32	36	0	41
OU2MW-10D	35.0 - 40.0	0	0	0	198	39	351	78	0	28	43	0	2
OU2MW-11S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-11I	20.0 - 25.0	13	356	245	263	249	227	170	132	69	153	48	187
OU2MW-11I2	30.0 - 35.0	329	43	67	33	41	81	98	25	1	66	10	0

Table 4-9
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007		2008				2009				2010	
		Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-11D	40.0 - 45.0	0	0	0	0	0	0	8	5	20	18	26	56
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I	20.0 - 25.0	143	70	70	81	78	62	107	48	139	96	77	13
OU2MW-12I2	30.0 - 35.0	2	7	23	2	0	0	53	19	7	58	0	2
OU2MW-12D	40.0 - 45.0	13	21	17	11	0	0	0	0	0	0	0	80
OU2MW-13S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	9	0	7	4	1	7	13	3	22	0	19	8
OU2MW-13D	35.0 - 40.0	27	5	0	10	10	0	34	13	29	23	9	10
OU2MW-14S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-14I	20.0 - 25.0	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-14I2	45.0 - 50.0	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-15S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-15I	20.0 - 25.0	32	1	40	8	6	14	0	63	175	3	0	0
OU2MW-15I2	30.0 - 35.0	599	367	0	0	0	0	0	0	0	0	0	0
OU2MW-15D	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16I	15.0 - 20.0	1	11	0	0	0	0	0	0	0	0	0	0
OU2MW-16I2	25.0 - 30.0	9	53	6	2	0	0	0	0	84	0	0	0
OU2MW-16D	35.0 - 40.0	0	0	149	0	0	1	0	2	0	0	0	0
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	128	0	0	0	0
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	0	0	0	2	0

Table 4-9
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date							Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010		2011				2012					
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
BBMW-03S	3.0 - 13.0	0	0	0	0	0	0	0	0	393	13	0	393
BBMW-03I	30.0 - 40.0	0	0	0	0	0	0	0	0	2	0	0	2
BBMW-03D	52.0 - 62.0	1	0	0	0	0	0	0	0	3	0	0	3
BBMW-07S	5.0 - 15.0	0	0	0	0	0	0	0	0	241	18	0	241
BBMW-07I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-07D	55.0 - 65.0	0	0	0	0	0	0	0	0	25	1	0	25
BBMW-25S	4.0 - 14.0	0	0	0	0	0	0	0	0	58	2	0	58
BBMW-25I	25.0 - 35.0	0	0	0	0	0	0	0	0	1,995	474	0	1,995
BBMW-25D	62.0 - 72.0	0	0	0	0	23	7	1	0	110	25	0	110
GM-05S	5.1 - 20.1	13	2	0	0	1	0	0	0	422	66	0	422
GM-05I	35.05 - 48.05	0	0	0	0	0	0	0	0	13	0	0	13
GM-05D	60.95 - 75.95	0	0	0	0	0	0	0	0	4	0	0	4
GMP-01	25.0 - 30.0	93	37	68	7	12	2	0	2	4,726	650	0	4,726
GMP-02	18.0 - 23.0	3	0	0	0	0	0	0	0	2,275	388	0	2,275
GMP-04	15.5 - 20.5	0	3	0	0	0	0	0	0	1,483	177	0	1,483
OU2IW-01S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-01WT	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-01S	20.0 - 25.0	0	0	0	0	0	0	0	0	1,243	196	0	1,243
OU2MW-01I	35.0 - 40.0	0	0	0	0	0	0	3	0	885	154	0	885
OU2MW-01I2	50.0 - 55.0	14	10	0	0	0	0	0	0	195	24	0	195
OU2MW-01D	65.0 - 70.0	72	0	0	0	0	0	1	0	72	3	0	72
OU2MW-02S	20.0 - 25.0	0	0	0	0	0	0	0	0	573	81	0	573
OU2MW-02I	35.0 - 40.0	136	179	137	130	97	107	61	97	645	307	61	645
OU2MW-02I2	50.0 - 55.0	0	0	0	0	0	0	0	0	11	1	0	11
OU2MW-02D	65.0 - 70.0	0	0	0	0	4	0	0	0	4	0	0	4
OU2MW-03S	20.0 - 25.0	7	0	0	0	0	0	0	0	1,108	128	0	1,108
OU2MW-03I	35.0 - 40.0	0	0	0	0	0	0	0	0	1,262	92	0	1,262
OU2MW-03I2	50.0 - 55.0	0	0	0	0	0	0	0	0	38	4	0	38
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-04WT	3.0 - 8.0	0	0	0	0	0	0	0	0	10	1	0	10
OU2MW-04S	20.0 - 25.0	89	51	0	0	0	0	0	0	3,130	564	0	3,130
OU2MW-04I	35.0 - 40.0	17	34	123	121	115	136	118	0	885	147	0	885
OU2MW-04I2	50.0 - 55.0	7	0	0	0	0	8	0	0	189	15	0	189
OU2MW-04D	65.0 - 70.0	0	0	0	0	0	0	0	0	3	0	0	3
OU2MW-05	25.0 - 35.0	139	51	30	8	18	11	2	8	3,159	380	2	3,159
OU2MW-06S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-06	15.0 - 25.0	0	0	0	0	0	0	0	0	1,085	47	0	1,085
OU2MW-07S	3.0 - 8.0	0	0	0	0	0	0	0	0	1	0	0	1
OU2MW-07	15.0 - 25.0	0	0	0	0	0	0	9	0	59	10	0	59
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	0	0	1	0	0	1
OU2MW-10S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-10I	20.0 - 25.0	529	326	140	192	13	2	0	0	906	146	0	906
OU2MW-10D	35.0 - 40.0	65	120	4	0	0	0	0	0	351	49	0	351
OU2MW-11S	3.0 - 8.0	0	0	--	0	0	0	2	0	0	0	0	2
OU2MW-11I	20.0 - 25.0	55	73	91	27	2	0	0	0	356	133	0	356
OU2MW-11I2	30.0 - 35.0	0	24	9	4	8	18	18	0	329	61	0	329

Table 4-9
Summary of Historical BTEX Groundwater Analytical Results - Downgradient of Montauk Highway
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date							Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010		2011				2012					
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
OU2MW-11D	40.0 - 45.0	39	1	14	19	92	1	5	0	92	16	0	92
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	2	0	0	0	0	2
OU2MW-12I	20.0 - 25.0	35	121	60	5	0	0	0	0	466	88	0	466
OU2MW-12I2	30.0 - 35.0	37	3	26	5	0	3	0	0	58	15	0	58
OU2MW-12D	40.0 - 45.0	73	49	0	15	16	4	2	0	80	17	0	80
OU2MW-13S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	3	0	2	1	0	0	0	0	29	7	0	29
OU2MW-13D	35.0 - 40.0	8	24	10	2	1	0	8	0	34	12	0	34
OU2MW-14S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-14I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-14I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-15S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-15I	20.0 - 25.0	73	6	12	83	0	0	0	0	795	69	0	795
OU2MW-15I2	30.0 - 35.0	0	184	0	0	0	0	0	0	599	61	0	599
OU2MW-15D	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16I	15.0 - 20.0	0	0	0	0	26	0	0	0	79	6	0	79
OU2MW-16I2	25.0 - 30.0	22	0	5	0	0	4	0	0	84	10	0	84
OU2MW-16D	35.0 - 40.0	0	0	0	0	0	20	0	0	149	9	0	149
OU2MW-52S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	0	0	0	0	0	0	0	0	128	12	0	128
OU2MW-52D	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-53S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-53I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-53D	35.0 - 40.0	0	0	0	0	0	3	0	0	3	0	0	3

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-10
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
Qtly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2000	2002			2003			2004	
		Sep	Sep	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May
BBMW-03S	3.0 - 13.0	--	--	0	--	0	0	--	--	--	--	--	--
BBMW-03I	30.0 - 40.0	--	--	0	--	2	0	--	--	--	--	--	--
BBMW-03D	52.0 - 62.0	--	--	0	--	0	0	--	--	--	--	--	--
BBMW-07S	5.0 - 15.0	--	--	2	--	--	6	0	710	170	62	24	0
BBMW-07I	30.0 - 40.0	--	--	0	--	--	0	0	--	--	--	--	--
BBMW-07D	55.0 - 65.0	--	--	0	--	--	0	--	--	--	--	--	--
BBMW-25S	4.0 - 14.0	--	--	--	--	--	22	0	0	0	--	0	--
BBMW-25I	25.0 - 35.0	--	--	--	--	--	7,436	10,185	4,900	4,700	--	4,860	7,761
BBMW-25D	62.0 - 72.0	--	--	--	--	--	1,553	--	280	1,550	298	135	144
GM-05S	5.1 - 20.1	649	2,453	1,181	505	88	1,286	237	858	230	--	0	0
GM-05I	35.05 - 48.05	0	4	14	0	0	0	0	0	--	--	--	--
GM-05D	60.95 - 75.95	0	0	0	0	0	0	--	--	--	--	--	--
GMP-01	25.0 - 30.0	--	--	--	1,590	2,270	1,336	230	880	270	1,001	421	1,281
GMP-02	18.0 - 23.0	--	--	--	2,764	4,216	3,447	6,788	3,300	4,000	7,010	3,772	6,967
GMP-04	15.5 - 20.5	--	--	--	290	1,135	287	113	0	430	44	459	206
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-10
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
Qtly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2000	2002			2003			2004	
		Sep	Sep	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-10
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
Qtly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004		2005				2006				2007	
		Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul
BBMW-03S	3.0 - 13.0	0	0	--	--	0	--	0	0	0	0	283	0
BBMW-03I	30.0 - 40.0	0	0	--	--	0	--	0	0	0	0	0	0
BBMW-03D	52.0 - 62.0	--	186	--	--	0	--	0	0	0	0	0	0
BBMW-07S	5.0 - 15.0	0	0	0	--	--	0	0	0	0	0	0	0
BBMW-07I	30.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	0
BBMW-07D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	873	0
BBMW-25S	4.0 - 14.0	0	14	0	--	0	0	0	0	0	0	0	0
BBMW-25I	25.0 - 35.0	7,840	3,902	4,937	--	3,621	5,472	1,560	0	37	488	11	102
BBMW-25D	62.0 - 72.0	101	588	223	--	390	--	308	179	160	384	0	0
GM-05S	5.1 - 20.1	635	0	312	0	366	0	34	0	0	0	0	--
GM-05I	35.05 - 48.05	51	0	--	--	--	--	0	--	--	--	0	0
GM-05D	60.95 - 75.95	28	--	--	--	--	--	0	--	--	--	0	0
GMP-01	25.0 - 30.0	266	6,514	2,595	1,241	6,419	10,183	9,385	9,261	5,555	3,936	4,019	--
GMP-02	18.0 - 23.0	5,213	5,460	3,008	3,459	8,837	151	0	0	10	11	0	0
GMP-04	15.5 - 20.5	235	1,372	601	77	369	1,720	41	22	573	232	1,380	52
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	70
OU2MW-01S	20.0 - 25.0	--	--	--	--	6,927	--	464	457	1,230	104	321	67
OU2MW-01I	35.0 - 40.0	--	--	--	--	5,507	--	8,222	3,717	879	495	120	442
OU2MW-01I2	50.0 - 55.0	--	--	--	--	58	--	1,249	0	0	100	0	488
OU2MW-01D	65.0 - 70.0	--	--	--	--	0	--	0	0	0	0	0	0
OU2MW-02S	20.0 - 25.0	--	--	--	--	162	--	311	209	164	424	0	154
OU2MW-02I	35.0 - 40.0	--	--	--	--	2,541	--	3,413	3,609	5,251	3,012	1,943	3,567
OU2MW-02I2	50.0 - 55.0	--	--	--	--	22	--	11	0	0	0	0	16
OU2MW-02D	65.0 - 70.0	--	--	--	--	15	--	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	--	--	--	--	401	--	339	353	181	379	0	317
OU2MW-03I	35.0 - 40.0	--	--	--	--	67	--	0	0	0	49	0	0
OU2MW-03I2	50.0 - 55.0	--	--	--	--	0	--	36	16	0	0	0	144
OU2MW-03D	65.0 - 70.0	--	--	--	--	0	--	0	0	0	0	0	0
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-04S	20.0 - 25.0	--	--	--	--	4,034	--	12,611	7,351	10,538	2,774	6,802	8,445
OU2MW-04I	35.0 - 40.0	--	--	--	--	5,444	--	6,438	3,795	1,107	0	0	332
OU2MW-04I2	50.0 - 55.0	--	--	--	--	375	--	115	101	57	78	0	19
OU2MW-04D	65.0 - 70.0	--	--	--	--	0	--	0	0	0	0	0	0
OU2MW-05	25.0 - 35.0	--	--	--	--	4,711	--	8,049	5,125	4,314	4,149	1,980	2,164
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-06	15.0 - 25.0	--	--	--	--	9,241	--	19	0	0	0	0	0
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-07	15.0 - 25.0	--	--	--	--	66	--	69	0	0	0	0	0
OU2MW-09	30.0 - 40.0	--	--	--	--	0	--	0	0	0	0	0	0
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	4
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	1,077
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	426

Table 4-10
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004		2005				2006				2007	
		Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	8
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	1
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	1,646
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	224
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	108
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	33
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	13
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	261
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	22
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	4
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-10
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
Qtly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007		2008				2009				2010	
		Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
BBMW-03S	3.0 - 13.0	0	0	0	0	1	0	0	0	0	0	0	0
BBMW-03I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-03D	52.0 - 62.0	0	0	7	0	0	0	0	0	0	0	0	25
BBMW-07S	5.0 - 15.0	3	0	0	0	0	0	0	0	0	0	0	0
BBMW-07I	30.0 - 40.0	--	0	0	0	0	0	0	0	0	0	0	0
BBMW-07D	55.0 - 65.0	--	0	2	0	0	0	0	0	0	0	0	0
BBMW-25S	4.0 - 14.0	10	0	0	0	0	0	0	0	0	0	0	0
BBMW-25I	25.0 - 35.0	457	2	181	48	86	478	741	1,219	105	11	3	0
BBMW-25D	62.0 - 72.0	3	1	0	0	59	0	0	0	0	0	0	8
GM-05S	5.1 - 20.1	0	13	25	30	7	35	5	19	9	19	2	0
GM-05I	35.05 - 48.05	7	0	0	0	0	0	0	0	0	0	0	0
GM-05D	60.95 - 75.95	0	0	0	0	0	0	0	0	0	0	0	0
GMP-01	25.0 - 30.0	159	4,428	3,967	2,020	778	275	719	1,049	651	175	1,916	1,228
GMP-02	18.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	0
GMP-04	15.5 - 20.5	1,523	1,467	1	0	0	0	0	0	0	0	0	0
OU2IW-01S	3.0 - 8.0	0	0	48	0	0	0	0	0	0	0	0	0
OU2MW-01WT	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-01S	20.0 - 25.0	2,023	2,000	48	0	0	0	0	1,487	1,953	0	0	0
OU2MW-01I	35.0 - 40.0	90	2,222	15	0	25	4	0	702	109	0	0	0
OU2MW-01I2	50.0 - 55.0	7	4	0	0	0	0	0	0	0	0	0	364
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-02S	20.0 - 25.0	155	27	57	96	46	8	33	146	44	0	0	6
OU2MW-02I	35.0 - 40.0	1,835	2,947	3,129	43	2,981	151	2,129	1,993	2,385	748	2,515	1,278
OU2MW-02I2	50.0 - 55.0	0	11	30	1	12	0	6	0	0	0	0	0
OU2MW-02D	65.0 - 70.0	17	0	0	0	0	0	0	0	4	0	0	0
OU2MW-03S	20.0 - 25.0	201	49	87	61	79	85	80	157	118	142	71	20
OU2MW-03I	35.0 - 40.0	0	0	0	7	0	95	146	0	0	6	56	61
OU2MW-03I2	50.0 - 55.0	4	1	0	0	0	0	0	0	0	1	0	0
OU2MW-03D	65.0 - 70.0	0	6	3	0	0	0	0	0	0	0	0	0
OU2MW-04WT	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-04S	20.0 - 25.0	3,794	4,145	2,666	2,936	3,901	334	641	3,565	3,770	3,393	4,529	352
OU2MW-04I	35.0 - 40.0	3,260	547	4,051	0	36	0	98	2	0	10	241	0
OU2MW-04I2	50.0 - 55.0	16	2	0	23	0	0	0	1,340	0	4	536	14
OU2MW-04D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-05	25.0 - 35.0	247	3,412	491	516	50	456	353	376	735	19	288	484
OU2MW-06S	3.0 - 8.0	10	0	0	0	6	0	0	0	0	0	0	0
OU2MW-06	15.0 - 25.0	0	3	6	0	0	0	0	0	0	0	0	0
OU2MW-07S	3.0 - 8.0	0	7	0	0	0	0	0	0	0	0	0	0
OU2MW-07	15.0 - 25.0	0	37	0	0	0	0	0	0	0	0	0	0
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	11	0	0	0	0	0
OU2MW-10S	3.0 - 7.0	0	0	0	5	0	0	0	0	0	0	0	0
OU2MW-10I	20.0 - 25.0	0	297	201	1	0	2	29	22	3	54	12	37
OU2MW-10D	35.0 - 40.0	0	0	0	413	32	727	0	1	49	5	0	0
OU2MW-11S	3.0 - 8.0	0	0	2	0	0	4	0	0	0	0	0	0
OU2MW-11I	20.0 - 25.0	112	3,627	865	1,977	1,030	663	1,323	428	46	1,141	220	26
OU2MW-11I2	30.0 - 35.0	2,412	52	0	0	275	264	1,011	131	9	193	6	0

Table 4-10
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
Qtly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007		2008				2009				2010	
		Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-11D	40.0 - 45.0	7	5	0	0	0	0	9	0	54	69	40	77
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I	20.0 - 25.0	888	147	268	137	122	79	513	53	123	7	851	8
OU2MW-12I2	30.0 - 35.0	3	7	30	5	0	0	720	39	15	3	2	2
OU2MW-12D	40.0 - 45.0	79	39	44	35	0	0	2	0	0	0	0	992
OU2MW-13S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	12	10	1	7	1	15	8	6	7	0	15	36
OU2MW-13D	35.0 - 40.0	15	2	1	4	2	0	21	18	31	24	21	15
OU2MW-14S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-14I	20.0 - 25.0	--	--	2	0	0	0	0	0	0	0	0	0
OU2MW-14I2	45.0 - 50.0	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-15S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-15I	20.0 - 25.0	86	8	34	0	0	0	0	1	219	24	0	0
OU2MW-15I2	30.0 - 35.0	320	76	0	0	0	0	0	0	0	0	0	0
OU2MW-15D	40.0 - 45.0	0	0	0	0	0	2	0	0	0	0	0	0
OU2MW-16S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16I	15.0 - 20.0	5	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16I2	25.0 - 30.0	12	16	1	0	0	0	0	0	0	0	0	0
OU2MW-16D	35.0 - 40.0	0	0	102	0	0	0	0	0	0	0	0	0
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	101	0	0	25	0
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	0	0	0	0	0

Table 4-10
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
Qtly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date							Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010		2011				2012					
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
BBMW-03S	3.0 - 13.0	0	0	0	0	0	0	0	0	283	9	0	283
BBMW-03I	30.0 - 40.0	0	0	0	0	0	2	0	0	2	0	0	2
BBMW-03D	52.0 - 62.0	2	0	0	0	0	0	0	0	186	8	0	186
BBMW-07S	5.0 - 15.0	0	0	0	0	0	0	0	0	710	27	0	710
BBMW-07I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-07D	55.0 - 65.0	0	0	0	0	0	0	0	0	873	42	0	873
BBMW-25S	4.0 - 14.0	0	0	0	0	0	0	0	0	22	1	0	22
BBMW-25I	25.0 - 35.0	0	0	0	0	0	0	0	0	10,185	2,033	0	10,185
BBMW-25D	62.0 - 72.0	0	0	0	0	7	54	20	0	1,553	189	0	1,553
GM-05S	5.1 - 20.1	25	1	0	0	0	0	0	0	2,453	226	0	2,453
GM-05I	35.05 - 48.05	0	0	0	0	0	0	0	0	51	2	0	51
GM-05D	60.95 - 75.95	0	0	0	0	0	0	0	0	28	1	0	28
GMP-01	25.0 - 30.0	921	276	720	65	70	15	16	15	10,183	2,318	15	10,183
GMP-02	18.0 - 23.0	0	0	0	0	0	0	0	0	8,837	1,754	0	8,837
GMP-04	15.5 - 20.5	0	0	0	0	0	0	0	0	1,720	324	0	1,720
OU2IW-01S	3.0 - 8.0	0	0	0	0	0	0	0	0	48	3	0	48
OU2MW-01WT	3.0 - 8.0	0	0	0	0	2	0	0	0	70	4	0	70
OU2MW-01S	20.0 - 25.0	0	0	0	0	0	0	0	0	6,927	683	0	6,927
OU2MW-01I	35.0 - 40.0	0	0	0	0	0	0	10	0	8,222	902	0	8,222
OU2MW-01I2	50.0 - 55.0	0	0	0	0	0	0	0	0	1,249	91	0	1,249
OU2MW-01D	65.0 - 70.0	135	0	0	0	1	0	0	0	135	5	0	135
OU2MW-02S	20.0 - 25.0	0	0	0	1	0	0	0	0	424	82	0	424
OU2MW-02I	35.0 - 40.0	1,232	1,329	733	76	1,764	1,097	1,161	43	5,251	2,068	43	5,251
OU2MW-02I2	50.0 - 55.0	0	0	0	0	0	0	0	0	30	4	0	30
OU2MW-02D	65.0 - 70.0	0	0	0	0	15	0	0	0	17	2	0	17
OU2MW-03S	20.0 - 25.0	16	1	3	5	0	3	0	0	401	126	0	401
OU2MW-03I	35.0 - 40.0	0	0	0	0	0	0	0	0	146	19	0	146
OU2MW-03I2	50.0 - 55.0	0	0	0	0	0	0	0	0	144	8	0	144
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	0	6	0	0	6
OU2MW-04WT	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-04S	20.0 - 25.0	152	170	40	51	17	22	34	17	12,611	3,481	17	12,611
OU2MW-04I	35.0 - 40.0	0	252	32	1,789	0	2,047	2,666	0	6,438	1,179	0	6,438
OU2MW-04I2	50.0 - 55.0	0	0	0	0	0	0	6	0	1,340	107	0	1,340
OU2MW-04D	65.0 - 70.0	0	0	0	0	0	3	0	0	3	0	0	3
OU2MW-05	25.0 - 35.0	335	957	86	33	75	92	30	19	8,049	1,580	19	8,049
OU2MW-06S	3.0 - 8.0	0	0	0	0	0	0	0	0	10	1	0	10
OU2MW-06	15.0 - 25.0	0	0	0	0	0	0	0	0	9,241	371	0	9,241
OU2MW-07S	3.0 - 8.0	0	0	0	0	0	0	0	0	7	0	0	7
OU2MW-07	15.0 - 25.0	0	0	0	0	0	0	68	0	69	7	0	69
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	0	0	11	0	0	11
OU2MW-10S	3.0 - 7.0	0	0	0	0	0	0	0	0	5	0	0	5
OU2MW-10I	20.0 - 25.0	149	597	76	167	57	21	0	0	597	91	0	597
OU2MW-10D	35.0 - 40.0	23	22	0	0	0	0	0	0	727	67	0	727
OU2MW-11S	3.0 - 8.0	0	0	--	0	0	0	0	0	4	0	0	4
OU2MW-11I	20.0 - 25.0	125	565	38	16	19	0	0	0	3,627	700	0	3,627
OU2MW-11I2	30.0 - 35.0	1	27	11	2	55	126	89	0	2,412	263	0	2,412

Table 4-10
Summary of Historical Total PAH Groundwater Analytical Results - Downgradient of Montauk Highway
Bay Shore/Brightwaters Former MGP Site
Qtly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date							Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2010		2011				2012					
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar					
OU2MW-11D	40.0 - 45.0	63	0	9	35	842	5	3	0	842	64	0	842
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	1	0	0	1
OU2MW-12I	20.0 - 25.0	11	159	44	0	0	0	0	0	1,646	266	0	1,646
OU2MW-12I2	30.0 - 35.0	58	9	18	7	0	13	3	0	720	61	0	720
OU2MW-12D	40.0 - 45.0	197	141	1	80	112	6	2	0	992	97	0	992
OU2MW-13S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	41	0	7	18	7	0	0	0	41	12	0	41
OU2MW-13D	35.0 - 40.0	15	17	14	7	9	0	78	0	31	12	0	78
OU2MW-14S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-14I	20.0 - 25.0	0	0	0	0	0	0	0	0	2	0	0	2
OU2MW-14I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-15S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-15I	20.0 - 25.0	33	1	2	4	0	0	0	0	261	35	0	261
OU2MW-15I2	30.0 - 35.0	0	77	0	0	0	0	0	0	320	25	0	320
OU2MW-15D	40.0 - 45.0	0	0	0	0	0	0	0	0	2	0	0	2
OU2MW-16S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16I	15.0 - 20.0	0	0	0	0	17	0	0	0	22	2	0	22
OU2MW-16I2	25.0 - 30.0	26	0	0	0	0	0	0	0	26	3	0	26
OU2MW-16D	35.0 - 40.0	0	0	0	0	0	40	0	0	102	7	0	102
OU2MW-52S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	0	0	0	0	0	0	0	0	101	11	0	101
OU2MW-52D	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-53S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-53I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-53D	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-01S	BBMW-01I	DUP-23 Q1	BBMW-01D	BBMW-02S	BBMW-02I	BBMW-02D	BBMW-03S	BBMW-03I
Screened Interval:		5-15 ft	32-42 ft	32-42 ft	68.5-78.5 ft	5-15 ft	30-40 ft	73-83 ft	3-13 ft	30-40 ft
Sample Date:		3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/14/2012	3/14/2012	3/14/2012	2/16/2012	2/16/2012
Parent Sample:				BBMW-01I						
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	**16**	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	**4**	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	**26**	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	**1 BJ**	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-01S	BBMW-01I	DUP-23 Q1	BBMW-01D	BBMW-02S	BBMW-02I	BBMW-02D	BBMW-03S	BBMW-03I
Screened Interval:		5-15 ft	32-42 ft	32-42 ft	68.5-78.5 ft	5-15 ft	30-40 ft	73-83 ft	3-13 ft	30-40 ft
Sample Date:		3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/14/2012	3/14/2012	3/14/2012	2/16/2012	2/16/2012
Parent Sample:				BBMW-01I						
Methyl tert-butyl ether	10*	10 U	10 U	**2 J**	10 U	10 U	10 U	**2 J**	10 U	**10**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	**170**	1 U	1 U	1 U	1 U	**1**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	**3**	**2**	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	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	**2 J**	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
Benzo[g,h,i]perylene	NE	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
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	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	**86 D**	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	**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
Total Non-carcinogenic PAHs	NE	**2**	ND	ND	**88**	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**2**	ND	ND	**88**	ND	ND	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-01S	BBMW-01I	DUP-23 Q1	BBMW-01D	BBMW-02S	BBMW-02I	BBMW-02D	BBMW-03S	BBMW-03I
Screened Interval:		5-15 ft	32-42 ft	32-42 ft	68.5-78.5 ft	5-15 ft	30-40 ft	73-83 ft	3-13 ft	30-40 ft
Sample Date:		3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/14/2012	3/14/2012	3/14/2012	2/16/2012	2/16/2012
Parent Sample:				BBMW-01I						
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	**49500 D**	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-03D	BBMW-07S	DUP-26 Q1	BBMW-07I	BBMW-07D	BBMW-15S	BBMW-15I	BBMW-15I2	BBMW-15D
Screened Interval:		52-62 ft	5-15 ft	5-15 ft	30-40 ft	55-65 ft	5-15 ft	23-28 ft	35-45 ft	70-80 ft
Sample Date:		2/16/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/7/2012	3/7/2012	3/7/2012	3/7/2012
Parent Sample:				BBMW-07S						
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-03D	BBMW-07S	DUP-26 Q1	BBMW-07I	BBMW-07D	BBMW-15S	BBMW-15I	BBMW-15I2	BBMW-15D
Screened Interval:		52-62 ft	5-15 ft	5-15 ft	30-40 ft	55-65 ft	5-15 ft	23-28 ft	35-45 ft	70-80 ft
Sample Date:		2/16/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/7/2012	3/7/2012	3/7/2012	3/7/2012
Parent Sample:				BBMW-07S						
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**7 J**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**1**	1 U	1 U	1 U	1 U	**2 B**	**2 B**	**1 B**	**1 B**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	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
Anthracene	50*	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
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-03D	BBMW-07S	DUP-26 Q1	BBMW-07I	BBMW-07D	BBMW-15S	BBMW-15I	BBMW-15I2	BBMW-15D
Screened Interval:		52-62 ft	5-15 ft	5-15 ft	30-40 ft	55-65 ft	5-15 ft	23-28 ft	35-45 ft	70-80 ft
Sample Date:		2/16/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/7/2012	3/7/2012	3/7/2012	3/7/2012
Parent Sample:				BBMW-07S						
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-16S	BBMW-16I	BBMW-16D	BBMW-23S	BBMW-23I	BBMW-23D	BBMW-23D2	BBMW-24S	BBMW-24I
Screened Interval:		5-15 ft	35-45 ft	68-78 ft	5-15 ft	33-43 ft	49.5-59.5 ft	63-73 ft	4-14 ft	32-42 ft
Sample Date:		3/7/2012	3/7/2012	3/7/2012	2/2/2012	2/2/2012	2/2/2012	2/2/2012	2/13/2012	2/13/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	**9**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	**2000 D**	1 U	**23**	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	**1300 D**	1 U	**18**	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	**200 D**	1 U	**3**	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	**3509**	ND	**44**	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	**6**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**3**
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	**110**	1 U	**1**	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-16S	BBMW-16I	BBMW-16D	BBMW-23S	BBMW-23I	BBMW-23D	BBMW-23D2	BBMW-24S	BBMW-24I
Screened Interval:		5-15 ft	35-45 ft	68-78 ft	5-15 ft	33-43 ft	49.5-59.5 ft	63-73 ft	4-14 ft	32-42 ft
Sample Date:		3/7/2012	3/7/2012	3/7/2012	2/2/2012	2/2/2012	2/2/2012	2/2/2012	2/13/2012	2/13/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	**6 J**	10 U	10 U	**2 J**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	**680 D**	1 U	**26**	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	**35**	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	**17**	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	**320 D**	1 U	**6**	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	**100**	1 U	**2**	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	**6 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
Anthracene	50*	10 U	10 U	10 U	**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
Fluoranthene	50*	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	10 U	10 U	10 U	**16**	10 U	**2 J**	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	**480 D**	10 U	**15**	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	**7 J**	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	**519**	ND	**17**	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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	**1 J**	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
Total Carcinogenic PAHs	NE	ND	**1**	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	**1**	ND	**519**	ND	**17**	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-16S	BBMW-16I	BBMW-16D	BBMW-23S	BBMW-23I	BBMW-23D	BBMW-23D2	BBMW-24S	BBMW-24I
Screened Interval:		5-15 ft	35-45 ft	68-78 ft	5-15 ft	33-43 ft	49.5-59.5 ft	63-73 ft	4-14 ft	32-42 ft
Sample Date:		3/7/2012	3/7/2012	3/7/2012	2/2/2012	2/2/2012	2/2/2012	2/2/2012	2/13/2012	2/13/2012
Parent Sample:										
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-24D	BBMW-25S	BBMW-25I	BBMW-25D	GM-05S	GM-05I	GM-05D	GMP-01	GMP-02
Screened Interval:		59.5-69.5 ft	4-14 ft	25-35 ft	62-72 ft	5.1-20.1 ft	35.05-48.05 ft	60.95-75.95 ft	25-30 ft	18-23 ft
Sample Date:		2/13/2012	2/17/2012	2/17/2012	2/17/2012	2/6/2012	2/2/2012	2/2/2012	3/13/2012	3/9/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	**1**	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	**3 J**	5 U	**5 BJ**	5 U	5 U	5 U	5 U	5 U	**1 J**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-24D	BBMW-25S	BBMW-25I	BBMW-25D	GM-05S	GM-05I	GM-05D	GMP-01	GMP-02
Screened Interval:		59.5-69.5 ft	4-14 ft	25-35 ft	62-72 ft	5.1-20.1 ft	35.05-48.05 ft	60.95-75.95 ft	25-30 ft	18-23 ft
Sample Date:		2/13/2012	2/17/2012	2/17/2012	2/17/2012	2/6/2012	2/2/2012	2/2/2012	3/13/2012	3/9/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	10 U	**10 J**	**10 J**	10 U	10 U	10 U	**2 J**	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	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 J**	10 U	10 U	10 U	**3 J**	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	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
Fluoranthene	50*	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	**2 J**	10 U
2-Methylnaphthalene	NE	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**	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	**8 J**	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	**20**	ND	ND	ND	**16**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	**20**	ND	ND	ND	**16**	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-24D	BBMW-25S	BBMW-25I	BBMW-25D	GM-05S	GM-05I	GM-05D	GMP-01	GMP-02
Screened Interval:		59.5-69.5 ft	4-14 ft	25-35 ft	62-72 ft	5.1-20.1 ft	35.05-48.05 ft	60.95-75.95 ft	25-30 ft	18-23 ft
Sample Date:		2/13/2012	2/17/2012	2/17/2012	2/17/2012	2/6/2012	2/2/2012	2/2/2012	3/13/2012	3/9/2012
Parent Sample:										
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	**589000 D**	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		GMP-04	OU2IW-01S	OU2MW-01WT	OU2MW-01S	OU2MW-01I	OU2MW-01I2	OU2MW-01D	OU2MW-02S	OU2MW-02I
Screened Interval:		15.5-20.5 ft	3-8 ft	3-8 ft	20-25 ft	35-40 ft	50-55 ft	65-70 ft	20-25 ft	35-40 ft
Sample Date:		3/9/2012	3/13/2012	2/17/2012	2/17/2012	2/17/2012	2/17/2012	2/17/2012	2/24/2012	2/24/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**12**
Toluene	5	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	**5**
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**6**
m,p-Xylene	5	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	**14**
o-Xylene	5	1 U	1 U	1 U	1 U	**1**	1 U	**1**	1 U	**24**
Total BTEX	NE	ND	ND	ND	ND	**3**	ND	**1**	ND	**61**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	**5 BJ**	**5 B**	**5 BJ**	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**30**

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		GMP-04	OU2IW-01S	OU2MW-01WT	OU2MW-01S	OU2MW-01I	OU2MW-01I2	OU2MW-01D	OU2MW-02S	OU2MW-02I
Screened Interval:		15.5-20.5 ft	3-8 ft	3-8 ft	20-25 ft	35-40 ft	50-55 ft	65-70 ft	20-25 ft	35-40 ft
Sample Date:		3/9/2012	3/13/2012	2/17/2012	2/17/2012	2/17/2012	2/17/2012	2/17/2012	2/24/2012	2/24/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	10 U	10 U	**10 J**	**10 J**	10 U	10 U	10 U	**9 J**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	**2300 DB**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**12**
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**7**
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**10**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	**30**
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**19**
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**110 DJ**
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 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
Fluoranthene	50*	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	**2 J**
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Naphthalene	10*	10 U	10 U	10 U	10 U	**10 J**	10 U	10 U	10 U	**1000 D**
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**26**
Pyrene	50*	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	**10**	ND	ND	ND	**1161**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	**10**	ND	ND	ND	**1161**
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		GMP-04	OU2IW-01S	OU2MW-01WT	OU2MW-01S	OU2MW-01I	OU2MW-01I2	OU2MW-01D	OU2MW-02S	OU2MW-02I
Screened Interval:		15.5-20.5 ft	3-8 ft	3-8 ft	20-25 ft	35-40 ft	50-55 ft	65-70 ft	20-25 ft	35-40 ft
Sample Date:		3/9/2012	3/13/2012	2/17/2012	2/17/2012	2/17/2012	2/17/2012	2/17/2012	2/24/2012	2/24/2012
Parent Sample:										
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-02I2	OU2MW-02D	OU2MW-03S	OU2MW-03I	OU2MW-03I2	OU2MW-03D	OU2MW-04WT	OU2MW-04S	OU2MW-04I
Screened Interval:		50-55 ft	65-70 ft	20-25 ft	35-40 ft	50-55 ft	65-70 ft	3-8 ft	20-25 ft	35-40 ft
Sample Date:		2/24/2012	2/24/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/20/2012	2/20/2012	2/20/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**6**
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**6**
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**37**
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**69**
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	**118**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**12**

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-02I2	OU2MW-02D	OU2MW-03S	OU2MW-03I	OU2MW-03I2	OU2MW-03D	OU2MW-04WT	OU2MW-04S	OU2MW-04I
Screened Interval:		50-55 ft	65-70 ft	20-25 ft	35-40 ft	50-55 ft	65-70 ft	3-8 ft	20-25 ft	35-40 ft
Sample Date:		2/24/2012	2/24/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/20/2012	2/20/2012	2/20/2012
Parent Sample:										
Methyl tert-butyl ether	10*	**1 J**	10 U	10 U	10 U	**4 J**	10 U	10 U	**4 J**	**9 J**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**1 B**	1 U	1 U	1 U	1 U	1 U	1 U	**24**	**4300 D**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**14**
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**16**
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	**2**
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	**66**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**55**
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	**13**
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	**160 DJ**
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**1 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
Fluoranthene	50*	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	**4 J**	**3 J**
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**70**
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**13**	**2400 D**
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**6 J**	**19**
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	**34**	**2666**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	**34**	**2666**
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-02I2	OU2MW-02D	OU2MW-03S	OU2MW-03I	OU2MW-03I2	OU2MW-03D	OU2MW-04WT	OU2MW-04S	OU2MW-04I
Screened Interval:		50-55 ft	65-70 ft	20-25 ft	35-40 ft	50-55 ft	65-70 ft	3-8 ft	20-25 ft	35-40 ft
Sample Date:		2/24/2012	2/24/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/20/2012	2/20/2012	2/20/2012
Parent Sample:										
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-04I2	OU2MW-04D	DUP-14 Q1	OU2MW-05	OU2MW-06S	OU2MW-06	DUP-18 Q1	OU2MW-07S	OU2MW-07
Screened Interval:		50-55 ft	65-70 ft	65-70 ft	25-35 ft	3-8 ft	15-25 ft	15-25 ft	3-8 ft	15-25 ft
Sample Date:		2/20/2012	2/20/2012	2/20/2012	3/9/2012	2/28/2012	2/28/2012	2/28/2012	2/24/2012	2/24/2012
Parent Sample:				OU2MW-04D				OU2MW-06		
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**3**
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**6**
Total BTEX	NE	ND	ND	ND	**2**	ND	ND	ND	ND	**9**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-04I2	OU2MW-04D	DUP-14 Q1	OU2MW-05	OU2MW-06S	OU2MW-06	DUP-18 Q1	OU2MW-07S	OU2MW-07
Screened Interval:		50-55 ft	65-70 ft	65-70 ft	25-35 ft	3-8 ft	15-25 ft	15-25 ft	3-8 ft	15-25 ft
Sample Date:		2/20/2012	2/20/2012	2/20/2012	3/9/2012	2/28/2012	2/28/2012	2/28/2012	2/24/2012	2/24/2012
Parent Sample:				OU2MW-04D				OU2MW-06		
Methyl tert-butyl ether	10*	10 U	10 U	10 U	**4 J**	10 U		**1 J**	**1 J**	10 U	**5 J**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**11**	1 U	1 U	**4**	1 U	1 U	1 U	**6 B**	**120 B**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**3**
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	**2 J**
Acenaphthylene	NE	10 U	10 U	10 U	**11**	10 U	10 U	10 U	10 U	**11**
Anthracene	50*	10 U	10 U	10 U	**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
Fluoranthene	50*	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	**1 J**	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	**6 J**	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	**55**
Phenanthrene	50*	10 U	10 U	10 U	**11**	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
Total Non-carcinogenic PAHs	NE	**6**	ND	ND	**30**	ND	ND	ND	ND	**68**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**6**	ND	ND	**30**	ND	ND	ND	ND	**68**
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-04I2	OU2MW-04D	DUP-14 Q1	OU2MW-05	OU2MW-06S	OU2MW-06	DUP-18 Q1	OU2MW-07S	OU2MW-07
Screened Interval:		50-55 ft	65-70 ft	65-70 ft	25-35 ft	3-8 ft	15-25 ft	15-25 ft	3-8 ft	15-25 ft
Sample Date:		2/20/2012	2/20/2012	2/20/2012	3/9/2012	2/28/2012	2/28/2012	2/28/2012	2/24/2012	2/24/2012
Parent Sample:				OU2MW-04D				OU2MW-06		
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-08WT	OU2MW-08S	OU2MW-08I	OU2MW-08I2	OU2MW-08D	OU2MW-09	OU2MW-10S	OU2MW-10I	OU2MW-10D
Screened Interval:		3-8 ft	20-25 ft	35-40 ft	50-55 ft	65-70 ft	30-40 ft	3-7 ft	20-25 ft	35-40 ft
Sample Date:		2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/16/2012	2/3/2012	2/3/2012	2/3/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	**19**	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	**7**	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	**1**	**18**	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	**1**	**59**	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	**2**	**104**	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	**5**	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	**22**	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-08WT	OU2MW-08S	OU2MW-08I	OU2MW-08I2	OU2MW-08D	OU2MW-09	OU2MW-10S	OU2MW-10I	OU2MW-10D
Screened Interval:		3-8 ft	20-25 ft	35-40 ft	50-55 ft	65-70 ft	30-40 ft	3-7 ft	20-25 ft	35-40 ft
Sample Date:		2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/16/2012	2/3/2012	2/3/2012	2/3/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	**2 J**	**6 J**	**13**	10 U	**10 J**	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	**63**	**2300 DB**	**2**	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	**12**	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	**2**	**3**	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	**3**	**32**	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	**1**	**39**	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	**32**	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	**5 J**	**200 DJ**	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	**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
Fluoranthene	50*	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	**3 J**	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	**31**	**1700 D**	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	**3 J**	**50**	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
Total Non-carcinogenic PAHs	NE	ND	ND	**39**	**1989**	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	**39**	**1989**	ND	ND	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-08WT	OU2MW-08S	OU2MW-08I	OU2MW-08I2	OU2MW-08D	OU2MW-09	OU2MW-10S	OU2MW-10I	OU2MW-10D
Screened Interval:		3-8 ft	20-25 ft	35-40 ft	50-55 ft	65-70 ft	30-40 ft	3-7 ft	20-25 ft	35-40 ft
Sample Date:		2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/16/2012	2/3/2012	2/3/2012	2/3/2012
Parent Sample:										
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-11S	DUP-09 Q1	OU2MW-11I	OU2MW-11I2	OU2MW-11D	OU2MW-12S	OU2MW-12I	OU2MW-12I2	OU2MW-12D
Screened Interval:		3-8 ft	3-8 ft	20-25 ft	30-35 ft	40-45 ft	3-7 ft	20-25 ft	30-35 ft	40-45 ft
Sample Date:		1/27/2012	1/27/2012	1/27/2012	2/6/2012	1/27/2012	1/27/2012	1/27/2012	1/27/2012	1/27/2012
Parent Sample:			OU2MW-11S							
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	**3**	**2**	1 U	1 U	1 U	1 U
Toluene	5	**1**	1 U	1 U	1 U	**1**	**1**	1 U	1 U	**1**
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	**1**	1 U	1 U	**3**	**1**	**1**	1 U	1 U	**1**
o-Xylene	5	1 U	1 U	1 U	**12**	**1**	1 U	1 U	1 U	1 U
Total BTEX	NE	**2**	ND	ND	**18**	**5**	**2**	ND	ND	**2**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	**7**	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-11S	DUP-09 Q1	OU2MW-11I	OU2MW-11I2	OU2MW-11D	OU2MW-12S	OU2MW-12I	OU2MW-12I2	OU2MW-12D
Screened Interval:		3-8 ft	3-8 ft	20-25 ft	30-35 ft	40-45 ft	3-7 ft	20-25 ft	30-35 ft	40-45 ft
Sample Date:		1/27/2012	1/27/2012	1/27/2012	2/6/2012	1/27/2012	1/27/2012	1/27/2012	1/27/2012	1/27/2012
Parent Sample:			OU2MW-11S							
Methyl tert-butyl ether	10*	10 U	10 U	**2 J**	**26**	**1 J**	10 U	**7 J**	**11**	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	**170**	**2**	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**1**	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	**5**	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	**15**	**3 J**	10 U	10 U	**3 J**	**2 J**
Anthracene	50*	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
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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	**70**	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
Pyrene	50*	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	**89**	**3**	ND	ND	**3**	**2**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	**89**	**3**	ND	ND	**3**	**2**
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-11S	DUP-09 Q1	OU2MW-11I	OU2MW-11I2	OU2MW-11D	OU2MW-12S	OU2MW-12I	OU2MW-12I2	OU2MW-12D
Screened Interval:		3-8 ft	3-8 ft	20-25 ft	30-35 ft	40-45 ft	3-7 ft	20-25 ft	30-35 ft	40-45 ft
Sample Date:		1/27/2012	1/27/2012	1/27/2012	2/6/2012	1/27/2012	1/27/2012	1/27/2012	1/27/2012	1/27/2012
Parent Sample:			OU2MW-11S							
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-13S	OU2MW-13I	DUP-10 Q1	OU2MW-13D	OU2MW-14S	OU2MW-14I	OU2MW-14I2	OU2MW-15S	OU2MW-15I
Screened Interval:		3-8 ft	20-25 ft	20-25 ft	35-40 ft	3-8 ft	20-25 ft	45-50 ft	3-8 ft	20-25 ft
Sample Date:		2/1/2012	2/1/2012	2/1/2012	2/1/2012	3/20/2012	3/20/2012	3/20/2012	2/2/2012	2/2/2012
Parent Sample:				OU2MW-13I						
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	**5**	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	**8**	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	**11**	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-13S	OU2MW-13I	DUP-10 Q1	OU2MW-13D	OU2MW-14S	OU2MW-14I	OU2MW-14I2	OU2MW-15S	OU2MW-15I
Screened Interval:		3-8 ft	20-25 ft	20-25 ft	35-40 ft	3-8 ft	20-25 ft	45-50 ft	3-8 ft	20-25 ft
Sample Date:		2/1/2012	2/1/2012	2/1/2012	2/1/2012	3/20/2012	3/20/2012	3/20/2012	2/2/2012	2/2/2012
Parent Sample:				OU2MW-13I						
Methyl tert-butyl ether	10*	10 U	10 U	10 U	**41**	10 U	**1 J**	10 U	10 U	**10**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	**60**	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	**12**	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	**9 J**	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	**35**	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	**1 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
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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	**33**	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
Pyrene	50*	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	**78**	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	**78**	ND	ND	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-13S	OU2MW-13I	DUP-10 Q1	OU2MW-13D	OU2MW-14S	OU2MW-14I	OU2MW-14I2	OU2MW-15S	OU2MW-15I
Screened Interval:		3-8 ft	20-25 ft	20-25 ft	35-40 ft	3-8 ft	20-25 ft	45-50 ft	3-8 ft	20-25 ft
Sample Date:		2/1/2012	2/1/2012	2/1/2012	2/1/2012	3/20/2012	3/20/2012	3/20/2012	2/2/2012	2/2/2012
Parent Sample:				OU2MW-13I						
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-15I2	OU2MW-15D	OU2MW-16S	OU2MW-16I	OU2MW-16I2	OU2MW-16D	OU2MW-17S	OU2MW-17I	OU2MW-17I2
Screened Interval:		30-35 ft	40-45 ft	3-8 ft	15-20 ft	25-30 ft	35-40 ft	5-10 ft	13-23 ft	35-45 ft
Sample Date:		2/2/2012	2/2/2012	2/3/2012	2/3/2012	2/3/2012	2/3/2012	3/8/2012	3/9/2012	3/8/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5**	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4**	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	**10**	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	**1 J**	**1 J**	**1 J**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-15I2	OU2MW-15D	OU2MW-16S	OU2MW-16I	OU2MW-16I2	OU2MW-16D	OU2MW-17S	OU2MW-17I	OU2MW-17I2
Screened Interval:		30-35 ft	40-45 ft	3-8 ft	15-20 ft	25-30 ft	35-40 ft	5-10 ft	13-23 ft	35-45 ft
Sample Date:		2/2/2012	2/2/2012	2/3/2012	2/3/2012	2/3/2012	2/3/2012	3/8/2012	3/9/2012	3/8/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Anthracene	50*	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
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	**2**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	**2**	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-15I2	OU2MW-15D	OU2MW-16S	OU2MW-16I	OU2MW-16I2	OU2MW-16D	OU2MW-17S	OU2MW-17I	OU2MW-17I2
Screened Interval:		30-35 ft	40-45 ft	3-8 ft	15-20 ft	25-30 ft	35-40 ft	5-10 ft	13-23 ft	35-45 ft
Sample Date:		2/2/2012	2/2/2012	2/3/2012	2/3/2012	2/3/2012	2/3/2012	3/8/2012	3/9/2012	3/8/2012
Parent Sample:										
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-17D	OU2MW-18I	OU2MW-18I2	OU2MW-18D	OU2MW-19I	OU2MW-19I2	DUP-21 Q1	OU2MW-19D	OU2MW-20S
Screened Interval:		60-75 ft	13-23 ft	35-45 ft	60-70 ft	13-23 ft	35-45 ft	35-45 ft	65-70 ft	4-9 ft
Sample Date:		3/9/2012	3/8/2012	3/8/2012	3/8/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	2/28/2012
Parent Sample:								OU2MW-19I2		
BTEX (µg/L)										
Benzene	1	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U
Ethylbenzene	5	1 U	**3**	**1**	1 U	1 U	1 U	1 U	**3**	1 U
m,p-Xylene	5	1 U	**1**	**6**	1 U	1 U	1 U	1 U	**23**	1 U
o-Xylene	5	1 U	**2**	**88**	1 U	1 U	1 U	1 U	**12**	1 U
Total BTEX	NE	ND	**6**	**96**	ND	ND	ND	ND	**39**	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	**1 J**	5 U	**41**	5 U	5 U	5 U	**1 J**	**1 J**	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	**3 J**	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**69**	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-17D	OU2MW-18I	OU2MW-18I2	OU2MW-18D	OU2MW-19I	OU2MW-19I2	DUP-21 Q1	OU2MW-19D	OU2MW-20S
Screened Interval:		60-75 ft	13-23 ft	35-45 ft	60-70 ft	13-23 ft	35-45 ft	35-45 ft	65-70 ft	4-9 ft
Sample Date:		3/9/2012	3/8/2012	3/8/2012	3/8/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	2/28/2012
Parent Sample:								OU2MW-19I2		
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	**4 J**	**4 J**	**7 J**	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	**25**	**10**	1 U	1 U	1 U	1 U	**340 D**	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**8**	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	**2**	**2**	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	**5**	**2**	1 U	1 U	1 U	1 U	**22**	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	**2**	**20**	1 U	1 U	1 U	1 U	**9**	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	**30**	**19**	10 U	10 U	10 U	10 U	**1 J**	10 U
Acenaphthylene	NE	10 U	**1 J**	**6 J**	10 U	10 U	10 U	10 U	**16**	10 U
Anthracene	50*	10 U	**7 J**	**1 J**	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
Fluoranthene	50*	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	**28**	**5 J**	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	**26**	10 U
Naphthalene	10*	10 U	**9 J**	**7 J**	10 U	10 U	10 U	10 U	**210 D**	10 U
Phenanthrene	50*	10 U	**59**	**8 J**	10 U	10 U	10 U	10 U	**1 J**	10 U
Pyrene	50*	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	**141**	**46**	ND	ND	ND	ND	**254**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	**2 J**	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
Total Carcinogenic PAHs	NE	**4**	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**4**	**141**	**46**	ND	ND	ND	ND	**254**	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	**55.8 B**	**55.1 B**	**63.2 B**	**49.4 B**	**75.6 B**
Antimony	3	NA	NA	NA	NA	**1.8 B**	1.1 U	1.1 U	**2.9 B**	**2.5 B**
Arsenic	25	NA	NA	NA	NA	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Barium	1000	NA	NA	NA	NA	**29.6 B**	**85.4 B**	**92.2 B**	**65.5 B**	**10.5 B**
Beryllium	3*	NA	NA	NA	NA	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-17D	OU2MW-18I	OU2MW-18I2	OU2MW-18D	OU2MW-19I	OU2MW-19I2	DUP-21 Q1	OU2MW-19D	OU2MW-20S
Screened Interval:		60-75 ft	13-23 ft	35-45 ft	60-70 ft	13-23 ft	35-45 ft	35-45 ft	65-70 ft	4-9 ft
Sample Date:		3/9/2012	3/8/2012	3/8/2012	3/8/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	2/28/2012
Parent Sample:								OU2MW-19I2		
Cadmium	5	NA	NA	NA	NA	0.18 U		0.18 U	0.18 U	0.18 U
Calcium	NE	NA	NA	NA	NA	**62800**	**56900**	**57800**	**36700**	**34000**
Chromium	50	NA	NA	NA	NA	**2.4 B**	**0.90 B**	**1.8 B**	**1.5 B**	**2.0 B**
Cobalt	NE	NA	NA	NA	NA	0.52 U	**7.4 B**	**8.1 B**	**1.8 B**	0.52 U
Copper	200	NA	NA	NA	NA	**7.5 B**	**13.4 B**	**15.1 B**	**47.8**	**27.1**
Iron	300	NA	NA	NA	NA	**240 ***	**36.3 B***	**45.6 B***	**147 ***	**49.6 B***
Lead	25	NA	NA	NA	NA	**2.4 B**	1.7 U	1.7 U	**4.6**	**8.5**
Magnesium	35000*	NA	NA	NA	NA	**13600**	**13400**	**13700**	**13400**	**2840 B**
Manganese	300	NA	NA	NA	NA	**47.5**	**2450**	**2480**	**893**	**1.7 B**
Mercury	0.7	NA	NA	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	100	NA	NA	NA	NA	**1.2 B**	**1.5 B**	**0.90 B**	**34.1 B**	**1.8 B**
Potassium	NE	NA	NA	NA	NA	**5480 E**	**3360 BE**	**3590 BE**	**2090 BE**	**1460 BE**
Selenium	10	NA	NA	NA	NA	2.8 U	**3.5 B**	**3.7 B**	2.8 U	**3.7 B**
Silver	50	NA	NA	NA	NA	0.32 U	0.32 U	**0.43 B**	0.32 U	0.32 U
Sodium	20000	NA	NA	NA	NA	**104000**	**50800**	**51200**	**31200**	**9410**
Thallium	0.5*	NA	NA	NA	NA	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Vanadium	NE	NA	NA	NA	NA	**1.1 B**	0.23 U	0.23 U	0.23 U	**4.7 B**
Zinc	2000*	NA	NA	NA	NA	**11.4 B**	**32.6**	**55.0**	**17.7 B**	**285**
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	**130**	**350**	**150**	**270**	100 U
Carbon dioxide	NE	NA	NA	NA	NA	**74800**	**51000**	**47500**	**62500**	**58100**
Nitrogen, Nitrate	10000	NA	NA	NA	NA	**320**	**350**	**340**	100 U	**5230 D**
Nitrogen, Nitrite	1000	NA	NA	NA	NA	100 U	100 U	100 U	100 U	100 U
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	**9**	**15**	**13**	**410 D**	**11**
Sulfate	250000	NA	NA	NA	NA	**37100**	5000 U	5000 U	**50000**	**10100**
Sulfide	50*	NA	NA	NA	NA	2000 U	2000 U	2000 U	2000 U	2000 U
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	100 U	100 U	**140**	**540**	**610**
Total Nitrogen	NE	NA	NA	NA	NA	**320**	**350**	**480**	**540**	**5840**
Total Phosphorous	NE	NA	NA	NA	NA	50 U	50 U	50 U	50 U	50 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-20I	OU2MW-20I2	OU2MW-20D	OU2MW-21S	OU2MW-21I	OU2MW-21I2	OU2MW-22S	OU2MW-22I	OU2MW-22I2
Screened Interval:		13-23 ft	35-45 ft	65-70 ft	5-15 ft	13-23 ft	35-45 ft	5-15 ft	25-30 ft	46-51 ft
Sample Date:		2/28/2012	2/28/2012	2/28/2012	2/15/2012	2/15/2012	2/15/2012	2/6/2012	2/7/2012	2/6/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	**1 B**	**1 B**	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	**1 B**	**1 B**	**1 B**	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	**1**	**2**	**3**	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	**1 BJ**	**1 BJ**	**2 BJ**	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-20I	OU2MW-20I2	OU2MW-20D	OU2MW-21S	OU2MW-21I	OU2MW-21I2	OU2MW-22S	OU2MW-22I	OU2MW-22I2
Screened Interval:		13-23 ft	35-45 ft	65-70 ft	5-15 ft	13-23 ft	35-45 ft	5-15 ft	25-30 ft	46-51 ft
Sample Date:		2/28/2012	2/28/2012	2/28/2012	2/15/2012	2/15/2012	2/15/2012	2/6/2012	2/7/2012	2/6/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	**5 J**	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	**3**	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	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
Anthracene	50*	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
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	**37.9 B**	**43.9 B**	**41.2 B**	NA	NA	NA	NA	NA	NA
Antimony	3	2.2 U	2.2 U	2.2 U	NA	NA	NA	NA	NA	NA
Arsenic	25	1.8 U	1.8 U	1.8 U	NA	NA	NA	NA	NA	NA
Barium	1000	**53.4 B**	**104 B**	**13.3 B**	NA	NA	NA	NA	NA	NA
Beryllium	3*	0.13 U	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-20I	OU2MW-20I2	OU2MW-20D	OU2MW-21S	OU2MW-21I	OU2MW-21I2	OU2MW-22S	OU2MW-22I	OU2MW-22I2
Screened Interval:		13-23 ft	35-45 ft	65-70 ft	5-15 ft	13-23 ft	35-45 ft	5-15 ft	25-30 ft	46-51 ft
Sample Date:		2/28/2012	2/28/2012	2/28/2012	2/15/2012	2/15/2012	2/15/2012	2/6/2012	2/7/2012	2/6/2012
Parent Sample:										
Cadmium	5	0.17 U	**0.40 B**	0.17 U	NA	NA	NA	NA	NA	NA
Calcium	NE	**48900**	**24800**	**4600 B**	NA	NA	NA	NA	NA	NA
Chromium	50	0.28 U	**0.50 B**	0.28 U	NA	NA	NA	NA	NA	NA
Cobalt	NE	**0.90 B**	**0.60 B**	0.44 U	NA	NA	NA	NA	NA	NA
Copper	200	0.70 U	0.70 U	0.70 U	NA	NA	NA	NA	NA	NA
Iron	300	**91.1 B**	**88.7 B**	**266**	NA	NA	NA	NA	NA	NA
Lead	25	**4.6**	**5.3**	**8.8**	NA	NA	NA	NA	NA	NA
Magnesium	35000*	**5650**	**3910 B**	**1830 B**	NA	NA	NA	NA	NA	NA
Manganese	300	**579**	**9090**	**241**	NA	NA	NA	NA	NA	NA
Mercury	0.7	**0.12 B**	**0.13 B**	**0.15 B**	NA	NA	NA	NA	NA	NA
Nickel	100	**2.4 B**	0.66 U	**2.4 B**	NA	NA	NA	NA	NA	NA
Potassium	NE	**1750 B**	**361 B**	48.9 U	NA	NA	NA	NA	NA	NA
Selenium	10	2.8 U	2.8 U	2.8 U	NA	NA	NA	NA	NA	NA
Silver	50	0.42 U	**0.78 B**	0.42 U	NA	NA	NA	NA	NA	NA
Sodium	20000	**42300**	**58000**	**14700**	NA	NA	NA	NA	NA	NA
Thallium	0.5*	3.4 U	3.4 U	3.4 U	NA	NA	NA	NA	NA	NA
Vanadium	NE	0.21 U	0.21 U	0.21 U	NA	NA	NA	NA	NA	NA
Zinc	2000*	**12.6 BE**	**4.9 BE**	**5.1 BE**	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	**120**	**270**	100 U	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	**77400**	**41400**	**14100**	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	**240**	**100**	100 U	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	100 U	100 U	100 U	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	**21**	**28**	**32**	NA	NA	NA	NA	NA	NA
Sulfate	250000	**67400 D**	**16400**	**17900**	NA	NA	NA	NA	NA	NA
Sulfide	50*	2000 U	3000 U	2000 U	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	**310**	**310**	100 U	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	**550**	**420**	100 U	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	50 U	50 U	50 U	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-22D	OU2MW-23S	OU2MW-23I	OU2MW-23I2	OU2MW-23D	OU2MW-24S	OU2MW-24I	OU2MW-24I2	OU2MW-24D
Screened Interval:		67-72 ft	5-15 ft	25-30 ft	45-50 ft	65-70 ft	5-15 ft	25-30 ft	45-50 ft	62-67 ft
Sample Date:		2/7/2012	2/10/2012	2/10/2012	2/10/2012	2/10/2012	2/8/2012	2/8/2012	2/8/2012	2/8/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	**2**	**160**	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	**7**	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	**52**	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	**2**	**224**	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	**7**	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-22D	OU2MW-23S	OU2MW-23I	OU2MW-23I2	OU2MW-23D	OU2MW-24S	OU2MW-24I	OU2MW-24I2	OU2MW-24D
Screened Interval:		67-72 ft	5-15 ft	25-30 ft	45-50 ft	65-70 ft	5-15 ft	25-30 ft	45-50 ft	62-67 ft
Sample Date:		2/7/2012	2/10/2012	2/10/2012	2/10/2012	2/10/2012	2/8/2012	2/8/2012	2/8/2012	2/8/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	**1**	**62**	1 U	1 U	1 U	**2**	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	**26**	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	**23**	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	**1 J**	**43**	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
Benzo[g,h,i]perylene	NE	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
Fluorene	50*	10 U	10 U	10 U	**24**	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	**1 J**	**33**	10 U	10 U	10 U	**1 J**	10 U
Phenanthrene	50*	10 U	10 U	10 U	**3 J**	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
Total Non-carcinogenic PAHs	NE	ND	ND	**2**	**126**	ND	ND	ND	**1**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	**2**	**126**	ND	ND	ND	**1**	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-22D	OU2MW-23S	OU2MW-23I	OU2MW-23I2	OU2MW-23D	OU2MW-24S	OU2MW-24I	OU2MW-24I2	OU2MW-24D
Screened Interval:		67-72 ft	5-15 ft	25-30 ft	45-50 ft	65-70 ft	5-15 ft	25-30 ft	45-50 ft	62-67 ft
Sample Date:		2/7/2012	2/10/2012	2/10/2012	2/10/2012	2/10/2012	2/8/2012	2/8/2012	2/8/2012	2/8/2012
Parent Sample:										
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	**527000 D**
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-25S	OU2MW-25I	OU2MW-25I2	OU2MW-25D	OU2MW-26S	OU2MW-26I	OU2MW-26I2	OU2MW-26D	OU2MW-27S
Screened Interval:		5-15 ft	25-30 ft	45-50 ft	70-75 ft	6-11 ft	13-23 ft	35-45 ft	60-70 ft	5-15 ft
Sample Date:		2/6/2012	2/6/2012	2/6/2012	2/6/2012	2/15/2012	2/23/2012	2/15/2012	2/15/2012	2/23/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**6**	1 U
Toluene	5	1 U	1 U	1 U	1 U	**1 B**	1 U	**1 B**	**2 B**	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	**1 B**	**2 B**	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	**1 B**	1 U	**2 B**	**6 B**	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	**2**	**57**	1 U
Total BTEX	NE	ND	ND	ND	ND	**2**	ND	**6**	**73**	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	**2 BJ**	**7 B**	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**2 J**	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-25S	OU2MW-25I	OU2MW-25I2	OU2MW-25D	OU2MW-26S	OU2MW-26I	OU2MW-26I2	OU2MW-26D	OU2MW-27S
Screened Interval:		5-15 ft	25-30 ft	45-50 ft	70-75 ft	6-11 ft	13-23 ft	35-45 ft	60-70 ft	5-15 ft
Sample Date:		2/6/2012	2/6/2012	2/6/2012	2/6/2012	2/15/2012	2/23/2012	2/15/2012	2/15/2012	2/23/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**8 J**	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5 B**	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**7**	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Acenaphthylene	NE	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U
Anthracene	50*	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
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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	**2 J**	10 U
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	**4**	ND	ND	ND	ND	ND	**6**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	**4**	ND	ND	ND	ND	ND	**6**	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-25S	OU2MW-25I	OU2MW-25I2	OU2MW-25D	OU2MW-26S	OU2MW-26I	OU2MW-26I2	OU2MW-26D	OU2MW-27S
Screened Interval:		5-15 ft	25-30 ft	45-50 ft	70-75 ft	6-11 ft	13-23 ft	35-45 ft	60-70 ft	5-15 ft
Sample Date:		2/6/2012	2/6/2012	2/6/2012	2/6/2012	2/15/2012	2/23/2012	2/15/2012	2/15/2012	2/23/2012
Parent Sample:										
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-27I	OU2MW-27I2	DUP-16 Q1	OU2MW-27D	OU2MW-28S	DUP-17 Q1	OU2MW-28I	OU2MW-28I2	OU2MW-29I
Screened Interval:		25-30 ft	45-50 ft	45-50 ft	65-70 ft	5-15 ft	5-15 ft	28-33 ft	40-45 ft	18-23 ft
Sample Date:		2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/24/2012	2/24/2012	2/24/2012	2/24/2012	2/22/2012
Parent Sample:				OU2MW-27I2			OU2MW-28S			
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4**	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**6**	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**49**	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**46**	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	**105**	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	**5 BJ**	**5 BJ**	**5 BJ**	**5 BJ**	5 U	5 U	5 U	**5**	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	**1**	**1**	**1**	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-27I	OU2MW-27I2	DUP-16 Q1	OU2MW-27D	OU2MW-28S	DUP-17 Q1	OU2MW-28I	OU2MW-28I2	OU2MW-29I
Screened Interval:		25-30 ft	45-50 ft	45-50 ft	65-70 ft	5-15 ft	5-15 ft	28-33 ft	40-45 ft	18-23 ft
Sample Date:		2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/24/2012	2/24/2012	2/24/2012	2/24/2012	2/22/2012
Parent Sample:				OU2MW-27I2			OU2MW-28S			
Methyl tert-butyl ether	10*	**10 J**	**10 J**	**10 J**	**10 J**	10 U	10 U	10 U	**9 J**	**1 J**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	**1**	**8 B**	**5 B**	**11 B**	**190 B**	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**21**	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	**1**	**1**	**1**	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**29**	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**22**	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**20**	10 U
Anthracene	50*	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
Fluoranthene	50*	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	**6 J**	10 U
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**42**	10 U
Naphthalene	10*	10 U	10 U	10 U	**10 J**	10 U	10 U	10 U	**110 D**	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Pyrene	50*	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	**10**	ND	ND	ND	**183**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	**10**	ND	ND	ND	**183**	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	**29.8 B**	**31.9 B**	**64.4 B**	**34.1 B**	**384**
Antimony	3	NA	NA	NA	NA	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Arsenic	25	NA	NA	NA	NA	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Barium	1000	NA	NA	NA	NA	**28.8 B**	**28.6 B**	**104 B**	**17.8 B**	**82.3 B**
Beryllium	3*	NA	NA	NA	NA	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-27I	OU2MW-27I2	DUP-16 Q1	OU2MW-27D	OU2MW-28S	DUP-17 Q1	OU2MW-28I	OU2MW-28I2	OU2MW-29I
Screened Interval:		25-30 ft	45-50 ft	45-50 ft	65-70 ft	5-15 ft	5-15 ft	28-33 ft	40-45 ft	18-23 ft
Sample Date:		2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/24/2012	2/24/2012	2/24/2012	2/24/2012	2/22/2012
Parent Sample:				OU2MW-27I2			OU2MW-28S			
Cadmium	5	NA	NA	NA	NA	0.17 U	0.17 U	0.17 U	**0.20 B**	0.17 U
Calcium	NE	NA	NA	NA	NA	**38700**	**39100**	**32100**	**13500**	**44900**
Chromium	50	NA	NA	NA	NA	**0.30 B**	0.28 U	0.28 U	0.28 U	**1.2 B**
Cobalt	NE	NA	NA	NA	NA	0.44 U	0.44 U	**0.90 B**	**7.9 B**	**6.1 B**
Copper	200	NA	NA	NA	NA	**0.70 B**	**0.90 B**	0.70 U	0.70 U	0.70 U
Iron	300	NA	NA	NA	NA	**30.6 B**	**9.4 B**	**106**	**39.0 B**	**11200**
Lead	25	NA	NA	NA	NA	**6.4**	**5.1**	**5.1**	**11.4**	**2.2 B**
Magnesium	35000*	NA	NA	NA	NA	**4250 B**	**4310 B**	**5480**	**3840 B**	**6420**
Manganese	300	NA	NA	NA	NA	**2.2 B**	**2.1 B**	**1210**	**3640**	**332**
Mercury	0.7	NA	NA	NA	NA	**0.11 B**	**0.11 B**	0.10 U	**0.13 B**	**0.12 B**
Nickel	100	NA	NA	NA	NA	**1.9 B**	**2.1 B**	**1.0 B**	**1.1 B**	**2.6 B**
Potassium	NE	NA	NA	NA	NA	**1590 B**	**1480 B**	**2530 B**	**290 B**	**2570 B**
Selenium	10	NA	NA	NA	NA	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Silver	50	NA	NA	NA	NA	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Sodium	20000	NA	NA	NA	NA	**25300**	**24500**	**93200**	**29800**	**99200**
Thallium	0.5*	NA	NA	NA	NA	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
Vanadium	NE	NA	NA	NA	NA	**0.30 B**	0.21 U	0.21 U	0.21 U	**2.2 B**
Zinc	2000*	NA	NA	NA	NA	**27.1 E**	**28.5 E**	**23.4 E**	**28.8 E**	**35.6 E**
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	**120**	100 U	**140**	**170**	100 U
Carbon dioxide	NE	NA	NA	NA	NA	**44000**	**40500**	**59800**	**50200**	**84500**
Nitrogen, Nitrate	10000	NA	NA	NA	NA	**3530 D**	**3560 D**	**150**	100 U	100 U
Nitrogen, Nitrite	1000	NA	NA	NA	NA	100 U	100 U	100 U	100 U	100 U
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	**13**	**21**	**21**	**96**	**42**
Sulfate	250000	NA	NA	NA	**100000 D**	**33400**	**34200**	**13900**	**39000**	**96200 D**
Sulfide	50*	NA	NA	NA	NA	2000 U	2000 U	2000 U	2000 U	2000 U
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	100 U	**200**	**310**	**120**	**220**
Total Nitrogen	NE	NA	NA	NA	NA	**3530**	**3760**	**460**	**120**	**220**
Total Phosphorous	NE	NA	NA	NA	NA	50 U	50 U	50 U	50 U	50 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-29I2	OU2MW-29D	OU2MW-30S	DUP-15 Q1	OU2MW-30I	OU2MW-30I2	OU2MW-30I3	OU2MW-30D	OU2MW-30D2
Screened Interval:		30-35 ft	45-50 ft	5-15 ft	5-15 ft	25-30 ft	30-35 ft	45-50 ft	50-55 ft	60-65 ft
Sample Date:		2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012
Parent Sample:					OU2MW-30S					
BTEX (µg/L)										
Benzene	1	1 U	**7**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	**2**	1 U	1 U	1 U	1 U	1 U	**2**	1 U
Ethylbenzene	5	1 U	**4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	**16**	1 U	1 U	1 U	1 U	1 U	**2**	1 U
o-Xylene	5	1 U	**35**	1 U	1 U	1 U	1 U	**3**	**22**	**1**
Total BTEX	NE	ND	**64**	ND	ND	ND	ND	**3**	**26**	**1**
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	**1 J**	5 U	5 U	5 U	**1 J**	5 U	5 U	**4 J**	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**3**	**4**
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	**30**	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-29I2	OU2MW-29D	OU2MW-30S	DUP-15 Q1	OU2MW-30I	OU2MW-30I2	OU2MW-30I3	OU2MW-30D	OU2MW-30D2
Screened Interval:		30-35 ft	45-50 ft	5-15 ft	5-15 ft	25-30 ft	30-35 ft	45-50 ft	50-55 ft	60-65 ft
Sample Date:		2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012
Parent Sample:					OU2MW-30S					
Methyl tert-butyl ether	10*	**4 J**	**3 J**	10 U	10 U	**3 J**	**3 J**	**7 J**	**2 J**	**12**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	**1400 DB**	1 U	1 U	1 U	1 U	1 U	**1**	**7**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	**19**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	**2**	**3**	1 U	1 U	**2**	**1**	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	**20**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	**67**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	**19**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	**190 DJ**	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Anthracene	50*	10 U	**4 J**	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
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	10 U	**24**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	**1100 D**	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Phenanthrene	50*	10 U	**32**	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
Total Non-carcinogenic PAHs	NE	ND	**1372**	ND	ND	ND	ND	ND	**3**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	**1372**	ND	ND	ND	ND	ND	**3**	ND
Total Metals (µg/L)										
Aluminum	NE	**104 B**	**48.2 B**	**110 B**	**32.2 B**	**36.3 B**	**24.3 B**	**134 B**	**32.1 B**	**58.7 B**
Antimony	3	2.2 U	2.2 U	2.2 U	**2.4 B**	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Arsenic	25	1.8 U	**2.8 B**	**5.1 B**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Barium	1000	**210**	**92.9 B**	**11.9 B**	**9.8 B**	**31.5 B**	**30.8 B**	**28.0 B**	**21.6 B**	**5.2 B**
Beryllium	3*	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-29I2	OU2MW-29D	OU2MW-30S	DUP-15 Q1	OU2MW-30I	OU2MW-30I2	OU2MW-30I3	OU2MW-30D	OU2MW-30D2
Screened Interval:		30-35 ft	45-50 ft	5-15 ft	5-15 ft	25-30 ft	30-35 ft	45-50 ft	50-55 ft	60-65 ft
Sample Date:		2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012
Parent Sample:					OU2MW-30S					
Cadmium	5	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	**0.20 B**	0.17 U
Calcium	NE	**24400**	**27500**	**35900**	**34100**	**33500**	**27900**	**25200**	**13700**	**11700**
Chromium	50	**0.30 B**	**1.3 B**	0.28 U	0.28 U	0.28 U	**0.30 B**	0.28 U	0.28 U	0.28 U
Cobalt	NE	**9.4 B**	**35.6 B**	**0.90 B**	**0.60 B**	**2.7 B**	**2.6 B**	**4.1 B**	**1.9 B**	**1.2 B**
Copper	200	0.70 U	0.70 U	**1.6 B**	**2.1 B**	**5.8 B**	**7.8 B**	**1.5 B**	0.70 U	**1.6 B**
Iron	300	**835**	**47200**	**142**	**81.7 B**	**53.9 B**	**64.8 B**	**310**	**12.1 B**	**245**
Lead	25	**10.2**	1.6 U	**6.1**	**5.6**	**4.0**	**5.5**	**14.0**	**8.2**	**14.8**
Magnesium	35000*	**4020 B**	**8820**	**5440**	**5330**	**4600 B**	**4390 B**	**3840 B**	**3580 B**	**4170 B**
Manganese	300	**4920**	**15000**	**6.1 B**	**8.4 B**	**208**	**944**	**4880**	**2280**	**6430**
Mercury	0.7	**0.13 B**	**0.11 B**	0.10 U	0.10 U	**0.11 B**	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	100	**6.7 B**	**206**	**0.80 B**	**1.2 B**	**9.5 B**	**6.7 B**	**13.5 B**	**3.9 B**	**5.5 B**
Potassium	NE	**3800 B**	**3560 B**	**2230 BE**	**1780 BE**	48.9 U	48.9 U	**3920 BE**	48.9 U	**6030 E**
Selenium	10	2.8 U	**4.8 B**	**3.4 B**	**7.4**	2.8 U	2.8 U	**4.9 B**	2.8 U	2.8 U
Silver	50	0.42 U	**1.0 B**	0.42 U	0.42 U	0.42 U	0.42 U	**0.63 B**	0.42 U	**0.61 B**
Sodium	20000	**75200**	**65600**	**27800**	**25400**	**47500**	**43100**	**41200**	**33000**	**32800**
Thallium	0.5*	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
Vanadium	NE	0.21 U	0.21 U	**14.1 B**	**13.7 B**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Zinc	2000*	**162 E**	**372 E**	**98.9 E**	**75.7 E**	**5.6 BE**	**46.4 E**	**63.9 E**	**213 E**	**81.7 E**
Other (µg/L)										
Ammonia	2000	**120**	**460**	100 U	100 U	**300**	**250**	**550**	**450**	**140**
Carbon dioxide	NE	**63400**	**83600**	**58100**	**40500**	**31700**	**7000**	**37800**	**23800**	**28200**
Nitrogen, Nitrate	10000	**220**	**110**	**2010 D**	**2110 D**	**400**	**290**	100 U	**110**	100 U
Nitrogen, Nitrite	1000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**410**	100 U
Standard Plate Count *(cfu/mL)*	NE	**39**	**71**	**29**	**40**	**66**	**130**	**580 D**	**190**	**2400 D**
Sulfate	250000	**50300 D**	**167000 D**	**26600**	**20500**	**33800**	**34500**	**39500**	**49600**	**63400 D**
Sulfide	50*	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Total Kjeldahl Nitrogen	NE	**240**	**1670**	**150**	**230**	**590**	**420**	**840**	**660**	100 U
Total Nitrogen	NE	**470**	**1770**	**2160**	**2340**	**990**	**710**	**840**	**1190**	100 U
Total Phosphorous	NE	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-31I	OU2MW-31I2	OU2MW-32S	OU2MW-32I	OU2MW-32I2	OU2MW-32D	OU2MW-33S	OU2MW-33I	OU2MW-33I2
Screened Interval:		18-23 ft	30-35 ft	5-15 ft	20-25 ft	30-35 ft	40-45 ft	5-15 ft	25-30 ft	35-40 ft
Sample Date:		2/23/2012	2/23/2012	2/21/2012	2/21/2012	2/21/2012	2/21/2012	2/20/2012	2/20/2012	2/20/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	**7**	**150**	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	**8**	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	ND	**7**	**159**	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	**3**	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-31I	OU2MW-31I2	OU2MW-32S	OU2MW-32I	OU2MW-32I2	OU2MW-32D	OU2MW-33S	OU2MW-33I	OU2MW-33I2
Screened Interval:		18-23 ft	30-35 ft	5-15 ft	20-25 ft	30-35 ft	40-45 ft	5-15 ft	25-30 ft	35-40 ft
Sample Date:		2/23/2012	2/23/2012	2/21/2012	2/21/2012	2/21/2012	2/21/2012	2/20/2012	2/20/2012	2/20/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	**6**	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	**2 J**	**3 J**	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	**18**	**1 J**	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
Benzo[g,h,i]perylene	NE	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
Fluorene	50*	10 U	10 U	10 U	**8 J**	**1 J**	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	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	**4 J**	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	**12**	10 U	**3 J**	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	**22**	**26**	**4**	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	**22**	**26**	**4**	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	**58.3 B**	**28.5 B**	**60.2 B**	**32.5 B**	**217**	**62.3 B**	NA	NA	NA
Antimony	3	2.2 U	**2.6 B**	2.2 U	2.2 U	2.2 U	2.2 U	NA	NA	NA
Arsenic	25	1.8 U	**12.8**	**2.5 B**	**6.4 B**	**13.7**	1.8 U	NA	NA	NA
Barium	1000	**51.5 B**	**93.3 B**	**8.6 B**	**24.0 B**	**79.3 B**	**57.4 B**	NA	NA	NA
Beryllium	3*	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-31I	OU2MW-31I2	OU2MW-32S	OU2MW-32I	OU2MW-32I2	OU2MW-32D	OU2MW-33S	OU2MW-33I	OU2MW-33I2
Screened Interval:		18-23 ft	30-35 ft	5-15 ft	20-25 ft	30-35 ft	40-45 ft	5-15 ft	25-30 ft	35-40 ft
Sample Date:		2/23/2012	2/23/2012	2/21/2012	2/21/2012	2/21/2012	2/21/2012	2/20/2012	2/20/2012	2/20/2012
Parent Sample:										
Cadmium	5	0.17 U	**0.70 B**	0.17 U	0.17 U	**0.50 B**	**0.40 B**	NA	NA	NA
Calcium	NE	**39600**	**25000**	**21800**	**41300**	**37000**	**19500**	NA	NA	NA
Chromium	50	0.28 U	**0.60 B**	0.28 U	0.28 U	0.28 U	**0.40 B**	NA	NA	NA
Cobalt	NE	**4.4 B**	**1.5 B**	**0.70 B**	0.44 U	**21.9 B**	**9.3 B**	NA	NA	NA
Copper	200	0.70 U	0.70 U	**3.2 B**	0.70 U	0.70 U	**1.1 B**	NA	NA	NA
Iron	300	**88.8 B**	**10.7 B**	**65.7 B**	**44400**	**25900**	**431**	NA	NA	NA
Lead	25	**5.8**	**6.2**	**14.9**	1.6 U	1.6 U	**15.0**	NA	NA	NA
Magnesium	35000*	**4460 B**	**3600 B**	**3230 B**	**7580**	**6380**	**4670 B**	NA	NA	NA
Manganese	300	**314**	**2090**	**2.9 B**	**382**	**994**	**3230**	NA	NA	NA
Mercury	0.7	0.10 U	**0.12 B**	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA
Nickel	100	**3.7 B**	**2.6 B**	0.66 U	0.66 U	0.66 U	**5.5 B**	NA	NA	NA
Potassium	NE	**856 B**	**2300 B**	**3480 BE**	**4710 BE**	**7260 E**	**5120 E**	NA	NA	NA
Selenium	10	2.8 U	**9.1**	2.8 U	**4.5 B**	**15.8**	**6.9**	NA	NA	NA
Silver	50	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	NA	NA	NA
Sodium	20000	**77100**	**75100**	**22100**	**40200**	**53000**	**46900**	NA	NA	NA
Thallium	0.5*	3.4 U	**4.8 B**	3.4 U	3.4 U	**12.9**	3.4 U	NA	NA	NA
Vanadium	NE	0.21 U	0.21 U	**0.30 B**	**0.90 B**	0.21 U	0.21 U	NA	NA	NA
Zinc	2000*	**25.6 E**	**6.0 BE**	**55.1 E**	**213 E**	**976 E**	**290 E**	NA	NA	NA
Other (µg/L)										
Ammonia	2000	100 U	**130**	**180**	**330**	**100**	100 U	NA	NA	NA
Carbon dioxide	NE	**46600**	**37000**	**52800**	**114000**	**92400**	**44900**	NA	NA	NA
Nitrogen, Nitrate	10000	**810**	**670**	**1090**	**130**	**140**	100 U	NA	NA	NA
Nitrogen, Nitrite	1000	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	**81**	**11**	**31**	**91**	**85**	**25**	NA	NA	NA
Sulfate	250000	**58400 D**	**44500**	**8060**	**29600**	**48800**	**71200 D**	NA	NA	NA
Sulfide	50*	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA	NA	NA
Total Kjeldahl Nitrogen	NE	**200**	100 U	**160**	**560**	**150**	100 U	NA	NA	NA
Total Nitrogen	NE	**1010**	**670**	**1250**	**690**	**290**	100 U	NA	NA	NA
Total Phosphorous	NE	50 U	50 U	50 U	50 U	50 U	50 U	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-33D	OU2MW-34S	OU2MW-34I	DUP-25 Q1	OU2MW-34I2	OU2MW-35S	OU2MW-35I	OU2MW-35I2	OU2MW-35D
Screened Interval:		50-55 ft	5-15 ft	25-30 ft	25-30 ft	45-50 ft	5-15 ft	25-30 ft	45-50 ft	57-62 ft
Sample Date:		2/20/2012	3/15/2012	3/15/2012	3/15/2012	3/15/2012	2/17/2012	2/17/2012	2/17/2012	2/17/2012
Parent Sample:					OU2MW-34I					
BTEX (µg/L)										
Benzene	1	1 U	1 U	**1**	**1**	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	**1**	**1**	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**2 J**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-33D	OU2MW-34S	OU2MW-34I	DUP-25 Q1	OU2MW-34I2	OU2MW-35S	OU2MW-35I	OU2MW-35I2	OU2MW-35D
Screened Interval:		50-55 ft	5-15 ft	25-30 ft	25-30 ft	45-50 ft	5-15 ft	25-30 ft	45-50 ft	57-62 ft
Sample Date:		2/20/2012	3/15/2012	3/15/2012	3/15/2012	3/15/2012	2/17/2012	2/17/2012	2/17/2012	2/17/2012
Parent Sample:					OU2MW-34I					
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	**5 J**	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	**12**	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
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	**14**	ND	ND	ND	**1**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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	**1 J**
Chrysene	0.002*	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	**1 J**
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	**3**
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	**14**	ND	ND	ND	**4**
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	**41.4 B**	**33.0 B**	**50.1 B**	**249**
Antimony	3	NA	NA	NA	NA	NA	2.2 U	2.2 U	2.2 U	2.2 U
Arsenic	25	NA	NA	NA	NA	NA	1.8 U	1.8 U	1.8 U	1.8 U
Barium	1000	NA	NA	NA	NA	NA	**15.2 B**	**19.8 B**	**23.0 B**	**27.0 B**
Beryllium	3*	NA	NA	NA	NA	NA	0.13 U	0.13 U	0.13 U	0.13 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-33D	OU2MW-34S	OU2MW-34I	DUP-25 Q1	OU2MW-34I2	OU2MW-35S	OU2MW-35I	OU2MW-35I2	OU2MW-35D
Screened Interval:		50-55 ft	5-15 ft	25-30 ft	25-30 ft	45-50 ft	5-15 ft	25-30 ft	45-50 ft	57-62 ft
Sample Date:		2/20/2012	3/15/2012	3/15/2012	3/15/2012	3/15/2012	2/17/2012	2/17/2012	2/17/2012	2/17/2012
Parent Sample:					OU2MW-34I					
Cadmium	5	NA	NA	NA	NA	NA	0.17 U	0.17 U	**0.20 B**	0.17 U
Calcium	NE	NA	NA	NA	NA	NA	**39800**	**44300**	**11900**	**21700**
Chromium	50	NA	NA	NA	NA	NA	0.28 U	0.28 U	**0.40 B**	**1.0 B**
Cobalt	NE	NA	NA	NA	NA	NA	0.44 U	**0.90 B**	**17.0 B**	**3.1 B**
Copper	200	NA	NA	NA	NA	NA	**2.0 B**	**1.3 B**	**1.0 B**	**3.9 B**
Iron	300	NA	NA	NA	NA	NA	**36.8 B**	**55.8 B**	**70.1 B**	**298**
Lead	25	NA	NA	NA	NA	NA	**3.7**	**7.1**	**13.9**	**20.1**
Magnesium	35000*	NA	NA	NA	NA	NA	**4240 B**	**9260**	**3710 B**	**6210**
Manganese	300	NA	NA	NA	NA	NA	**7.2 B**	**531**	**526**	**489**
Mercury	0.7	NA	NA	NA	NA	NA	0.10 U	**0.10 B**	0.10 U	0.10 U
Nickel	100	NA	NA	NA	NA	NA	**0.70 B**	0.66 U	**6.5 B**	**19.5 B**
Potassium	NE	NA	NA	NA	NA	NA	**4180 BE**	**2680 BE**	**2970 BE**	**2550 BE**
Selenium	10	NA	NA	NA	NA	NA	2.8 U	**3.7 B**	**7.8**	2.8 U
Silver	50	NA	NA	NA	NA	NA	0.42 U	0.42 U	0.42 U	0.42 U
Sodium	20000	NA	NA	NA	NA	NA	**29300**	**49300**	**13100**	**39800**
Thallium	0.5*	NA	NA	NA	NA	NA	3.4 U	3.4 U	3.4 U	3.4 U
Vanadium	NE	NA	NA	NA	NA	NA	**1.2 B**	**0.30 B**	0.21 U	**0.40 B**
Zinc	2000*	NA	NA	NA	NA	NA	**48.3 E**	**58.0 E**	**74.6 E**	**69.5 E**
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	100 U	100 U	**120**	**330**
Carbon dioxide	NE	NA	NA	NA	NA	NA	**27300**	**17600**	**19400**	**37800**
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	**1520 D**	**1350 D**	100 U	100 U
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	100 U	100 U	100 U	**120**
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	**530 D**	**140**	**12**	**470 D**
Sulfate	250000	NA	NA	NA	NA	NA	**24200**	**14600**	**41000**	**139000 D**
Sulfide	50*	NA	NA	NA	NA	NA	2000 U	2000 U	2000 U	2000 U
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	**100**	100 U	100 U	**430**
Total Nitrogen	NE	NA	NA	NA	NA	NA	**1620**	**1350**	100 U	**550**
Total Phosphorous	NE	NA	NA	NA	NA	NA	50 U	50 U	50 U	50 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-36S	DUP-12 Q1	OU2MW-36I	OU2MW-36I2	OU2MW-36D	OU2MW-37S	OU2MW-37I	OU2MW-37I2	OU2MW-37D
Screened Interval:		5-15 ft	5-15 ft	25-30 ft	45-50 ft	61-66 ft	5-15 ft	25-30 ft	45-50 ft	67-72 ft
Sample Date:		2/8/2012	2/8/2012	2/8/2012	2/8/2012	2/8/2012	2/7/2012	2/7/2012	2/7/2012	2/7/2012
Parent Sample:			OU2MW-36S							
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-36S	DUP-12 Q1	OU2MW-36I	OU2MW-36I2	OU2MW-36D	OU2MW-37S	OU2MW-37I	OU2MW-37I2	OU2MW-37D
Screened Interval:		5-15 ft	5-15 ft	25-30 ft	45-50 ft	61-66 ft	5-15 ft	25-30 ft	45-50 ft	67-72 ft
Sample Date:		2/8/2012	2/8/2012	2/8/2012	2/8/2012	2/8/2012	2/7/2012	2/7/2012	2/7/2012	2/7/2012
Parent Sample:			OU2MW-36S							
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	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
Anthracene	50*	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
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	**32.6 B**	**48.8 B**	**37.4 B**	**48.5 B**	**31.1 B**	**35.0 B**	**26.6 B**	**44.9 B**	**116 B**
Antimony	3	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
Arsenic	25	1.8 U	1.8 U	1.8 U	1.8 U	**4.3 B**	1.8 U	1.8 U	1.8 U	1.8 U
Barium	1000	**15.3 B**	**14.5 B**	**52.3 B**	**64.6 B**	**54.8 B**	**14.8 B**	**51.5 B**	**104 B**	**40.8 B**
Beryllium	3*	**0.60 B**	0.13 U	0.13 U	**0.20 B**	0.13 U	0.13 U	0.13 U	0.13 U	**0.20 B**

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-36S	DUP-12 Q1	OU2MW-36I	OU2MW-36I2	OU2MW-36D	OU2MW-37S	OU2MW-37I	OU2MW-37I2	OU2MW-37D
Screened Interval:		5-15 ft	5-15 ft	25-30 ft	45-50 ft	61-66 ft	5-15 ft	25-30 ft	45-50 ft	67-72 ft
Sample Date:		2/8/2012	2/8/2012	2/8/2012	2/8/2012	2/8/2012	2/7/2012	2/7/2012	2/7/2012	2/7/2012
Parent Sample:			OU2MW-36S							
Cadmium	5	0.17 U	0.17 U	0.17 U	**1.7 B**	**0.90 B**	0.17 U	0.17 U	**0.20 B**	**0.30 B**
Calcium	NE	**39400**	**39100**	**37000**	**21600**	**39000**	**29600**	**30400**	**14600**	**15700**
Chromium	50	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	**0.30 B**	0.28 U
Cobalt	NE	0.44 U	0.44 U	**1.5 B**	**76.1**	**4.6 B**	0.44 U	0.44 U	**3.6 B**	**1.3 B**
Copper	200	**1.9 B**	**1.9 B**	**2.0 B**	**1.4 B**	0.70 U	**2.7 B**	**1.1 B**	**1.1 B**	0.70 U
Iron	300	**211**	**19.2 B**	**23.9 B**	**31.9 B**	**44200**	**168**	**39.3 B**	**67.7 B**	**20500**
Lead	25	**4.2**	**3.9**	**5.9**	**23.8**	1.6 U	**10.7**	**7.0**	**10.2**	1.6 U
Magnesium	35000*	**4220 B**	**4170 B**	**8650**	**7020**	**14700**	**2810 B**	**4670 B**	**2800 B**	**4610 B**
Manganese	300	**2.3 B**	**1.0 B**	**2530**	**942**	**964**	**0.70 B**	**722**	**2360**	**628**
Mercury	0.7	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	100	0.66 U	0.66 U	0.66 U	**9.2 B**	**15.8 B**	0.66 U	0.66 U	**2.2 B**	0.66 U
Potassium	NE	**5210 E**	**4840 BE**	**4240 BE**	**3820 BE**	**5760 E**	**6150 E**	**3900 BE**	**6150 E**	**4380 BE**
Selenium	10	2.8 U	2.8 U	**2.9 B**	2.8 U	2.8 U	**3.6 B**	**4.9 B**	2.8 U	2.8 U
Silver	50	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Sodium	20000	**12500**	**12300**	**58400**	**30200**	**116000**	**39400**	**74700**	**35800**	**24600**
Thallium	0.5*	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
Vanadium	NE	**0.70 B**	**0.70 B**	0.21 U	0.21 U	**1.6 B**	0.21 U	**0.50 B**	0.21 U	**0.30 B**
Zinc	2000*	**7.6 BE**	**10.7 BE**	**194 E**	**25.7 E**	**17.0 BE**	**12.4 BE**	**17.7 BE**	**20.7 E**	**13.1 BE**
Other (µg/L)										
Ammonia	2000	100 U	100 U	**140**	100 U	**210**	100 U	100 U	**1590**	100 U
Carbon dioxide	NE	**24600**	**22000**	**27300**	**28200**	**72200**	**22900**	**22000**	**7900**	**53700**
Nitrogen, Nitrate	10000	**990**	**1060 D**	**890**	**460**	100 U	**1350**	**650**	**4500 D**	100 U
Nitrogen, Nitrite	1000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Standard Plate Count *(cfu/mL)*	NE	**17**	**22**	**10**	**6**	**13**	**21**	**36**	**420 D**	**110**
Sulfate	250000	**9120**	**8820**	**25100**	**111000 D**	**416000 D**	**14300**	**21800**	**25200**	**144000 D**
Sulfide	50*	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Total Kjeldahl Nitrogen	NE	**260**	**260**	**100**	100 U	**210**	100 U	100 U	**1650**	100 U
Total Nitrogen	NE	**1250**	**1320**	**990**	**460**	**210**	**1350**	**650**	**6150**	100 U
Total Phosphorous	NE	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-38S	OU2MW-38I	OU2MW-38I2	OU2MW-38D	OU2MW-39S	OU2MW-39I	OU2MW-39I2	OU2MW-39D	OU2MW-40S
Screened Interval:		5-15 ft	25-30 ft	46-51 ft	56-61 ft	5-15 ft	25-30 ft	45-50 ft	70-75 ft	5-15 ft
Sample Date:		2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/21/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	**410 D**	1 U	1 U	**2**	**67**	**1**	1 U
Toluene	5	1 U	1 U	**4 B**	1 U	1 U	1 U	**6 B**	1 U	1 U
Ethylbenzene	5	1 U	1 U	**2 B**	1 U	1 U	1 U	**20 B**	1 U	1 U
m,p-Xylene	5	1 U	1 U	**52 B**	1 U	**1 B**	**1 B**	**59 B**	**1 B**	1 U
o-Xylene	5	1 U	1 U	**120**	1 U	1 U	1 U	**80**	1 U	1 U
Total BTEX	NE	ND	ND	**588**	ND	**1**	**3**	**232**	**2**	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	**1 J**	10 U	10 U	10 U	**2 J**	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	**13**	1 U	1 U	1 U	**18**	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-38S	OU2MW-38I	OU2MW-38I2	OU2MW-38D	OU2MW-39S	OU2MW-39I	OU2MW-39I2	OU2MW-39D	OU2MW-40S
Screened Interval:		5-15 ft	25-30 ft	46-51 ft	56-61 ft	5-15 ft	25-30 ft	45-50 ft	70-75 ft	5-15 ft
Sample Date:		2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/21/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	10 U	**3 J**	10 U	10 U	10 U	**1 J**	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	**710 D**	1 U	1 U	**3 B**	**1600 D**	**2 B**	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	**2**	1 U	1 U	1 U	**6**	1 U	1 U
Styrene	5	1 U	1 U	**1**	1 U	1 U	1 U	**8**	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	**36**	1 U	1 U	1 U	**67**	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	**9**	1 U	1 U	1 U	**43**	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	10 U	10 U	**12**	10 U	10 U	10 U	**16**	10 U	10 U
Acenaphthylene	NE	10 U	10 U	**57**	10 U	10 U	10 U	**69**	10 U	10 U
Anthracene	50*	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
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	**13**	10 U	10 U	10 U	**6 J**	10 U	10 U
2-Methylnaphthalene	NE	10 U	10 U	**7 J**	10 U	10 U	10 U	**23**	10 U	10 U
Naphthalene	10*	10 U	10 U	**340 D**	10 U	10 U	**1 J**	**930 D**	**1 J**	10 U
Phenanthrene	50*	10 U	10 U	**10**	10 U	10 U	10 U	**7 J**	10 U	10 U
Pyrene	50*	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	**439**	ND	ND	**1**	**1051**	**1**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	**439**	ND	ND	**1**	**1051**	**1**	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	**44.1 B**	**74.8 B**	**55.5 B**	**92.9 B**	NA
Antimony	3	NA	NA	NA	NA	2.2 U	2.2 U	2.2 U	2.2 U	NA
Arsenic	25	NA	NA	NA	NA	**4.2 B**	**2.4 B**	1.8 U	1.8 U	NA
Barium	1000	NA	NA	NA	NA	**10.0 B**	**30.4 B**	**32.3 B**	**41.5 B**	NA
Beryllium	3*	NA	NA	NA	NA	0.13 U	0.13 U	0.13 U	0.13 U	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
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Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-38S	OU2MW-38I	OU2MW-38I2	OU2MW-38D	OU2MW-39S	OU2MW-39I	OU2MW-39I2	OU2MW-39D	OU2MW-40S
Screened Interval:		5-15 ft	25-30 ft	46-51 ft	56-61 ft	5-15 ft	25-30 ft	45-50 ft	70-75 ft	5-15 ft
Sample Date:		2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/16/2012	2/21/2012
Parent Sample:										
Cadmium	5	NA	NA	NA	NA	0.17 U	0.17 U	0.17 U	0.17 U	NA
Calcium	NE	NA	NA	NA	NA	**28000**	**56500**	**13900**	**9540**	NA
Chromium	50	NA	NA	NA	NA	**1.1 B**	0.28 U	0.28 U	**0.70 B**	NA
Cobalt	NE	NA	NA	NA	NA	**0.50 B**	0.44 U	0.44 U	0.44 U	NA
Copper	200	NA	NA	NA	NA	**2.7 B**	**3.4 B**	**1.3 B**	**2.3 B**	NA
Iron	300	NA	NA	NA	NA	**66.5 B**	**115**	**884**	**6760**	NA
Lead	25	NA	NA	NA	NA	**7.1**	**6.1**	**13.4**	**6.5**	NA
Magnesium	35000*	NA	NA	NA	NA	**3640 B**	**14100**	**3860 B**	**3140 B**	NA
Manganese	300	NA	NA	NA	NA	**2.0 B**	**18.1**	**887**	**169**	NA
Mercury	0.7	NA	NA	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	NA
Nickel	100	NA	NA	NA	NA	**0.70 B**	0.66 U	**1.0 B**	0.66 U	NA
Potassium	NE	NA	NA	NA	NA	**2230 BE**	**5720 E**	**1580 BE**	**1860 BE**	NA
Selenium	10	NA	NA	NA	NA	**3.9 B**	2.8 U	2.8 U	2.8 U	NA
Silver	50	NA	NA	NA	NA	0.42 U	0.42 U	0.42 U	0.42 U	NA
Sodium	20000	NA	NA	NA	NA	**18600**	**41900**	**32000**	**11100**	NA
Thallium	0.5*	NA	NA	NA	NA	3.4 U	3.4 U	3.4 U	3.4 U	NA
Vanadium	NE	NA	NA	NA	NA	**0.40 B**	**0.50 B**	0.21 U	0.21 U	NA
Zinc	2000*	NA	NA	NA	NA	**100 E**	**86.5 E**	**54.4 E**	**54.3 E**	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	100 U	100 U	100 U	**980**	NA
Carbon dioxide	NE	NA	NA	NA	NA	**43100**	**25500**	**48400**	**30800**	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	**1860 D**	**210**	100 U	100 U	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	100 U	100 U	100 U	100 U	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	**160**	**340 D**	**91**	**350 D**	NA
Sulfate	250000	NA	NA	NA	NA	**17800**	5000 U	**44500**	**40400**	NA
Sulfide	50*	NA	NA	NA	NA	2000 U	2000 U	2000 U	2000 U	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	**260**	100 U	100 U	100 U	NA
Total Nitrogen	NE	NA	NA	NA	NA	**2120**	**210**	100 U	100 U	NA
Total Phosphorous	NE	NA	NA	NA	NA	50 U	50 U	50 U	50 U	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-40I	OU2MW-41S	OU2MW-41I	OU2MW-42S	OU2MW-42I	OU2MW-42I2	OU2MW-42D	OU2MW-43S	OU2MW-43I
Screened Interval:		18-23 ft	5-15 ft	18-23 ft	5-15 ft	25-30 ft	45-50 ft	60-65 ft	5-15 ft	25-30 ft
Sample Date:		2/21/2012	2/22/2012	2/22/2012	2/7/2012	2/7/2012	2/7/2012	2/7/2012	3/13/2012	3/13/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	**3**	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	**5**	1 U	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	**8**	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	**3 BJ**	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-40I	OU2MW-41S	OU2MW-41I	OU2MW-42S	OU2MW-42I	OU2MW-42I2	OU2MW-42D	OU2MW-43S	OU2MW-43I
Screened Interval:		18-23 ft	5-15 ft	18-23 ft	5-15 ft	25-30 ft	45-50 ft	60-65 ft	5-15 ft	25-30 ft
Sample Date:		2/21/2012	2/22/2012	2/22/2012	2/7/2012	2/7/2012	2/7/2012	2/7/2012	3/13/2012	3/13/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**1**	1 U	1 U	1 U	1 U	1 U	**80**	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	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	**2 J**	10 U	10 U
Anthracene	50*	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	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	**10 J**	10 U	**13**	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
2-Methylnaphthalene	NE	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	**39**	10 U	10 U
Phenanthrene	50*	10 U	10 U	**6 J**	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	**10**	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	**10**	ND	**33**	ND	ND	ND	**41**	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	**5 J**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	**7 J**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	**6 J**	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	**8 J**	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
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	**33**	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**10**	ND	**66**	ND	ND	ND	**41**	ND	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	**65.4 B**	**55.3 B**	**38.5 B**	**7550**	**15.6 B**	**13.0 B**
Antimony	3	NA	NA	NA	2.2 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U
Arsenic	25	NA	NA	NA	1.8 U	1.8 U	1.8 U	1.8 U	4.4 U	4.4 U
Barium	1000	NA	NA	NA	4.2 U	**22.9 B**	**36.1 B**	**16.8 B**	**27.6 B**	**26.9 B**
Beryllium	3*	NA	NA	NA	0.13 U	0.13 U	0.13 U	**1.0 B**	0.12 U	0.12 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-40I	OU2MW-41S	OU2MW-41I	OU2MW-42S	OU2MW-42I	OU2MW-42I2	OU2MW-42D	OU2MW-43S	OU2MW-43I
Screened Interval:		18-23 ft	5-15 ft	18-23 ft	5-15 ft	25-30 ft	45-50 ft	60-65 ft	5-15 ft	25-30 ft
Sample Date:		2/21/2012	2/22/2012	2/22/2012	2/7/2012	2/7/2012	2/7/2012	2/7/2012	3/13/2012	3/13/2012
Parent Sample:										
Cadmium	5	NA	NA	NA	0.17 U	0.17 U	**0.20 B**	**0.20 B**	0.18 U	0.18 U
Calcium	NE	NA	NA	NA	**46800**	**55100**	**17200**	**43000**	**54100**	**53600**
Chromium	50	NA	NA	NA	0.28 U	0.28 U	0.28 U	**2.4 B**	0.52 U	0.52 U
Cobalt	NE	NA	NA	NA	**0.50 B**	0.44 U	**4.5 B**	**22.1 B**	0.52 U	0.52 U
Copper	200	NA	NA	NA	**2.9 B**	**2.5 B**	0.70 U	**17.3 B**	0.70 U	0.70 U
Iron	300	NA	NA	NA	**3980**	**254**	**43.5 B**	**4490**	**24.5 B**	**33.8 B**
Lead	25	NA	NA	NA	**8.9**	**5.2**	**13.9**	**39.5**	**4.4**	**2.5 B**
Magnesium	35000*	NA	NA	NA	**6420**	**13700**	**4670 B**	**15500**	**10000**	**11600**
Manganese	300	NA	NA	NA	**68.5**	**97.0**	**1490**	**2220**	**17.0**	**102**
Mercury	0.7	NA	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	100	NA	NA	NA	0.66 U	0.66 U	**2.6 B**	**76.3**	0.64 U	0.64 U
Potassium	NE	NA	NA	NA	**7000 E**	**5440 E**	**3110 BE**	**8040 E**	**5020**	**5410**
Selenium	10	NA	NA	NA	2.8 U	2.8 U	2.8 U	2.8 U	**3.0 BN**	2.8 UN
Silver	50	NA	NA	NA	0.42 U	0.42 U	0.42 U	0.42 U	0.32 U	0.32 U
Sodium	20000	NA	NA	NA	**49200**	**52000**	**43500**	**140000**	**59500**	**44000**
Thallium	0.5*	NA	NA	NA	3.4 U	3.4 U	3.4 U	3.4 U	3.2 U	3.2 U
Vanadium	NE	NA	NA	NA	**3.1 B**	**0.70 B**	0.21 U	0.21 U	**1.1 B**	**0.60 B**
Zinc	2000*	NA	NA	NA	**33.3 E**	**6.1 BE**	**37.3 E**	**46.0 E**	**7.0 B**	**115**
Other (µg/L)										
Ammonia	2000	NA	NA	NA	**120**	100 U	100 U	**1510**	**350**	**140**
Carbon dioxide	NE	NA	NA	NA	**35200**	**25500**	**26400**	**114000**	**37800**	**31700**
Nitrogen, Nitrate	10000	NA	NA	NA	**510**	**500**	**830**	**180**	**440**	**600**
Nitrogen, Nitrite	1000	NA	NA	NA	100 U	100 U	100 U	100 U	100 U	100 U
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	**45**	**64**	**34**	**10**	**53**	**450 D**
Sulfate	250000	NA	NA	NA	**32900**	5000 U	**25700**	**633000 D**	**51200 D**	5000 U
Sulfide	50*	NA	NA	NA	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Total Kjeldahl Nitrogen	NE	NA	NA	NA	**250**	100 U	100 U	**2260**	**270**	100 U
Total Nitrogen	NE	NA	NA	NA	**760**	**500**	**830**	**2440**	**710**	**600**
Total Phosphorous	NE	NA	NA	NA	**120**	50 U	50 U	50 U	50 U	50 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-43I2	OU2MW-43D	OU2MW-44S	OU2MW-44I	OU2MW-44I2	OU2MW-44D	DUP-22 Q1	OU2MW-45S	OU2MW-45I
Screened Interval:		45-50 ft	65-70 ft	5-15 ft	25-30 ft	45-50 ft	65-70 ft	65-70 ft	5-15 ft	20-25 ft
Sample Date:		3/13/2012	3/13/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	2/13/2012	2/13/2012
Parent Sample:								OU2MW-44D		
BTEX (µg/L)										
Benzene	1	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	**4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	**8**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	**4**	**19**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	**2**	**34**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	**6**	**66**	ND	ND	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	**2 BJ**	**2 BJ**	5 U	5 U	5 U	5 U	5 U	**1 BJ**	**1 BJ**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	**44**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	**1**	**1**	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	**3**	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-43I2	OU2MW-43D	OU2MW-44S	OU2MW-44I	OU2MW-44I2	OU2MW-44D	DUP-22 Q1	OU2MW-45S	OU2MW-45I
Screened Interval:		45-50 ft	65-70 ft	5-15 ft	25-30 ft	45-50 ft	65-70 ft	65-70 ft	5-15 ft	20-25 ft
Sample Date:		3/13/2012	3/13/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	2/13/2012	2/13/2012
Parent Sample:								OU2MW-44D		
Methyl tert-butyl ether	10*	**15**	**3 J**	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**390 D**	**440 D**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	**3**	**3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	**1**	**22**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	**4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	**36**	**6**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	**20**	**10**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	**5 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	**17**	**22**	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
Benzo[g,h,i]perylene	NE	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
Fluorene	50*	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	**40**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	**150 D**	**300 D**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	**2 J**	**5 J**	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
Total Non-carcinogenic PAHs	NE	**218**	**333**	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**218**	**333**	ND	ND	ND	ND	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	**11.6 B**	**163 B**	**115 B**	**30.8 B**	**23.7 B**	**18.1 B**	**12.1 B**	**45.6 B**	**45.7 B**
Antimony	3	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	**3.5 B**	1.1 U	2.2 U	2.2 U
Arsenic	25	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	1.8 U	1.8 U
Barium	1000	**53.8 B**	**32.3 B**	**9.4 B**	**17.2 B**	**38.9 B**	**33.7 B**	**33.7 B**	**8.2 B**	**55.2 B**
Beryllium	3*	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	**0.30 B**	0.13 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-43I2	OU2MW-43D	OU2MW-44S	OU2MW-44I	OU2MW-44I2	OU2MW-44D	DUP-22 Q1	OU2MW-45S	OU2MW-45I
Screened Interval:		45-50 ft	65-70 ft	5-15 ft	25-30 ft	45-50 ft	65-70 ft	65-70 ft	5-15 ft	20-25 ft
Sample Date:		3/13/2012	3/13/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	2/13/2012	2/13/2012
Parent Sample:								OU2MW-44D		
Cadmium	5	**0.70 B**	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	**0.20 B**
Calcium	NE	**11800**	**47800**	**26400**	**18200**	**20300**	**11900**	**11600**	**31400**	**45400**
Chromium	50	0.52 U	**5.7 B**	**2.1 B**	0.52 U	**0.80 B**	0.52 U	0.52 U	0.28 U	**0.70 B**
Cobalt	NE	**9.1 B**	**61.9**	**1.9 B**	**1.5 B**	**0.60 B**	**0.80 B**	0.52 U	0.44 U	**2.4 B**
Copper	200	**3.2 B**	**56.2**	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	**3.1 B**	0.70 U
Iron	300	**163**	**8710**	**937**	**67.5 B**	**11.1 B**	**28.7 B**	**16.4 B**	**6620**	**7400**
Lead	25	**3.9**	**6.1**	**4.1**	**5.1**	1.7 U	**6.1**	**6.5**	**2.7 B**	**4.2**
Magnesium	35000*	**2410 B**	**13100**	**3170 B**	**2900 B**	**3570 B**	**4880 B**	**4760 B**	**3850 B**	**6180**
Manganese	300	**2940**	**2560**	**154**	**93.0**	**8300**	**260**	**257**	**97.4**	**505**
Mercury	0.7	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	100	**15.2 B**	**61.1**	0.64 U	0.64 U	0.64 U	**2.3 B**	**1.9 B**	0.66 U	**2.3 B**
Potassium	NE	**4410 B**	**7980**	**2990 B**	**2600 B**	**3440 B**	**2420 B**	**2470 B**	**5710 E**	**4240 BE**
Selenium	10	**4.4 BN**	**3.5 BN**	**4.9 BN**	2.8 UN	**10.1 N**	2.8 UN	2.8 UN	2.8 U	2.8 U
Silver	50	0.32 U	0.32 U	0.32 U	0.32 U	**1.1 B**	0.32 U	0.32 U	0.42 U	0.42 U
Sodium	20000	**56600**	**104000**	**23900**	**25800**	**53400**	**29200**	**28900**	**29900**	**61700**
Thallium	0.5*	3.2 U	3.2 U	**3.2 B**	3.2 U	3.2 U	3.2 U	3.2 U	3.4 U	3.4 U
Vanadium	NE	0.23 U	**19.6 B**	**1.0 B**	0.23 U	0.23 U	0.23 U	0.23 U	**2.3 B**	**0.30 B**
Zinc	2000*	**462**	**81.4**	**26.7**	**12.8 B**	**13.1 B**	**9.2 B**	**15.0 B**	**84.3 E**	**8.9 BE**
Other (µg/L)										
Ammonia	2000	**120**	**7880 D**	**230**	100 U	**300**	**140**	**130**	**120**	100 U
Carbon dioxide	NE	**56300**	**47500**	**46600**	**41400**	**32600**	**45800**	**55400**	**52800**	**71300**
Nitrogen, Nitrate	10000	100 U	**120**	100 U	**2650 D**	100 U	**1570**	**1550**	**1620 D**	100 U
Nitrogen, Nitrite	1000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Standard Plate Count *(cfu/mL)*	NE	**3800 D**	**8100 D**	**18**	**10**	**13**	**25**	**21**	**56**	**140**
Sulfate	250000	**20400**	**438000 D**	**24900**	**17300**	**19800**	**30200**	**30200**	**21600**	**89700 D**
Sulfide	50*	2000 U	2000 U	2000 U	2000 U	3000 U	2000 U	2000 U	2000 U	2000 U
Total Kjeldahl Nitrogen	NE	**280**	**15300 D**	**240**	100 U	**380**	100 U	100 U	**390**	**150**
Total Nitrogen	NE	**280**	**15400**	**240**	**2650**	**380**	**1570**	**1550**	**2010**	**150**
Total Phosphorous	NE	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-45I2	OU2MW-45D	OU2MW-46S	OU2MW-46I	OU2MW-46I2	OU2MW-47S	OU2MW-47I	OU2MW-47I2	OU2MW-47D
Screened Interval:		40-45 ft	55-60 ft	5-15 ft	20-25 ft	40-45 ft	5-15 ft	20-25 ft	40-45 ft	60-65 ft
Sample Date:		2/13/2012	2/14/2012	2/13/2012	2/13/2012	2/13/2012	2/14/2012	2/14/2012	2/14/2012	2/14/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	**1 BJ**	**2 BJ**	5 U	5 U	**1 J**	**1 J**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-45I2	OU2MW-45D	OU2MW-46S	OU2MW-46I	OU2MW-46I2	OU2MW-47S	OU2MW-47I	OU2MW-47I2	OU2MW-47D
Screened Interval:		40-45 ft	55-60 ft	5-15 ft	20-25 ft	40-45 ft	5-15 ft	20-25 ft	40-45 ft	60-65 ft
Sample Date:		2/13/2012	2/14/2012	2/13/2012	2/13/2012	2/13/2012	2/14/2012	2/14/2012	2/14/2012	2/14/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	**4 J**	10 U	10 U	**2 J**	10 U	10 U	**3 J**	**13**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	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
Anthracene	50*	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
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	**37.2 B**	**87.2 B**	**52.7 B**	**28.9 B**	**37.1 B**	**56.9 B**	**30.1 B**	**42.6 B**	**49.6 B**
Antimony	3	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	**4.1 B**
Arsenic	25	1.8 U	**1.9 B**	1.8 U	1.8 U	1.8 U	**4.1 B**	**3.6 B**	1.8 U	1.8 U
Barium	1000	**24.1 B**	**5.4 B**	**22.4 B**	**22.1 B**	**32.1 B**	**39.4 B**	**55.5 B**	**93.7 B**	**55.4 B**
Beryllium	3*	**0.70 B**	0.13 U	0.13 U	**0.50 B**	**0.20 B**	0.13 U	0.13 U	**0.20 B**	0.13 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-45I2	OU2MW-45D	OU2MW-46S	OU2MW-46I	OU2MW-46I2	OU2MW-47S	OU2MW-47I	OU2MW-47I2	OU2MW-47D
Screened Interval:		40-45 ft	55-60 ft	5-15 ft	20-25 ft	40-45 ft	5-15 ft	20-25 ft	40-45 ft	60-65 ft
Sample Date:		2/13/2012	2/14/2012	2/13/2012	2/13/2012	2/13/2012	2/14/2012	2/14/2012	2/14/2012	2/14/2012
Parent Sample:										
Cadmium	5	**0.50 B**	**0.30 B**	0.17 U	0.17 U	**0.20 B**	**0.40 B**	0.17 U	**0.20 B**	**0.50 B**
Calcium	NE	**29200**	**6070**	**53300**	**48500**	**16300**	**27300**	**56300**	**42800**	**28400**
Chromium	50	**1.9 B**	0.28 U	0.28 U	**0.40 B**	0.28 U	**0.60 B**	0.28 U	**0.80 B**	0.28 U
Cobalt	NE	**1.0 B**	**1.0 B**	0.44 U	0.44 U	**3.9 B**	**1.8 B**	0.44 U	**2.6 B**	**21.5 B**
Copper	200	0.70 U	0.70 U	**3.0 B**	**2.9 B**	**1.2 B**	**3.4 B**	**2.2 B**	**1.4 B**	**3.0 B**
Iron	300	**73.4 B**	**75.5 B**	**26.4 B**	**63.9 B**	**62.8 B**	**244**	**39.3 B**	**110**	**79.7 B**
Lead	25	**8.0**	**12.6**	**7.4**	**6.4**	**10.9**	**7.7**	**7.9**	**7.5**	**6.2**
Magnesium	35000*	**6370**	**1180 B**	**8030**	**10600**	**3470 B**	**4470 B**	**7590**	**7830**	**8580**
Manganese	300	**13800**	**3950**	**45.7**	**77.0**	**3940**	**61.1**	**213**	**2390**	**2770**
Mercury	0.7	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	100	0.66 U	**0.70 B**	0.66 U	0.66 U	0.66 U	**1.8 B**	0.66 U	0.66 U	**8.8 B**
Potassium	NE	**3100 BE**	**2250 BE**	**5770 E**	**7120 E**	**2380 BE**	**2380 BE**	**5510 E**	**4910 BE**	**3950 BE**
Selenium	10	**6.6**	**5.4**	2.8 U	**2.8 B**	**3.0 B**	**3.5 B**	**5.2**	2.8 U	**5.8**
Silver	50	**1.7 B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Sodium	20000	**57600**	**13200**	**53300**	**51600**	**46300**	**36700**	**62000**	**67800**	**86100**
Thallium	0.5*	**3.6 B**	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
Vanadium	NE	0.21 U	0.21 U	**1.5 B**	**0.90 B**	0.21 U	**3.2 B**	**0.30 B**	0.21 U	0.21 U
Zinc	2000*	**42.9 E**	**39.4 E**	**9.2 BE**	**9.9 BE**	**23.9 E**	**270 E**	**35.9 E**	**8.3 BE**	**56.7 E**
Other (µg/L)										
Ammonia	2000	100 U	100 U	100 U	100 U	**100**	100 U	100 U	100 U	**180**
Carbon dioxide	NE	**4400**	**17600**	**61600**	**24600**	**35200**	**51900**	**56300**	**51900**	**63400**
Nitrogen, Nitrate	10000	**950**	**110**	**920**	**1280 D**	**2360 D**	**1210**	**270**	100 U	100 U
Nitrogen, Nitrite	1000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Standard Plate Count *(cfu/mL)*	NE	**110**	**60**	**21**	**17**	**120**	**44**	**100**	**640 D**	**66**
Sulfate	250000	**12700**	**16900**	**31800**	**14100**	**19400**	**37900**	**60100 D**	**12700**	**30300**
Sulfide	50*	5200 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Total Kjeldahl Nitrogen	NE	**130**	100 U	100 U	**290**	**110**	**260**	**170**	**360**	**320**
Total Nitrogen	NE	**1080**	**110**	**920**	**1570**	**2470**	**1470**	**440**	**360**	**320**
Total Phosphorous	NE	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-52S	OU2MW-52I	OU2MW-52D	OU2MW-53S	OU2MW-53I	OU2MW-53D	OU2MW-54S	OU2MW-54I	OU2MW-54I2
Screened Interval:		3-8 ft	20-25 ft	35-40 ft	3-8 ft	20-25 ft	35-40 ft	5-15 ft	25-30 ft	40-45 ft
Sample Date:		3/15/2012	3/15/2012	3/15/2012	3/15/2012	3/15/2012	3/15/2012	3/13/2012	3/13/2012	3/13/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-52S	OU2MW-52I	OU2MW-52D	OU2MW-53S	OU2MW-53I	OU2MW-53D	OU2MW-54S	OU2MW-54I	OU2MW-54I2
Screened Interval:		3-8 ft	20-25 ft	35-40 ft	3-8 ft	20-25 ft	35-40 ft	5-15 ft	25-30 ft	40-45 ft
Sample Date:		3/15/2012	3/15/2012	3/15/2012	3/15/2012	3/15/2012	3/15/2012	3/13/2012	3/13/2012	3/13/2012
Parent Sample:										
Methyl tert-butyl ether	10*	10 U	**2 J**	**30**	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	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
Anthracene	50*	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
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-52S	OU2MW-52I	OU2MW-52D	OU2MW-53S	OU2MW-53I	OU2MW-53D	OU2MW-54S	OU2MW-54I	OU2MW-54I2
Screened Interval:		3-8 ft	20-25 ft	35-40 ft	3-8 ft	20-25 ft	35-40 ft	5-15 ft	25-30 ft	40-45 ft
Sample Date:		3/15/2012	3/15/2012	3/15/2012	3/15/2012	3/15/2012	3/15/2012	3/13/2012	3/13/2012	3/13/2012
Parent Sample:										
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA	NA	NA	NA	**52**	**460 D**	**7**
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-54D	DUP-24 Q1	OU2MW-55S	OU2MW-55I	OU2MW-55I2	OU2MW-55D	OU2MW-56S	OU2MW-56I	OU2MW-56I2
Screened Interval:		60-65 ft	60-65 ft	5-15 ft	30-35 ft	50-55 ft	65-70 ft	5-15 ft	25-30 ft	50-55 ft
Sample Date:		3/13/2012	3/13/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012
Parent Sample:			OU2MW-54D							
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	**20**	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	**20**	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
Acetaldehyde	8*	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	**3 BJ**	**8 B**	**5**	**1 J**	**2 J**	**17**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	**1 B**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	**2**	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-54D	DUP-24 Q1	OU2MW-55S	OU2MW-55I	OU2MW-55I2	OU2MW-55D	OU2MW-56S	OU2MW-56I	OU2MW-56I2
Screened Interval:		60-65 ft	60-65 ft	5-15 ft	30-35 ft	50-55 ft	65-70 ft	5-15 ft	25-30 ft	50-55 ft
Sample Date:		3/13/2012	3/13/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012
Parent Sample:			OU2MW-54D							
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	**12**	**2 J**	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
Acenaphthene	20*	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
Anthracene	50*	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
Fluoranthene	50*	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
2-Methylnaphthalene	NE	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
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals (µg/L)										
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		OU2MW-54D	DUP-24 Q1	OU2MW-55S	OU2MW-55I	OU2MW-55I2	OU2MW-55D	OU2MW-56S	OU2MW-56I	OU2MW-56I2
Screened Interval:		60-65 ft	60-65 ft	5-15 ft	30-35 ft	50-55 ft	65-70 ft	5-15 ft	25-30 ft	50-55 ft
Sample Date:		3/13/2012	3/13/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012	3/14/2012
Parent Sample:			OU2MW-54D							
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)										
Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	**37**	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2
Sample Name:		OU2MW-56D	OU2MW-58S	OU2MW-58I
Screened Interval:		65-70 ft	5-15 ft	25-30 ft
Sample Date:		3/14/2012	3/14/2012	3/14/2012
Parent Sample:				
BTEX (µg/L)				
Benzene	1	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND
Other VOCs (µg/L)				
Acetaldehyde	8*	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U
Ethanol	NE	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U
Iodomethane	5	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2
Sample Name:		OU2MW-56D	OU2MW-58S	OU2MW-58I
Screened Interval:		65-70 ft	5-15 ft	25-30 ft
Sample Date:		3/14/2012	3/14/2012	3/14/2012
Parent Sample:				
Methyl tert-butyl ether	10*	**170**	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	**3**
Tetrahydrofuran	50*	10 U	**1 J**	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)				
Acenaphthene	20*	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U
2-Methylnaphthalene	NE	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND
Carcinogenic PAHs (µg/L)				
Benz[a]anthracene	0.002*	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND
Total PAHs (µg/L)				
Total PAHs	NE	ND	ND	ND
Total Metals (µg/L)				
Aluminum	NE	NA	NA	NA
Antimony	3	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Beryllium	3*	NA	NA	NA

Table 4-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 2 (OU-2)

Operable Unit:	NYS AWQS	OU2	OU2	OU2
Sample Name:		OU2MW-56D	OU2MW-58S	OU2MW-58I
Screened Interval:		65-70 ft	5-15 ft	25-30 ft
Sample Date:		3/14/2012	3/14/2012	3/14/2012
Parent Sample:				
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Mercury	0.7	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
Other (µg/L)				
Ammonia	2000	NA	NA	NA
Carbon dioxide	NE	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Nitrite	1000	NA	NA	NA
Standard Plate Count *(cfu/mL)*	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Sulfide	50*	NA	NA	NA
Total Kjeldahl Nitrogen	NE	NA	NA	NA
Total Nitrogen	NE	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-12
Summary of BTEX Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Location		Well ID	Number of Data Points	Number of Non-Detects	Median Value	Mann-Kendall Statistic (S)	Probability	Trend (At 90% Significant Level)
OU-1 Union Boulevard	Upgradient	BBMW-05D	18	0	865	5	0.8498	No Trend
		BBMW-05D2/D2R	10	7	ND	6	0.5041	No Trend
		BBMW-20I	18	0	8	8	0.7597	No Trend
		BBMW-22S	18	0	8915	-7	0.7909	No Trend
		BBMW-22I	17	0	170	107	0.0000	Increasing
		BBMW-22D	18	0	2037	-76	0.0040	Decreasing
		BBMW-34S	11	0	626	-29	0.0240	Decreasing
		BBMW-34I	11	0	2360	-31	0.0158	Decreasing
		BBMW-34I2	11	0	174	-28	0.0288	Decreasing
		BBMW-34D	11	8	ND	3	0.7638	No Trend
		BBMW-41S	11	0	4407	5	0.6971	No Trend
		BBMW-41I	11	9	ND	11	0.1979	No Trend
		BBMW-41I2	11	9	ND	-19	0.0262	Decreasing
		MW-05S	17	0	7344	-50	0.0394	Decreasing
		MW-05D	18	3	15	67	0.0108	Increasing
		OZMW-19S	14	1	111.5	11	0.5470	No Trend
		OZMW-19I	14	0	696.5	-53	0.0037	Decreasing
		OZMW-19I2	14	0	951.5	-23	0.2080	No Trend
		OZMW-19D	14	2	17	-21	0.2489	No Trend
		OZMW-21S	15	0	5420	-8	0.6918	No Trend
		OZMW-21I	15	0	418	10	0.6203	No Trend
		OZMW-21I2	15	0	134	16	0.4279	No Trend
		OZMW-21D	15	1	10	-40	0.0469	Decreasing
		OZMW-22S/RS	17	0	4305	-110	0.0000	Decreasing
		OZMW-22I/RI	18	5	23.5	39	0.1349	No Trend
		OZMW-23S	43	25	ND	-526	0.0000	Decreasing
		OZMW-23I	43	23	ND	-489	0.0000	Decreasing
		OZMW-23I2	42	22	ND	-483	0.0000	Decreasing
		OZMW-23D	42	17	6.5	-423	0.0000	Decreasing
		OZMW-24S	42	5	12.5	-649	0.0000	Decreasing
		OZMW-24I	42	22	ND	-507	0.0000	Decreasing
		OZMW-24I2	42	0	134.5	222	0.0160	Increasing
		OZMW-24D	42	0	1329.5	-375	0.0000	Decreasing
		OZMW-25S	17	0	1606	-30	0.2165	No Trend
		OZMW-25I	17	0	295	92	0.0002	Increasing
		OZMW-25I2	18	0	146	-17	0.5196	No Trend
		OZMW-25D	18	17	ND	11	0.2891	No Trend
		OZMW-26S	21	4	18	-174	0.0000	Decreasing
		OZMW-26I	21	9	7	-93	0.0033	Decreasing
		OZMW-26I2	21	0	200	-146	0.0000	Decreasing
		OZMW-26D	21	17	ND	-7	0.7557	No Trend
OU-1 Union Boulevard	Downgradient	BBMW-01S	36	2	158.5	-478	0.0000	Decreasing
		BBMW-01I	36	5	33.5	-304	0.0000	Decreasing
		BBMW-01D	36	1	44	128	0.0808	Increasing
		BBMW-23S	33	0	9208	-232	0.0003	Decreasing
		BBMW-23I	33	22	ND	84	0.1191	No Trend
		BBMW-23D	33	5	4	-253	0.0001	Decreasing
		BBMW-23D2	33	31	ND	-29	0.2743	No Trend
		OZMW-16S	21	20	ND	-20	0.0986	Decreasing*
		OZMW-16I	21	7	8	-80	0.0135	Decreasing
		OZMW-16I2	21	0	464	97	0.0034	Increasing
		OZMW-17S	21	12	ND	-122	0.0000	Decreasing
		OZMW-17I	21	13	ND	-116	0.0001	Decreasing
		OZMW-17I2	21	12	ND	-25	0.3847	No Trend
		OZMW-17D	21	13	ND	33	0.2512	No Trend
		OZMW-18S	21	14	ND	-107	0.0001	Decreasing
		OZMW-18I	21	14	ND	-97	0.0004	Decreasing
		OZMW-18I2	21	4	7	-128	0.0001	Decreasing
		OZMW-18D	21	0	222	39	0.2387	No Trend

Table 4-12
Summary of BTEX Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Notes:

ND - Non-Detect

* Statistical trend doesn't use high concentration system near startup, but only the post-startup consistent low concentrations.

1. A high positive value of the Mann-Kendall Statistic (S) indicates an increasing statistical trend, and a low negative value of S indicates a decreasing statistical trend.
2. A conservative confidence interval of 90% was used to assess statistical trends with an associated error probability of less than 0.10.
3. Shading indicates that the normal approximation used to compute the achieved significance level may be poor.

Table 4-13
Summary of Total PAH Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Location		Well ID	Number of Data Points	Number of Non-Detects	Median Value	Mann-Kendall Statistic (S)	Probability	Trend (At 90% Significant Level)
OU-1 Union Boulevard	Upgradient	BBMW-05D	18	2	1301.5	0	1.0000	No Trend
		BBMW-20I	18	0	161	-7	0.7909	No Trend
		BBMW-22S	18	0	2456.5	43	0.1034	No Trend
		BBMW-22I	17	0	5212	30	0.2165	No Trend
		BBMW-22D	18	0	5208	-7	0.7909	No Trend
		BBMW-34S	11	0	468	-25	0.0516	Decreasing
		BBMW-34I	11	0	2428	19	0.1391	No Trend
		BBMW-34I2	11	0	2080	3	0.8153	No Trend
		BBMW-34D	11	0	148	-29	0.0240	Decreasing
		BBMW-41S	11	1	782	5	0.6971	No Trend
		BBMW-41I	11	9	ND	11	0.1979	No Trend
		BBMW-41I2	11	10	ND	-8	0.2059	No Trend
		BBMW-41D	11	10	ND	-8	0.2059	No Trend
		MW-05S	17	0	1076	6	0.8048	No Trend
		MW-05D	18	0	799	49	0.0635	Increasing
		OZMW-19S	14	1	227.5	17	0.3520	No Trend
		OZMW-19I	14	0	2831.5	-9	0.6222	No Trend
		OZMW-19I2	14	0	2160.5	-13	0.4767	No Trend
		OZMW-19D	14	1	211.5	-3	0.8695	No Trend
		OZMW-21S	15	0	5177	19	0.3471	No Trend
		OZMW-21I	15	0	5512	-11	0.5862	No Trend
		OZMW-21I2	15	0	5458	-1	0.9605	No Trend
		OZMW-21D	15	0	532	-79	0.0001	Decreasing
		OZMW-22S/RS	17	0	1347	-77	0.0015	Decreasing
		OZMW-22I/RI	18	6	2	31	0.2293	No Trend
		OZMW-23S	43	17	1	-405	0.0000	Decreasing
		OZMW-23I	43	29	ND	-369	0.0000	Decreasing
		OZMW-23I2	42	26	ND	-311	0.0001	Decreasing
		OZMW-23D	42	6	22	-348	0.0002	Decreasing
		OZMW-24S	42	13	7	1	0.9912	No Trend
		OZMW-24I	42	25	ND	-387	0.0000	Decreasing
		OZMW-24I2	42	0	4858	-127	0.1687	No Trend
		OZMW-24D	42	0	4170	-193	0.0365	Decreasing
		OZMW-25S	17	0	3504	-10	0.6804	No Trend
		OZMW-25I	17	0	3261	14	0.5641	No Trend
		OZMW-25I2	18	0	162	62	0.0188	Increasing
		OZMW-25D	18	3	71	32	0.2243	No Trend
		OZMW-26S	21	5	2	-20	0.5388	No Trend
		OZMW-26I	21	18	ND	-21	0.2935	No Trend
		OZMW-26I2	21	5	44	-26	0.4289	No Trend
		OZMW-26D	21	16	ND	28	0.2543	No Trend
OU-1 Union Boulevard	Downgradient	BBMW-01S	36	6	56.5	-173	0.0181	Decreasing
		BBMW-01I	36	4	4784.5	-250	0.0007	Decreasing
		BBMW-01D	36	7	78.5	171	0.0193	Increasing
		BBMW-23S	33	1	1544	-72	0.2646	No Trend
		BBMW-23I	33	19	ND	0	1.0000	No Trend
		BBMW-23D	33	16	1	-59	0.3300	No Trend
		BBMW-23D2	33	30	ND	-13	0.6845	No Trend
		OZMW-16S	21	18	ND	-22	0.2705	No Trend*
		OZMW-16I	21	8	3	-102	0.0015	Decreasing
		OZMW-16I2	21	2	542	87	0.0086	Increasing
		OZMW-16D	21	11	ND	72	0.0177	Increasing
		OZMW-17S	21	17	ND	-37	0.0992	Decreasing
		OZMW-17I	21	16	ND	-42	0.0873	Decreasing
		OZMW-17I2	21	12	ND	-7	0.8136	No Trend
		OZMW-17D	21	3	10	61	0.0648	Increasing
		OZMW-18S	21	17	ND	-60	0.0077	Decreasing
		OZMW-18I	21	11	ND	-137	0.0000	Decreasing
		OZMW-18I2	21	2	676	-157	0.0000	Decreasing
		OZMW-18D	21	1	1328	52	0.1164	No Trend

Table 4-13
Summary of Total PAH Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Notes:

ND - Non-Detect

* Statistical trend doesn't use high concentration system near startup, but only the post-startup consistent low concentrations.

1. A high positive value of the Mann-Kendall Statistic (S) indicates an increasing statistical trend, and a low negative value of S indicates a decreasing statistical trend.
2. A conservative confidence interval of 90% was used to assess statistical trends with an associated error probability of less than 0.10.
3. Shading indicates that the normal approximation used to compute the achieved significance level may be poor.

Table 4-14
Summary of BTEX Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Location		Well ID	Number of Data Points	Number of Non-Detects	Median Value	Mann-Kendall Statistic (S)	Probability	Trend (At 90% Significant Level)
9 North Clinton Avenue	Downgradient	OU2MW-08S	27	6	366	-198	0.0000	Decreasing
		OU2MW-08I	27	2	168	-177	0.0002	Decreasing
		OU2MW-08I2	27	0	120	-140	0.0035	Decreasing
		OU2MW-08D	27	26	ND	-2	0.8978	No Trend
		OU2MW-28S	24	23	ND	-5	0.7180	No Trend
		OU2MW-28I	26	13	0.55	-121	0.0042	Decreasing
		OU2MW-28I2	24	4	26.5	116	0.0039	Increasing
		OU2MW-29I	24	12	2.05	-190	0.0000	Decreasing
		OU2MW-29I2	24	6	81	-115	0.0040	Decreasing
		OU2MW-29D	24	0	157	-161	0.0001	Decreasing
		OU2MW-30S	24	21	ND	-64	0.0054	Decreasing
		OU2MW-30I	24	11	4	-169	0.0000	Decreasing
		OU2MW-30I2	24	6	80.5	-173	0.0000	Decreasing
		OU2MW-30I3	24	0	25.5	-149	0.0002	Decreasing
		OU2MW-30D	24	0	67	-77	0.0561	Decreasing
		OU2MW-30D2	24	2	247	-119	0.0031	Decreasing
		OU2MW-31I	24	12	0.55	-164	0.0000	Decreasing
		OU2MW-31I2	24	12	0.55	-102	0.0067	Decreasing
		OU2MW-32I	24	5	1127	-146	0.0003	Decreasing
		OU2MW-32I2	24	5	7	-150	0.0002	Decreasing
		OU2MW-32D	24	13	ND	-31	0.3998	No Trend
		OU2MW-33I	13	6	2	-51	0.0010	Decreasing
		OU2MW-33I2	13	8	ND	-32	0.0248	Decreasing
		OU2MW-33D	13	11	ND	-10	0.3237	No Trend
		OU2MW-40I	15	10	ND	-54	0.0013	Decreasing
		OU2MW-41S	16	12	ND	-36	0.0316	Decreasing
		OU2MW-41I	16	5	26.5	-102	0.0000	Decreasing
33 North Clinton Avenue	Upgradient	OU2MW-17I	17	5	6	-14	0.5585	No Trend
		OU2MW-18I	16	0	2513.5	-74	0.0009	Decreasing
		OU2MW-18I2	16	6	249	45	0.0369	Increasing
		OU2MW-18D	17	16	ND	11	0.2328	No Trend
	Downgradient	OU2MW-22S	14	13	ND	-11	0.1724	No Trend
		OU2MW-22I	14	5	6	-42	0.0181	Decreasing
		OU2MW-23I	14	2	114.5	-37	0.0422	Decreasing
		OU2MW-23I2	14	11	ND	36	0.0056	Increasing
		OU2MW-24S	14	13	ND	-11	0.1724	No Trend
		OU2MW-24I	14	10	ND	-46	0.0015	Decreasing
		OU2MW-24I2	14	10	ND	28	0.0526	Increasing
		OU2MW-25I	14	3	39	-36	0.0475	Decreasing
		OU2MW-35S	23	20	ND	-61	0.0055	Decreasing
		OU2MW-35I	23	20	ND	-61	0.0055	Decreasing
		OU2MW-35D	23	22	ND	12	0.3657	No Trend
		OU2MW-36I	23	19	ND	-82	0.0010	Decreasing
		OU2MW-37S	23	21	ND	-25	0.1732	No Trend
		OU2MW-37I	23	8	11	-113	0.0023	Decreasing
		OU2MW-37I2	23	22	ND	-18	0.1748	No Trend
		OU2MW-38S	14	13	ND	-11	0.1724	No Trend
		OU2MW-38I	14	6	1	-63	0.0003	Decreasing
		OU2MW-38I2	14	6	22	56	0.0014	Increasing
		OU2MW-38D	14	12	ND	3	0.7851	No Trend
		OU2MW-39S	23	21	ND	5	0.7853	No Trend
		OU2MW-39I	23	16	ND	-11	0.7198	No Trend
		OU2MW-39I2	23	7	3	141	0.0002	Increasing
		OU2MW-39D	23	21	ND	23	0.2102	No Trend
		OU2MW-42S	21	14	ND	-75	0.0065	Decreasing
		OU2MW-42I	21	9	4	-58	0.0673	Decreasing
		OU2MW-42I2	21	18	ND	13	0.5155	No Trend
		OU2MW-42D	21	3	17	1	0.9758	No Trend

Table 4-14
Summary of BTEX Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Location		Well ID	Number of Data Points	Number of Non-Detects	Median Value	Mann-Kendall Statistic (S)	Probability	Trend (At 90% Significant Level)
34 North Clinton Avenue	Downgradient	BBMW-24S	15	14	ND	-14	0.1052	No Trend
		BBMW-24I	15	9	ND	-41	0.0212	Decreasing
		BBMW-24D	15	4	9	-31	0.1210	No Trend
		OU2MW-21S	14	12	ND	-12	0.3555	No Trend*
		OU2MW-21I	16	7	2.5	-73	0.0006	Decreasing
		OU2MW-21I2	16	5	6	-73	0.0008	Decreasing
		OU2MW-26S	16	15	ND	15	0.1037	No Trend
		OU2MW-26I	16	7	2.5	-71	0.0008	Decreasing
		OU2MW-26I2	16	4	5	-34	0.1217	No Trend
		OU2MW-26D	16	0	302	-14	0.5285	No Trend
		OU2MW-27S	10	9	ND	-1	0.8618	No Trend
		OU2MW-27I	10	9	ND	-1	0.8618	No Trend
		OU2MW-27I2	10	5	1.05	-29	0.0053	Decreasing
		OU2MW-27D	10	3	5	-3	0.7845	No Trend
		OU2MW-45S	25	9	5	-145	0.0005	Decreasing
		OU2MW-45I	25	10	3	-33	0.4246	No Trend*
		OU2MW-45I2	25	23	ND	25	0.2111	No Trend
		OU2MW-46S	25	21	ND	-80	0.0032	Decreasing
		OU2MW-46I	25	18	ND	-141	0.0000	Decreasing
		OU2MW-46I2	25	15	ND	-101	0.0073	Decreasing
		OU2MW-47S	25	20	ND	-74	0.0128	Decreasing*
		OU2MW-47I	25	15	ND	-164	0.0000	Decreasing
		OU2MW-47I2	25	5	6	-150	0.0004	Decreasing
		OU2MW-47D	25	2	234	-245	0.0000	Decreasing
Cooper Lane	Downgradient	BBMW-02S	21	17	ND	14	0.5342	No Trend
		OU2MW-19I	19	7	21	-124	0.0000	Decreasing
		OU2MW-19I2	19	8	10	-118	0.0000	Decreasing
		OU2MW-19D	18	1	61.5	-77	0.0035	Decreasing
		OU2MW-20S	19	18	ND	-16	0.1441	No Trend
		OU2MW-20I	19	6	26	-96	0.0006	Decreasing
		OU2MW-20I2	19	17	ND	-5	0.7404	No Trend
		OU2MW-43S	14	8	ND	-55	0.0008	Decreasing
		OU2MW-43I	14	8	ND	-48	0.0033	Decreasing
		OU2MW-43I2	14	1	13	-48	0.0085	Decreasing
		OU2MW-43D	14	0	16	-12	0.5106	No Trend
Manatuck Lane Line	Upgradient	GM-05S	26	7	8	-120	0.0075	Decreasing
		GM-05I	23	22	ND	-14	0.2913	No Trend
		GM-05D	23	20	ND	-30	0.1721	No Trend
		GMP-01	27	1	185	-171	0.0004	Decreasing
		OU2MW-05	26	0	195	-189	0.0000	Decreasing
		OU2MW-11S	21	20	ND	20	0.0986	Increasing
		OU2MW-11I	21	2	91	-99	0.0028	Decreasing
		OU2MW-11I2	21	3	24	-80	0.0155	Decreasing
		OU2MW-11D	21	7	5	93	0.0041	Increasing
	Downgradient	GMP-02	26	19	ND	-103	0.0034	Decreasing
		GMP-04	26	15	ND	-165	0.0000	Decreasing
		OU2MW-06	26	19	ND	-80	0.0231	Decreasing
		OU2MW-07S	20	19	ND	-13	0.2596	No Trend
		OU2MW-07	26	13	0.55	-90	0.0332	Decreasing
		OU2MW-10I	20	3	34.5	-5	0.8709	No Trend
		OU2MW-10D	20	10	1.05	-13	0.6508	No Trend
		OU2MW-12S	21	20	ND	20	0.0986	Increasing
		OU2MW-12I	21	3	70	-122	0.0002	Decreasing
		OU2MW-12I2	21	5	5	-39	0.2341	No Trend
		OU2MW-12D	21	8	11	-24	0.4549	No Trend
		OU2MW-13I	20	6	3	-76	0.0122	Decreasing
		OU2MW-13D	20	3	9.5	-26	0.3956	No Trend
		OU2MW-52I	12	11	ND	-11	0.1111	No Trend
		OU2MW-53D	12	10	ND	5	0.5933	No Trend

Table 4-14
Summary of BTEX Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Location		Well ID	Number of Data Points	Number of Non-Detects	Median Value	Mann-Kendall Statistic (S)	Probability	Trend (At 90% Significant Level)
		BBMW-25S	27	25	ND	-1	0.9631	No Trend
		BBMW-25I	26	10	43.5	-140	0.0015	Decreasing
		BBMW-25D	26	7	6.5	-63	0.1601	No Trend
		OU2MW-01S	28	9	33	-230	0.0000	Decreasing
		OU2MW-01I	27	7	10	-210	0.0000	Decreasing
		OU2MW-01I2	27	14	ND	-135	0.0023	Decreasing
		OU2MW-01D	27	26	ND	26	0.0951	Increasing
		OU2MW-02S	26	10	13	-198	0.0000	Decreasing
		OU2MW-02I	26	0	342.5	-212	0.0000	Decreasing
		OU2MW-02I2	26	19	ND	-44	0.2114	No Trend
		OU2MW-02D	26	25	ND	21	0.1615	No Trend
		OU2MW-03S	26	8	43.5	-197	0.0000	Decreasing
		OU2MW-03I	26	18	ND	4	0.9137	No Trend
		OU2MW-03I2	26	19	ND	-12	0.7334	No Trend
		OU2MW-04S	26	5	482.5	-192	0.0000	Decreasing
		OU2MW-04I	26	1	119	-72	0.1124	No Trend
		OU2MW-04I2	26	17	ND	-3	0.9376	No Trend
		OU2MW-04D	25	20	ND	-20	0.5005	No Trend

Notes:

ND - Non-Detect

* Statistical trend doesn't use high concentration system near startup, but only the post-startup consistent low concentrations.

1. A high positive value of the Mann-Kendall Statistic (S) indicates an increasing statistical trend, and a low negative value of S indicates a decreasing statistical trend.
2. A conservative confidence interval of 90% was used to assess statistical trends with an associated error probability of less than 0.10.
3. Shading indicates that the normal approximation used to compute the achieved significance level may be poor.

Table 4-15
Summary of Total PAH Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Location		Well ID	Number of Data Points	Number of Non-Detects	Median Value	Mann-Kendall Statistic (S)	Probability	Trend (At 90% Significant Level)
9 North Clinton Avenue	Downgradient	OU2MW-08WT	20	17	ND	-30	0.1142	No Trend
		OU2MW-08S	27	1	4661	-232	0.0000	Decreasing
		OU2MW-08I	27	3	2328	-154	0.0013	Decreasing
		OU2MW-08I2	27	1	1646	-9	0.8512	No Trend
		OU2MW-08D	27	23	ND	-6	0.8386	No Trend
		OU2MW-28S	24	23	ND	19	0.1699	No Trend
		OU2MW-28I	26	15	ND	-96	0.0179	Decreasing
		OU2MW-28I2	24	6	59.5	43	0.2819	No Trend
		OU2MW-29I	24	9	16.5	-175	0.0000	Decreasing
		OU2MW-29I2	24	5	268	-220	0.0000	Decreasing
		OU2MW-29D	24	0	1702.5	-66	0.1016	No Trend
		OU2MW-30S	24	21	ND	-62	0.0070	Decreasing
		OU2MW-30I	24	9	12	-176	0.0000	Decreasing
		OU2MW-30I2	24	6	66.5	-237	0.0000	Decreasing
		OU2MW-30I3	24	5	26.5	-173	0.0000	Decreasing
		OU2MW-30D	24	2	77	-193	0.0000	Decreasing
		OU2MW-30D2	24	4	233.5	-82	0.0414	Decreasing
		OU2MW-31I	24	14	ND	-142	0.0001	Decreasing
		OU2MW-31I2	24	12	0.55	-117	0.0018	Decreasing
		OU2MW-32S	24	23	ND	-19	0.1699	No Trend
		OU2MW-32I	24	0	1789.5	-209	0.0000	Decreasing
		OU2MW-32I2	24	0	100.5	-160	0.0001	Decreasing
		OU2MW-32D	24	12	1.05	-75	0.0458	Decreasing
		OU2MW-33I	13	6	10	-57	0.0002	Decreasing
		OU2MW-33I2	13	7	ND	-45	0.0027	Decreasing
		OU2MW-40S	15	14	ND	12	0.1649	No Trend
		OU2MW-40I	15	7	10	-66	0.0005	Decreasing
		OU2MW-41S	16	13	ND	-12	0.4234	No Trend
		OU2MW-41I	16	5	97.5	-70	0.0013	Decreasing
33 North Clinton Avenue	Upgradient	OU2MW-17S	17	16	ND	-14	0.1530	No Trend
		OU2MW-17I	17	8	1	-39	0.0873	Decreasing
		OU2MW-17I2	17	16	ND	-14	0.1530	No Trend
		OU2MW-17D	17	16	ND	16	0.1025	No Trend
		OU2MW-18I	16	0	2919	-70	0.0016	Decreasing
		OU2MW-18I2	16	11	ND	33	0.0686	Increasing
		OU2MW-18D	17	15	ND	23	0.0687	Increasing
	Downgradient	OU2MW-22I	14	8	ND	-24	0.1421	No Trend
		OU2MW-23I	14	7	1.05	-18	0.2900	No Trend
		OU2MW-23I2	14	10	ND	42	0.0036	Increasing
		OU2MW-24S	14	12	ND	-9	0.4133	No Trend
		OU2MW-24I	14	8	ND	-61	0.0002	Decreasing
		OU2MW-24I2	14	7	0.55	30	0.0778	Increasing
		OU2MW-25I	14	1	37.5	-58	0.0015	Decreasing
		OU2MW-35S	23	22	ND	-22	0.0973	Decreasing
		OU2MW-35I	23	18	ND	-96	0.0004	Decreasing
		OU2MW-35I2	23	22	ND	-12	0.3657	No Trend
		OU2MW-35D	23	20	ND	12	0.5849	No Trend
		OU2MW-36I	23	19	ND	-82	0.0010	Decreasing
		OU2MW-36I2	23	22	ND	-4	0.7630	No Trend
		OU2MW-36D	23	22	ND	-20	0.1317	No Trend
		OU2MW-37S	23	22	ND	-18	0.1748	No Trend
		OU2MW-37I	23	10	14	-132	0.0003	Decreasing
		OU2MW-37I2	23	21	ND	-29	0.1142	No Trend
		OU2MW-38I	14	9	ND	-55	0.0004	Decreasing
		OU2MW-38I2	14	8	ND	49	0.0028	Increasing
		OU2MW-38D	14	12	ND	3	0.7851	No Trend
		OU2MW-39S	23	22	ND	20	0.1317	No Trend
		OU2MW-39I	23	18	ND	-28	0.3022	No Trend
		OU2MW-39I2	23	4	55	71	0.0598	Increasing
		OU2MW-39D	23	22	ND	22	0.0973	Increasing
		OU2MW-42S	21	11	ND	-44	0.1482	No Trend
		OU2MW-42I	21	12	ND	-11	0.7112	No Trend
		OU2MW-42I2	21	20	ND	4	0.7412	No Trend
		OU2MW-42D	21	0	76	-5	0.8799	No Trend

Table 4-15
Summary of Total PAH Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Location		Well ID	Number of Data Points	Number of Non-Detects	Median Value	Mann-Kendall Statistic (S)	Probability	Trend (At 90% Significant Level)
34 North Clinton Avenue	Downgradient	BBMW-24S	15	13	ND	-19	0.1079	No Trend
		BBMW-24I	15	14	ND	-8	0.3545	No Trend
		BBMW-24D	15	3	13	-51	0.0111	Decreasing
		OU2MW-21S	14	9	ND	-47	0.0025	Decreasing*
		OU2MW-21I	16	8	8.55	-80	0.0001	Decreasing
		OU2MW-21I2	16	4	4	-105	0.0000	Decreasing
		OU2MW-26S	16	15	ND	-13	0.1585	No Trend
		OU2MW-26I	16	8	0.55	-49	0.0177	Decreasing
		OU2MW-26I2	16	7	6.5	-85	0.0001	Decreasing
		OU2MW-26D	16	1	1555.5	-33	0.1369	No Trend
		OU2MW-27I	10	8	ND	-17	0.0277	Decreasing
		OU2MW-27I2	10	6	ND	-26	0.0082	Decreasing
		OU2MW-27D	10	4	1.5	1	0.9261	No Trend
		OU2MW-45S	25	19	ND	-51	0.1097	No Trend
		OU2MW-45I	25	8	2	-72	0.0856	Decreasing*
		OU2MW-45I2	25	23	ND	-47	0.0187	Decreasing
		OU2MW-45D	25	23	ND	13	0.5155	No Trend
		OU2MW-46S	25	23	ND	-43	0.0315	Decreasing
		OU2MW-46I	25	18	ND	-144	0.0000	Decreasing
		OU2MW-46I2	25	20	ND	-72	0.0154	Decreasing
		OU2MW-47S	25	24	ND	-24	0.0961	Decreasing*
		OU2MW-47I	25	16	ND	-118	0.0013	Decreasing
		OU2MW-47I2	25	9	3	-169	0.0000	Decreasing
		OU2MW-47D	25	4	1550	-230	0.0000	Decreasing
Cooper Lane	Downgradient	BBMW-02S	21	19	ND	3	0.8576	No Trend
		OU2MW-19I	19	7	18	-134	0.0000	Decreasing
		OU2MW-19I2	19	3	69	-137	0.0000	Decreasing
		OU2MW-19D	18	3	233	-60	0.0227	Decreasing
		OU2MW-20I	19	10	ND	-48	0.0680	Decreasing
		OU2MW-20I2	19	17	ND	-3	0.8424	No Trend
		OU2MW-20D	18	16	ND	-24	0.0918	Decreasing
		OU2MW-43S	14	8	ND	-63	0.0001	Decreasing
		OU2MW-43I	14	9	ND	-54	0.0005	Decreasing
		OU2MW-43I2	14	2	90.5	-28	0.1247	No Trend
		OU2MW-43D	14	1	95	-3	0.8695	No Trend
Manatuck Lane Line	Upgradient	GM-05S	25	12	1	-34	0.3981	No Trend
		GM-05I	23	22	ND	-14	0.2913	No Trend
		GM-05D	23	22	ND	-18	0.1748	No Trend
		GMP-01	26	0	985	-221	0.0000	Decreasing
		OU2MW-05	26	0	470	-203	0.0000	Decreasing
		OU2MW-11S	21	19	ND	-17	0.3094	No Trend
		OU2MW-11I	21	2	220	-115	0.0005	Decreasing
		OU2MW-11I2	21	4	52	-20	0.5443	No Trend
		OU2MW-11D	21	7	7	53	0.1020	No Trend
	Downgradient	GMP-02	26	23	ND	-62	0.0131	Decreasing
		GMP-04	26	16	ND	-161	0.0000	Decreasing
		OU2MW-06S	20	18	ND	-27	0.0896	Decreasing
		OU2MW-06	26	22	ND	-68	0.0163	Decreasing
		OU2MW-07S	20	19	ND	-15	0.1934	No Trend
		OU2MW-07	26	22	ND	-32	0.2581	No Trend
		OU2MW-10S	19	18	ND	-10	0.3613	No Trend
		OU2MW-10I	20	3	25.5	37	0.2291	No Trend
		OU2MW-10D	20	12	ND	-24	0.3768	No Trend
		OU2MW-12S	21	20	ND	-20	0.0986	Decreasing
		OU2MW-12I	21	4	122	-130	0.0001	Decreasing
		OU2MW-12I2	21	3	7	-38	0.2492	No Trend
		OU2MW-12D	21	6	35	-14	0.6683	No Trend
		OU2MW-13I	20	4	7	-34	0.2651	No Trend
		OU2MW-13D	20	2	14.5	18	0.5578	No Trend
		OU2MW-52I	12	10	ND	-17	0.0694	Decreasing

Table 4-15
Summary of Total PAH Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Location		Well ID	Number of Data Points	Number of Non-Detects	Median Value	Mann-Kendall Statistic (S)	Probability	Trend (At 90% Significant Level)
Montauk Highway	Downgradient	BBMW-25S	27	25	ND	5	0.8172	No Trend
		BBMW-25I	26	9	24	-142	0.0014	Decreasing
		BBMW-25D	26	14	ND	-75	0.0708	Decreasing
		OU2MW-01WT	21	19	ND	-5	0.7650	No Trend
		OU2MW-01S	28	14	1.05	-189	0.0001	Decreasing
		OU2MW-01I	27	11	15	-212	0.0000	Decreasing
		OU2MW-01I2	27	19	ND	-110	0.0043	Decreasing
		OU2MW-01D	27	26	ND	22	0.1579	No Trend
		OU2MW-02S	26	9	30	-205	0.0000	Decreasing
		OU2MW-02I	26	0	1968	-161	0.0004	Decreasing
		OU2MW-02I2	26	18	ND	-93	0.0117	Decreasing
		OU2MW-02D	26	22	ND	-11	0.6973	No Trend
		OU2MW-03S	26	3	79.5	-201	0.0000	Decreasing
		OU2MW-03I	26	18	ND	-20	0.5878	No Trend
		OU2MW-03I2	26	20	ND	-80	0.0162	Decreasing
		OU2MW-03D	26	24	ND	-17	0.4139	No Trend
		OU2MW-04WT	20	19	ND	-7	0.5439	No Trend
		OU2MW-04S	26	0	3164.5	-215	0.0000	Decreasing
		OU2MW-04I	26	8	169.5	-55	0.2180	No Trend
		OU2MW-04I2	26	12	3	-123	0.0042	Decreasing
		OU2MW-04D	25	24	ND	22	0.1272	No Trend

Notes:

ND - Non-Detect

* Statistical trend doesn't use high concentration system near startup, but only the post-startup consistent low concentrations.

1. A high positive value of the Mann-Kendall Statistic (S) indicates an increasing statistical trend, and a low negative value of S indicates a decreasing statistical trend.
2. A conservative confidence interval of 90% was used to assess statistical trends with an associated error probability of less than 0.10.
3. Shading indicates that the normal approximation used to compute the achieved significance level may be poor.

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1997		1998			1999				2000	
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	85	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	15	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	0	--	--	--	--	--	--	--	0	0	--	--
GM-02AI	35.24 - 50.24	0	--	--	--	--	--	--	--	0	0	--	--
GM-02AD	59.8 - 74.8	0	--	--	--	--	--	--	--	0	0	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	0	0	--	0	--	--	--	--	--	0	--	--
MW-01D	35.0 - 45.0	0	--	--	0	--	--	--	--	--	0	--	--
MW-02S/S-R	2.0 - 12.0	161,000	98,200	90,100	143,200	103,200	103,400	132,000	125,100	295,000	72,100	73,000	73,200
MW-02I/I-R	22.5 - 23.5	--	--	238,900	1,435	4,201	650	965	144	0	65	199	33
MW-03	4.94 - 14.94	--	35	--	1	--	--	--	--	--	178	--	--
MW-04	5.1 - 15.1	--	1	--	0	--	--	--	--	--	0	--	--
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	--	--	--	--	2,130	635	1,355	4,070	6,910	2,547	1,401	2,360
MW-12W	2.0 - 10.0	--	0	--	--	0	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	55	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	--	--	--	79,600	46,190	20,640	1,830	28,980	64,900	3,627	71,900	34,900
MW-16I	14.0 - 19.0	--	--	--	24	10	55	1	45	0	0	6	12
MW-17W	2.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	0	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	--	--	--	--	--	0	0	--	0	0	0	0
MW-29D	14.0 - 19.0	--	--	--	0	--	0	0	0	0	0	0	0
MW-30W/W-R	2.0 - 9.0	--	11,740	--	--	--	--	--	--	--	--	--	--
MW-32W/W-R	2.0 - 10.0	--	22,000	--	--	4,020	45,800	18,460	3,620	--	--	--	--
MW-34S	2.0 - 10.0	--	39,100	17,000	--	17,600	49,500	3,910	19,750	34,700	28,400	22,700	9,600
MW-34I	18.5 - 19.5	--	--	25,600	--	0	3	0	0	0	6	10	3

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1997		1998			1999				2000	
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May
MW-34D	27.5 - 28.5	--	--	16,200	--	35	3	0	1	0	0	15	0
MW-34DD	27.5 - 28.5	--	--	--	--	0	--	--	61	--	--	--	--
MW-37W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	--	5,500	--	195	--	--	--	--	--	--	--	--
MW-46W/W-R	2.0 - 10.0	--	30,000	--	29,900	--	--	--	--	--	--	--	--
MW-64	19.0 - 24.0	--	--	--	0	0	0	0	0	0	0	25	--
MW-65	11.0 - 16.0	--	--	--	0	--	--	--	--	18	--	31	0
MW-66S	1.5 - 11.5	--	--	--	0	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	0	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	0	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	0	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	0	0	1	172	2	0	0	--	--
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-73	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-78	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-79	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-80	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-83	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-01S	5.0 - 15.0	--	2	--	--	--	--	--	--	--	151	--	--
MWBS-02S	5.0 - 15.0	--	997	60	0	--	221	264	40	0	5,510	50	0
MWBS-02I	14.5 - 15.5	--	--	13	330	347	341	9,998	608	0	7	12	0
MWBS-02D	24.5 - 25.5	--	--	62	0	--	2,450	23	25	0	17,530	0	0
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1997		1998			1999				2000	
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2000		2001				2002					
		Sep	Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	2	--	3	5
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	2	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	137,000	123,100	--	--	--	--	159,200	149,000	166,500	180,000	134,000	149,600
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	--	--	--	--	--	--	--	24	24	--	3	28
MW-04	5.1 - 15.1	--	--	--	--	--	--	--	--	2	--	28	9
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	--	1,390	242	4,900	170	489	--	2,410	--	175	101	17
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	55,990	15,370	--	--	3,350	122,600	75,500	59,800	24,550	22,700	45,500	4,424
MW-16I	14.0 - 19.0	0	--	--	--	--	--	--	--	--	2	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	10	0	0	2	0	0	--	--	--	0	0	0
MW-29D	14.0 - 19.0	8	--	--	--	--	--	--	--	--	0	--	--
MW-30W/W-R	2.0 - 9.0	--	27,200	16	0	40	6,240	--	77	--	0	104	170
MW-32W/W-R	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-34S	2.0 - 10.0	--	8,621	5	3,530	1,500	8	--	71	--	7,440	179	2,142
MW-34I	18.5 - 19.5	0	--	--	--	--	--	--	--	--	3,690	--	--

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2000		2001				2002					
		Sep	Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec
MW-34D	27.5 - 28.5	55	--	--	--	--	--	--	--	--	0	--	--
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	13,230	134	53,700	1,240	24	219	--	--	2,550	7	1	0
MW-46W/W-R	2.0 - 10.0	57,900	25,300	23,800	17,300	--	--	--	--	--	--	--	21,100
MW-64	19.0 - 24.0	0	0	0	0	--	84	--	--	9	0	0	14
MW-65	11.0 - 16.0	0	0	1	0	51	0	--	--	9	0	0	31
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	41,100	8,160	7,920	31	7	0	--	403	--	100	3	5
MW-73	2.0 - 12.0	--	--	--	--	--	--	29,500	8,990	7,140	9,400	26,600	5,220
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	--	--	--	--	--	6,580	4,010	78	45	65,700	82,800	158
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	--	2,702	230	37	252	4,560	21
MW-78	5.0 - 20.0	--	--	--	--	--	--	17,400	3,790	2,156	2,840	17,700	1,320
MW-79	5.0 - 20.0	--	--	--	--	--	--	--	2,090	627	74,200	87,100	12,700
MW-80	5.0 - 20.0	--	--	--	--	--	--	48,000	635	457	6,220	87,600	387
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	1,449	1,318	28,200	31,600	1,530
MW-82	5.0 - 20.0	--	--	--	--	--	--	5,840	1,269	110	26,900	48,300	1,444
MW-83	5.0 - 20.0	--	--	--	--	--	--	189	120	3	458	1,297	8
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	--	--	--
MWBS-02S	5.0 - 15.0	0	6	4	0	0	0	--	1	--	0	0	0
MWBS-02I	14.5 - 15.5	0	4,740	0	59	20	0	--	84	--	0	0	--
MWBS-02D	24.5 - 25.5	0	--	--	--	--	--	--	--	--	3	--	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	694	885	--	307	1,727
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	661	1,340	--	335	599
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	75	141	--	21	46
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2000		2001				2002					
		Sep	Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	30,700	19,700	23,100	--	--	14,500
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	86,100	72,600	67,700	93,600	53,300	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	52	40	2	137	820	2
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	--	--	--	--	--	--	14,780	203	90	2,110	6,410	4

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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2003			2004				2005				2006
		Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	0	0	0	0	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	0	0	0	0	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	0	0	0	4,368	974
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	0
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	7,580	5,380	83	10	21,100	290	3,627	45	0
MW-01S	4.0 -14.0	--	--	--	--	--	--	0	--	--	--	460	--
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	99,400	124,800	263,000	149,000	172,400	22,000	427	2,050	13	94	194	945
MW-02I/I-R	22.5 - 23.5	--	--	63	14	--	--	--	62	--	--	--	0
MW-03	4.94 - 14.94	23	85	--	35	51	52	0	22	28	24	27	0
MW-04	5.1 - 15.1	0	69	--	0	0	0	0	0	0	0	0	12
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	172	382	16	0	0	0	1,449	30	6,580	1,400	2,071	190
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	10,400	27,260	42,700	354	1,320	41,800	317	66,800	65,500	34,600	45,820	42,100
MW-16I	14.0 - 19.0	--	--	0	0	--	--	--	0	--	--	--	0
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-29D	14.0 - 19.0	--	--	--	0	--	--	0	--	--	--	0	--
MW-30W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	0	0	10	0	0
MW-32W/W-R	2.0 - 10.0	--	2,290	4,832	1,189	2,048	74,400	33,300	8,413	5,171	4,400	9,200	4,565
MW-34S	2.0 - 10.0	2,141	34,600	2,827	13,000	13,900	3,364	12,370	5,068	11,700	29,200	3,820	14,600
MW-34I	18.5 - 19.5	--	--	--	4,090	--	--	--	1,348	--	--	--	0

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2003			2004				2005				2006
		Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March
MW-34D	27.5 - 28.5	--	0	0	0	--	--	--	0	--	--	--	0
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	--	8,500	720	1,950	25,000	2,780	11,300	39,300	14,000	19,300	16,100	14,600
MW-46W/W-R	2.0 - 10.0	35,800	18,800	8,800	43,400	20,800	23,100	22,500	37,100	40,200	42,400	15,760	17,110
MW-64	19.0 - 24.0	85,000	0	0	0	0	24	7,650	0	5,651	0	750	19
MW-65	11.0 - 16.0	0	0	0	0	0	0	3,852	0	0	0	0	0
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	23,800	12	1,170	1,114	6,150	39,400	70	267	45,500	57,000	4,630	4,360
MW-73	2.0 - 12.0	--	64,000	89,000	34,000	33,000	71,500	27,700	26,700	26,500	52,000	557	8,460
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	1,260	161,100	110,500	4,060	1,302	34,500	212	1,815	129,200	157,100	17,000	5,389
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	0	109	136	0	--	0	33	0	170	23	0	27
MW-78	5.0 - 20.0	11,960	30,800	42,000	11,800	18,200	13,400	8,400	15,700	21,800	8,700	3,090	5,900
MW-79	5.0 - 20.0	69,800	101,600	93,700	116,000	82,600	34,820	24,100	32,300	9,800	7,300	588	3,740
MW-80	5.0 - 20.0	33,300	88,000	126,000	118,000	96,000	81,400	66,900	132,000	197,000	301,000	38,300	44,000
MW-81	5.0 - 20.0	12,930	53,600	33,000	63,000	25,000	20,400	35,200	37,800	22,870	29,100	15,660	5,000
MW-82	5.0 - 20.0	17,910	245,000	46,000	20,280	9,160	30,300	10,400	5,340	25,300	140	58,900	44,200
MW-83	5.0 - 20.0	62	40	950	0	54	0	1,543	788	980	1,280	142	101
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	0	0	2,853	323	0	0	22	82	0	0	0
MWBS-02I	14.5 - 15.5	0	--	--	0	0	0	0	0	0	0	0	0
MWBS-02D	24.5 - 25.5	0	--	--	0	--	--	--	87	--	--	--	191
MW-UST1	2.0 - 12.0	1,033	1,110	1,911	51	2,343	2,700	240	122	660	830	1,083	117
MW-UST2	2.0 - 12.0	1,160	2,400	1,854	440	1,812	3,800	1,430	3,117	1,880	2,700	1,410	1,652
MW-UST3	2.0 - 12.0	33	79	74	145	320	0	22	247	41	12	0	0
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2003			2004				2005				2006
		Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	1,400	0	0	0	0	0	0	0	0	0	0	0
PDMW-02	5.0 - 20.0	--	68,000	74,000	115,900	117,600	82,000	83,000	90,000	60,300	37,300	100,000	19,500
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	127	73,800	92,300	0	0	0	0	0	26,900	24,900	25,500	1,600
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	5,870	9,810	23,100	33,200	11,600	615	4,400	936	5,509	249	2,702	570

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2006			2007				2008				2009
		Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-09I	30.0 - 40.0	--	--	--	0	--	0	--	0	--	--	--	0
BBMW-09D	62.0 - 72.0	--	--	--	0	--	0	--	0	--	--	--	0
BBMW-28S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	0	0	0
BBMW-28I	10.0 - 20.0	--	--	--	0	0	0	0	0	0	0	0	0
BBMW-29	2.0 - 9.0	134	0	0	0	0	0	0	0	0	0	0	0
BBMW-30S	2.0 - 10.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-30I	14.0 - 19.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-30D	30.0 - 35.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-31S	2.0 - 10.0	--	--	--	--	0	0	0	0	--	--	--	2
BBMW-31I	14.0 - 19.0	--	--	--	--	0	0	0	0	--	--	--	3
BBMW-31D	30.0 - 35.0	--	--	--	--	0	0	0	0	--	--	--	3
BBMW-32S	2.0 - 10.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-32I	14.0 - 19.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-32D	30.0 - 35.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-33	7.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0
BW-UST-10	5.0 - 10.0	--	--	0	0	0	0	0	0	0	0	0	0
BW-UST-11	5.0 - 10.0	--	--	0	0	0	0	0	1	0	0	-	0
BW-UST-28	5.0 - 10.0	--	--	--	--	0	0	0	0	0	0	0	0
BW-UST-29	5.0 - 10.0	--	--	--	--	0	0	0	0	0	0	0	0
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	0	0	101	2,300	0	0	83	0	73	0	0	0
MW-01S	4.0 -14.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-01D	35.0 - 45.0	0	0	0	0	0	0	0	0	--	--	--	0
MW-02S/S-R	2.0 - 12.0	51	0	68	346	625	1,695	248	27	1	16	47	812
MW-02I/I-R	22.5 - 23.5	--	--	--	0	0	0	0	0	0	3	0	0
MW-03	4.94 - 14.94	24	28	14	0	0	20	18	5	5	9	11	6
MW-04	5.1 - 15.1	0	0	0	0	0	0	0	0	0	0	0	0
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	61	0	933	42	110	62	97	95	77	35	8	0
MW-12W	2.0 - 10.0	--	--	--	0	0	0	0	0	0	0	0	2
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	15,000	17,900	18,600	12,250	6,050	15,870	20,770	36,270	11,710	5,840	14,280	3,275
MW-16I	14.0 - 19.0	--	--	--	0	103	0	59	84	17	0	4	0
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	0	0	0	0	0
MW-29S	5.0 - 10.0	0	0	0	0	0	0	0	0	--	--	--	0
MW-29D	14.0 - 19.0	--	--	--	0	0	0	0	0	--	--	--	0
MW-30W/W-R	2.0 - 9.0	106	130	0	0	0	0	0	0	0	1	0	0
MW-32W/W-R	2.0 - 10.0	5,950	5,100	1,502	1,060	567	1,080	9,760	2,040	57	0	29	232
MW-34S	2.0 - 10.0	25,500	9,240	5,760	85	9,750	35,100	19,800	7,750	25,870	5,638	9,100	3,636
MW-34I	18.5 - 19.5	--	--	--	0	0	5	934	35	0	0	0	0

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2006			2007				2008				2009
		Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
MW-34D	27.5 - 28.5	--	--	--	0	0	0	0	0	0	0	0	0
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	2,214	1,720	5,770	3,200	43,400	1,236	1,717	3,600	5,690	242	142	4,210
MW-46W/W-R	2.0 - 10.0	7,270	2,750	2,330	1,256	3,810	915	1,400	8,130	1,664	3,471	1,231	525
MW-64	19.0 - 24.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-65	11.0 - 16.0	0	0	0	0	0	0	0	4	0	0	7	0
MW-66S	1.5 - 11.5	--	--	--	0	0	0	0	0	0	0	0	0
MW-66D	24.0 - 29.0	--	--	--	0	0	0	0	0	0	0	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	175	277	363	31	268	351	1,577	11,590	7,750	10,910	675	1,124
MW-73	2.0 - 12.0	14,520	36,200	15,070	18,700	22,500	15,300	14,000	12,800	5,970	9,800	5,380	7,100
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	1,540	3,600	491	580	355	9,420	2,254	268	1,802	77,440	1,181	569
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	0	0	0	0	0	4	7	2	0	1	0	0
MW-78	5.0 - 20.0	4,710	18,100	4,080	2,320	3,050	2,480	2,270	54	167	449	312	2,590
MW-79	5.0 - 20.0	3,320	1,220	7,690	13,900	2,840	2,030	542	3,160	32	3,110	2,060	10,100
MW-80	5.0 - 20.0	38,700	6,170	41,100	148,000	26,100	41,000	106,000	3,220	18,700	52,300	90,400	55,200
MW-81	5.0 - 20.0	9,510	3,499	16,900	65,800	16,100	36,300	61,800	8,690	1,080	18,840	5,020	257
MW-82	5.0 - 20.0	30,000	43,400	21,800	7,144	14,460	4,338	17,989	1,164	2,254	6,942	19,071	6,151
MW-83	5.0 - 20.0	0	5,042	161	41	2,320	6,761	39	36	0	687	2,145	0
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	0	0	0	0	0	8	0	0	0	0	98
MWBS-02I	14.5 - 15.5	0	0	0	0	0	0	0	0	0	17	0	0
MWBS-02D	24.5 - 25.5	--	--	--	0	0	0	0	17	0	0	0	0
MW-UST1	2.0 - 12.0	1,270	2,400	944	950	1,250	796	470	--	--	--	--	--
MW-UST2	2.0 - 12.0	1,925	3,011	1,250	960	1,260	1,173	1,686	--	--	--	--	--
MW-UST3	2.0 - 12.0	19	0	0	14	0	6	4	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2006			2007				2008				2009
		Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	0	0	0	0	0	0	70,920	0	0	0	0	0
PDMW-02	5.0 - 20.0	85,100	67,500	98,000	62,700	79,700	68,020	84,400	70,570	65,260	51,400	73,810	59,210
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	45,561	27,913	14,511
SV-02	2.0 - 12.0	32	27,400	42	0	0	26,000	0	0	0	0	0	26
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	257	831	116	65	207	185	341	105	477	60	56	29

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2009			2010				2011				2012
		Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	--	--	--	0
BBMW-09I	30.0 - 40.0	--	--	--	0	--	--	--	0	--	--	--	0
BBMW-09D	62.0 - 72.0	--	--	--	0	--	--	--	0	--	--	--	0
BBMW-28S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	--	0	0
BBMW-28I	10.0 - 20.0	0	0	0	0	10	0	0	0	0	--	0	0
BBMW-29	2.0 - 9.0	0	0	0	0	0	0	0	0	1	0	0	0
BBMW-30S	2.0 - 10.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-30I	14.0 - 19.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-30D	30.0 - 35.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-31S	2.0 - 10.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-31I	14.0 - 19.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-31D	30.0 - 35.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-32S	2.0 - 10.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-32I	14.0 - 19.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-32D	30.0 - 35.0	--	--	0	0	0	2	0	0	0	0	0	0
BBMW-33	7.0 - 12.0	0	0	0	0	0	0	0	0	0	--	0	0
BW-UST-10	5.0 - 10.0	0	0	0	0	0	0	0	0	--	--	--	0
BW-UST-11	5.0 - 10.0	0	0	0	0	0	0	0	0	--	--	--	0
BW-UST-28	5.0 - 10.0	0	0	0	0	0	0	0	0	--	--	--	0
BW-UST-29	5.0 - 10.0	0	0	0	0	0	0	0	0	--	--	--	0
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	0	0	0	0	0	1,275	82	17,660	11,855	13,120	9,050	4,578
MW-01S	4.0 -14.0	0	0	0	0	0	0	0	0	--	--	--	0
MW-01D	35.0 - 45.0	0	0	--	0	--	--	--	0	--	--	--	0
MW-02S/S-R	2.0 - 12.0	64	--	--	--	--	--	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	0	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	14	16	18	14	14	12	3	3	--	--	--	0
MW-04	5.1 - 15.1	0	0	0	0	0	0	0	0	--	--	--	0
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	0
MW-11W	2.0 - 10.0	0	27	0	0	0	0	0	0	10	33	52	13
MW-12W	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	4
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	0	0	--	0
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	4,192	--	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	0	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	0
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	0	--	--	0	--	--	--	0
MW-29D	14.0 - 19.0	0	0	0	0	0	--	--	0	--	--	--	0
MW-30W/W-R	2.0 - 9.0	0	0	0	0	0	3	0	0	0	0	0	30
MW-32W/W-R	2.0 - 10.0	91	277	2	120	0	0	0	0	62	1,548	795	8
MW-34S	2.0 - 10.0	2,310	57	2	16	80	4,080	1,666	179	225	11,830	5,930	4,310
MW-34I	18.5 - 19.5	0	0	0	0	0	222	0	1,240	4,970	6,421	7,177	11,070

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2009			2010				2011				2012
		Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
MW-34D	27.5 - 28.5	0	0	0	0	0	0	0	0	0	1,773	2,357	236
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	0
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	0	0	0	0
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	0	0	0	0
MW-45W	2.0 - 10.0	15,700	1,737	15	323	1,075	1	0	14	0	0	0	36
MW-46W/W-R	2.0 - 10.0	1,510	811	559	431	1,135	954	549	2,335	1,835	1,152	184	270
MW-64	19.0 - 24.0	0	0	0	0	0	2,270	13,530	18,020	23,140	21,050	3,698	5,704
MW-65	11.0 - 16.0	0	0	0	0	0	0	5	0	0	0	5,639	2,324
MW-66S	1.5 - 11.5	0	0	0	0	0	0	0	0	0	0	0	0
MW-66D	24.0 - 29.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	0
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	0
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	621	410	57	169	353	754	1,546	1,107	9,700	7,580	4,096	5,120
MW-73	2.0 - 12.0	62,600	45,100	7,400	8,970	12,000	612	258	863	3,560	1,225	2,276	581
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	8,350	1,760	1,200
MW-75	2.0 - 12.0	7,290	68,310	935	1,375	608	50,410	4,707	5	7	12,710	468	32
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	3,370	5,821	20,409
MW-76	2.0 - 12.0	0	0	0	0	2	0	0	1	0	0	112	0
MW-78	5.0 - 20.0	2,140	3,370	599	650	--	4,890	4,650	210	1,380	583	3,010	4,390
MW-79	5.0 - 20.0	189	893	6,780	1,020	4,290	274	23,000	1,200	1,310	9,750	2,280	9,580
MW-80	5.0 - 20.0	34,500	8,750	20,100	3,750	11,260	20,090	10,780	2,820	2,330	11,320	2,470	5,270
MW-81	5.0 - 20.0	152	607	25,120	6,120	7,730	24,400	5,700	1,187	2,298	3,050	3,240	2,225
MW-82	5.0 - 20.0	403	1,822	4,140	4,260	18,100	1,890	5,410	655	55	1,743	508	1,487
MW-83	5.0 - 20.0	0	66	0	0	4	10	2,387	11	16	155	2,339	1,992
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	268	103	939	56	115	3	0	11	4	120	177
MWBS-02I	14.5 - 15.5	3	30	14	4	107	83	0	2	4	1	34	43
MWBS-02D	24.5 - 25.5	0	0	0	1	0	0	0	1	0	0	0	0
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	0	0	0	0	0	0	0	0	0	0	43
OU3MW-02S	3.0 - 13.0	--	0	0	5	0	0	0	0	0	0	0	0
OU3MW-02I	15.0 - 20.0	--	0	0	0	0	0	0	0	3	0	0	0
OU3MW-03S	1.0 - 11.0	--	58	0	0	15	0	0	542	224	698	8,690	665
OU3MW-03I	20.0 - 25.0	--	0	0	4	132	0	0	2,463	1,480	5,630	769	138
OU3MW-04S	1.0 - 11.0	--	37	114	0	0	7	0	21	2	0	18	0
OU3MW-04I	16.0 - 21.0	--	187	0	0	336	208	0	0	108	541	115	0
OU3MW-04D	26.0 - 31.0	--	0	0	0	0	0	0	0	0	152	15,384	2,837
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	11
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-05S	2.0 - 12.0	--	--	0	0	0	0	0	0	0	0	0	0
OU3MW-05I	15.0 - 20.0	--	--	0	0	0	0	0	246	75	0	0	0
OU3MW-06	3.0 - 13.0	--	0	0	0	0	7	0	0	11	0	0	32
OU3MW-07S	3.0 - 13.0	--	--	--	3,461	39	8	251	179	108	0	0	0

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2009			2010				2011				2012
		Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
OU3MW-07I	15.0 - 20.0	--	--	--	0	0	0	0	4,040	326	61	38	0
OU3MW-07I2	20.0 - 25.0	--	--	--	0	0	0	0	3,267	10,427	3,520	1,416	7,366
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	12,187
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	5,200	5,730	4,530	4,940	1,970	2,330
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-09S	2.0 - 12.0	--	--	--	--	--	--	2,002	407	365	287	79	37
OU3MW-09I	25.0 - 30.0	--	--	--	--	--	--	38,700	31,840	20,390	22,230	23,690	5,920
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	4	46	27
OU3MW-10S	2.0 - 12.0	--	--	--	--	--	--	4,614	3,084	958	492	251	113
OU3MW-10I	25.0 - 30.0	--	--	--	--	--	--	8	0	0	1	63	201
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	0	0	0	0	0	8
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	1	0	0	0	0	0
OU3MW-12S	2.0 - 12.0	--	--	--	--	--	--	0	0	0	0	0	5
OU3MW-12I	25.0 - 30.0	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-13S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	1,490	2,730	21,000
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	34,200	31,100	23,600
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	2,598	1,444	204
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	43	898	769
PDMW-01	5.0 - 20.0	0	--	0	0	0	0	0	0	18	0	0	2
PDMW-02	5.0 - 20.0	46,350	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	27,515	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	1	34,300	4	0	212	32,000	27	0	0	17	20	114
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	12,120	1,562	1,035
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	0	0	2
SV-03	2.0 - 12.0	10	5	8	0	0	5	144	3	7	10	3	73

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
BBMW-09S	5.0 - 15.0	0	85	3	0	85
BBMW-09I	30.0 - 40.0	0	0	0	0	0
BBMW-09D	62.0 - 72.0	0	15	2	0	15
BBMW-28S	2.0 - 12.0	0	0	0	0	0
BBMW-28I	10.0 - 20.0	0	10	0	0	10
BBMW-29	2.0 - 9.0	0	4,368	196	0	4,368
BBMW-30S	2.0 - 10.0	0	0	0	0	0
BBMW-30I	14.0 - 19.0	0	0	0	0	0
BBMW-30D	30.0 - 35.0	0	0	0	0	0
BBMW-31S	2.0 - 10.0	0	2	0	0	2
BBMW-31I	14.0 - 19.0	0	3	0	0	3
BBMW-31D	30.0 - 35.0	0	3	0	0	3
BBMW-32S	2.0 - 10.0	0	0	0	0	0
BBMW-32I	14.0 - 19.0	0	0	0	0	0
BBMW-32D	30.0 - 35.0	0	2	0	0	2
BBMW-33	7.0 - 12.0	0	0	0	0	0
BW-UST-10	5.0 - 10.0	0	0	0	0	0
BW-UST-11	5.0 - 10.0	0	1	0	0	1
BW-UST-28	5.0 - 10.0	0	0	0	0	0
BW-UST-29	5.0 - 10.0	0	0	0	0	0
GM-02AS	8.91 - 23.91	0	0	0	0	0
GM-02AI	35.24 - 50.24	0	0	0	0	0
GM-02AD	59.8 - 74.8	0	0	0	0	0
IO-10	6.0 - 16.0	0	21,100	2,929	0	21,100
MW-01S	4.0 -14.0	0	460	18	0	460
MW-01D	35.0 - 45.0	0	0	0	0	0
MW-02S/S-R	2.0 - 12.0	0	295,000	77,916	0	295,000
MW-02I/I-R	22.5 - 23.5	0	238,900	10,281	0	238,900
MW-03	4.94 - 14.94	0	178	23	0	178
MW-04	5.1 - 15.1	0	69	3	0	69
MW-08W	5.0 - 10.0	--	--	--	0	0
MW-11W	2.0 - 10.0	0	6,910	870	0	6,910
MW-12W	2.0 - 10.0	0	2	0	0	4
MW-13W	2.0 - 10.0	0	0	0	0	0
MW-16W	2.0 - 10.0	55	55	55	55	55
MW-16SR	2.0 - 10.0	317	122,600	30,530	317	122,600
MW-16I	14.0 - 19.0	0	103	17	0	103
MW-17W	2.0 - 10.0	0	0	0	0	0
MW-24D	14.0 - 19.0	0	0	0	0	0
MW-26D	14.0 - 19.0	0	0	0	0	0
MW-29S	5.0 - 10.0	0	10	0	0	10
MW-29D	14.0 - 19.0	0	8	0	0	8
MW-30W/W-R	2.0 - 9.0	0	27,200	1,206	0	27,200
MW-32W/W-R	2.0 - 10.0	0	74,400	7,025	0	74,400
MW-34S	2.0 - 10.0	2	49,500	11,036	2	49,500
MW-34I	18.5 - 19.5	0	25,600	1,640	0	25,600

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
MW-34D	27.5 - 28.5	0	16,200	568	0	16,200
MW-34DD	27.5 - 28.5	0	61	31	0	61
MW-37W	2.0 - 10.0	0	0	0	0	0
MW-39W	2.0 - 10.0	0	0	0	0	0
MW-45W	2.0 - 10.0	0	53,700	7,008	0	53,700
MW-46W/W-R	2.0 - 10.0	184	57,900	13,745	184	57,900
MW-64	19.0 - 24.0	0	85,000	3,480	0	85,000
MW-65	11.0 - 16.0	0	5,639	197	0	5,639
MW-66S	1.5 - 11.5	0	0	0	0	0
MW-66D	24.0 - 29.0	0	0	0	0	0
MW-67S	2.5 - 12.5	0	0	0	0	0
MW-67D	24 - 29 ft	0	0	0	0	0
MW-68D	25.0 - 30.0	0	172	25	0	172
MW-70/70S	2.0 - 12.0	0	57,000	6,726	0	57,000
MW-73	2.0 - 12.0	258	89,000	21,062	258	89,000
MW-73I	22.0 - 27.0	1,760	8,350	5,055	1,200	8,350
MW-75	2.0 - 12.0	5	161,100	24,503	5	161,100
MW-75I	22.0 - 27.0	3,370	5,821	4,596	3,370	20,409
MW-76	2.0 - 12.0	0	4,560	211	0	4,560
MW-78	5.0 - 20.0	54	42,000	7,476	54	42,000
MW-79	5.0 - 20.0	32	116,000	21,351	32	116,000
MW-80	5.0 - 20.0	387	301,000	54,153	387	301,000
MW-81	5.0 - 20.0	152	65,800	18,526	152	65,800
MW-82	5.0 - 20.0	55	245,000	19,768	55	245,000
MW-83	5.0 - 20.0	0	6,761	737	0	6,761
MWBS-01S	5.0 - 15.0	0	151	51	0	151
MWBS-02S	5.0 - 15.0	0	5,510	221	0	5,510
MWBS-02I	14.5 - 15.5	0	9,998	324	0	9,998
MWBS-02D	24.5 - 25.5	0	17,530	583	0	17,530
MW-UST1	2.0 - 12.0	51	2,700	1,039	51	2,700
MW-UST2	2.0 - 12.0	335	3,800	1,646	335	3,800
MW-UST3	2.0 - 12.0	0	320	56	0	320
OU3MW-01S	3.0 - 13.0	0	0	0	0	43
OU3MW-02S	3.0 - 13.0	0	5	1	0	5
OU3MW-02I	15.0 - 20.0	0	3	0	0	3
OU3MW-03S	1.0 - 11.0	0	8,690	1,023	0	8,690
OU3MW-03I	20.0 - 25.0	0	5,630	1,048	0	5,630
OU3MW-04S	1.0 - 11.0	0	114	20	0	114
OU3MW-04I	16.0 - 21.0	0	541	150	0	541
OU3MW-04D	26.0 - 31.0	0	15,384	1,554	0	15,384
OU3MW-04D2	31.0 - 36.0	--	--	--	11	11
OU3MW-04D3	41.0 - 46.0	--	--	--	0	0
OU3MW-05S	2.0 - 12.0	0	0	0	0	0
OU3MW-05I	15.0 - 20.0	0	246	36	0	246
OU3MW-06	3.0 - 13.0	0	11	2	0	32
OU3MW-07S	3.0 - 13.0	0	3,461	506	0	3,461

Table 4-16
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
OU3MW-07I	15.0 - 20.0	0	4,040	558	0	4,040
OU3MW-07I2	20.0 - 25.0	0	10,427	2,329	0	10,427
OU3MW-07I3	25.0 - 30.0	--	--	--	12,187	12,187
OU3MW-07I4	35.0 - 40.0	--	--	--	0	0
OU3MW-08S	2.0 - 12.0	1,970	5,730	4,474	1,970	5,730
OU3MW-08I	25.0 - 30.0	0	0	0	0	0
OU3MW-09S	2.0 - 12.0	79	2,002	628	37	2,002
OU3MW-09I	25.0 - 30.0	20,390	38,700	27,370	5,920	38,700
OU3MW-09I2	35.0 - 40.0	4	46	25	4	46
OU3MW-10S	2.0 - 12.0	251	4,614	1,880	113	4,614
OU3MW-10I	25.0 - 30.0	0	63	14	0	201
OU3MW-11S	2.0 - 12.0	0	0	0	0	8
OU3MW-11I	25.0 - 30.0	0	1	0	0	1
OU3MW-12S	2.0 - 12.0	0	0	0	0	5
OU3MW-12I	25.0 - 30.0	0	0	0	0	0
OU3MW-13S	2.0 - 12.0	1,490	2,730	2,110	1,490	21,000
OU3MW-14S	2.0 - 12.0	31,100	34,200	32,650	23,600	34,200
OU3MW-15S	2.0 - 12.0	1,444	2,598	2,021	204	2,598
OU3MW-16S	2.0 - 12.0	43	898	471	43	898
PDMW-01	5.0 - 20.0	0	70,920	4,219	0	70,920
PDMW-02	5.0 - 20.0	19,500	117,600	73,549	19,500	117,600
PDMW-03	5.0 - 15.0	14,511	45,561	28,875	14,511	45,561
SV-02	2.0 - 12.0	0	92,300	8,933	0	92,300
SV-02I	22.0 - 27.0	1,562	12,120	6,841	1,035	12,120
SV-02I2	35.0 - 40.0	0	0	0	0	2
SV-03	2.0 - 12.0	0	33,200	3,051	0	33,200

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1997		1998			1999				2000	
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	0	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	0	--	--	--	--	--	--	--	0	0	--	--
GM-02AI	35.24 - 50.24	0	--	--	--	--	--	--	--	0	0	--	--
GM-02AD	59.8 - 74.8	0	--	--	--	--	--	--	--	0	0	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	0	0	--	0	--	--	--	--	--	0	--	--
MW-01D	35.0 - 45.0	0	--	--	1	--	--	--	--	--	0	--	--
MW-02S/S-R	2.0 - 12.0	4,300	1,941	6,181	9,700	21,640	21,257	1,694	2,238	1,919	1,618	1,530	1,787
MW-02I/I-R	22.5 - 23.5	--	--	6,478	99	12	11	10	1	0	0	0	53
MW-03	4.94 - 14.94	--	40	--	0	--	--	--	--	--	77	--	--
MW-04	5.1 - 15.1	--	4	--	99	--	--	--	--	--	0	--	--
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	--	--	--	--	861	222	142	298	469	62	290	389
MW-12W	2.0 - 10.0	--	0	--	--	0	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	3	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	--	--	--	15,910	10,500	2,468	696	2,447	2,307	450	1,910	1,173
MW-16I	14.0 - 19.0	--	--	--	18	0	0	3	0	0	7	0	0
MW-17W	2.0 - 10.0	--	11	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	1	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	--	--	--	--	--	0	0	--	0	516	0	0
MW-29D	14.0 - 19.0	--	--	--	0	--	0	0	0	0	0	0	0
MW-30W/W-R	2.0 - 10.0	--	753	--	--	--	--	--	--	--	--	--	--
MW-32W/W-R	2.0 - 10.0	--	322	--	--	730	1,435	810	368	--	--	--	--
MW-34S	2.0 - 10.0	--	333	1,002	--	1,035	1,604	341	1,355	1,157	502	611	381
MW-34I	18.5 - 19.5	--	--	103	--	0	0	2	8	0	0	0	203

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1997		1998			1999				2000	
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May
MW-34D	27.5 - 28.5	--	--	10	--	0	0	0	2	0	0	0	0
MW-34DD	27.5 - 28.5	--	--	--	--	0	--	--	0	--	--	--	--
MW-37W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	--	170	--	330	--	--	--	--	--	--	--	--
MW-46W/W-R	2.0 - 10.0	--	1,482	--	4,156	--	--	--	--	--	--	--	--
MW-64	19.0 - 24.0	--	--	--	1	0	0	12	3	0	14	0	13
MW-65	11.0 - 16.0	--	--	--	17	--	--	--	--	3	--	9	34
MW-66S	1.5 - 11.5	--	--	--	0	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	2	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	0	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	0	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	1	0	0	3	0	0	0	--	--
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-73	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-73I	22.0-27.0												
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-78	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-79	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-80	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-83	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-01S	5.0 - 15.0	--	2	--	--	--	--	--	--	--	64	--	--
MWBS-02S	5.0 - 15.0	--	167	24	0	--	262	36	5	79	245	274	81
MWBS-02I	14.5 - 15.5	--	--	27	485	696	0	640	8	0	0	11	258
MWBS-02D	24.5 - 25.5	--	--	1	47	--	254	0	0	0	237	0	0
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1997		1998			1999				2000	
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0-40.0												
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2000		2001				2002					
		Sep	Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	99	--	99	53
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	1,681	1,620	--	--	--	--	1,595	1,583	1,367	10,830	6,440	2,542
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	--	--	--	--	--	--	--	103	85	--	89	50
MW-04	5.1 - 15.1	--	--	--	--	--	--	--	--	90	--	99	--
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	--	178	265	363	159	156	--	246	--	225	145	22
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	3,096	1,036	--	--	77	38,045	6,557	3,414	1,558	2,430	6,140	214
MW-16I	14.0 - 19.0	0	--	--	--	--	--	--	--	--	0	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	2	0	0	0	0	0	--	--	--	0	0	0
MW-29D	14.0 - 19.0	2	--	--	--	--	--	--	--	--	0	--	--
MW-30W/W-R	2.0 - 10.0	--	1,300	228	229	4	125	--	55	--	0	8	2
MW-32W/W-R	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-34S	2.0 - 10.0	--	518	130	0	30	1	--	0	--	85	0	22
MW-34I	18.5 - 19.5	0	--	--	--	--	--	--	--	--	22	--	--

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2000		2001				2002					
		Sep	Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec
MW-34D	27.5 - 28.5	2	--	--	--	--	--	--	--	--	0	--	--
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	781	10	1,676	11	0	6	--	--	52	2	64	0
MW-46W/W-R	2.0 - 10.0	2,141	228	0	21	--	--	--	--	--	--	--	380
MW-64	19.0 - 24.0	97	0	14	2	--	50	--	--	0	1	9	0
MW-65	11.0 - 16.0	8	13	34	4	--	228	--	--	0	0	0	38
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	1,720	84	2	1	0	4	--	7	--	4	3	0
MW-73	2.0 - 12.0	--	--	--	--	--	--	1,471	223	213	738	1,336	280
MW-73I	22.0-27.0												
MW-75	2.0 - 12.0	--	--	--	--	--	73	153	93	100	2,553	2,863	58
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	--	142	105	101	116	115	58
MW-78	5.0 - 20.0	--	--	--	--	--	--	1,439	371	278	161	735	66
MW-79	5.0 - 20.0	--	--	--	--	--	--	--	120	106	6,015	2,911	234
MW-80	5.0 - 20.0	--	--	--	--	--	--	1,511	88	2,316	152	1,426	53
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	118	129	2,345	1,382	101
MW-82	5.0 - 20.0	--	--	--	--	--	--	245	138	83	2,784	3,090	49
MW-83	5.0 - 20.0	--	--	--	--	--	--	116	98	108	108	180	180
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	--	--	--
MWBS-02S	5.0 - 15.0	115	105	242	39	2	84	--	164	--	0	0	0
MWBS-02I	14.5 - 15.5	3	261	576	513	122	3	--	4	--	2	8	0
MWBS-02D	24.5 - 25.5	0	--	--	--	--	--	--	--	--	0	--	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	247	216	--	112	979
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	263	330	--	101	53
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	92	134	--	105	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2000		2001				2002					
		Sep	Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0-40.0												
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	1,538	1,432	1,431	--	--	2,188
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	1,929	2,181	1,933	5,848	3,250	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	95	112	99	99	186	103
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	--	--	--	--	--	--	332	95	108	297	279	49

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2003			2004				2005				2006
		Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	0	0	68	0	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	0	0	0	0	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	0	0	0	170	120
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	0
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	786	625	0	0	937	91	350	0	0
MW-01S	4.0 -14.0	--	--	--	--	--	--	0	--	--	--	0	--
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	1,800	1,300	1,500	2,400	2060	254	0	14	0	0	0	0
MW-02I/I-R	22.5 - 23.5	--	--	0	0	--	--	--	0	--	--	--	0
MW-03	4.94 - 14.94	0	45	--	26	19	43	19	21	34	40	57	0
MW-04	5.1 - 15.1	0	53	--	0	0	0	0	0	0	0	0	0
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	21	35	11	0	1729	0	110	0	10	0	27	15
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	72	590	649	0	0	1,022	2,068	3,500	3,900	3,611	1,280	2,183
MW-16I	14.0 - 19.0	--	--	0	0	--	--	--	57	--	--	--	0
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-29D	14.0 - 19.0	--	--	--	0	--	--	0	--	--	--	0	--
MW-30W/W-R	2.0 - 10.0	--	--	--	--	--	--	--	0	0	0	0	0
MW-32W/W-R	2.0 - 10.0	--	11	130	0	0	370	877	55	59	0	180	110
MW-34S	2.0 - 10.0	27	130	30	160	130	49	210	212	52	67	110	461
MW-34I	18.5 - 19.5	--	--	--	496	--	--	--	290	--	--	--	0

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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2003			2004				2005				2006
		Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March
MW-34D	27.5 - 28.5	--	0	96	0	--	--	--	0	--	--	--	0
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	--	49	38	170	699	65	341	723	180	424	561	895
MW-46W/W-R	2.0 - 10.0	690	264	160	647	150	589	443	1,048	972	1,200	1,045	544
MW-64	19.0 - 24.0	1,600	0	0	0	0	0	120	0	318	0	0	0
MW-65	11.0 - 16.0	0	65	0	37	0	0	502	0	0	0	0	0
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	200	18	32	18	46	260	0	0	170	556	57	91
MW-73	2.0 - 12.0	--	940	1,557	843	1,470	1,500	1,030	956	829	1,290	1,800	575
MW-73I	22.0-27.0												
MW-75	2.0 - 12.0	0	1,700	1,490	60	0	387	0	22	1,350	2,890	384	100
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	15	120	0	0	0	0	47	0	0	0	14
MW-78	5.0 - 20.0	550	692	958	585	707	85	22	463	1,160	493	0	445
MW-79	5.0 - 20.0	2,000	1,100	1,380	2,000	0	1,200	661	1,400	790	522	104	281
MW-80	5.0 - 20.0	1,100	1,178	1,700	2,500	1,600	1,390	1,370	2,400	2,200	2,300	1,080	1,200
MW-81	5.0 - 20.0	780	2,100	1,611	1,714	696	1,112	1,100	1,700	100	1,210	434	487
MW-82	5.0 - 20.0	390	570	810	733	276	19	995	233	358	488	1,571	1,140
MW-83	5.0 - 20.0	0	14	29	0	0	0	76	140	0	150	25	0
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	18	24	160	75	25	0	150	41	0	0	0
MWBS-02I	14.5 - 15.5	0	--	--	0	0	0	0	0	0	0	0	0
MWBS-02D	24.5 - 25.5	0	--	--	64	--	--	--	0	--	--	--	16
MW-UST1	2.0 - 12.0	230	96	344	0	221	520	52	55	260	392	373	140
MW-UST2	2.0 - 12.0	140	357	227	0	297	500	353	621	373	361	208	265
MW-UST3	2.0 - 12.0	0	14	25	33	0	0	16	26	0	0	0	0
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2003			2004				2005				2006
		Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0-40.0												
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	13,000	0	0	0	0	0	71	0	0	0	0	0
PDMW-02	5.0 - 20.0	--	1,130	1,714	2,300	2,463	1,918	2,316	2,616	2,312	2,716	2,416	2,013
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	0	430	515	0	0	0	0	0	39	190	324	0
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	190	280	548	536	272	150	130	80	33	0	0	96

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2006			2007				2008				2009
		Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-09I	30.0 - 40.0	--	--	--	150	--	0	--	0	--	--	--	0
BBMW-09D	62.0 - 72.0	--	--	--	0	--	0	--	0	--	--	--	0
BBMW-28S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	3	0	0
BBMW-28I	10.0 - 20.0	--	--	--	0	0	0	0	0	0	0	0	0
BBMW-29	2.0 - 9.0	37	0	0	0	252	0	0	0	0	5	0	0
BBMW-30S	2.0 - 10.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-30I	14.0 - 19.0	--	--	--	--	0	4	0	0	--	--	--	0
BBMW-30D	30.0 - 35.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-31S	2.0 - 10.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-31I	14.0 - 19.0	--	--	--	--	0	4	0	0	--	--	--	0
BBMW-31D	30.0 - 35.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-32S	2.0 - 10.0	--	--	--	--	0	1	1	0	--	--	--	0
BBMW-32I	14.0 - 19.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-32D	30.0 - 35.0	--	--	--	--	0	0	0	0	--	--	--	0
BBMW-33	7.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0
BW-UST-10	5.0 - 10.0	--	--	0	0	0	69	0	0	0	0	0	0
BW-UST-11	5.0 - 10.0	--	--	0	0	0	68	0	2	1	0	0	0
BW-UST-28	5.0 - 10.0	--	--	--	--	0	0	0	0	0	0	0	0
BW-UST-29	5.0 - 10.0	--	--	--	--	0	0	0	0	0	3	0	0
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	0	0	0	100	0	0	18	0	4	0	0	0
MW-01S	4.0 -14.0	0	0	0	0	0	0	0	0	0	0	0	1
MW-01D	35.0 - 45.0	0	263	0	0	0	0	0	0	--	--	--	0
MW-02S/S-R	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-02I/I-R	22.5 - 23.5	--	--	--	0	0	0	0	0	0	0	0	0
MW-03	4.94 - 14.94	28	35	34	35	11	56	0	12	0	0	28	0
MW-04	5.1 - 15.1	0	0	0	0	0	1	0	0	0	0	0	0
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	18	0	19	0	0	5	1	2	0	0	0	0
MW-12W	2.0 - 10.0	--	--	--	0	0	0	0	0	0	3	0	0
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	1,870	1,056	676	842	232	280	579	922	355	552	104	28
MW-16I	14.0 - 19.0	--	--	--	0	44	0	0	0	0	0	0	0
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	3	0	0	0	0
MW-29S	5.0 - 10.0	0	0	0	0	0	0	0	0	--	--	--	0
MW-29D	14.0 - 19.0	--	--	--	0	0	0	0	0	--	--	--	0
MW-30W/W-R	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-32W/W-R	2.0 - 10.0	89	98	100	97	45	47	105	123	38	12	0	3
MW-34S	2.0 - 10.0	397	210	140	150	68	110	402	81	186	51	42	83
MW-34I	18.5 - 19.5	--	--	--	0	0	0	124	12	0	0	0	0

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2006			2007				2008				2009
		Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
MW-34D	27.5 - 28.5	--	--	--	0	0	0	6	0	0	0	0	0
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	74	40	233	0	0	10	9	0	0	0	0	10
MW-46W/W-R	2.0 - 10.0	50	233	192	37	71	47	74	102	24	0	39	39
MW-64	19.0 - 24.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-65	11.0 - 16.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-66S	1.5 - 11.5	--	--	--	0	0	0	1	0	0	0	0	0
MW-66D	24.0 - 29.0	--	--	--	0	0	0	0	0	0	0	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	0
MW-70/70S	2.0 - 12.0	0	11	13	0	0	10	13	39	25	96	22	14
MW-73	2.0 - 12.0	669	1,100	545	497	345	495	1,189	444	105	1	0	97
MW-73I	22.0-27.0												
MW-75	2.0 - 12.0	56	55	0	0	0	180	47	0	0	1,024	0	1
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-78	5.0 - 20.0	493	616	0	0	46	40	31	0	0	0	0	0
MW-79	5.0 - 20.0	103	41	0	140	0	0	0	90	1	6	0	13
MW-80	5.0 - 20.0	694	258	1,480	831	601	884	1,173	277	509	790	701	522
MW-81	5.0 - 20.0	274	2,700	807	1,068	448	1,130	1,508	480	0	50	4	19
MW-82	5.0 - 20.0	837	1,137	150	234	286	127	306	0	1	0	448	0
MW-83	5.0 - 20.0	0	230	0	0	0	0	2	0	0	1	0	0
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	0	0	0	0	0	0	0	7	0	0	3
MWBS-02I	14.5 - 15.5	0	0	0	10	0	0	0	0	0	0	0	0
MWBS-02D	24.5 - 25.5	--	--	--	22	0	0	0	0	0	0	0	0
MW-UST1	2.0 - 12.0	520	541	260	358	363	239	140	--	--	--	--	--
MW-UST2	2.0 - 12.0	457	227	120	155	59	450	550	--	--	--	--	--
MW-UST3	2.0 - 12.0	12	0	0	0	0	0	0	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
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Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2006			2007				2008				2009
		Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0-40.0												
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	0	0	0	0	0	0	1,464	0	0	2	0	0
PDMW-02	5.0 - 20.0	2,420	2,119	3,022	2,716	2,520	1,241	1,976	3,025	2,226	1,934	1,950	2,797
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	1,721	1,619	2,100
SV-02	2.0 - 12.0	0	35	0	0	0	133	0	0	3	0	0	0
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	57	0	0	17	0	31	72	17	0	0	0	0

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
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Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2009			2010				2011				2012
		Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	1	--	--	--	0
BBMW-09I	30.0 - 40.0	--	--	--	0	--	--	--	0	--	--	--	0
BBMW-09D	62.0 - 72.0	--	--	--	0	--	--	--	0	--	--	--	0
BBMW-28S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	--	0	0
BBMW-28I	10.0 - 20.0	0	0	0	0	0	0	0	0	7	--	0	0
BBMW-29	2.0 - 9.0	0	0	0	0	0	0	0	0	0	2	0	0
BBMW-30S	2.0 - 10.0	--	--	0	0	0	0	0	0	0	0	0	4
BBMW-30I	14.0 - 19.0	--	--	3	0	0	0	0	0	0	0	0	0
BBMW-30D	30.0 - 35.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-31S	2.0 - 10.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-31I	14.0 - 19.0	--	--	0	2	0	12	0	0	0	0	0	0
BBMW-31D	30.0 - 35.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-32S	2.0 - 10.0	--	--	3	0	0	0	1	0	0	0	0	0
BBMW-32I	14.0 - 19.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-32D	30.0 - 35.0	--	--	0	0	0	0	0	0	0	0	0	0
BBMW-33	7.0 - 12.0	0	0	0	0	0	0	0	0	0	--	0	0
BW-UST-10	5.0 - 10.0	0	0	0	0	0	0	0	0	--	--	--	0
BW-UST-11	5.0 - 10.0	0	0	0	0	0	0	0	0	--	--	--	16
BW-UST-28	5.0 - 10.0	0	0	0	0	0	0	0	0	--	--	--	0
BW-UST-29	5.0 - 10.0	0	0	0	0	0	0	0	0	--	--	--	0
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	0	0	0	0	0	102	0	992	1,285	682	689	704
MW-01S	4.0 -14.0	0	0	0	0	0	0	0	0	--	--	--	0
MW-01D	35.0 - 45.0	0	0		0	--	--	--	0	--	--	--	0
MW-02S/S-R	2.0 - 12.0	0	--	--	--	--	--	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	0	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	0	82	16	0	62	0	0	3	--	--	--	6
MW-04	5.1 - 15.1	0	0	0	0	0	0	0	0	--	--	--	0
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	0
MW-11W	2.0 - 10.0	0	0	1	0	0	0	0	0	0	0	1	2
MW-12W	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	0	0		0
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	143	--	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	0	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	0
MW-26D	14.0 - 19.0	0	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	0	--	--	0	--	--	--	0
MW-29D	14.0 - 19.0	0	0	0	0	0	--	--	0	--	--	--	0
MW-30W/W-R	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-32W/W-R	2.0 - 10.0	6	4	4	0	0	0	0	0	0	29	39	14
MW-34S	2.0 - 10.0	105	17	0	15	14	49	702	112	78	229	179	284
MW-34I	18.5 - 19.5	0	0	0	0	0	247	0	150	234	832	598	869

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2009			2010				2011				2012
		Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
MW-34D	27.5 - 28.5	0	0	0	0	0	0	0	0	0	306	290	40
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	0
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	0	0	0	0
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	0	0	0	0
MW-45W	2.0 - 10.0	153	60	0	2	0	1	0	0	0	0	0	0
MW-46W/W-R	2.0 - 10.0	60	31	10	19	3	173	168	195	103	92	51	27
MW-64	19.0 - 24.0	9	3	0	0	0	284	806	1,067	995	1,183	516	500
MW-65	11.0 - 16.0	0	0	0	0	0	0	0	0	0	0	1,415	1,268
MW-66S	1.5 - 11.5	0	0	0	0	0	0	0	0	0	0	0	0
MW-66D	24.0 - 29.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	0
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	0
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	8	13	0	25	2	102	179	182	222	319	257	295
MW-73	2.0 - 12.0	1,308	1,295	480	588	1,169	234	19	37	190	175	171	16
MW-73I	22.0-27.0								--	--	698	131	96
MW-75	2.0 - 12.0	101	1,667	30	38	0	2,178	435	0	0	765	10	0
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	656	656	3,289
MW-76	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-78	5.0 - 20.0	191	0	0	0	--	0	36	58	0	37	155	264
MW-79	5.0 - 20.0	0	0	3	0	0	0	675	32	0	623	6	443
MW-80	5.0 - 20.0	568	79	467	11	321	841	677	215	0	640	14	79
MW-81	5.0 - 20.0	0	0	1,306	59	697	547	236	86	0	463	5	126
MW-82	5.0 - 20.0	0	2	72	0	48	33	209	50	0	326	182	522
MW-83	5.0 - 20.0	0	0	0	0	0	0	0	11	7	23	0	242
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	1	7	13	122	45	33	0	0	0	0	0	88
MWBS-02I	14.5 - 15.5	0	0	0	0	0	0	0	0	0	0	0	5
MWBS-02D	24.5 - 25.5	0	0	0	0	0	0	0	0	0	0	0	0
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	0	0	0	0	0	0	0	0	0	0	1
OU3MW-02S	3.0 - 13.0	--	0	0	0	0	0	0	0	0	0	0	0
OU3MW-02I	15.0 - 20.0	--	0	0	0	0	0	0	0	0	0	0	0
OU3MW-03S	1.0 - 11.0	--	2	0	0	0	0	0	34	160	17	100	110
OU3MW-03I	20.0 - 25.0	--	0	0	0	6	0	0	40	57	368	33	13
OU3MW-04S	1.0 - 11.0	--	19	21	0	0	0	8	69	25	0	0	0
OU3MW-04I	16.0 - 21.0	--	9	0	0	30	44	0	0	2	24	15	0
OU3MW-04D	26.0 - 31.0	--	0	0	0	0	0	0	0	0	32	690	297
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-05S	2.0 - 12.0	--	--	0	0	0	0	0	0	0	0	0	0
OU3MW-05I	15.0 - 20.0	--	--	0	0	0	0	0	6	12	0	0	0
OU3MW-06	3.0 - 13.0	--	0	0	0	0	10	0	0	3	0	0	0
OU3MW-07S	3.0 - 13.0	--	--	--	527	36	13	5	0	1	0	0	0

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2009			2010				2011				2012
		Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
OU3MW-07I	15.0 - 20.0	--	--	--	0	0	0	0	73	21	0	0	0
OU3MW-07I2	20.0 - 25.0	--	--	--	0	0	0	0	91	654	695	257	1,020
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	1,800
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	297	449	0	855	0	376
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-09S	2.0-12.0	--	--	--	--	--	--	345	0	0	61	3	0
OU3MW-09I	25.0-30.0	--	--	--	--	--	--	1,453	1,528	1,207	1,765	1,973	1,263
OU3MW-09I2	35.0-40.0								--	--	0	2	3
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	417	240	225	123	0	42
OU3MW-10I	25.0-30.0	--	--	--	--	--	--	0	0	0	0	30	116
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	0	0	0	0	0	2
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-13S	2.0-12.0	--	--	--	--	--	--	--	--	--	117	55	1,244
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	785	579	641
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	377	113	19
OU3MW-16S	2.0-12.0	--	--	--	--	--	--	--	--	--	9	110	140
PDMW-01	5.0 - 20.0	0	--	0	0	0	0	0	0	4	0	0	0
PDMW-02	5.0 - 20.0	3,206	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	2,108	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	0	669	0	0	0	770	0	0	0	6	1	1
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	1,075	133	104
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	0	0	0
SV-03	2.0 - 12.0	0	1	0	0	0	0	1	0	0	0	6	11

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
BBMW-09S	5.0 - 15.0	0	99	7	0	99
BBMW-09I	30.0 - 40.0	0	150	19	0	150
BBMW-09D	62.0 - 72.0	0	0	0	0	0
BBMW-28S	2.0 - 12.0	0	68	3	0	68
BBMW-28I	10.0 - 20.0	0	7	0	0	7
BBMW-29	2.0 - 9.0	0	252	21	0	252
BBMW-30S	2.0 - 10.0	0	0	0	0	4
BBMW-30I	14.0 - 19.0	0	4	1	0	4
BBMW-30D	30.0 - 35.0	0	0	0	0	0
BBMW-31S	2.0 - 10.0	0	0	0	0	0
BBMW-31I	14.0 - 19.0	0	12	1	0	12
BBMW-31D	30.0 - 35.0	0	0	0	0	0
BBMW-32S	2.0 - 10.0	0	3	0	0	3
BBMW-32I	14.0 - 19.0	0	0	0	0	0
BBMW-32D	30.0 - 35.0	0	0	0	0	0
BBMW-33	7.0 - 12.0	0	0	0	0	0
BW-UST-10	5.0 - 10.0	0	69	4	0	69
BW-UST-11	5.0 - 10.0	0	68	4	0	68
BW-UST-28	5.0 - 10.0	0	0	0	0	0
BW-UST-29	5.0 - 10.0	0	3	0	0	3
GM-02AS	8.91 - 23.91	0	0	0	0	0
GM-02AI	35.24 - 50.24	0	0	0	0	0
GM-02AD	59.8 - 74.8	0	0	0	0	0
IO-10	6.0 - 16.0	0	1,285	208	0	1,285
MW-01S	4.0 -14.0	0	1	0	0	1
MW-01D	35.0 - 45.0	0	263	16	0	263
MW-02S/S-R	2.0 - 12.0	0	21,640	2,517	0	21,640
MW-02I/I-R	22.5 - 23.5	0	6,478	278	0	6,478
MW-03	4.94 - 14.94	0	103	31	0	103
MW-04	5.1 - 15.1	0	99	10	0	99
MW-08W	5.0 - 10.0	--	--	--	0	0
MW-11W	2.0 - 10.0	0	861	93	0	861
MW-12W	2.0 - 10.0	0	3	0	0	3
MW-13W	2.0 - 10.0	0	0	0	0	0
MW-16W	2.0 - 10.0	3	3	3	3	3
MW-16SR	2.0 - 10.0	0	38,045	2,885	0	38,045
MW-16I	14.0 - 19.0	0	57	5	0	57
MW-17W	2.0 - 10.0	11	11	11	11	11
MW-24D	14.0 - 19.0	1	1	1	0	1
MW-26D	14.0 - 19.0	0	3	1	0	3
MW-29S	5.0 - 10.0	0	516	12	0	516
MW-29D	14.0 - 19.0	0	2	0	0	2
MW-30W/W-R	2.0 - 10.0	0	1,300	71	0	1,300
MW-32W/W-R	2.0 - 10.0	0	1,435	161	0	1,435
MW-34S	2.0 - 10.0	0	1,604	265	0	1,604
MW-34I	18.5 - 19.5	0	832	98	0	869

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
MW-34D	27.5 - 28.5	0	306	20	0	306
MW-34DD	27.5 - 28.5	0	0	0	0	0
MW-37W	2.0 - 10.0	0	0	0	0	0
MW-39W	2.0 - 10.0	0	0	0	0	0
MW-45W	2.0 - 10.0	0	1,676	159	0	1,676
MW-46W/W-R	2.0 - 10.0	0	4,156	428	0	4,156
MW-64	19.0 - 24.0	0	1,600	134	0	1,600
MW-65	11.0 - 16.0	0	1,415	50	0	1,415
MW-66S	1.5 - 11.5	0	1	0	0	1
MW-66D	24.0 - 29.0	0	2	0	0	2
MW-67S	2.5 - 12.5	0	0	0	0	0
MW-67D	24 - 29 ft	0	0	0	0	0
MW-68D	25.0 - 30.0	0	3	1	0	3
MW-70/70S	2.0 - 12.0	0	1,720	107	0	1,720
MW-73	2.0 - 12.0	0	1,800	705	0	1,800
MW-73I	22.0-27.0	131	698	415	96	698
MW-75	2.0 - 12.0	0	2,890	497	0	2,890
MW-75I	22.0-27.0	656	656	656	656	3,289
MW-76	2.0 - 12.0	0	142	21	0	142
MW-78	5.0 - 20.0	0	1,439	273	0	1,439
MW-79	5.0 - 20.0	0	6,015	564	0	6,015
MW-80	5.0 - 20.0	0	2,500	930	0	2,500
MW-81	5.0 - 20.0	0	2,700	725	0	2,700
MW-82	5.0 - 20.0	0	3,090	449	0	3,090
MW-83	5.0 - 20.0	0	230	37	0	242
MWBS-01S	5.0 - 15.0	0	64	22	0	64
MWBS-02S	5.0 - 15.0	0	274	48	0	274
MWBS-02I	14.5 - 15.5	0	696	68	0	696
MWBS-02D	24.5 - 25.5	0	254	18	0	254
MW-UST1	2.0 - 12.0	0	979	289	0	979
MW-UST2	2.0 - 12.0	0	621	281	0	621
MW-UST3	2.0 - 12.0	0	134	21	0	134
OU3MW-01S	3.0 - 13.0	0	0	0	0	1
OU3MW-02S	3.0 - 13.0	0	0	0	0	0
OU3MW-02I	15.0 - 20.0	0	0	0	0	0
OU3MW-03S	1.0 - 11.0	0	160	31	0	160
OU3MW-03I	20.0 - 25.0	0	368	50	0	368
OU3MW-04S	1.0 - 11.0	0	69	14	0	69
OU3MW-04I	16.0 - 21.0	0	44	12	0	44
OU3MW-04D	26.0 - 31.0	0	690	72	0	690
OU3MW-04D2	31.0 - 36.0	--	--	--	0	0
OU3MW-04D3	41.0 - 46.0	--	--	--	0	0
OU3MW-05S	2.0 - 12.0	0	0	0	0	0
OU3MW-05I	15.0 - 20.0	0	12	2	0	12
OU3MW-06	3.0 - 13.0	0	10	1	0	10
OU3MW-07S	3.0 - 13.0	0	527	73	0	527

Table 4-17
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
OU3MW-07I	15.0 - 20.0	0	73	12	0	73
OU3MW-07I2	20.0 - 25.0	0	695	212	0	1,020
OU3MW-07I3	25.0 - 30.0	--	--	--	1,800	1,800
OU3MW-07I4	35.0 - 40.0	--	--	--	0	0
OU3MW-08S	2.0-12.0	0	855	320	0	855
OU3MW-08I	25.0-30.0	0	0	0	0	0
OU3MW-09S	2.0-12.0	0	345	82	0	345
OU3MW-09I	25.0-30.0	1,207	1,973	1,585	1,207	1,973
OU3MW-09I2	35.0-40.0	0	2	1	0	3
OU3MW-10S	2.0-12.0	0	417	201	0	417
OU3MW-10I	25.0-30.0	0	30	6	0	116
OU3MW-11S	2.0-12.0	0	0	0	0	2
OU3MW-11I	25.0-30.0	0	0	0	0	0
OU3MW-12S	2.0-12.0	0	0	0	0	0
OU3MW-12I	25.0-30.0	0	0	0	0	0
OU3MW-13S	2.0-12.0	55	117	86	55	1,244
OU3MW-14S	2.0-12.0	579	785	682	579	785
OU3MW-15S	2.0-12.0	113	377	245	19	377
OU3MW-16S	2.0-12.0	9	110	60	9	140
PDMW-01	5.0 - 20.0	0	13,000	556	0	13,000
PDMW-02	5.0 - 20.0	1,130	5,848	2,421	1,130	5,848
PDMW-03	5.0 - 15.0	1,619	2,108	1,887	1,619	2,108
SV-02	2.0 - 12.0	0	770	93	0	770
SV-02I	22.0-27.0	133	1,075	604	104	1,075
SV-02I2	35.0-40.0	0	0	0	0	0
SV-03	2.0 - 12.0	0	548	90	0	548

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-18
Summary of BTEX, MTBE and Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operble Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3
Sample Name:		BBMW-28I	PDMW-01	SV-03
Screened Interval:		10-20 ft	5-20 ft	2-12 ft
Sample Date:		3/15/2012	1/9/2012	1/9/2012
Parent Sample:				
BTEX (µg/L)				
Benzene	1	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	**66**
m,p-Xylene	5	1 U	NA	NA
o-Xylene	5	1 U	NA	NA
Total Xylene	5	NA	**2**	**7**
Total BTEX	NE	ND	**2**	**73**
Other VOCs (µg/L)				
Methyl tert-butyl ether	10*	10 U	10 U	**11**
Non-carcinogenic PAHs (µg/L)				
2-Methylnaphthalene	NE	10 U	10 U	10 U
Acenaphthene	20*	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	**11**
Phenanthrene	50*	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	**11**
Carcinogenic PAHs (µg/L)				
Benz[a]anthracene	0.002*	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND
Total PAHs (µg/L)				
Total PAHs	NE	ND	ND	**11**

Notes for groundwater tables are compiled at the end of the Tables in this section

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		BBMW-09S	BBMW-09I	BBMW-09D	BBMW-28S	BBMW-29	BBMW-30S	BBMW-30I	BBMW-30D	BBMW-31S
Screened Interval:		5-15 ft	30-40 ft	62-72 ft	2-12 ft	2-9 ft	2-10 ft	14-19 ft	30-35 ft	2-10 ft
Sample Date:		3/5/2012	2/16/2012	2/9/2012	3/15/2012	3/5/2012	3/16/2012	3/16/2012	3/16/2012	3/16/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,2,4-Trimethylpentane	NE	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		BBMW-09S	BBMW-09I	BBMW-09D	BBMW-28S	BBMW-29	BBMW-30S	BBMW-30I	BBMW-30D	BBMW-31S
Screened Interval:		5-15 ft	30-40 ft	62-72 ft	2-12 ft	2-9 ft	2-10 ft	14-19 ft	30-35 ft	2-10 ft
Sample Date:		3/5/2012	2/16/2012	2/9/2012	3/15/2012	3/5/2012	3/16/2012	3/16/2012	3/16/2012	3/16/2012
Parent Sample:										
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**1 B**	1 U	1 U	1 U	**1 B**	1 U	1 U	1 U	1 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	**2 J**	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
Anthracene	50*	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
Fluoranthene	50*	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	**2 J**	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
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	**4**	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	**4**	ND	ND	ND

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		BBMW-09S	BBMW-09I	BBMW-09D	BBMW-28S	BBMW-29	BBMW-30S	BBMW-30I	BBMW-30D	BBMW-31S
Screened Interval:		5-15 ft	30-40 ft	62-72 ft	2-12 ft	2-9 ft	2-10 ft	14-19 ft	30-35 ft	2-10 ft
Sample Date:		3/5/2012	2/16/2012	2/9/2012	3/15/2012	3/5/2012	3/16/2012	3/16/2012	3/16/2012	3/16/2012
Parent Sample:										
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (cfu/mL)										
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		BBMW-31I	BBMW-31D	BBMW-32S	DUP-13 Q1	BBMW-32I	BBMW-32D	BBMW-33	BW-UST-10	BW-UST-11
Screened Interval:		14-19 ft	30-35 ft	2-10 ft	2-10 ft	14-19 ft	30-35 ft	7-12 ft	4.65-9.95 ft	4.4-9.4 ft
Sample Date:		3/16/2012	3/16/2012	2/8/2012	2/8/2012	2/8/2012	2/8/2012	3/21/2012	2/10/2012	3/19/2012
Parent Sample:					BBMW-32S					
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**7**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		BBMW-31I	BBMW-31D	BBMW-32S	DUP-13 Q1	BBMW-32I	BBMW-32D	BBMW-33	BW-UST-10	BW-UST-11
Screened Interval:		14-19 ft	30-35 ft	2-10 ft	2-10 ft	14-19 ft	30-35 ft	7-12 ft	4.65-9.95 ft	4.4-9.4 ft
Sample Date:		3/16/2012	3/16/2012	2/8/2012	2/8/2012	2/8/2012	2/8/2012	3/21/2012	2/10/2012	3/19/2012
Parent Sample:					BBMW-32S					
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**12**
Acenaphthene	20*	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
Anthracene	50*	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
Fluoranthene	50*	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
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	**16**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	**16**

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		BBMW-31I	BBMW-31D	BBMW-32S	DUP-13 Q1	BBMW-32I	BBMW-32D	BBMW-33	BW-UST-10	BW-UST-11
Screened Interval:		14-19 ft	30-35 ft	2-10 ft	2-10 ft	14-19 ft	30-35 ft	7-12 ft	4.65-9.95 ft	4.4-9.4 ft
Sample Date:		3/16/2012	3/16/2012	2/8/2012	2/8/2012	2/8/2012	2/8/2012	3/21/2012	2/10/2012	3/19/2012
Parent Sample:					BBMW-32S					
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (cfu/mL)										
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		BW-UST-28	BW-UST-29	IO-10	MW-01S	MW-01D	MW-03	MW-04	MW-08W	MW-11W
Screened Interval:		5-10 ft	5-10 ft	6-16 ft	4-14 ft	35-45 ft	4.94-14.94 ft	4.1-15.1 ft	5-10 ft	2-10 ft
Sample Date:		2/10/2012	2/10/2012	1/10/2012	2/9/2012	2/9/2012	3/19/2012	2/7/2012	3/8/2012	1/12/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	**68**	1 U	1 U	1 U	1 U	1 U	**2**
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	**1600 D**	1 U	1 U	1 U	1 U	1 U	**10**
m,p-Xylene	5	1 U	1 U	**2000 D**	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	**910 D**	1 U	1 U	1 U	1 U	1 U	**1**
Total BTEX	NE	ND	ND	**4578**	ND	ND	ND	ND	ND	**13**
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	**680 D**	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	**580 D**	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	**5**	5 U	5 U	5 U	**1 BJ**	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	**4**	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	**10**	10 U	10 U	10 U	10 U	10 U	10 U

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		BW-UST-28	BW-UST-29	IO-10	MW-01S	MW-01D	MW-03	MW-04	MW-08W	MW-11W
Screened Interval:		5-10 ft	5-10 ft	6-16 ft	4-14 ft	35-45 ft	4.94-14.94 ft	4.1-15.1 ft	5-10 ft	2-10 ft
Sample Date:		2/10/2012	2/10/2012	1/10/2012	2/9/2012	2/9/2012	3/19/2012	2/7/2012	3/8/2012	1/12/2012
Parent Sample:										
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	**110**	1 U	1 U	**5**	1 U	1 U	**1**
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**8 J**	10 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	**1300 DB**	1 U	1 U	1 U	1 U	1 U	**3 B**
n-Heptane	NE	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
n-Hexane	NE	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
n-Propylbenzene	5	1 U	1 U	**54**	1 U	1 U	**9**	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	10 U	10 U	**48**	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20*	10 U	10 U	**1 J**	10 U	10 U	**2 J**	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	**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	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
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	**1 J**	10 U	10 U	**2 J**	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	**650 D**	10 U	10 U	10 U	10 U	10 U	**2 J**
Phenanthrene	50*	10 U	10 U	**1 J**	10 U	10 U	**2 J**	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
Total Non-carcinogenic PAHs	NE	ND	ND	**704**	ND	ND	**6**	ND	ND	**2**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	**704**	ND	ND	**6**	ND	ND	**2**

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		BW-UST-28	BW-UST-29	IO-10	MW-01S	MW-01D	MW-03	MW-04	MW-08W	MW-11W
Screened Interval:		5-10 ft	5-10 ft	6-16 ft	4-14 ft	35-45 ft	4.94-14.94 ft	4.1-15.1 ft	5-10 ft	2-10 ft
Sample Date:		2/10/2012	2/10/2012	1/10/2012	2/9/2012	2/9/2012	3/19/2012	2/7/2012	3/8/2012	1/12/2012
Parent Sample:										
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (cfu/mL)										
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-12W	MW-13W	MW-24D	DUP-27 Q1	MW-29S	MW-29D	MW-30WR	MW-32WR	MW-34S
Screened Interval:		2-10 ft	2-10 ft	14-19 ft	14-19 ft	5-10 ft	14-19 ft	2-9 ft	2-9 ft	2-10 ft
Sample Date:		2/15/2012	2/7/2012	3/21/2012	3/21/2012	3/9/2012	3/9/2012	1/10/2012	1/11/2012	1/10/2012
Parent Sample:					MW-24D					
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	**5**	**1**	**150**
Toluene	5	**1 B**	1 U	1 U	1 U	1 U	1 U	**11**	1 U	**220 D**
Ethylbenzene	5	**1 B**	1 U	1 U	1 U	1 U	1 U	**6**	**4**	**950 D**
m,p-Xylene	5	**2 B**	1 U	1 U	1 U	1 U	1 U	**5**	1 U	**2100 D**
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	**3**	**3**	**890 D**
Total BTEX	NE	**4**	ND	ND	ND	ND	ND	**30**	**8**	**4310**
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**350 D**
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**350**
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	**1 J**	**1 J**	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**2 J**	**6 J**

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-12W	MW-13W	MW-24D	DUP-27 Q1	MW-29S	MW-29D	MW-30WR	MW-32WR	MW-34S
Screened Interval:		2-10 ft	2-10 ft	14-19 ft	14-19 ft	5-10 ft	14-19 ft	2-9 ft	2-9 ft	2-10 ft
Sample Date:		2/15/2012	2/7/2012	3/21/2012	3/21/2012	3/9/2012	3/9/2012	1/10/2012	1/11/2012	1/10/2012
Parent Sample:					MW-24D					
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**1**	**78**
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	**2 B**	**27 B**	**520 DB**
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**36**
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**12**
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Anthracene	50*	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
Fluoranthene	50*	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
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**14**	**270 D**
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	**14**	**284**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	**14**	**284**

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-12W	MW-13W	MW-24D	DUP-27 Q1	MW-29S	MW-29D	MW-30WR	MW-32WR	MW-34S
Screened Interval:		2-10 ft	2-10 ft	14-19 ft	14-19 ft	5-10 ft	14-19 ft	2-9 ft	2-9 ft	2-10 ft
Sample Date:		2/15/2012	2/7/2012	3/21/2012	3/21/2012	3/9/2012	3/9/2012	1/10/2012	1/11/2012	1/10/2012
Parent Sample:					MW-24D					
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (cfu/mL)										
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-34I	MW-34D	MW-34DD	MW-37W	MW-39W	MW-45W	MW-46WR	MW-64	MW-65
Screened Interval:		18.5-19.5 ft	27.5-28.5 ft	36-41 ft	2-10 ft	2-10 ft	2-10 ft	2-10 ft	19-24 ft	11-16 ft
Sample Date:		1/10/2012	1/10/2012	2/28/2012	2/7/2012	2/7/2012	1/10/2012	1/10/2012	1/10/2012	1/19/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	**170**	**12**	1 U	1 U	1 U	**5**	**20**	**34**	1 U
Toluene	5	1 U	**2**	1 U	1 U	1 U	**20**	**1**	**170**	**34**
Ethylbenzene	5	**3700 D**	**90**	1 U	1 U	1 U	**5**	**160**	**3000 D**	**610 D**
m,p-Xylene	5	**5300 D**	**100**	1 U	1 U	1 U	**4**	**36**	**1400 D**	**1200 D**
o-Xylene	5	**1900 D**	**32**	1 U	1 U	1 U	**2**	**53**	**1100 D**	**480 D**
Total BTEX	NE	**11070**	**236**	ND	ND	ND	**36**	**270**	**5704**	**2324**
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	**1100 D**	**33**	1 U	1 U	1 U	1 U	**20**	**190**	**1700 D**
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	**910 D**	**24**	1 U	1 U	1 U	1 U	**12**	**250**	**1100 D**
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	**2 J**	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	**8**	5 U	5 U	**1 BJ**	5 U	5 U	5 U	5 U	**2 J**
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	**7**	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	**17**	10 U	10 U	10 U	10 U	10 U	**1 J**	**13**	**4 J**

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-34I	MW-34D	MW-34DD	MW-37W	MW-39W	MW-45W	MW-46WR	MW-64	MW-65
Screened Interval:		18.5-19.5 ft	27.5-28.5 ft	36-41 ft	2-10 ft	2-10 ft	2-10 ft	2-10 ft	19-24 ft	11-16 ft
Sample Date:		1/10/2012	1/10/2012	2/28/2012	2/7/2012	2/7/2012	1/10/2012	1/10/2012	1/10/2012	1/19/2012
Parent Sample:										
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	**180 D**	**11**	1 U	1 U	1 U	1 U	**11**	**97**	**130**
Methyl tert-butyl ether	10*	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**2300 DB**	**77 B**	1 U	1 U	1 U	**1**	**61**	**1200 DB**	**2500 D**
n-Heptane	NE	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Hexane	NE	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
n-Propylbenzene	5	**110**	**4**	1 U	1 U	1 U	1 U	**4**	**46**	**160**
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**25**
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	**36**	10 U	10 U	10 U	10 U	10 U	10 U	**7 J**	**66 JD**
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	**2 J**
Anthracene	50*	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
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	**830 D**	**40**	10 U	10 U	10 U	10 U	**27**	**490 D**	**1200 D**
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	**869**	**40**	ND	ND	ND	ND	**27**	**500**	**1268**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**869**	**40**	ND	ND	ND	ND	**27**	**500**	**1268**

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-34I	MW-34D	MW-34DD	MW-37W	MW-39W	MW-45W	MW-46WR	MW-64	MW-65
Screened Interval:		18.5-19.5 ft	27.5-28.5 ft	36-41 ft	2-10 ft	2-10 ft	2-10 ft	2-10 ft	19-24 ft	11-16 ft
Sample Date:		1/10/2012	1/10/2012	2/28/2012	2/7/2012	2/7/2012	1/10/2012	1/10/2012	1/10/2012	1/19/2012
Parent Sample:										
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (cfu/mL)										
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-66S	MW-66D	MW-67S	MW-67D	MW-70/70S	MW-73	MW-73I	DUP-02 Q1	MW-75
Screened Interval:		1.5-11.5 ft	24-29 ft	2.5-12.5 ft	24-29 ft	2-12 ft	2-12 ft	22-27 ft	22-27 ft	2-12 ft
Sample Date:		2/2/2012	2/2/2012	3/8/2012	3/8/2012	1/9/2012	1/10/2012	1/10/2012	1/10/2012	1/10/2012
Parent Sample:									MW-73I	
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	**130**	**250 D**	**130**	**130**	1 U
Toluene	5	1 U	1 U	1 U	1 U	**500 D**	**8**	**210 D**	**210 D**	**1**
Ethylbenzene	5	1 U	1 U	1 U	1 U	**1500 D**	**120**	**370 D**	**380 D**	**9**
m,p-Xylene	5	1 U	1 U	1 U	1 U	**2100 D**	**110**	**330 D**	**350 D**	**12**
o-Xylene	5	1 U	1 U	1 U	1 U	**890 D**	**93**	**160**	**170**	**10**
Total BTEX	NE	ND	ND	ND	ND	**5120**	**581**	**1200**	**1240**	**32**
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	**370 D**	**35**	**140**	**140**	**9**
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	**320**	**19**	**87**	**82**	**7**
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	**5**	**2 J**	**2 J**	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	**5 J**	10 U	**3 J**	**3 J**	10 U

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-66S	MW-66D	MW-67S	MW-67D	MW-70/70S	MW-73	MW-73I	DUP-02 Q1	MW-75
Screened Interval:		1.5-11.5 ft	24-29 ft	2.5-12.5 ft	24-29 ft	2-12 ft	2-12 ft	22-27 ft	22-27 ft	2-12 ft
Sample Date:		2/2/2012	2/2/2012	3/8/2012	3/8/2012	1/9/2012	1/10/2012	1/10/2012	1/10/2012	1/10/2012
Parent Sample:									MW-73I	
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	**63**	**8**	**24**	**22**	1 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	**480 DB**	**87**	**150 DB**	**150 DB**	**11**
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**2 J**	10 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	**28**	**3**	**13**	**12**	1 U
Styrene	5	1 U	1 U	1 U	1 U	**25**	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	**14**	10 U	**8 J**	**8 J**	10 U
Acenaphthene	20*	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	**1 J**	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
Benzo[g,h,i]perylene	NE	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
Fluorene	50*	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	**280 D**	**16**	**88 D**	**94 D**	10 U
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	**295**	**16**	**96**	**102**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	ND	ND	**295**	**16**	**96**	**102**	ND

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-66S	MW-66D	MW-67S	MW-67D	MW-70/70S	MW-73	MW-73I	DUP-02 Q1	MW-75
Screened Interval:		1.5-11.5 ft	24-29 ft	2.5-12.5 ft	24-29 ft	2-12 ft	2-12 ft	22-27 ft	22-27 ft	2-12 ft
Sample Date:		2/2/2012	2/2/2012	3/8/2012	3/8/2012	1/9/2012	1/10/2012	1/10/2012	1/10/2012	1/10/2012
Parent Sample:									MW-73I	
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (cfu/mL)										
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-75I	MW-76	MW-78	MW-79	MW-80	MW-81	MW-82	MW-83	MWBS-02S
Screened Interval:		22-27 ft	2-12 ft	5-20 ft	5-20 ft	5-20 ft	5-20 ft	5-20 ft	5-20 ft	5-15 ft
Sample Date:		1/10/2012	3/7/2012	3/8/2012	3/9/2012	3/7/2012	1/16/2012	3/7/2012	1/19/2012	1/9/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	**9**	1 U	**340 D**	**680 D**	**1000 D**	**75**	**7**	**2**	**4**
Toluene	5	**2000 D**	1 U	**1100 D**	**2000 D**	**2300 D**	**490 D**	**140**	**170**	**4**
Ethylbenzene	5	**2600 D**	1 U	**1100 D**	**2700 D**	**870 D**	**800 D**	**370 D**	**640 D**	**42**
m,p-Xylene	5	**12000 D**	1 U	**1200 D**	**2800 D**	**710 D**	**570 D**	**680 D**	**770 D**	**17**
o-Xylene	5	**3800 D**	1 U	**650 D**	**1400 D**	**390 D**	**290 D**	**290 D**	**410 D**	**110**
Total BTEX	NE	**20409**	ND	**4390**	**9580**	**5270**	**2225**	**1487**	**1992**	**177**
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	**3000 D**	1 U	**180 D**	**460 D**	**120**	**170**	**330 D**	**380 D**	**2**
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	**1600 D**	1 U	**150**	**320**	**95**	**92**	**170**	**270**	**8**
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	**5**	5 U	**1 J**	**4 J**	**2 J**	**3 J**	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	**5**	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	**6 J**	10 U	**3 J**	**12**	**3 J**	**1 J**	**2 J**	**1 J**	**2 J**

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-75I	MW-76	MW-78	MW-79	MW-80	MW-81	MW-82	MW-83	MWBS-02S
Screened Interval:		22-27 ft	2-12 ft	5-20 ft	5-20 ft	5-20 ft	5-20 ft	5-20 ft	5-20 ft	5-15 ft
Sample Date:		1/10/2012	3/7/2012	3/8/2012	3/9/2012	3/7/2012	1/16/2012	3/7/2012	1/19/2012	1/9/2012
Parent Sample:										
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	**120**	1 U	**32**	**74**	**16**	**25**	**30**	**48**	**2**
Methyl tert-butyl ether	10*	10 U	**20**	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**12000 DB**	1 U	**370 D**	**730 D**	**130 D**	**260 J**	**640 D**	**490 D**	**200**
n-Heptane	NE	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Hexane	NE	**2 J**	10 U	10 U	**6 J**	10 U	10 U	**1 J**	10 U	10 U
n-Propylbenzene	5	**140**	1 U	**12**	**30**	**7**	**12**	**24**	**37**	1 U
Styrene	5	**980 D**	1 U	1 U	1 U	1 U	1 U	**6**	**160**	**5**
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	**73**	10 U	**14**	**32**	**9 J**	**6 J**	**30**	**12**	10 U
Acenaphthene	20*	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	**13**	10 U	10 U	**1 J**	10 U	10 U	**2 J**	10 U	10 U
Anthracene	50*	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
Fluoranthene	50*	10 U	10 U	10 U	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
Naphthalene	10*	**3200 D**	10 U	**250 D**	**410 D**	**70**	**120 D**	**490 D**	**230 D**	**88 D**
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	**3289**	ND	**264**	**443**	**79**	**126**	**522**	**242**	**88**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**3289**	ND	**264**	**443**	**79**	**126**	**522**	**242**	**88**

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MW-75I	MW-76	MW-78	MW-79	MW-80	MW-81	MW-82	MW-83	MWBS-02S
Screened Interval:		22-27 ft	2-12 ft	5-20 ft	5-20 ft	5-20 ft	5-20 ft	5-20 ft	5-20 ft	5-15 ft
Sample Date:		1/10/2012	3/7/2012	3/8/2012	3/9/2012	3/7/2012	1/16/2012	3/7/2012	1/19/2012	1/9/2012
Parent Sample:										
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (cfu/mL)										
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MWBS-02I	MWBS-02D	OU3MW-01S	OU3MW-02S	OU3MW-02I	OU3MW-03S	OU3MW-03I	OU3MW-04S	OU3MW-04S
Screened Interval:		14.5-15.5 ft	24.5-25.5 ft	3-13 ft	3-13 ft	15-20 ft	1-11 ft	20-25 ft	1-11 ft	1-11 ft
Sample Date:		1/9/2012	1/9/2012	1/10/2012	1/10/2012	1/10/2012	1/11/2012	1/11/2012	1/5/2012	2/21/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	**3**	1 U	**2**	1 U	1 U	**56**	**5**	1 U	1 U
Toluene	5	1 U	1 U	**16**	1 U	1 U	**2**	**2**	**2**	1 U
Ethylbenzene	5	**33**	1 U	**12**	1 U	1 U	**220 D**	**94**	**16**	1 U
m,p-Xylene	5	**1**	1 U	**8**	1 U	1 U	**290**	**7**	**34**	1 U
o-Xylene	5	**6**	1 U	**5**	1 U	1 U	**97**	**30**	**12**	1 U
Total BTEX	NE	**43**	ND	**43**	ND	ND	**665**	**138**	**64**	ND
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	**50**	**17**	**6**	1 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	1 U	**51**	**4**	**4**	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	**2 J**	**1 J**	10 U	10 U

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MWBS-02I	MWBS-02D	OU3MW-01S	OU3MW-02S	OU3MW-02I	OU3MW-03S	OU3MW-03I	OU3MW-04S	OU3MW-04S
Screened Interval:		14.5-15.5 ft	24.5-25.5 ft	3-13 ft	3-13 ft	15-20 ft	1-11 ft	20-25 ft	1-11 ft	1-11 ft
Sample Date:		1/9/2012	1/9/2012	1/10/2012	1/10/2012	1/10/2012	1/11/2012	1/11/2012	1/5/2012	2/21/2012
Parent Sample:										
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	**1**	1 U	1 U	1 U	1 U	**10**	**4**	1 U	1 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**12**	1 U	**2**	1 U	1 U	**140 B**	**30 B**	**12**	1 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	**3**	**2**	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20*	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
Anthracene	50*	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
Fluoranthene	50*	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
Naphthalene	10*	**5 J**	10 U	**1 J**	10 U	10 U	**110 D**	**13**	**6 J**	10 U
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	**5**	ND	**1**	ND	ND	**110**	**13**	**6**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	**5**	ND	**1**	ND	ND	**110**	**13**	**6**	ND

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		MWBS-02I	MWBS-02D	OU3MW-01S	OU3MW-02S	OU3MW-02I	OU3MW-03S	OU3MW-03I	OU3MW-04S	OU3MW-04S
Screened Interval:		14.5-15.5 ft	24.5-25.5 ft	3-13 ft	3-13 ft	15-20 ft	1-11 ft	20-25 ft	1-11 ft	1-11 ft
Sample Date:		1/9/2012	1/9/2012	1/10/2012	1/10/2012	1/10/2012	1/11/2012	1/11/2012	1/5/2012	2/21/2012
Parent Sample:										
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	10 U
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	10 U
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	25 U
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2,4-Dimethylphenol	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	25 U
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2,6-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	25 U
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	20 U
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	25 U
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	25 U
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	10 U
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	25 U
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	25 U
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	10 U
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	25 U
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Other (cfu/mL)										
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-04I	OU3MW-04I	OU3MW-04D	OU3MW-04D	OU3MW-04D2	OU3MW-04D3	OU3MW-05S	OU3MW-05I	OU3MW-06
Screened Interval:		16-21 ft	16-21 ft	26-31 ft	26-31 ft	31-36 ft	41-46 ft	2-12 ft	15-20 ft	3-13 ft
Sample Date:		1/5/2012	2/21/2012	1/5/2012	2/21/2012	2/21/2012	2/21/2012	1/11/2012	1/11/2012	1/10/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	**27**	**27**	1 U	1 U	1 U	1 U	**2**
Toluene	5	1 U	1 U	**200**	**290 D**	**2.2**	1 U	1 U	1 U	**13**
Ethylbenzene	5	1 U	1 U	**1500**	**590 D**	**1.8**	1 U	1 U	1 U	**8**
m,p-Xylene	5	**1**	1 U	**2900**	**1300 D**	**3.8**	1 U	1 U	1 U	**6**
o-Xylene	5	1 U	1 U	**1200**	**630 D**	**2.7**	1 U	1 U	1 U	**3**
Total BTEX	NE	**1**	ND	**5827**	**2837**	**10.5**	ND	ND	ND	**32**
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
1,2,4-Trimethylbenzene	5	1 U	1 U	**650**	**260 D**	1 U	1 U	1 U	1 U	1 UJ
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	**430**	**150**	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	500 U	500 U	R	500 U	500 U	500 U	500 UJ	R	R
2,2,4-Trimethylpentane	NE	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 U
2-Hexanone	50*	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 UJ	5 U	5 U	5 U	5 UJ	5 UJ	5 U
Acrylonitrile	5	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
Bromomethane	5	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	60*	1 U	**1.0**	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	**2.4**	**1.5**	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	**5 J**	10 U	10 U	10 U	10 UJ	10 UJ	10 U

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-04I	OU3MW-04I	OU3MW-04D	OU3MW-04D	OU3MW-04D2	OU3MW-04D3	OU3MW-05S	OU3MW-05I	OU3MW-06
Screened Interval:		16-21 ft	16-21 ft	26-31 ft	26-31 ft	31-36 ft	41-46 ft	2-12 ft	15-20 ft	3-13 ft
Sample Date:		1/5/2012	2/21/2012	1/5/2012	2/21/2012	2/21/2012	2/21/2012	1/11/2012	1/11/2012	1/10/2012
Parent Sample:										
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	500 U	500 U	R	500 U	500 U	500 U	R	R	R
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
Iodomethane	5	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 UJ
Isopropyl benzene	5	1 U	1 U	**69**	**38**	**1.2**	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	**4**	10 U	**3**
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**4**	1 U	**1000 J**	**520 D**	**7.2 B**	1 U	1 U	1 U	**2 J**
n-Heptane	NE	10 U	10 U	**2 J**	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
n-Hexane	NE	10 U	10 U	**1 J**	10 U	10 U	10 U	10 UJ	10 UJ	10 U
n-Propylbenzene	5	1 U	1 U	**52**	**20**	1 U	1 U	1 U	1 U	1 UJ
Styrene	5	1 U	1 U	**150**	**180**	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	10 U	10 U	**29**	**17**	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	**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	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
Fluoranthene	50*	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
Naphthalene	10*	10 U	10 U	**1000**	**280 D**	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
Pyrene	50*	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	**1032**	**297**	ND	ND	ND	ND	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	**1032**	**297**	ND	ND	ND	ND	ND

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-04I	OU3MW-04I	OU3MW-04D	OU3MW-04D	OU3MW-04D2	OU3MW-04D3	OU3MW-05S	OU3MW-05I	OU3MW-06
Screened Interval:		16-21 ft	16-21 ft	26-31 ft	26-31 ft	31-36 ft	41-46 ft	2-12 ft	15-20 ft	3-13 ft
Sample Date:		1/5/2012	2/21/2012	1/5/2012	2/21/2012	2/21/2012	2/21/2012	1/11/2012	1/11/2012	1/10/2012
Parent Sample:										
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
1,2-Dichlorobenzene	3	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
1,3-Dichlorobenzene	3	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
1,4-Dichlorobenzene	3	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	25 U	NA	25 U	25 U	25 U	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
2,4-Dichlorophenol	5	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
2,4-Dimethylphenol	50*	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
2,4-Dinitrophenol	10*	NA	25 U	NA	25 U	25 U	25 U	NA	NA	NA
2,4-Dinitrotoluene	5	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
2,6-Dinitrotoluene	5	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
2-Chloronaphthalene	10*	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
2-Chlorophenol	NE	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
2-Nitroaniline	5	NA	25 U	NA	25 U	25 U	25 U	NA	NA	NA
2-Nitrophenol	NE	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	20 U	NA	20 U	20 U	20 U	NA	NA	NA
3-Nitroaniline	5	NA	25 U	NA	25 U	25 U	25 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NA	25 U	NA	25 U	25 U	25 U	NA	NA	NA
4-Bromophenyl phenyl ether	NE	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
4-Chloroaniline	5	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
4-Nitroaniline	5	NA	25 U	NA	25 U	25 U	25 U	NA	NA	NA
4-Nitrophenol	NE	NA	25 U	NA	25 U	25 U	25 U	NA	NA	NA
Bis(2-chloroethoxy)methane	5	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Butyl benzyl phthalate	50*	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Carbazole	NE	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Dibenzofuran	NE	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Diethyl phthalate	50*	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Dimethyl phthalate	50*	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Di-n-butyl phthalate	50	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Di-n-octyl phthalate	50*	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Hexachlorobenzene	0.04	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Hexachlorobutadiene	0.5	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Hexachloroethane	5	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Isophorone	50*	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Nitrobenzene	0.4	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Pentachlorophenol	1	NA	25 U	NA	25 U	25 U	25 U	NA	NA	NA
Phenol	1	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
Other (cfu/mL)										
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-07S	OU3MW-07S	OU3MW-07I	OU3MW-07I	OU3MW-07I2	OU3MW-07I2	OU3MW-07I3	OU3MW-07I4	OU3MW-08S
Screened Interval:		3-13 ft	3-13 ft	15-20 ft	15-20 ft	20-25 ft	20-25 ft	25-30 ft	35-40 ft	2-12 ft
Sample Date:		1/5/2012	2/22/2012	1/5/2012	2/22/2012	1/5/2012	2/22/2012	2/22/2012	2/21/2012	1/6/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	1 U	1 U	**3**	**6.3**	**7.4**	1 U	**180**
Toluene	5	1 U	1 U	1 U	1 U	**74**	**460 D**	**780 D**	1 U	**450**
Ethylbenzene	5	1 U	1 U	**3**	1 U	**510**	**1100 D**	**1500 D**	1 U	**690**
m,p-Xylene	5	1 U	1 U	**5**	1 U	**620**	**4200 D**	**7300 D**	1 U	**660**
o-Xylene	5	1 U	1 U	**2**	1 U	**380**	**1600 D**	**2600 D**	1 U	**350**
Total BTEX	NE	ND	ND	**10**	ND	**1587**	**7366.3**	**12187.4**	ND	**2330**
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	**3**	1 U	**360**	**720 D**	**950 D**	1 U	**180**
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	**3**	1 U	**350**	**490 D**	**500 D**	1 U	**160**
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	500 U	R	500 U	R	500 U	500 U	500 U	R
2,2,4-Trimethylpentane	NE	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ
2-Butanone (Methyl ethyl ketone)	50*	5 UJ	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 UJ
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50*	5 UJ	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 UJ
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Methyl-2-pentanone	NE	5 UJ	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 UJ
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 UJ	5 U	5 UJ	5 U	**3 J**	5 U	5 U	5 U	**4 J**
Acrylonitrile	5	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 UJ	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 UJ
Carbon disulfide	60*	1 UJ	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 UJ
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	**2**	**3.2**	**1.9**	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-07S	OU3MW-07S	OU3MW-07I	OU3MW-07I	OU3MW-07I2	OU3MW-07I2	OU3MW-07I3	OU3MW-07I4	OU3MW-08S
Screened Interval:		3-13 ft	3-13 ft	15-20 ft	15-20 ft	20-25 ft	20-25 ft	25-30 ft	35-40 ft	2-12 ft
Sample Date:		1/5/2012	2/22/2012	1/5/2012	2/22/2012	1/5/2012	2/22/2012	2/22/2012	2/21/2012	1/6/2012
Parent Sample:										
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	R	500 U	R	500 U	R	500 U	500 U	500 U	R
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	5	1 UJ	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 UJ
Isopropyl benzene	5	1 U	1 U	1 U	1 U	**48**	**65**	**65**	**1.8**	**12**
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	**3 J**	1 U	**470 J**	**1300 D**	**2100 D**	**16**	**570 J**
n-Heptane	NE	10 UJ	10 U	10 UJ	10 U	**2 J**	10 U	10 U	10 U	10 UJ
n-Hexane	NE	10 UJ	10 U	10 UJ	10 U	**2 J**	10 U	10 U	10 U	10 UJ
n-Propylbenzene	5	1 U	1 U	1 U	1 U	**29**	**54**	**76**	1 U	**10**
Styrene	5	1 U	1 U	1 U	1 U	**39**	**600 D**	**880 D**	1 U	**28**
Tetrachloroethene	5	1 UJ	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	**38**	**90 D**	**100 D**	10 U	**6**
Acenaphthene	20*	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	**3 J**	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
Benzo[g,h,i]perylene	NE	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
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	**3 J**	10 U	**480**	**930 D**	**1700 D**	10 U	**370**
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	**3**	ND	**521**	**1020**	**1800**	ND	**376**
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	**3**	ND	**521**	**1020**	**1800**	ND	**376**

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-07S	OU3MW-07S	OU3MW-07I	OU3MW-07I	OU3MW-07I2	OU3MW-07I2	OU3MW-07I3	OU3MW-07I4	OU3MW-08S
Screened Interval:		3-13 ft	3-13 ft	15-20 ft	15-20 ft	20-25 ft	20-25 ft	25-30 ft	35-40 ft	2-12 ft
Sample Date:		1/5/2012	2/22/2012	1/5/2012	2/22/2012	1/5/2012	2/22/2012	2/22/2012	2/21/2012	1/6/2012
Parent Sample:										
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
1,2-Dichlorobenzene	3	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
1,3-Dichlorobenzene	3	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
1,4-Dichlorobenzene	3	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
2,4,5-Trichlorophenol	NE	NA	25 U	NA	25 U	NA	25 U	25 U	25 U	NA
2,4,6-Trichlorophenol	NE	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
2,4-Dichlorophenol	5	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
2,4-Dimethylphenol	50*	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
2,4-Dinitrophenol	10*	NA	25 U	NA	25 U	NA	25 U	25 U	25 U	NA
2,4-Dinitrotoluene	5	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
2,6-Dinitrotoluene	5	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
2-Chloronaphthalene	10*	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
2-Chlorophenol	NE	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
2-Methylphenol (o-Cresol)	1	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
2-Nitroaniline	5	NA	25 U	NA	25 U	NA	25 U	25 U	25 U	NA
2-Nitrophenol	NE	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
3,3-Dichlorobenzidine	5	NA	20 U	NA	20 U	NA	20 U	20 U	20 U	NA
3-Nitroaniline	5	NA	25 U	NA	25 U	NA	25 U	25 U	25 U	NA
4,6-Dinitro-2-methylphenol	NE	NA	25 U	NA	25 U	NA	25 U	25 U	25 U	NA
4-Bromophenyl phenyl ether	NE	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
4-Chloro-3-methylphenol	NE	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
4-Chloroaniline	5	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
4-Chlorophenyl phenyl ether	NE	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
4-Methylphenol (p-Cresol)	1	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
4-Nitroaniline	5	NA	25 U	NA	25 U	NA	25 U	25 U	25 U	NA
4-Nitrophenol	NE	NA	25 U	NA	25 U	NA	25 U	25 U	25 U	NA
Bis(2-chloroethoxy)methane	5	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Bis(2-chloroethyl)ether	1	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Bis(2-ethylhexyl)phthalate	5	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Bis(chloroisopropyl)ether	5	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Butyl benzyl phthalate	50*	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Carbazole	NE	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Dibenzofuran	NE	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Diethyl phthalate	50*	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Dimethyl phthalate	50*	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Di-n-butyl phthalate	50	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Di-n-octyl phthalate	50*	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Hexachlorobenzene	0.04	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Hexachlorobutadiene	0.5	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Hexachlorocyclopentadiene	5	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Hexachloroethane	5	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Isophorone	50*	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Nitrobenzene	0.4	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
N-Nitrosodi-n-propylamine	NE	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
N-Nitrosodiphenylamine	50*	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Pentachlorophenol	1	NA	25 U	NA	25 U	NA	25 U	25 U	25 U	NA
Phenol	1	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	NA
Other (cfu/mL)										
Standard Plate Count	NE	**29**	NA	**200**	NA	**280**	NA	NA	NA	NA

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-08I	OU3MW-09S	OU3MW-09I	OU3MW-09I2	OU3MW-10S	DUP-01 Q1	OU3MW-10I	OU3MW-11S	OU3MW-11I
Screened Interval:		25-30 ft	2-12 ft	25-30 ft	35-40 ft	2-12 ft	2-12 ft	25-30 ft	2-12 ft	25-30 ft
Sample Date:		1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012
Parent Sample:							OU3MW-10S			
BTEX (µg/L)										
Benzene	1	1 U	**5**	**100**	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	**860**	**5**	**3**	**3**	**21**	**2**	1 U
Ethylbenzene	5	1 U	**3**	**1700**	**8**	**39 J**	**20 J**	**16**	**2**	1 U
m,p-Xylene	5	1 U	**1**	**2400**	**10**	**8**	**8**	**64**	**3**	1 U
o-Xylene	5	1 U	**28**	**860**	**4**	**63 J**	**35 J**	**100**	**1**	1 U
Total BTEX	NE	ND	**37**	**5920**	**27**	**113**	**66**	**201**	**8**	ND
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	**17**	**830**	**2**	**26 J**	**14 J**	**120**	1 U	1 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	**730**	**1**	**6 J**	**4 J**	**53**	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	R	R	R	R	R	500 U	R	R
2,2,4-Trimethylpentane	NE	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	NE	1 U	1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
2-Hexanone	50*	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 UJ	500 U	500 UJ	500 UJ	500 U	500 UJ	500 U	500 U
4-Methyl-2-pentanone	NE	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 UJ	5 U	**6 J**	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	R	10 U	R	R
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 UJ	1 UJ
Bromomethane	5	1 UJ	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ
Carbon disulfide	60*	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 U	1 U
Carbon tetrachloride	5	1 U	1 UJ	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U
Cyclohexane	NE	10 U	10 U	**54**	10 U	10 U	10 U	10 U	10 U	10 U

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-08I	OU3MW-09S	OU3MW-09I	OU3MW-09I2	OU3MW-10S	DUP-01 Q1	OU3MW-10I	OU3MW-11S	OU3MW-11I
Screened Interval:		25-30 ft	2-12 ft	25-30 ft	35-40 ft	2-12 ft	2-12 ft	25-30 ft	2-12 ft	25-30 ft
Sample Date:		1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012
Parent Sample:							OU3MW-10S			
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	R	R	R	R	R	R	R	R	R
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U
Isopropyl benzene	5	1 U	**5**	**140**	1 U	**7 J**	**4 J**	**12**	1 U	1 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	**2 J**	**1 J**	**1200 J**	**4 J**	**85 J**	**38 J**	**180 J**	1 UJ	1 UJ
n-Heptane	NE	10 UJ	10 UJ	**15 J**	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U
n-Hexane	NE	10 UJ	10 UJ	**53 J**	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U
n-Propylbenzene	5	1 U	1 U	**73**	1 U	**4 J**	**2 J**	**11**	1 U	1 U
Styrene	5	1 U	1 U	**43**	1 U	**2**	1 U	**6**	1 U	1 U
Tetrachloroethene	5	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 UJ	1 U	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	10 U	10 U	**150**	10 U	10 U	10 U	**16**	10 U	10 U
Acenaphthene	20*	10 U	10 U	**5**	10 U	10 U	10 U	**1 J**	10 U	10 U
Acenaphthylene	NE	10 U	10 U	**5**	10 U	**1 J**	10 U	**5**	10 U	10 U
Anthracene	50*	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
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	**2 J**	10 U	10 U	10 U	**2 J**	10 U	10 U
Naphthalene	10*	10 U	10 U	**1100**	**3 J**	**41**	**46**	**92**	**2 J**	10 U
Phenanthrene	50*	10 U	10 U	**1 J**	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
Total Non-carcinogenic PAHs	NE	ND	ND	**1263**	**3**	**42**	**46**	**116**	**2**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	**1263**	**3**	**42**	**46**	**116**	**2**	ND

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-08I	OU3MW-09S	OU3MW-09I	OU3MW-09I2	OU3MW-10S	DUP-01 Q1	OU3MW-10I	OU3MW-11S	OU3MW-11I
Screened Interval:		25-30 ft	2-12 ft	25-30 ft	35-40 ft	2-12 ft	2-12 ft	25-30 ft	2-12 ft	25-30 ft
Sample Date:		1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012	1/6/2012
Parent Sample:							OU3MW-10S			
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (cfu/mL)										
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-12S	OU3MW-12I	OU3MW-13S	OU3MW-14S	OU3MW-15S	OU3MW-16S	SV-02	SV-02I	SV-02I2
Screened Interval:		2-12 ft	25-30 ft	2-12 ft	2-12 ft	2-12 ft	2-12 ft	2-12 ft	22-27 ft	35-40 ft
Sample Date:		1/6/2012	1/6/2012	1/9/2012	1/9/2012	1/6/2012	1/9/2012	1/9/2012	1/9/2012	1/9/2012
Parent Sample:										
BTEX (µg/L)										
Benzene	1	1 U	1 U	**1500**	**2300**	**14**	**13**	**14**	**19**	1 U
Toluene	5	**1**	1 U	**8100**	**11000**	**2**	**16**	**43**	**20**	1 U
Ethylbenzene	5	**2**	1 U	**4700**	**4300**	**160**	**430**	**28**	**840**	**2**
m,p-Xylene	5	**2**	1 U	**4700**	**4300**	**10**	**130**	**20**	**90**	1 U
o-Xylene	5	1 U	1 U	**2000**	**1700**	**18**	**180**	**9**	**66**	1 U
Total BTEX	NE	**5**	ND	**21000**	**23600**	**204**	**769**	**114**	**1035**	**2**
Other VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	**530**	**500**	**18**	**43**	**1**	**39**	1 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	**390**	**380**	**3**	**21**	**1**	**41**	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	R	R	R	R	R	R	R	R
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	**1**	**2 J**	5 U	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	NE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 UJ	500 UJ	500 U	500 UJ	500 UJ	500 UJ	500 UJ
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 U	5 U	5 UJ	11 UJ	5 U	5 U	5 UJ	5 UJ	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	R	R	10 U	10 U	R	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 UJ	1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ	1 U	1 UJ
Bromomethane	5	1 UJ	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ	1 U
Chlorobenzene	5	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U
Cyclohexane	NE	10 U	10 U	**4**	**7**	10 U	10 U	10 U	**4**	10 U

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-12S	OU3MW-12I	OU3MW-13S	OU3MW-14S	OU3MW-15S	OU3MW-16S	SV-02	SV-02I	SV-02I2
Screened Interval:		2-12 ft	25-30 ft	2-12 ft	2-12 ft	2-12 ft	2-12 ft	2-12 ft	22-27 ft	35-40 ft
Sample Date:		1/6/2012	1/6/2012	1/9/2012	1/9/2012	1/6/2012	1/9/2012	1/9/2012	1/9/2012	1/9/2012
Parent Sample:										
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	NE	R	R	R	R	R	R	R	R	R
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	5	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ	1 U
Isopropyl benzene	5	1 U	1 U	**100**	**88**	**2**	**14**	1 U	**23**	1 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 UJ	1 UJ	**1200 J**	**940 J**	**31 J**	**240 J**	1 UJ	**200 J**	1 U
n-Heptane	NE	10 U	10 U	10 UJ	**1 J**	10 U	10 U	10 U	10 UJ	10 U
n-Hexane	NE	10 U	10 U	**1 J**	**1 J**	10 U	10 U	10 U	10 UJ	10 U
n-Propylbenzene	5	1 U	1 U	**36**	**44**	**1**	**8**	1 U	**8**	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**21**	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ	1 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)										
2-Methylnaphthalene	NE	10 U	10 U	**30**	**39**	10 U	10 U	10 U	**7**	10 U
Acenaphthene	20*	10 U	10 U	**9**	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	**2 J**	**2 J**	10 U	10 U	10 U	**1 J**	10 U
Anthracene	50*	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
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	**1200**	**600**	**19**	**140**	**1 J**	**96**	10 U
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	ND	ND	**1244**	**641**	**19**	**140**	**1**	**104**	ND
Carcinogenic PAHs (µg/L)										
Benz[a]anthracene	0.002*	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
Benzo[b]fluoranthene	0.002*	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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (µg/L)										
Total PAHs	NE	ND	ND	**1244**	**641**	**19**	**140**	**1**	**104**	ND

Table 4-19
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 3 (OU-3)

Operable Unit:	NYS AWQS	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name:		OU3MW-12S	OU3MW-12I	OU3MW-13S	OU3MW-14S	OU3MW-15S	OU3MW-16S	SV-02	SV-02I	SV-02I2
Screened Interval:		2-12 ft	25-30 ft	2-12 ft	2-12 ft	2-12 ft	2-12 ft	2-12 ft	22-27 ft	35-40 ft
Sample Date:		1/6/2012	1/6/2012	1/9/2012	1/9/2012	1/6/2012	1/9/2012	1/9/2012	1/9/2012	1/9/2012
Parent Sample:										
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (cfu/mL)										
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-20
Summary of BTEX Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Location		Well ID	Number of Data Points	Number of Non-Detects	Median Value	Mann-Kendall Statistic (S)	Probability	Trend (At 90% Significant Level)
Brightwaters Yard Excavation IRM		MW-64	35	19	ND	204	0.0015	Increasing
		MW-65	34	27	ND	74	0.1187	No Trend
		MW-73	35	0	7400	-315	0.0000	Decreasing
		MW-73I	7	0	1820	-17	0.0107	Decreasing
		MW-75	36	1	1278	-210	0.0042	Decreasing
		MW-75I	7	0	5821	17	0.0107	Increasing
		MW-76	33	23	ND	-81	0.1211	No Trend
		MW-78	32	0	2800	-112	0.0693	Decreasing
		MW-79	33	0	3160	8	0.9014	No Trend
		MW-80	33	0	20090	-286	0.0000	Decreasing
		MW-81	33	0	5700	-198	0.0022	Decreasing
		MW-82	33	0	4260	-264	0.0000	Decreasing
		MW-83	33	7	101	-33	0.6072	No Trend
		OU3MW-08S	12	0	2680	-22	0.1314	No Trend
		OU3MW-09S	12	0	226	-38	0.0092	Decreasing
		OU3MW-09I	12	0	20395	-35	0.0161	Decreasing
		OU3MW-09I2	7	1	27	15	0.0243	Increasing
		OU3MW-10S	12	0	524	-53	0.0003	Decreasing
		OU3MW-10I	12	4	35.5	30	0.0357	Increasing
		OU3MW-11S	10	9	ND	9	0.1172	No Trend
		OU3MW-11I	10	9	ND	-9	0.1172	No Trend
		OU3MW-13S	7	0	2730	19	0.0043	Increasing
		OU3MW-14S	7	0	30500	-14	0.0334	Decreasing
		OU3MW-15S	7	0	551	-19	0.0043	Decreasing
		SV-02	36	16	7.5	-64	0.3604	No Trend*
		SV-02I	7	0	1566	-11	0.0985	Decreasing
		SV-02I2	7	6	ND	6	0.1336	No Trend
		SV-03	33	5	60	-331	0.0000	Decreasing
Community Road Line	Downgradient	MW-11W	36	12	31.5	-190	0.0083	Decreasing
		MW-30WR	29	23	ND	-15	0.6894	No Trend
		MW-32W/W-R	36	5	1070	-338	0.0000	Decreasing
		MW-34S	38	0	5699	-183	0.0214	Decreasing
		MW-34I	26	13	2.55	93	0.0279	Increasing
		MW-34D	28	23	ND	111	0.0010	Increasing
		MW-45W	35	5	1737	-285	0.0001	Decreasing
		MW-46W/WR	41	0	1664	-564	0.0000	Decreasing
		MW-70/70S	41	0	1546	66	0.4585	No Trend
		IO-10	39	16	82	109	0.1710	No Trend
		OU3MW-02S	14	13	ND	-9	0.2643	No Trend
		OU3MW-02I	14	13	ND	1	0.9013	No Trend
		OU3MW-03S	16	4	266.5	78	0.0004	Increasing
		OU3MW-03I	16	4	385.5	36	0.1020	No Trend
		OU3MW-04S	17	10	ND	-25	0.2460	No Trend
		OU3MW-04I	17	6	108	-11	0.6423	No Trend
		OU3MW-04D	17	8	10	82	0.0003	Increasing
		OU3MW-05I	13	10	ND	1	0.9335	No Trend
		OU3MW-07S	17	8	8	-90	0.0001	Decreasing
		OU3MW-07I	17	9	ND	2	0.9285	No Trend
		OU3MW-07I2	17	6	1416	46	0.0519	Increasing

Notes:

ND - Non-Detect

* Statistical trend doesn't use high concentration system near startup, but only the post-startup consistent low concentrations.

1. A high positive value of the Mann-Kendall Statistic (S) indicates an increasing statistical trend, and a low negative value of S indicates a decreasing statistical trend.
2. A conservative confidence interval of 90% was used to assess statistical trends with an associated error probability of less than 0.10.
3. Shading indicates that the normal approximation used to compute the achieved significance level may be poor.

Table 4-21
Summary of Total PAH Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Location		Well ID	Number of Data Points	Number of Non-Detects	Median Value	Mann-Kendall Statistic (S)	Probability	Trend (At 90% Significant Level)
Brightwaters Yard Excavation IRM		MW-64	29	19	ND	159	0.0004	Increasing
		MW-65	30	27	ND	28	0.3342	No Trend
		MW-73	29	1	495	-172	0.0013	Decreasing
		MW-73I	3	0	131	-3	0.1172	No Trend
		MW-75	30	11	34	-38	0.4861	No Trend
		MW-75I	3	0	656	2	0.2207	No Trend
		MW-76	29	27	ND	-49	0.0351	Decreasing
		MW-78	28	13	33.5	-69	0.1495	No Trend
		MW-79	29	11	6	-94	0.0692	Decreasing
		MW-80	29	1	640	-227	0.0000	Decreasing
		MW-81	29	4	434	-120	0.0242	Decreasing
		MW-82	29	6	182	-111	0.0364	Decreasing
		MW-83	29	19	ND	-5	0.9115	No Trend
		OU3MW-08S	6	2	336.5	0	1.0000	No Trend
		OU3MW-09S	6	3	1.55	-4	0.4206	No Trend
		OU3MW-09I	6	0	1490.5	3	0.5730	No Trend
		OU3MW-09I2	3	1	2	3	0.1172	No Trend
		OU3MW-10S	6	1	174	-13	0.0146	Decreasing
		OU3MW-10I	6	4	ND	9	0.0424	Increasing
		OU3MW-11S	6	5	ND	5	0.1432	No Trend
		OU3MW-13S	3	0	117	1	0.6015	No Trend
		OU3MW-14S	3	0	641	-1	0.6015	No Trend
		OU3MW-15S	3	0	113	-3	0.1172	No Trend
		SV-02	30	19	ND	-1	0.9834	No Trend
		SV-02I	3	0	133	-3	0.1172	No Trend
		SV-03	29	17	ND	-82	0.0839	Decreasing
Community Road Line	Downgradient	MW-11W	36	21	ND	-178	0.0066	Decreasing
		MW-32W/W-R	36	11	21.5	-228	0.0016	Decreasing
		MW-34S	36	1	110	-21	0.7748	No Trend
		MW-34I	24	14	ND	57	0.1127	No Trend
		MW-34D	26	21	ND	37	0.2328	No Trend
		MW-45W	35	15	9	-265	0.0001	Decreasing
		MW-46W/WR	36	1	102.5	-275	0.0002	Decreasing
		MW-70/70S	36	6	25	104	0.1553	No Trend
		IO-10	34	20	ND	33	0.5823	No Trend
		OU3MW-03S	11	5	2	27	0.0266	Increasing
		OU3MW-03I	11	5	6	27	0.0266	Increasing
		OU3MW-04S	12	6	3.05	-9	0.5074	No Trend
		OU3MW-04I	12	6	1.05	-5	0.7127	No Trend
		OU3MW-04D	12	8	ND	34	0.0051	Increasing
		OU3MW-05I	10	8	ND	5	0.5174	No Trend
		OU3MW-07S	12	6	0.55	-41	0.0025	Decreasing
		OU3MW-07I	12	8	ND	10	0.3626	No Trend
		OU3MW-07I2	12	6	45.55	43	0.0015	Increasing

Notes:

ND - Non-Detect

* Statistical trend doesn't use high concentration system near startup, but only the post-startup consistent low concentrations.

1. A high positive value of the Mann-Kendall Statistic (S) indicates an increasing statistical trend, and a low negative value of S indicates a decreasing statistical trend.
2. A conservative confidence interval of 90% was used to assess statistical trends with an associated error probability of less than 0.10.
3. Shading indicates that the normal approximation used to compute the achieved significance level may be poor.

Table 4-22
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)											
		Sampling Date											
		2002		2003			2004				2005		
		Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug
WCMW-01S	2.0 - 12.0	5	1	0	0	0	0	0	11	0	0	0	10
WCMW-01I	35.0 - 45.0	0	0	0	0	0	--	0	0	--	0	--	--
WCMW-01D	64.0 - 74.0	0	0	--	0	--	--	0	0	--	--	--	--
WCMW-02S	3.0 - 13.0	6	0	0	0	0	0	0	0	--	0	--	--
WCMW-02I	34.5 - 44.5	0	0	0	0	0	--	0	0	--	--	--	--
WCMW-02D	62.0 - 72.0	0	0	--	--	--	--	0	0	--	--	--	--
WCMW-03S	4.83 - 9.83	--	10	12	25	0	10	25	14	0	42	14	23
WCMW-03I	19.4 - 24.4	--	0	0	0	0	0	0	0	0	0	--	--
WCMW-03I2	28.55 - 33.55	--	0	0	0	0	0	0	0	0	0	--	--
WCMW-04S	1.6 - 11.6	--	33	0	15	16	12	0	10	40	0	16	0
WCMW-04I	19.0 - 24.0	--	0	0	0	0	0	0	0	--	0	--	--
WCMW-04I2	29.85 - 34.85	--	0	--	0	0	--	0	0	0	0	--	--
WCMW-05S	1.4 - 11.4	--	0	0	0	0	0	0	0	0	0	--	--
WCMW-05I	19.61 - 24.61	--	0	0	0	0	0	0	0	--	0	--	--
WCMW-05I2	29.46 - 34.46	--	0	0	0	0	--	0	0	0	0	--	--
WCMW-06S	2.0 - 12.0	--	0	0	0	0	0	0	0	--	--	--	--
WCMW-06I	19.55 - 24.55	--	0	0	0	0	0	0	0	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	0	--	0	0	--	0	0	--	--	--	--
WCMW-07S	2.76 - 12.76	--	0	0	0	0	--	0	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	0	--	0	0	--	0	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	0	--	0	0	--	0	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	0	0	0	0	--	0	0	--	--	--	--
WCMW-08I	19.2 - 24.2	--	0	--	0	0	0	0	0	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	0	--	0	0	--	0	0	--	--	--	--
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-22
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)											
		Sampling Date											
		2002		2003			2004				2005		
		Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-22
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)											
		Sampling Date											
		2005	2006				2007				2008		
		Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-01S	2.0 - 12.0	0	0	0	23	0	0	0	13	9	2	0	12
WCMW-01I	35.0 - 45.0	--	0	--	--	--	0	--	0	1	0	0	0
WCMW-01D	64.0 - 74.0	--	0	--	--	--	0	--	0	2	0	0	0
WCMW-02S	3.0 - 13.0	--	0	0	0	0	0	0	4	6	0	0	2
WCMW-02I	34.5 - 44.5	--	0	--	--	--	0	--	0	0	0	0	0
WCMW-02D	62.0 - 72.0	--	0	--	--	--	0	--	0	0	0	0	0
WCMW-03S	4.83 - 9.83	10	--	0	22	20	0	12	32	0	20	21	25
WCMW-03I	19.4 - 24.4	0	--	0	--	--	--	--	0	0	0	0	0
WCMW-03I2	28.55 - 33.55	0	--	0	--	--	--	--	0	0	0	0	0
WCMW-04S	1.6 - 11.6	0	11	10	31	16	0	12	23	25	6	22	24
WCMW-04I	19.0 - 24.0	0	--	--	--	0	--	--	0	0	0	0	0
WCMW-04I2	29.85 - 34.85	0	--	--	--	0	0	--	0	0	0	0	0
WCMW-05S	1.4 - 11.4	0	--	0	--	--	0	0	0	0	0	0	0
WCMW-05I	19.61 - 24.61	0	--	0	--	--	--	--	0	0	0	0	0
WCMW-05I2	29.46 - 34.46	0	--	0	--	--	--	--	0	0	0	0	0
WCMW-06S	2.0 - 12.0	--	--	--	--	--	0	0	0	0	0	0	0
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	0	--	--	--	--	--	0	0	0	--	0
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	--	0	0	0	--	0
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	--	0	0	0	--	0
WCMW-09S	5.0 - 15.0	--	0	0	0	--	--	--	0	0	0	0	0
WCMW-10S	15.0 - 20.0	--	0	0	0	0	0	0	0	0	0	0	0
WCMW-10D	40.0 - 50.0	--	0	0	0	--	--	--	1	0	0	0	0
WCMW-11S	5.0 - 15.0	--	80	--	148	--	--	--	--	--	--	53	--
WCMW-11I	25.0 - 35.0	--	0	--	0	--	--	--	--	--	--	0	--
WCMW-11D	50.0 - 60.0	--	0	--	0	--	--	--	--	--	--	0	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	0	0	1
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-22
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)											
		Sampling Date											
		2005	2006				2007				2008		
		Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-22
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)											
		Sampling Date											
		2008	2009				2010				2011		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept
WCMW-01S	2.0 - 12.0	3	3	1	4	0	1	5	10	14	1	--	--
WCMW-01I	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	--	--
WCMW-01D	64.0 - 74.0	0	0	0	0	0	0	0	0	0	0	--	--
WCMW-02S	3.0 - 13.0	0	0	0	0	5	0	0	0	3	9	0	0
WCMW-02I	34.5 - 44.5	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-02D	62.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-03S	4.83 - 9.83	24	33	34	23	6	27	29	30	27	24	--	--
WCMW-03I	19.4 - 24.4	0	0	0	0	0	0	0	0	0	0	--	--
WCMW-03I2	28.55 - 33.55	0	0	0	0	0	0	0	0	0	0	--	--
WCMW-04S	1.6 - 11.6	26	21	34	10	2	6	12	32	25	30	11	2
WCMW-04I	19.0 - 24.0	0	0	0	2	0	0	0	0	0	0	0	14
WCMW-04I2	29.85 - 34.85	0	0	0	0	0	0	0	0	0	0	0	2
WCMW-05S	1.4 - 11.4	0	1	0	0	1	2	3	0	0	3	2	2
WCMW-05I	19.61 - 24.61	0	0	0	0	0	0	0	0	0	0	0	1
WCMW-05I2	29.46 - 34.46	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-06S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-06I	19.55 - 24.55	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	0	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	0	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	0	--	--
WCMW-08S	4.2 - 9.2	--	--	--	--	--	0	--	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	--	--	--	--	0	--	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	0	--	--	--	--	--	--
WCMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-10S	15.0 - 20.0	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-10D	40.0 - 50.0	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-11S	5.0 - 15.0	--	--	53	36	2	23	--	12	16	27	30	75
WCMW-11I	25.0 - 35.0	--	--	0	0	0	0	--	0	0	0	0	0
WCMW-11D	50.0 - 60.0	--	--	0	0	0	0	--	0	0	0	0	0
WCMW-12S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-12I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-12D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	2	0	0
WCMW-13S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-13I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-13D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-14S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-14I	20.0 - 25.0	0	0	0	0	0	1	0	0	0	0	0	0
WCMW-14I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-14D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-16S	2.0 - 12.0	0	0	2	0	9	0	0	0	0	0	--	--
WCMW-16I	20.0 - 25.0	0	0	1	0	0	0	0	0	0	0	--	--
WCMW-16I2	30.0 - 35.0	0	0	2	0	0	0	0	0	0	0	--	--
WCMW-17S	2.0 - 12.0	--	--	5	6	2	0	1	1	1	4	--	--
WCMW-17I	20.0 - 25.0	--	--	0	2	0	0	1	0	0	0	--	--
WCMW-17I2	30.0 - 35.0	--	--	0	0	0	0	0	0	0	0	--	--

Table 4-22
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)											
		Sampling Date											
		2008	2009				2010				2011		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept
WCMW-18WT	2.0 - 7.0	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-18S	2.0 - 12.0	--	--	0	0	1	0	0	0	0	0	--	--
WCMW-18I	20.0 - 25.0	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-18I2	30.0 - 35.0	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-19S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	0	0	0
WCMW-19I	20.0 - 25.0	--	--	--	0	0	0	0	0	0	0	0	0
WCMW-19I2	30.0 - 35.0	--	--	--	0	0	0	0	0	0	0	0	0
WCMW-20S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-20I	20.0 - 25.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-20I2	30.0 - 35.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-21S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-21I	20.0 - 25.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-21I2	30.0 - 35.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-22S	2.0 - 12.0	--	--	--	0	0	0	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	0	0	0	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	--	--	0	0	0	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	0	0	0	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	0	16	--	8	3	4	2	--
WCMW-24I	20.0 - 25.0	--	--	--	--	0	0	--	0	0	0	0	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	0	0	--	0	0	0	0	--
WCMW-25I	30.0 - 35.0	--	--	--	--	0	1	0	0	0	0	0	0
WCMW-25D	55.0 - 60.0	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-26S	2.0 - 12.0	--	--	--	--	44	78	--	35	114	21	19	47
WCMW-26I	20.0 - 25.0	--	--	--	--	0	0	--	0	0	0	0	0
WCMW-26I2	30.0 - 35.0	--	--	--	--	0	0	--	0	0	0	0	0
WCMW-27S	2.0 - 12.0	--	--	--	--	19	4	29	16	19	31	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	0	0	0	0	0	0	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	0	0	0	0	0	0	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	0	0	0	0	0	0	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	84	19	59	69	145
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-22
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)						
		Sampling Date		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2011	2012					
		Oct-Dec	Jan-Mar					
WCMW-01S	2.0 - 12.0	--	--	0	23	4	0	23
WCMW-01I	35.0 - 45.0	--	--	0	1	0	0	1
WCMW-01D	64.0 - 74.0	--	--	0	2	0	0	2
WCMW-02S	3.0 - 13.0	19	6	0	19	2	0	19
WCMW-02I	34.5 - 44.5	0	0	0	0	0	0	0
WCMW-02D	62.0 - 72.0	0	0	0	0	0	0	0
WCMW-03S	4.83 - 9.83	--	--	0	42	19	0	42
WCMW-03I	19.4 - 24.4	--	--	0	0	0	0	0
WCMW-03I2	28.55 - 33.55	--	--	0	0	0	0	0
WCMW-04S	1.6 - 11.6	3	0	0	40	15	0	40
WCMW-04I	19.0 - 24.0	9	4	0	14	1	0	14
WCMW-04I2	29.85 - 34.85	0	0	0	2	0	0	2
WCMW-05S	1.4 - 11.4	0	3	0	3	0	0	3
WCMW-05I	19.61 - 24.61	5	9	0	5	0	0	9
WCMW-05I2	29.46 - 34.46	0	2	0	0	0	0	2
WCMW-06S	2.0 - 12.0	0	0	0	0	0	0	0
WCMW-06I	19.55 - 24.55	0	0	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	0	0	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	0	0	0	0	0	0
WCMW-07I	18.9 - 23.9	--	0	0	0	0	0	0
WCMW-07I2	28.95 - 33.95	--	0	0	0	0	0	0
WCMW-08S	4.2 - 9.2	--	0	0	0	0	0	0
WCMW-08I	19.2 - 24.2	--	0	0	0	0	0	0
WCMW-08I2	26.9 - 31.9	--	0	0	0	0	0	0
WCMW-09S	5.0 - 15.0	--	--	0	0	0	0	0
WCMW-10S	15.0 - 20.0	--	--	0	0	0	0	0
WCMW-10D	40.0 - 50.0	--	--	0	1	0	0	1
WCMW-11S	5.0 - 15.0	--	37	2	148	46	2	148
WCMW-11I	25.0 - 35.0	--	0	0	0	0	0	0
WCMW-11D	50.0 - 60.0	--	0	0	0	0	0	0
WCMW-12S	3.0 - 13.0	0	0	0	0	0	0	0
WCMW-12I	25.0 - 30.0	0	0	0	0	0	0	0
WCMW-12D	67.0 - 72.0	0	0	0	2	0	0	2
WCMW-13S	3.0 - 13.0	2	17	0	2	0	0	17
WCMW-13I	25.0 - 30.0	0	0	0	0	0	0	0
WCMW-13D	65.0 - 70.0	0	0	0	0	0	0	0
WCMW-14S	2.0 - 12.0	0	1	0	0	0	0	1
WCMW-14I	20.0 - 25.0	0	0	0	1	0	0	1
WCMW-14I2	30.0 - 35.0	0	0	0	0	0	0	0
WCMW-14D	67.0 - 72.0	0	0	0	0	0	0	0
WCMW-16S	2.0 - 12.0	--	--	0	9	1	0	9
WCMW-16I	20.0 - 25.0	--	--	0	1	0	0	1
WCMW-16I2	30.0 - 35.0	--	--	0	2	0	0	2
WCMW-17S	2.0 - 12.0	--	--	0	6	3	0	6
WCMW-17I	20.0 - 25.0	--	--	0	2	0	0	2
WCMW-17I2	30.0 - 35.0	--	--	0	0	0	0	0

Table 4-22
Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)						
		Sampling Date		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2011	2012					
		Oct-Dec	Jan-Mar					
WCMW-18WT	2.0 - 7.0	--	--	0	0	0	0	0
WCMW-18S	2.0 - 12.0	--	--	0	1	0	0	1
WCMW-18I	20.0 - 25.0	--	--	0	0	0	0	0
WCMW-18I2	30.0 - 35.0	--	--	0	0	0	0	0
WCMW-19S	2.0 - 12.0	0	0	0	0	0	0	0
WCMW-19I	20.0 - 25.0	0	0	0	0	0	0	0
WCMW-19I2	30.0 - 35.0	0	0	0	0	0	0	0
WCMW-20S	2.0 - 12.0	--	--	0	0	0	0	0
WCMW-20I	20.0 - 25.0	--	--	0	0	0	0	0
WCMW-20I2	30.0 - 35.0	--	--	0	0	0	0	0
WCMW-21S	2.0 - 12.0	--	--	0	0	0	0	0
WCMW-21I	20.0 - 25.0	--	--	0	0	0	0	0
WCMW-21I2	30.0 - 35.0	--	--	0	0	0	0	0
WCMW-22S	2.0 - 12.0	--	0	0	0	0	0	0
WCMW-22I	25.0 - 30.0	--	0	0	0	0	0	0
WCMW-23S	2.0 - 12.0	--	--	0	0	0	0	0
WCMW-23I	25.0 - 30.0	--	--	0	0	0	0	0
WCMW-24S	2.0 - 12.0	--	--	0	16	6	0	16
WCMW-24I	20.0 - 25.0	--	--	0	0	0	0	0
WCMW-24I2	30.0 - 35.0	--	--	0	0	0	0	0
WCMW-25I	30.0 - 35.0	0	0	0	1	0	0	1
WCMW-25D	55.0 - 60.0	0	0	0	0	0	0	0
WCMW-26S	2.0 - 12.0	--	45	19	114	51	19	114
WCMW-26I	20.0 - 25.0	--	0	0	0	0	0	0
WCMW-26I2	30.0 - 35.0	--	0	0	0	0	0	0
WCMW-27S	2.0 - 12.0	--	--	4	31	20	4	31
WCMW-27I	20.0 - 25.0	--	--	0	0	0	0	0
WCMW-28S	2.0 - 12.0	--	--	0	0	0	0	0
WCMW-28I	20.0 - 25.0	--	--	0	0	0	0	0
WCMW-29S	2.0 - 12.0	--	152	19	145	75	19	152
WCMW-29I	20.0 - 25.0	--	0	0	0	0	0	0
WCMW-30S	2.0 - 12.0	--	0	--	--	--	0	0
WCMW-30I	20.0 - 25.0	--	10	--	--	--	10	10
WCMW-30I2	30.0 - 35.0	--	0	--	--	--	0	0
WCMW-31S	2.0 - 12.0	--	3	--	--	--	3	3
WCMW-31I	20.0 - 25.0	--	0	--	--	--	0	0
WCMW-31I2	30.0 - 35.0	--	0	--	--	--	0	0
WCMW-32S	2.0 - 12.0	--	0	--	--	--	0	0

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-23
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)											
		Sampling Date											
		2002		2003			2004				2005		
		Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug
WCMW-01S	2.0 - 12.0	33	756	24	10	117	0	19	228	240	0	51	298
WCMW-01I	35.0 - 45.0	2	2	0	0	0	--	0	0	--	0	--	--
WCMW-01D	64.0 - 74.0	45	35	--	0	--	--	0	0	--	--	--	--
WCMW-02S	3.0 - 13.0	79	125	0	0	62	0	0	44	--	15	--	--
WCMW-02I	34.5 - 44.5	0	4	0	0	0	--	0	0	--	--	--	--
WCMW-02D	62.0 - 72.0	0	0	--	--	--	--	0	0	--	--	--	--
WCMW-03S	4.83 - 9.83	--	74	393	419	481	34	293	458	350	235	171	800
WCMW-03I	19.4 - 24.4	--	268	1,120	1,100	1,004	1,243	1,261	1,395	1,182	1,532	--	--
WCMW-03I2	28.55 - 33.55	--	327	340	402	348	49	133	191	127	94	--	--
WCMW-04S	1.6 - 11.6	--	1,080	141	69	270	50	0	219	836	17	136	204
WCMW-04I	19.0 - 24.0	--	221	174	142	99	0	62	90	--	81	--	--
WCMW-04I2	29.85 - 34.85	--	0	--	0	0	--	0	17	95	0	--	--
WCMW-05S	1.4 - 11.4	--	0	31	0	0	0	10	0	14	12	--	--
WCMW-05I	19.61 - 24.61	--	156	329	243	215	298	227	245	--	276	--	--
WCMW-05I2	29.46 - 34.46	--	0	0	15	0	--	0	0	214	0	--	--
WCMW-06S	2.0 - 12.0	--	39	0	0	0	0	0	0	--	--	--	--
WCMW-06I	19.55 - 24.55	--	0	0	0	0	0	0	0	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	0	--	0	0	--	0	0	--	--	--	--
WCMW-07S	2.76 - 12.76	--	0	0	0	56	--	0	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	0	--	0	0	--	0	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	0	--	0	0	--	0	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	0	0	0	0	--	0	0	--	--	--	--
WCMW-08I	19.2 - 24.2	--	0	--	0	0	0	0	0	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	0	--	0	0	--	0	0	--	--	--	--
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-23
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)											
		Sampling Date											
		2002		2003			2004				2005		
		Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-23
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)											
		Sampling Date											
		2005	2006				2007				2008		
		Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-01S	2.0 - 12.0	14	0	10	340	130	78	291	203	345	47	9	353
WCMW-01I	35.0 - 45.0	--	0	--	--	--	0	--	0	0	0	0	2
WCMW-01D	64.0 - 74.0	--	0	--	--	--	0	--	0	0	0	0	0
WCMW-02S	3.0 - 13.0	--	0	0	30	0	0	0	77	101	0	4	51
WCMW-02I	34.5 - 44.5	--	0	--	--	--	0	--	0	0	0	0	1
WCMW-02D	62.0 - 72.0	--	0	--	--	--	0	--	0	0	0	0	1
WCMW-03S	4.83 - 9.83	376	--	242	339	233	198	240	305	44	122	12	102
WCMW-03I	19.4 - 24.4	1,423	--	1,770	--	--	--	--	255	315	939	134	290
WCMW-03I2	28.55 - 33.55	109	--	83	--	--	--	--	5	37	6	0	25
WCMW-04S	1.6 - 11.6	153	116	57	264	445	95	214	194	326	186	72	337
WCMW-04I	19.0 - 24.0	155	--	--	--	144	--	--	142	94	70	66	96
WCMW-04I2	29.85 - 34.85	0	--	--	--	0	--	--	0	0	0	0	0
WCMW-05S	1.4 - 11.4	0	--	0	--	--	0	0	3	3	5	3	4
WCMW-05I	19.61 - 24.61	338	--	286	--	--	--	--	242	287	162	153	121
WCMW-05I2	29.46 - 34.46	0	--	0	--	--	--	--	7	31	0	0	39
WCMW-06S	2.0 - 12.0	--	--	--	--	--	0	0	1	0	0	4	0
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	52	0	0	0	0
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	0	11	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	0	--	--	--	--	--	0	0	0	--	0
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	--	0	0	0	--	0
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	--	0	0	0	--	0
WCMW-09S	5.0 - 15.0	--	0	0	0	--	--	--	0	0	0	0	0
WCMW-10S	15.0 - 20.0	--	0	0	21	0	0	0	0	0	0	0	0
WCMW-10D	40.0 - 50.0	--	0	0	0	--	--	--	0	0	0	0	0
WCMW-11S	5.0 - 15.0	--	1,037	--	590	--	--	--	--	--	--	705	--
WCMW-11I	25.0 - 35.0	--	0	--	0	--	--	--	--	--	--	0	--
WCMW-11D	50.0 - 60.0	--	0	--	0	--	--	--	--	--	--	0	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	2	5	4
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	0	0	1
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	0	0	1
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	16	77	0
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	70
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	4	28	57
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-23
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)											
		Sampling Date											
		2005	2006				2007				2008		
		Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-23
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)											
		Sampling Date											
		2008	2009				2010				2011		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-01S	2.0 - 12.0	77	0	16	26	3	4	14	115	49	18	--	--
WCMW-01I	35.0 - 45.0	0	0	0	46	0	1	0	0	0	0	--	--
WCMW-01D	64.0 - 74.0	0	0	0	2	0	0	0	0	0	0	--	--
WCMW-02S	3.0 - 13.0	27	0	5	0	12	3	0	2	56	38	9	15
WCMW-02I	34.5 - 44.5	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-02D	62.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-03S	4.83 - 9.83	239	243	358	419	237	501	6	327	363	1,532	--	--
WCMW-03I	19.4 - 24.4	1,107	142	1,146	994	1,743	1,127	1,332	1,213	1,101	6	--	--
WCMW-03I2	28.55 - 33.55	24	0	2	5	15	0	535	0	9	8	--	--
WCMW-04S	1.6 - 11.6	332	43	16	272	197	204	227	251	390	369	262	315
WCMW-04I	19.0 - 24.0	100	33	108	101	46	15	30	97	130	95	44	174
WCMW-04I2	29.85 - 34.85	0	0	0	0	2	0	0	0	1	0	0	285
WCMW-05S	1.4 - 11.4	2	5	7	6	8	8	7	38	34	284	8	42
WCMW-05I	19.61 - 24.61	150	170	241	411	432	270	83	43	217	28	136	407
WCMW-05I2	29.46 - 34.46	63	0	48	5	0	0	0	19	30	0	0	778
WCMW-06S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-06I	19.55 - 24.55	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	0	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	0	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	0	--	--
WCMW-08S	4.2 - 9.2	--	--	--	--	--	0	--	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	--	--	--	--	0	--	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	0	--	--	--	--	--	--
WCMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-10S	15.0 - 20.0	0	0	0	0	5	0	0	--	--	--	--	--
WCMW-10D	40.0 - 50.0	0	0	0	0	3	0	0	--	--	--	--	--
WCMW-11S	5.0 - 15.0	--	--	624	637	238	159	--	496	1,350	386	1,286	1,258
WCMW-11I	25.0 - 35.0	--	--	0	10	1	20	--	0	62	36	5	182
WCMW-11D	50.0 - 60.0	--	--	0	0	0	2	--	0	0	0	0	0
WCMW-12S	3.0 - 13.0	1	4	13	0	3	0	2	0	0	0	2	2
WCMW-12I	25.0 - 30.0	0	0	5	5	16	0	0	0	0	0	0	30
WCMW-12D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-13S	3.0 - 13.0	53	0	0	0	0	1	0	0	0	0	0	2
WCMW-13I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-13D	65.0 - 70.0	1	0	0	0	0	0	0	0	0	0	0	0
WCMW-14S	2.0 - 12.0	0	0	6	0	4	20	23	26	0	3	0	29
WCMW-14I	20.0 - 25.0	2	2	50	64	81	149	214	149	65	24	25	376
WCMW-14I2	30.0 - 35.0	10	1	11	0	18	57	25	95	201	160	9	71
WCMW-14D	67.0 - 72.0	0	0	2	0	0	0	0	0	0	0	0	0
WCMW-16S	2.0 - 12.0	0	24	22	0	1,971	2,259	337	43	56	51	--	--
WCMW-16I	20.0 - 25.0	0	0	18	0	2	13	6	14	14	6	--	--
WCMW-16I2	30.0 - 35.0	0	0	4	55	5	15	10	17	0	1	--	--
WCMW-17S	2.0 - 12.0	--	--	295	226	201	141	339	431	407	339	--	--
WCMW-17I	20.0 - 25.0	--	--	292	342	38	186	338	394	322	258	--	--
WCMW-17I2	30.0 - 35.0	--	--	0	16	0	12	12	31	0	20	--	--

Table 4-23
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)											
		Sampling Date											
		2008	2009				2010				2011		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-18WT	2.0 - 7.0	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-18S	2.0 - 12.0	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-18I	20.0 - 25.0	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-18I2	30.0 - 35.0	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-19S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	0	0	0
WCMW-19I	20.0 - 25.0	--	--	--	0	0	0	0	0	0	0	0	0
WCMW-19I2	30.0 - 35.0	--	--	--	0	0	0	0	0	0	0	0	0
WCMW-20S	2.0 - 12.0	--	--	--	0	2	0	0	0	0	0	0	--
WCMW-20I	20.0 - 25.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-20I2	30.0 - 35.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-21S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-21I	20.0 - 25.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-21I2	30.0 - 35.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-22S	2.0 - 12.0	--	--	--	61	56	54	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	5	1	0	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	--	--	34	16	0	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	0	0	0	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	237	336	--	215	170	158	271	--
WCMW-24I	20.0 - 25.0	--	--	--	--	10	53	--	32	40	98	58	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	0	0	--	0	0	0	0	--
WCMW-25I	30.0 - 35.0	--	--	--	--	0	54	0	0	0	0	0	20
WCMW-25D	55.0 - 60.0	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-26S	2.0 - 12.0	--	--	--	--	350	232	--	394	146	204	331	243
WCMW-26I	20.0 - 25.0	--	--	--	--	47	24	--	87	28	0	26	56
WCMW-26I2	30.0 - 35.0	--	--	--	--	3	24	--	11	10	7	5	0
WCMW-27S	2.0 - 12.0	--	--	--	--	141	0	278	708	0	699	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	0	0	0	0	0	0	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	251	36	97	396	301	128	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	2	0	0	0	0	0	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	2,391	2,154	1,092	1,599	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	43	29	10	17	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-23
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)						
		Sampling Date		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2011	2012					
		Oct-Dec	Jan-Mar					
WCMW-01S	2.0 - 12.0	--	--	0	756	115	0	756
WCMW-01I	35.0 - 45.0	--	--	0	46	2	0	46
WCMW-01D	64.0 - 74.0	--	--	0	45	4	0	45
WCMW-02S	3.0 - 13.0	69	94	0	125	25	0	125
WCMW-02I	34.5 - 44.5	0	0	0	4	0	0	4
WCMW-02D	62.0 - 72.0	5	0	0	5	0	0	5
WCMW-03S	4.83 - 9.83	--	--	6	1,532	317	6	1,532
WCMW-03I	19.4 - 24.4	--	--	6	1,770	967	6	1,770
WCMW-03I2	28.55 - 33.55	--	--	0	535	111	0	535
WCMW-04S	1.6 - 11.6	132	98	0	1,080	236	0	1,080
WCMW-04I	19.0 - 24.0	432	411	0	432	109	0	432
WCMW-04I2	29.85 - 34.85	79	73	0	285	18	0	285
WCMW-05S	1.4 - 11.4	0	94	0	284	17	0	284
WCMW-05I	19.61 - 24.61	173	225	28	432	226	28	432
WCMW-05I2	29.46 - 34.46	264	306	0	778	54	0	778
WCMW-06S	2.0 - 12.0	0	0	0	39	2	0	39
WCMW-06I	19.55 - 24.55	0	0	0	52	2	0	52
WCMW-06I2	29.83 - 34.83	0	0	0	11	0	0	11
WCMW-07S	2.76 - 12.76	--	0	0	56	9	0	56
WCMW-07I	18.9 - 23.9	--	0	0	0	0	0	0
WCMW-07I2	28.95 - 33.95	--	0	0	0	0	0	0
WCMW-08S	4.2 - 9.2	--	0	0	0	0	0	0
WCMW-08I	19.2 - 24.2	--	0	0	0	0	0	0
WCMW-08I2	26.9 - 31.9	--	0	0	0	0	0	0
WCMW-09S	5.0 - 15.0	--	--	0	0	0	0	0
WCMW-10S	15.0 - 20.0	--	--	0	21	1	0	21
WCMW-10D	40.0 - 50.0	--	--	0	3	0	0	3
WCMW-11S	5.0 - 15.0	--	375	159	1,350	731	159	1,350
WCMW-11I	25.0 - 35.0	--	61	0	182	26	0	182
WCMW-11D	50.0 - 60.0	--	0	0	2	0	0	2
WCMW-12S	3.0 - 13.0	0	0	0	13	2	0	13
WCMW-12I	25.0 - 30.0	4	1	0	30	4	0	30
WCMW-12D	67.0 - 72.0	0	0	0	1	0	0	1
WCMW-13S	3.0 - 13.0	75	229	0	75	8	0	229
WCMW-13I	25.0 - 30.0	0	0	0	0	0	0	0
WCMW-13D	65.0 - 70.0	0	0	0	1	0	0	1
WCMW-14S	2.0 - 12.0	263	143	0	263	23	0	263
WCMW-14I	20.0 - 25.0	125	125	0	376	89	0	376
WCMW-14I2	30.0 - 35.0	0	0	0	201	46	0	201
WCMW-14D	67.0 - 72.0	0	0	0	2	0	0	2
WCMW-16S	2.0 - 12.0	--	--	0	2,259	373	0	2,259
WCMW-16I	20.0 - 25.0	--	--	0	18	6	0	18
WCMW-16I2	30.0 - 35.0	--	--	0	55	8	0	55
WCMW-17S	2.0 - 12.0	--	--	141	431	297	141	431
WCMW-17I	20.0 - 25.0	--	--	38	394	271	38	394
WCMW-17I2	30.0 - 35.0	--	--	0	31	11	0	31

Table 4-23
Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)						
		Sampling Date		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2011	2012					
		Oct-Dec	Jan-Mar					
WCMW-18WT	2.0 - 7.0	--	--	0	0	0	0	0
WCMW-18S	2.0 - 12.0	--	--	0	0	0	0	0
WCMW-18I	20.0 - 25.0	--	--	0	0	0	0	0
WCMW-18I2	30.0 - 35.0	--	--	0	0	0	0	0
WCMW-19S	2.0 - 12.0	0	0	0	0	0	0	0
WCMW-19I	20.0 - 25.0	0	0	0	0	0	0	0
WCMW-19I2	30.0 - 35.0	0	0	0	0	0	0	0
WCMW-20S	2.0 - 12.0	--	--	0	2	0	0	2
WCMW-20I	20.0 - 25.0	--	--	0	0	0	0	0
WCMW-20I2	30.0 - 35.0	--	--	0	0	0	0	0
WCMW-21S	2.0 - 12.0	--	--	0	0	0	0	0
WCMW-21I	20.0 - 25.0	--	--	0	0	0	0	0
WCMW-21I2	30.0 - 35.0	--	--	0	0	0	0	0
WCMW-22S	2.0 - 12.0	--	59	54	61	57	54	61
WCMW-22I	25.0 - 30.0	--	0	0	5	2	0	5
WCMW-23S	2.0 - 12.0	--	--	0	34	17	0	34
WCMW-23I	25.0 - 30.0	--	--	0	0	0	0	0
WCMW-24S	2.0 - 12.0	--	--	158	336	231	158	336
WCMW-24I	20.0 - 25.0	--	--	10	98	49	10	98
WCMW-24I2	30.0 - 35.0	--	--	0	0	0	0	0
WCMW-25I	30.0 - 35.0	0	0	0	54	8	0	54
WCMW-25D	55.0 - 60.0	0	0	0	0	0	0	0
WCMW-26S	2.0 - 12.0	--	352	146	394	271	146	394
WCMW-26I	20.0 - 25.0	--	7	0	87	38	0	87
WCMW-26I2	30.0 - 35.0	--	1	0	24	9	0	24
WCMW-27S	2.0 - 12.0	--	--	0	708	304	0	708
WCMW-27I	20.0 - 25.0	--	--	0	0	0	0	0
WCMW-28S	2.0 - 12.0	--	--	36	396	202	36	396
WCMW-28I	20.0 - 25.0	--	--	0	2	0	0	2
WCMW-29S	2.0 - 12.0	--	2,374	1,092	2,391	1,809	1,092	2,391
WCMW-29I	20.0 - 25.0	--	5	10	43	25	5	43
WCMW-30S	2.0 - 12.0	--	14	--	--	--	14	14
WCMW-30I	20.0 - 25.0	--	169	--	--	--	169	169
WCMW-30I2	30.0 - 35.0	--	3	--	--	--	3	3
WCMW-31S	2.0 - 12.0	--	427	--	--	--	427	427
WCMW-31I	20.0 - 25.0	--	31	--	--	--	31	31
WCMW-31I2	30.0 - 35.0	--	69	--	--	--	69	69
WCMW-32S	2.0 - 12.0	--	304	--	--	--	304	304

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-02S	WCMW-02I	WCMW-02D	WCMW-04S	WCMW-04I	WCMW-04I2	WCMW-05S	WCMW-05I	WCMW-05I2	WCMW-06S
Screened Interval:		3-13 ft	34.5-44.5 ft	62-72 ft	1.6-11.6 ft	19-24 ft	29.85-34.85 ft	1.15-11.15 ft	19.61-24.61 ft	29.46-34.46 ft	2-12 ft
Sample Date:		1/11/2012	1/11/2012	1/11/2012	1/11/2012	1/11/2012	1/11/2012	1/12/2012	1/11/2012	1/11/2012	1/16/2012
Parent Sample:											
BTEX (µg/L)											
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	**3**	1 U	1 U	1 U	**2**	1 U	**3**	**5**	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	**1**	1 U	1 U	**2**	1 U	1 U
o-Xylene	5	**3**	1 U	1 U	1 U	**1**	1 U	1 U	**2**	1 U	1 U
Total BTEX	NE	**6**	ND	ND	ND	**4**	ND	**3**	**9**	**2**	ND
Other VOCs (µg/L)											
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Acetone	50*	5 UJ	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 UJ
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ
Cyclohexane	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	500 UJ	R	R	R	R	R	R	R	R
Ethanol	NE	R	R	R	R	R	R	R	R	R	R
n-Heptane	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-02S	WCMW-02I	WCMW-02D	WCMW-04S	WCMW-04I	WCMW-04I2	WCMW-05S	WCMW-05I	WCMW-05I2	WCMW-06S
Screened Interval:		3-13 ft	34.5-44.5 ft	62-72 ft	1.6-11.6 ft	19-24 ft	29.85-34.85 ft	1.15-11.15 ft	19.61-24.61 ft	29.46-34.46 ft	2-12 ft
Sample Date:		1/11/2012	1/11/2012	1/11/2012	1/11/2012	1/11/2012	1/11/2012	1/12/2012	1/11/2012	1/11/2012	1/16/2012
Parent Sample:											
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	**3**	1 U	1 U	1 U	**3**	1 U	**3**	1 U	1 U	1 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1**	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 UJ	1 U	1 U	**15 J**	1 UJ	3 UJ	**42 J**	**48 J**	**54 J**	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	**1**	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	**3**	1 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	**2**	1 U	1 U	**1**	**32**	**1**	**24**	**4**	**4**	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	**2**	1 U	1 U	1 U	**26**	1 U	**11**	**2**	1 U	1 U
2,2,4-Trimethylpentane	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ
Vinyl acetate	NE	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 UJ
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)											
Acenaphthene	20*	**61**	10 U	10 U	**46**	**190**	**7**	**56**	**19**	**19**	10 U
Acenaphthylene	NE	**13**	10 U	10 U	**2 J**	**11**	**17**	**1 J**	**57**	**100**	10 U
Anthracene	50*	**2 J**	10 U	10 U	**5**	**11**	**2 J**	**1 J**	**9**	**6 J**	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Fluoranthene	50*	**2 J**	10 U	10 U	10 U	**2 J**	10 U	10 U	**2 J**	**2**	10 U
Fluorene	50*	**5**	10 U	10 U	**13**	**51**	**17**	**10**	**33**	**52**	10 U
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**22**	**37**	10 U
Naphthalene	10*	**2 J**	10 U	10 U	**4 J**	**90**	**1 J**	**17**	**32**	**37**	10 U
Phenanthrene	50*	**6**	10 U	10 U	**27**	**53**	**28**	**9**	**48**	**50**	10 U
Pyrene	50*	**3 J**	10 U	10 U	**1 J**	**3 J**	**1 J**	10 U	**3 J**	**3 J**	10 U
Total Non-carcinogenic PAHs	NE	**94**	ND	ND	**98**	**411**	**73**	**94**	**225**	**306**	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
Benzo[a]pyrene	ND	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
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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-02S	WCMW-02I	WCMW-02D	WCMW-04S	WCMW-04I	WCMW-04I2	WCMW-05S	WCMW-05I	WCMW-05I2	WCMW-06S
Screened Interval:		3-13 ft	34.5-44.5 ft	62-72 ft	1.6-11.6 ft	19-24 ft	29.85-34.85 ft	1.15-11.15 ft	19.61-24.61 ft	29.46-34.46 ft	2-12 ft
Sample Date:		1/11/2012	1/11/2012	1/11/2012	1/11/2012	1/11/2012	1/11/2012	1/12/2012	1/11/2012	1/11/2012	1/16/2012
Parent Sample:											
Total PAHs (µg/L)											
Total PAHs	NE	**94**	ND	ND	**98**	**411**	**73**	**94**	**225**	**306**	ND
Other SVOCs (µg/L)											
Benzyl alcohol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	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
Bis(2-chloroethoxy)methane	5	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
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	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
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	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
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)											
Sulfate	250000	NA	NA	NA	**34200**	**12800**	**26600**	**231000**	**13800**	**16300**	NA

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-06I	WCMW-06I2	WCMW-07S	WCMW-07I	WCMW-07I2	WCMW-08S	WCMW-08I	WCMW-08I2	WCMW-11S	WCMW-11I
Screened Interval:		19.55-24.55 ft	29.83-34.83 ft	2.76-12.76 ft	18.9-23.9 ft	28.95-33.95 ft	4.2-19.2 ft	19.2-24.2 ft	19.2-24.2 ft	5-15 ft	25-35 ft
Sample Date:		1/16/2012	1/16/2012	1/16/2012	1/16/2012	1/16/2012	3/16/2012	3/16/2012	3/16/2012	1/13/2012	1/13/2012
Parent Sample:											
BTEX (µg/L)											
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**27**	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**8**	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	**37**	ND
Other VOCs (µg/L)											
Acetaldehyde	8*	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ
Acetone	50*	**140**	5 UJ	5 UJ	5 UJ	5 UJ	5 U	5 U	5 U	9 UJ	5 UJ
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
2-Butanone (Methyl ethyl ketone)	50*	**22**	**6**	5 U	5 U	5 U	5 U	5 U	5 U	**3 J**	5 U
Carbon disulfide	60*	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 UJ
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
Cyclohexane	NE	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	R	R	R	R	500 U	500 U	500 U	R	R
Ethanol	NE	R	R	R	R	R	500 U	500 U	500 U	R	R
n-Heptane	NE	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-06I	WCMW-06I2	WCMW-07S	WCMW-07I	WCMW-07I2	WCMW-08S	WCMW-08I	WCMW-08I2	WCMW-11S	WCMW-11I
Screened Interval:		19.55-24.55 ft	29.83-34.83 ft	2.76-12.76 ft	18.9-23.9 ft	28.95-33.95 ft	4.2-19.2 ft	19.2-24.2 ft	19.2-24.2 ft	5-15 ft	25-35 ft
Sample Date:		1/16/2012	1/16/2012	1/16/2012	1/16/2012	1/16/2012	3/16/2012	3/16/2012	3/16/2012	1/13/2012	1/13/2012
Parent Sample:											
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**8**	1 U
Methyl tert-butyl ether	10*	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**590 J**	**23 J**
2-Propanol (Isopropyl Alcohol)	NE	R	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4**	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ
Tetrahydrofuran	50*	**560**	**190**	**34**	**5 J**	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**40**	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**21**	1 U
2,2,4-Trimethylpentane	NE	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)											
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**23**	**7**
Acenaphthylene	NE	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
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
Fluoranthene	50*	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	**8**	**9**
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**44**	**4 J**
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**290**	**10**
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**9**	**31**
Pyrene	50*	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	**375**	**61**
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
Benzo[a]pyrene	ND	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
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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-06I	WCMW-06I2	WCMW-07S	WCMW-07I	WCMW-07I2	WCMW-08S	WCMW-08I	WCMW-08I2	WCMW-11S	WCMW-11I
Screened Interval:		19.55-24.55 ft	29.83-34.83 ft	2.76-12.76 ft	18.9-23.9 ft	28.95-33.95 ft	4.2-19.2 ft	19.2-24.2 ft	19.2-24.2 ft	5-15 ft	25-35 ft
Sample Date:		1/16/2012	1/16/2012	1/16/2012	1/16/2012	1/16/2012	3/16/2012	3/16/2012	3/16/2012	1/13/2012	1/13/2012
Parent Sample:											
Total PAHs (µg/L)											
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	**375**	**61**
Other SVOCs (µg/L)											
Benzyl alcohol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	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
Bis(2-chloroethoxy)methane	5	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
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	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
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	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
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)											
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	**88700**	**10100**

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-11D	WCMW-12S	WCMW-12I	WCMW-12D	WCMW-13S	WCMW-13I	WCMW-13D	WCMW-14S	WCMW-14I	WCMW-14I2
Screened Interval:		50-60 ft	3-13 ft	25-30 ft	67-72 ft	3-13 ft	25-30 ft	65-70 ft	2-12 ft	20-25 ft	30-35 ft
Sample Date:		1/13/2012	2/1/2012	2/1/2012	2/1/2012	1/13/2012	1/13/2012	1/13/2012	1/16/2012	1/16/2012	1/16/2012
Parent Sample:											
BTEX (µg/L)											
Benzene	1	1 U	1 U	1 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	**4**	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	**6**	1 U	1 U	**1**	1 U	1 U
Total BTEX	NE	ND	ND	ND	ND	**17**	ND	ND	**1**	ND	ND
Other VOCs (µg/L)											
Acetaldehyde	8*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Acetone	50*	5 UJ	5 U	5 U	**1 J**	5 U	5 U	5 U	5 UJ	5 UJ	5 UJ
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
1,1-Dichloroethane	5	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	500 U	500 U	500 U	R	R	R	R	R	R
Ethanol	NE	R	500 U	500 U	500 U	R	R	R	R	R	R
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-11D	WCMW-12S	WCMW-12I	WCMW-12D	WCMW-13S	WCMW-13I	WCMW-13D	WCMW-14S	WCMW-14I	WCMW-14I2
Screened Interval:		50-60 ft	3-13 ft	25-30 ft	67-72 ft	3-13 ft	25-30 ft	65-70 ft	2-12 ft	20-25 ft	30-35 ft
Sample Date:		1/13/2012	2/1/2012	2/1/2012	2/1/2012	1/13/2012	1/13/2012	1/13/2012	1/16/2012	1/16/2012	1/16/2012
Parent Sample:											
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	**3**	1 U	1 U	**2**	1 U	1 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	**3**	10 U	10 U	10 U	10 U	**1 J**
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 U	1 U	1 U	**220 J**	1 UJ	1 UJ	3 UJ	**13 J**	1 U
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	**4 J**	**8 J**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	**17**	1 U	1 U	**14**	1 U	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	1 U	1 U	1 U	**3**	1 U	1 U	**2**	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)											
Acenaphthene	20*	10 U	10 U	10 U	10 U	**38**	10 U	10 U	**72**	**9**	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	**54**	10 U	10 U	**12**	**28**	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	**9**	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	**17**	10 U	10 U	**2 J**	**23**	10 U
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**35**	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	**87**	10 U	10 U	**1 J**	**5**	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	**30**	10 U	10 U	**44**	**24**	10 U
Pyrene	50*	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	**2 J**	**1 J**	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	**1**	ND	**229**	ND	ND	**143**	**125**	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
Benzo[a]pyrene	ND	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
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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-11D	WCMW-12S	WCMW-12I	WCMW-12D	WCMW-13S	WCMW-13I	WCMW-13D	WCMW-14S	WCMW-14I	WCMW-14I2
Screened Interval:		50-60 ft	3-13 ft	25-30 ft	67-72 ft	3-13 ft	25-30 ft	65-70 ft	2-12 ft	20-25 ft	30-35 ft
Sample Date:		1/13/2012	2/1/2012	2/1/2012	2/1/2012	1/13/2012	1/13/2012	1/13/2012	1/16/2012	1/16/2012	1/16/2012
Parent Sample:											
Total PAHs (µg/L)											
Total PAHs	NE	ND	ND	**1**	ND	**229**	ND	ND	**143**	**125**	ND
Other SVOCs (µg/L)											
Benzyl alcohol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	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
Bis(2-chloroethoxy)methane	5	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
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	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
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	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
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)											
Sulfate	250000	**48900**	NA	NA	NA	NA	NA	NA	**37100**	**68800**	**35600**

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-14D	WCMW-19S	WCMW-19I	WCMW-19I2	WCMW-22S	WCMW-22I	WCMW-25I	WCMW-25D	WCMW-26S	WCMW-26I
Screened Interval:		67-72 ft	2-12 ft	20-25 ft	30-35 ft	2-12 ft	25-30 ft	30-35 ft	55-60 ft	2-12 ft	20-25 ft
Sample Date:		1/16/2012	1/12/2012	1/13/2012	1/12/2012	3/5/2012	3/5/2012	1/11/2012	1/11/2012	1/13/2012	1/13/2012
Parent Sample:											
BTEX (µg/L)											
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**31**	1 U
m,p-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**12**	1 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	**45**	ND
Other VOCs (µg/L)											
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	6 UJ	5 UJ
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2-Butanone (Methyl ethyl ketone)	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4**	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	**3**	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	R	R	R	500 U	500 U	R	R	R	R
Ethanol	NE	R	R	R	R	500 U	500 U	R	R	R	R
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-14D	WCMW-19S	WCMW-19I	WCMW-19I2	WCMW-22S	WCMW-22I	WCMW-25I	WCMW-25D	WCMW-26S	WCMW-26I
Screened Interval:		67-72 ft	2-12 ft	20-25 ft	30-35 ft	2-12 ft	25-30 ft	30-35 ft	55-60 ft	2-12 ft	20-25 ft
Sample Date:		1/16/2012	1/12/2012	1/13/2012	1/12/2012	3/5/2012	3/5/2012	1/11/2012	1/11/2012	1/13/2012	1/13/2012
Parent Sample:											
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**8**	1 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	1 UJ	1 UJ	1 UJ	**2**	1 U	1 UJ	1 UJ	**420 J**	1 U
2-Propanol (Isopropyl Alcohol)	NE	R	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4**	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ
Tetrahydrofuran	50*	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**48**	1 U
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**19**	1 U
2,2,4-Trimethylpentane	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)											
Acenaphthene	20*	10 U	10 U	10 U	10 U	**15**	10 U	10 U	10 U	**66**	**1 J**
Acenaphthylene	NE	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	**4 J**	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	**1 J**	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	**12**	10 U	10 U	10 U	**24**	**2 J**
2-Methylnaphthalene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**21**	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**210**	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	**23**	10 U	10 U	10 U	**26**	**4 J**
Pyrene	50*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	**59**	ND	ND	ND	**352**	**7**
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
Benzo[a]pyrene	ND	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
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
Chrysene	0.002*	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
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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-14D	WCMW-19S	WCMW-19I	WCMW-19I2	WCMW-22S	WCMW-22I	WCMW-25I	WCMW-25D	WCMW-26S	WCMW-26I
Screened Interval:		67-72 ft	2-12 ft	20-25 ft	30-35 ft	2-12 ft	25-30 ft	30-35 ft	55-60 ft	2-12 ft	20-25 ft
Sample Date:		1/16/2012	1/12/2012	1/13/2012	1/12/2012	3/5/2012	3/5/2012	1/11/2012	1/11/2012	1/13/2012	1/13/2012
Parent Sample:											
Total PAHs (µg/L)											
Total PAHs	NE	ND	ND	ND	ND	**59**	ND	ND	ND	**352**	**7**
Other SVOCs (µg/L)											
Benzyl alcohol	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	**2 J**	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	**1 J**	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
2,4-Dimethylphenol	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	25 UJ	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
2,6-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
N-Nitrosodimethylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
Other (µg/L)											
Sulfate	250000	**6260**	NA	NA	NA	NA	NA	**40900**	**129000**	NA	NA

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-26I2	WCMW-29S	WCMW-29I	WCMW-30S	WCMW-30I	WCMW-30I2	WCMW-31S	WCMW-31I	WCMW-31I2	WCMW-32S
Screened Interval:		30-35 ft	2-12 ft	20-25 ft	2-12 ft	20-25 ft	30-35 ft	2-12 ft	20-25 ft	30-35 ft	2-12 ft
Sample Date:		1/13/2012	1/13/2012	1/13/2012	2/1/2012	2/1/2012	2/1/2012	1/31/2012	1/31/2012	1/31/2012	1/31/2012
Parent Sample:											
BTEX (µg/L)											
Benzene	1	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	**100**	1 U	1 U	**4**	1 U	**2**	1 U	1 U	1 U
m,p-Xylene	5	1 U	**10**	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	**39**	1 U	1 U	**4**	1 U	**1**	1 U	1 U	1 U
Total BTEX	NE	ND	**152**	ND	ND	**10**	ND	**3**	ND	ND	ND
Other VOCs (µg/L)											
Acetaldehyde	8*	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50*	5 UJ	25 UJ	5 UJ	5 U	**2 J**	**5**	**3 J**	**5**	5 U	5 U
Acrylonitrile	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride (Chloropropene,3-)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Butadiene	NE	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl ethyl ketone)	50*	5 U	**5**	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether	NE	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cryofluorane (Freon-114)	NE	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-dichloro-2-butene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	0.07	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NE	R	R	R	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Ethanol	NE	R	R	R	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Heptane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-26I2	WCMW-29S	WCMW-29I	WCMW-30S	WCMW-30I	WCMW-30I2	WCMW-31S	WCMW-31I	WCMW-31I2	WCMW-32S
Screened Interval:		30-35 ft	2-12 ft	20-25 ft	2-12 ft	20-25 ft	30-35 ft	2-12 ft	20-25 ft	30-35 ft	2-12 ft
Sample Date:		1/13/2012	1/13/2012	1/13/2012	2/1/2012	2/1/2012	2/1/2012	1/31/2012	1/31/2012	1/31/2012	1/31/2012
Parent Sample:											
Iodomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropyl benzene	5	1 U	**16**	1 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	10*	1 U	**2500 J**	**6 J**	1 U	**270 D**	**3**	**120**	**30**	**2**	**31**
2-Propanol (Isopropyl Alcohol)	NE	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
n-Propylbenzene	5	1 U	**6**	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	**120**	1 U	1 U	**21**	1 U	**9**	**2**	1 U	**1**
1,3,5-Trimethylbenzene/P-ethyltoluene	5	1 U	**44**	1 U	1 U	**16**	1 U	**6**	**1**	1 U	1 U
2,2,4-Trimethylpentane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Non-carcinogenic PAHs (µg/L)											
Acenaphthene	20*	10 U	**110**	**2 J**	**9 J**	**100 D**	10 U	**140 D**	**4 J**	**8 J**	**62**
Acenaphthylene	NE	10 U	100 U	10 U	10 U	**5 J**	10 U	**9 J**	10 U	**3 J**	**20**
Anthracene	50*	10 U	100 U	10 U	10 U	**4 J**	10 U	**17**	**2 J**	**7 J**	**18**
Benzo[g,h,i]perylene	NE	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	100 U	10 U	**2 J**	**2 J**	10 U	**9 J**	**8 J**	**4 J**	**8 J**
Fluorene	50*	10 U	**53**	10 U	10 U	**28**	10 U	**42**	10 U	**9 J**	**20**
2-Methylnaphthalene	NE	10 U	**460**	10 U	10 U	**3 J**	10 U	**58**	10 U	**2 J**	**2 J**
Naphthalene	10*	10 U	**1700**	**3 J**	10 U	10 U	10 U	**54**	10 U	**1 J**	**14**
Phenanthrene	50*	**1 J**	**51**	10 U	10 U	**25**	10 U	**77**	**2 J**	**29**	**150 D**
Pyrene	50*	10 U	100 U	10 U	**3 J**	**2 J**	**3 J**	**13**	**11**	**6 J**	**10**
Total Non-carcinogenic PAHs	NE	**1**	**2374**	**5**	**14**	**169**	**3**	**419**	**27**	**69**	**304**
Carcinogenic PAHs (ug/L)											
Benz[a]anthracene	0.002*	10 U	100 U	10 U	10 U	10 U	10 U	**3 J**	**2 J**	10 U	10 U
Benzo[a]pyrene	ND	10 U	100 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	100 U	10 U	10 U	10 U	10 U	**3 J**	**2 J**	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	100 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	100 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	**8**	**4**	ND	ND

Table 4-24
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 4 (OU-4)

Operable Unit:	NYS AWQS	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name:		WCMW-26I2	WCMW-29S	WCMW-29I	WCMW-30S	WCMW-30I	WCMW-30I2	WCMW-31S	WCMW-31I	WCMW-31I2	WCMW-32S
Screened Interval:		30-35 ft	2-12 ft	20-25 ft	2-12 ft	20-25 ft	30-35 ft	2-12 ft	20-25 ft	30-35 ft	2-12 ft
Sample Date:		1/13/2012	1/13/2012	1/13/2012	2/1/2012	2/1/2012	2/1/2012	1/31/2012	1/31/2012	1/31/2012	1/31/2012
Parent Sample:											
Total PAHs (µg/L)											
Total PAHs	NE	**1**	**2374**	**5**	**14**	**169**	**3**	**427**	**31**	**69**	**304**
Other SVOCs (µg/L)											
Benzyl alcohol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	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
Bis(2-chloroethoxy)methane	5	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
4-Bromophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50*	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
4,6-Dinitro-2-methylphenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	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
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other (µg/L)											
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-25
Summary of Total PAH Statistical Trends
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 4 (OU-4)

Well ID	Number of Data Points	Number of Non-Detects	Median Value	Mann-Kendall Statistic (S)	Probability	Trend (At 90% Significant Level)
WCMW-02S	33	13	4	128	0.0403	Increasing
WCMW-02D	24	22	ND	15	0.4340	No Trend
WCMW-04S	46	1	200.5	147	0.1639	No Trend
WCMW-04I	39	3	95	-8	0.9229	No Trend
WCMW-04I2	35	29	ND	101	0.0281	Increasing
WCMW-05S	40	9	7	394	0.0000	Increasing
WCMW-05I	38	0	236	-117	0.1413	No Trend
WCMW-05I2	35	20	ND	133	0.0357	Increasing
WCMW-06S	30	28	ND	-19	0.4300	No Trend
WCMW-06I	28	27	ND	-15	0.3532	No Trend
WCMW-06I2	26	25	ND	-15	0.3173	No Trend
WCMW-11S	19	0	496	9	0.7529	No Trend
WCMW-11I	19	9	1	82	0.0023	Increasing
WCMW-11D	19	17	ND	-1	0.9472	No Trend
WCMW-12S	18	7	2	-63	0.0128	Decreasing
WCMW-12I	18	12	ND	32	0.1455	No Trend
WCMW-12D	18	17	ND	-13	0.2103	No Trend
WCMW-13S	18	12	ND	32	0.1455	No Trend
WCMW-13D	18	17	ND	-11	0.2891	No Trend
WCMW-14S	26	8	4.5	169	0.0002	Increasing
WCMW-14I	26	1	59.5	138	0.0023	Increasing
WCMW-14I2	25	6	18	81	0.0566	Increasing
WCMW-14D	21	20	ND	-8	0.5089	No Trend
WCMW-26S	12	0	287	-12	0.4106	No Trend
WCMW-26I	12	1	46	-23	0.1139	No Trend
WCMW-26I2	12	2	5	-22	0.1296	No Trend

Notes:

ND - Non-Detect

1. A high positive value of the Mann-Kendall Statistic (S) indicates an increasing statistical trend, and a low negative value of S indicates a decreasing statistical trend.
2. A conservative confidence interval of 90% was used to assess statistical trends with an associated error probability of less than 0.10.
3. Shading indicates that the normal approximation used to compute the achieved significance level may be poor.

Notes:

µg/L - micrograms per liter or parts per billion (ppb)
cfu/mL - colony forming units per milliliter
BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
SVOCs - semivolatile organic compounds
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
BTEX and Total PAHs are calculated using detects only

"0" indicates results were below detection limits, and "0" is used instead of "ND" for calculation purposes.

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

Historic Minimum, Maximum and Mean calculations do not include data from the current quarter.
During the First and Second Quarter 2003 sampling events, select wells were sampled via bladder pump and peristaltic pump. In these cases, peristaltic pump results are shown on the table.
Some wells were sampled more than once during the quarter. Total BTEX and Total PAHs concentrations reported this quarter represent the sample collected closest to the end of the quarter or most recent sample which were analyzed for both BTEX and PAHs.

-- not analyzed or not applicable
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

Data qualifiers:
* - Duplicate analysis not within control limits
B - analyte detected in the associated method blank
D - results for dilution
E - value above quantitation range
J - estimated value
N - analyte is presumptively present
R - rejected result
U - not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU1SG-6	OU1SG-7	OU1SG-9	OU2SG-01	OU2SG-02	OU2SG-03	OU2SG-04	OU2SG-5	OU2SG-06
Sample Date:		3/12/2012	3/12/2012	3/27/2012	3/19/2012	3/19/2012	3/19/2012	3/19/2012	3/21/2012	3/22/2012
Parent Sample Code:										
BTEX (µg/m^3)										
Benzene	5.8	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Toluene	21	1.51 U	**0.784 J**	**0.701 J**	1.51 U	1.51 U	1.51 U	1.51 U	1.51 U	1.51 U
Ethylbenzene	1.9	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
m,p-Xylene	3.1	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U
o-Xylene	2.5	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Other VOCs (µg/m^3)										
Acetaldehyde	NE	**3.80 J**	**3.35 J**	**5.06 J**	**7.01 J**	**9.01**	**4.63 J**	**5.17 J**	**3.53 J**	**4.83 J**
Acetone	58	**3.40 J**	**3.90 J**	**5.27**	**6.08**	**5.25**	**3.28 JB**	**4.46 J**	**2.83 J**	**4.44 J**
Acrolein (propenal)	NE	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U
Allyl chloride (Chloropropene,3-)	NE	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U
Benzothiophene	NE	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U
Bromodichloromethane	NE	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U
Bromoform	NE	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U
Bromomethane	0.9	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U
1,3-Butadiene	NE	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U
Butane	NE	0.951 U	**0.371 J**	**0.304 J**	0.951 U	0.951 U	**0.352 J**	0.951 U	0.951 U	0.951 U
2-Butanone (Methyl ethyl ketone)	17	**0.472 J**	1.18 U	**0.784 J**	**1.33**	**0.720 J**	1.18 U	1.18 U	1.18 U	**0.436 J**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U
Carbon disulfide	NE	**0.417 J**	**2.24**	**0.224 J**	**0.268 J**	**0.268 J**	1.24 U	**0.604 J**	**0.243 J**	1.24 U
Carbon tetrachloride	1	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U
Chlorobenzene	0.25	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
Chloroethane	0.4	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U
Chloroform	0.5	1.95 U	**0.478 J**	1.95 U	**0.459 J**	**0.596 J**	**1.37 J**	**1.10 J**	**3.01**	1.95 U
Chloromethane	4.6	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U
2-Chlorotoluene	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Cryofluorane (Freon-114)	1.3	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U
Cyclohexane	3	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U
n-Decane	3.6	2.33 U	2.33 U	**0.861 J**	2.33 U	2.33 U	2.33 U	2.33 U	**1.23 J**	2.33 U
Dibromochloromethane	NE	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U
1,2-Dibromoethane	0.25	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U
1,2-Dichlorobenzene	0.9	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
1,3-Dichlorobenzene	0.7	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
1,4-Dichlorobenzene	0.8	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
Dichlorodifluoromethane	11	**2.22**	**2.38**	**2.45**	**2.31**	**2.29**	**2.27**	**2.41**	**2.33**	**2.02**
1,1-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
1,2-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
cis-1,2-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
1,1-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
trans-1,2-Dichloroethene	NE	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
1,2-Dichloropropane	0.25	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U
cis-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
trans-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
1,4-Dioxane	NE	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
n-Dodecane	7.6	2.79 U	2.79 U	6.96 U	6.96 U	6.96 U	6.96 U	6.96 U	**1.96 J**	6.96 U
Ethanol	220	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U
2-Ethylthiophene	NE	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
p-Ethyltoluene	NE	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
n-Heptane	5.1	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Hexachlorobutadiene	7	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U
n-Hexane	3.6	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U
2-Hexanone	NE	1.64 U	1.64 U	**0.574 J**	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Indane	NE	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U
Indene	NE	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU1SG-6	OU1SG-7	OU1SG-9	OU2SG-01	OU2SG-02	OU2SG-03	OU2SG-04	OU2SG-5	OU2SG-06
Sample Date:		3/12/2012	3/12/2012	3/27/2012	3/19/2012	3/19/2012	3/19/2012	3/19/2012	3/21/2012	3/22/2012
Parent Sample Code:										
Methyl tert-butyl ether	5.9	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
4-Methyl-2-pentanone	2.9	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Methylene chloride	2.9	6.95 U	6.95 U	6.95 U	6.95 U	6.95 U	6.95 U	6.95 U	6.95 U	6.95 U
1-Methylnaphthalene	NE	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U
2-Methylnaphthalene	NE	29.1 U	29.1 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U
2-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
3-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
Naphthalene	10	2.10 U	2.10 U	2.10 U	**0.797 J**	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
Nonane	1.2	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
n-Octane	2.1	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
Pentane	NE	1.18 U	**0.354 J**	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U
2-Propanol (Isopropyl Alcohol)	NE	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U
Styrene	0.6	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
1,1,2,2-Tetrachloroethane	0.25	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U
Tetrachloroethene	1.6	**10.8**	**3.72**	**1.21 J**	2.71 U	2.71 U	2.71 U	2.71 U	2.71 U	2.71 U
1,2,4,5-Tetramethylbenzene	NE	2.20 U	2.20 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U
Thiophene	NE	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	3.6	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U
1,2,4-Trichlorobenzene	4.8	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U
1,1,1-Trichloroethane	0.7	2.18 U	2.18 U	**4.11**	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U
1,1,2-Trichloroethane	0.25	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U
Trichloroethene	0.5	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U
Trichlorofluoromethane	6.1	**1.38 J**	**1.29 J**	**1.43 J**	**1.16 J**	**1.18 J**	**2.06 J**	**1.33 J**	**1.30 J**	**1.40 J**
1,2,3-Trimethylbenzene	0.6	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,2,4-Trimethylbenzene	2.5	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,3,5-Trimethylbenzene	1	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
2,2,4-Trimethylpentane	2	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
n-Undecane	2.3	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U
Vinyl bromide	NE	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U
Vinyl chloride	0.25	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U
Other (%)										
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Helium	NE	0.017 U	0.018 U	**0.329**	**0.211**	**0.223**	**2.40**	**0.185**	**0.567**	**0.083**

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2SG-7	OU2SG-08	OU2SG-09	OU2SG-10	OU2SG-11	OU2SG-12	OU2SG-13	OU2SG-14	OU2SG-16
Sample Date:		3/12/2012	3/19/2012	3/19/2012	3/21/2012	3/12/2012	3/27/2012	3/12/2012	3/15/2012	3/12/2012
Parent Sample Code:										
BTEX (µg/m^3)										
Benzene	5.8	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Toluene	21	1.51 U	1.51 U	1.51 U	1.51 U	**0.497 J**	1.51 U	1.51 U	1.51 U	**0.746 J**
Ethylbenzene	1.9	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
m,p-Xylene	3.1	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U
o-Xylene	2.5	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Other VOCs (µg/m^3)										
Acetaldehyde	NE	**3.53 J**	**3.82 J**	**3.33 J**	**4.72 J**	**2.65 J**	9.01 U	9.01 U	**2.58 J**	**6.38 J**
Acetone	58	**2.59 J**	**3.21 JB**	**3.04 JB**	**2.87 J**	**2.00 J**	**3.37 J**	**1.64 JB**	**1.93 J**	**4.39 J**
Acrolein (propenal)	NE	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U
Allyl chloride (Chloropropene,3-)	NE	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U
Benzothiophene	NE	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U
Bromodichloromethane	NE	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	**1.49 J**	2.68 U	2.68 U	2.68 U
Bromoform	NE	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U
Bromomethane	0.9	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U
1,3-Butadiene	NE	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U
Butane	NE	0.951 U	0.951 U	0.951 U	0.951 U	**1.04**	0.951 U	0.951 U	0.951 U	**1.50**
2-Butanone (Methyl ethyl ketone)	17	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	**0.507 J**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U
Carbon disulfide	NE	**0.318 J**	1.24 U	**0.355 J**	1.24 U	**0.330 J**	1.24 U	**0.604 J**	**0.237 J**	**1.22 J**
Carbon tetrachloride	1	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U
Chlorobenzene	0.25	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
Chloroethane	0.4	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U
Chloroform	0.5	**121**	**0.772 J**	**0.928 J**	**8.69**	1.95 U	**44.7**	**1.21 J**	**1.05 J**	**0.488 J**
Chloromethane	4.6	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U
2-Chlorotoluene	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Cryofluorane (Freon-114)	1.3	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U
Cyclohexane	3	1.38 U	1.38 U	1.38 U	1.38 U	**0.998 J**	1.38 U	1.38 U	1.38 U	**3.10**
n-Decane	3.6	2.33 U	2.33 U	2.33 U	**0.675 J**	2.33 U	**0.768 J**	2.33 U	2.33 U	2.33 U
Dibromochloromethane	NE	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U
1,2-Dibromoethane	0.25	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U
1,2-Dichlorobenzene	0.9	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
1,3-Dichlorobenzene	0.7	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
1,4-Dichlorobenzene	0.8	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	**0.637 J**
Dichlorodifluoromethane	11	**3.94**	**2.26**	**1.08 J**	**2.31**	**2.35**	**1.28 J**	**2.29**	**2.42**	**2.35**
1,1-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
1,2-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
cis-1,2-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
1,1-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
trans-1,2-Dichloroethene	NE	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
1,2-Dichloropropane	0.25	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U
cis-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
trans-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
1,4-Dioxane	NE	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
n-Dodecane	7.6	2.79 U	6.96 U	6.96 U	6.96 U	2.79 U	**1.56 J**	2.79 U	2.79 U	2.79 U
Ethanol	220	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U
2-Ethylthiophene	NE	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
p-Ethyltoluene	NE	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
n-Heptane	5.1	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Hexachlorobutadiene	7	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U
n-Hexane	3.6	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U
2-Hexanone	NE	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Indane	NE	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U
Indene	NE	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2SG-7	OU2SG-08	OU2SG-09	OU2SG-10	OU2SG-11	OU2SG-12	OU2SG-13	OU2SG-14	OU2SG-16
Sample Date:		3/12/2012	3/19/2012	3/19/2012	3/21/2012	3/12/2012	3/27/2012	3/12/2012	3/15/2012	3/12/2012
Parent Sample Code:										
Methyl tert-butyl ether	5.9	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
4-Methyl-2-pentanone	2.9	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Methylene chloride	2.9	**2.44 J**	6.95 U	**3.08 J**	6.95 U	**4.10 J**	6.95 U	6.95 U	6.95 U	6.95 U
1-Methylnaphthalene	NE	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U
2-Methylnaphthalene	NE	29.1 U	11.6 U	11.6 U	11.6 U	29.1 U	11.6 U	29.1 U	29.1 U	29.1 U
2-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
3-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
Naphthalene	10	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
Nonane	1.2	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
n-Octane	2.1	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
Pentane	NE	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	**0.921 J**
2-Propanol (Isopropyl Alcohol)	NE	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	**0.698 J**
Styrene	0.6	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
1,1,2,2-Tetrachloroethane	0.25	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U
Tetrachloroethene	1.6	**7.39**	2.71 U	2.71 U	2.71 U	2.71 U	**2.96**	2.71 U	2.71 U	**2.32 J**
1,2,4,5-Tetramethylbenzene	NE	2.20 U	5.49 U	5.49 U	5.49 U	2.20 U	5.49 U	2.20 U	2.20 U	2.20 U
Thiophene	NE	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	3.6	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U	**4.48**	3.06 U	3.06 U	3.06 U
1,2,4-Trichlorobenzene	4.8	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U
1,1,1-Trichloroethane	0.7	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	**0.731 J**	2.18 U	2.18 U	2.18 U
1,1,2-Trichloroethane	0.25	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U
Trichloroethene	0.5	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U
Trichlorofluoromethane	6.1	**1.10 J**	**1.19 J**	**1.22 J**	**1.61 J**	**1.22 J**	**13.5**	**1.19 J**	**1.15 J**	**1.28 J**
1,2,3-Trimethylbenzene	0.6	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,2,4-Trimethylbenzene	2.5	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,3,5-Trimethylbenzene	1	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
2,2,4-Trimethylpentane	2	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
n-Undecane	2.3	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U
Vinyl bromide	NE	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U
Vinyl chloride	0.25	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U
Other (%)										
Carbon dioxide	NE	NA	NA	NA	NA	**5.43**	**4.34**	NA	NA	NA
Helium	NE	0.016 U	**0.281**	**0.131**	**0.294**	0.016 U	**0.189**	**0.021**	0.016 U	0.019 U

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2SG-18	OU2SG-19	OU2SG-20	OU2SG-21	OU2SG-22	OU2SG-23	BSSV-DUP03	OU2SG-24	OU2SG-25
Sample Date:		3/12/2012	3/20/2012	3/20/2012	3/20/2012	3/27/2012	3/27/2012	3/27/2012	3/22/2012	3/22/2012
Parent Sample Code:								OU2SG-23		
BTEX (µg/m^3)										
Benzene	5.8	1.28 U	1.28 U	1.28 U	**0.556 J**	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Toluene	21	**0.678 J**	**2.02**	1.51 U	**0.950 J**	**2.84**	1.51 U	1.51 U	1.51 U	**0.505 J**
Ethylbenzene	1.9	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
m,p-Xylene	3.1	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U
o-Xylene	2.5	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Other VOCs (µg/m^3)										
Acetaldehyde	NE	**4.7 J**	9.01 U	**2.92 J**	9.01 U	**3.32 J**	**5.19 J**	**4.09 J**	**6.47 J**	9.01 U
Acetone	58	4.75 U	6.84 U	4.77 U	5.30 U	**3.35 J**	**6.25**	**3.23 J**	**6.13**	**6.98**
Acrolein (propenal)	NE	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U
Allyl chloride (Chloropropene,3-)	NE	1.25 U	1.25 UJ	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U
Benzothiophene	NE	5.49 U	5.49 U	5.49 UJ	5.49 UJ	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U
Bromodichloromethane	NE	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U
Bromoform	NE	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U
Bromomethane	0.9	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U
1,3-Butadiene	NE	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U
Butane	NE	0.951 U	0.951 U	**0.756 J**	**4.28**	**0.300 J**	0.951 U	0.951 U	0.951 U	**0.356 J**
2-Butanone (Methyl ethyl ketone)	17	1.18 U	**0.891 J**	1.18 U	**0.684 J**	1.18 U	1.18 U	1.18 U	**0.920 J**	**1.13 J**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	1.21 U	**0.752 J**	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U
Carbon disulfide	NE	**5.2**	1.24 U	1.24 U	**1.65**	**2.53**	1.24 U	1.24 U	1.24 U	1.24 U
Carbon tetrachloride	1	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U
Chlorobenzene	0.25	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
Chloroethane	0.4	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U
Chloroform	0.5	1.95 U	**1.47 J**	**1.15 J**	**0.996 J**	**2.21**	**0.625 J**	**0.713 J**	**1.51 J**	**0.518 J**
Chloromethane	4.6	0.826 U	**0.413 J**	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U
2-Chlorotoluene	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Cryofluorane (Freon-114)	1.3	2.8 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U
Cyclohexane	3	**0.805 J**	1.38 U	1.38 U	1.38 U	**3.04**	1.38 U	1.38 U	1.38 U	1.38 U
n-Decane	3.6	2.33 U	2.33 U	2.33 U	**14.1**	2.33 U	2.33 U	**0.628 J**	2.33 U	2.33 U
Dibromochloromethane	NE	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U
1,2-Dibromoethane	0.25	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U
1,2-Dichlorobenzene	0.9	2.4 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
1,3-Dichlorobenzene	0.7	2.4 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
1,4-Dichlorobenzene	0.8	2.4 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
Dichlorodifluoromethane	11	**2.48**	**1.14 J**	**2.60**	**3.88**	**1.16 J**	**2.18**	**2.24**	**1.08 J**	**0.732 J**
1,1-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
1,2-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
cis-1,2-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
1,1-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
trans-1,2-Dichloroethene	NE	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
1,2-Dichloropropane	0.25	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U
cis-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
trans-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
1,4-Dioxane	NE	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
n-Dodecane	7.6	2.79 U	6.96 U	6.96 U	6.96 U	6.96 U	6.96 U	**1.31 J**	6.96 U	6.96 U
Ethanol	220	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U
2-Ethylthiophene	NE	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
p-Ethyltoluene	NE	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
n-Heptane	5.1	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Hexachlorobutadiene	7	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U
n-Hexane	3.6	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U
2-Hexanone	NE	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Indane	NE	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U
Indene	NE	1.9 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2SG-18	OU2SG-19	OU2SG-20	OU2SG-21	OU2SG-22	OU2SG-23	BSSV-DUP03	OU2SG-24	OU2SG-25
Sample Date:		3/12/2012	3/20/2012	3/20/2012	3/20/2012	3/27/2012	3/27/2012	3/27/2012	3/22/2012	3/22/2012
Parent Sample Code:								OU2SG-23		
Methyl tert-butyl ether	5.9	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
4-Methyl-2-pentanone	2.9	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Methylene chloride	2.9	**3.22 J**	**7.09**	6.95 U	**2.10 J**	6.95 U	6.95 U	6.95 U	6.95 U	6.95 U
1-Methylnaphthalene	NE	11.6 U	11.6 U	11.6 UJ	11.6 UJ	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U
2-Methylnaphthalene	NE	29.1 U	11.6 U	11.6 UJ	11.6 UJ	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U
2-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
3-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
Naphthalene	10	2.1 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
Nonane	1.2	2.1 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
n-Octane	2.1	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
Pentane	NE	**0.307 J**	1.18 U	1.18 U	**0.555 J**	1.18 U	1.18 U	1.18 U	1.18 U	**0.443 J**
2-Propanol (Isopropyl Alcohol)	NE	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U
Styrene	0.6	1.7 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
1,1,2,2-Tetrachloroethane	0.25	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U
Tetrachloroethene	1.6	**2.44 J**	**2.60 J**	2.71 U	2.71 U	2.71 U	2.71 U	2.71 U	2.71 U	2.71 U
1,2,4,5-Tetramethylbenzene	NE	2.2 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U
Thiophene	NE	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	3.6	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U	**4.20**
1,2,4-Trichlorobenzene	4.8	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U
1,1,1-Trichloroethane	0.7	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U
1,1,2-Trichloroethane	0.25	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U
Trichloroethene	0.5	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	**1.08 J**	2.15 U
Trichlorofluoromethane	6.1	**1.15 J**	**0.865 J**	**1.54 J**	**3.53**	**0.910 J**	**1.07 J**	**1.14 J**	**1.37 J**	**0.820 J**
1,2,3-Trimethylbenzene	0.6	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,2,4-Trimethylbenzene	2.5	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,3,5-Trimethylbenzene	1	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
2,2,4-Trimethylpentane	2	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
n-Undecane	2.3	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U
Vinyl bromide	NE	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U
Vinyl chloride	0.25	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U
Other (%)										
Carbon dioxide	NE	NA	**7.73**	**0.616**	NA	**1.20**	NA	NA	**1.89**	**7.96**
Helium	NE	0.016 U	**0.359**	**0.164**	**0.648**	**0.166**	**0.182**	**0.170**	**0.199**	**0.359**

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2SG-26	BSSV-DUP02	OU2SG-28	OU2SG-29	OU2SG-30	OU2SG-31	OU2SG-32	BSSV-DUP-01	OU2SG-33
Sample Date:		3/22/2012	3/22/2012	3/20/2012	3/22/2012	3/22/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
Parent Sample Code:			OU2SG-26						OU2SG-32	
BTEX (µg/m^3)										
Benzene	5.8	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 UJ	1.28 U	**11.5**
Toluene	21	**1.20 J**	**0.716 J**	**0.874 J**	1.51 U	**0.814 J**	1.51 U	1.51 UJ	1.51 U	**30.7**
Ethylbenzene	1.9	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 UJ	1.74 U	8.69 U
m,p-Xylene	3.1	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 UJ	3.47 U	17.4 U
o-Xylene	2.5	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 UJ	1.74 U	8.69 U
Other VOCs (µg/m^3)										
Acetaldehyde	NE	**27.7**	**6.40 J**	**3.22 J**	**5.84 J**	**21.2**	**4.90 J**	9.01 UJ	9.01 U	45.0 UJ
Acetone	58	**15.7**	**4.04 J**	3.06 U	**4.77**	**7.60**	5.42 U	7.06 UJ	**11.1**	**1060**
Acrolein (propenal)	NE	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 UJ	2.29 U	11.5 U
Allyl chloride (Chloropropene,3-)	NE	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 UJ	1.25 UJ	6.26 U
Benzothiophene	NE	5.49 U	5.49 U	5.49 UJ	5.49 U	5.49 U	5.49 UJ	5.49 UJ	5.49 U	27.4 UJ
Bromodichloromethane	NE	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 UJ	2.68 U	13.4 U
Bromoform	NE	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 UJ	4.14 U	20.7 U
Bromomethane	0.9	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 UJ	1.55 U	7.77 U
1,3-Butadiene	NE	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 UJ	0.885 U	4.42 U
Butane	NE	**0.704 J**	0.951 U	0.951 U	**0.394 J**	**0.856 J**	0.951 U	**0.423 J**	**0.841 J**	**16700**
2-Butanone (Methyl ethyl ketone)	17	**1.36**	1.18 U	1.18 U	1.18 U	**0.696 J**	1.18 U	**0.625 J**	**3.33 J**	**139**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 UJ	1.21 U	6.06 U
Carbon disulfide	NE	**0.249 J**	1.24 U	1.24 U	1.24 U	1.24 U	**0.293 J**	1.24 UJ	1.24 U	**1.06 J**
Carbon tetrachloride	1	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 UJ	2.52 U	12.6 U
Chlorobenzene	0.25	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 UJ	1.84 U	9.21 U
Chloroethane	0.4	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 UJ	1.06 U	5.28 U
Chloroform	0.5	1.95 U	**0.918 J**	**1.91 J**	1.95 U	1.95 U	**0.996 J**	**3.85 J**	**3.31**	9.77 U
Chloromethane	4.6	**0.446 J**	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 UJ	0.826 U	4.13 U
2-Chlorotoluene	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 UJ	2.07 U	10.4 U
Cryofluorane (Freon-114)	1.3	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 UJ	2.80 U	14.0 U
Cyclohexane	3	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 UJ	1.38 U	**743**
n-Decane	3.6	**0.628 J**	**7.74**	**0.663 J**	2.33 U	2.33 U	2.33 U	2.33 UJ	2.33 U	11.6 U
Dibromochloromethane	NE	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 UJ	3.41 U	17.0 U
1,2-Dibromoethane	0.25	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 UJ	3.07 U	15.4 U
1,2-Dichlorobenzene	0.9	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 UJ	2.40 U	12.0 U
1,3-Dichlorobenzene	0.7	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 UJ	2.40 U	12.0 U
1,4-Dichlorobenzene	0.8	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 UJ	2.40 U	12.0 U
Dichlorodifluoromethane	11	**1.07 J**	**1.05 J**	**1.61 J**	**2.38**	**1.76 J**	**1.63 J**	**0.940 J**	**0.940 J**	9.89 U
1,1-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 UJ	1.62 U	8.09 U
1,2-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 UJ	1.62 U	8.09 U
cis-1,2-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 UJ	1.58 U	7.93 U
1,1-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 UJ	1.58 U	7.93 U
trans-1,2-Dichloroethene	NE	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 UJ	1.58 U	7.93 U
1,2-Dichloropropane	0.25	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 UJ	1.85 U	9.24 U
cis-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 UJ	1.82 U	9.08 U
trans-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 UJ	1.82 U	9.08 U
1,4-Dioxane	NE	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 UJ	1.44 U	7.21 U
n-Dodecane	7.6	**2.97 J**	6.96 U	6.96 U	6.96 U	6.96 U	6.96 U	6.96 UJ	**4.32 J**	34.8 U
Ethanol	220	**3.03 J**	3.77 U	3.77 U	3.77 U	**2.18 J**	3.77 U	3.77 UJ	**2.98 J**	18.8 U
2-Ethylthiophene	NE	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 UJ	1.84 U	9.18 U
p-Ethyltoluene	NE	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 UJ	1.97 U	9.83 U
n-Heptane	5.1	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 UJ	**0.688 J**	**74.6**
Hexachlorobutadiene	7	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 UJ	4.27 U	21.3 U
n-Hexane	3.6	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 UJ	**0.860 J**	**807**
2-Hexanone	NE	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 UJ	**0.606 J**	8.20 U
Indane	NE	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 UJ	1.93 U	9.67 U
Indene	NE	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 UJ	1.90 U	9.50 U

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2SG-26	BSSV-DUP02	OU2SG-28	OU2SG-29	OU2SG-30	OU2SG-31	OU2SG-32	BSSV-DUP-01	OU2SG-33
Sample Date:		3/22/2012	3/22/2012	3/20/2012	3/22/2012	3/22/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
Parent Sample Code:			OU2SG-26						OU2SG-32	
Methyl tert-butyl ether	5.9	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 UJ	1.44 U	7.21 U
4-Methyl-2-pentanone	2.9	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 UJ	**1.38 J**	8.20 U
Methylene chloride	2.9	6.95 U	6.95 U	6.95 U	6.95 U	6.95 U	6.95 U	**2.48 J**	**5.28 J**	34.7 U
1-Methylnaphthalene	NE	11.6 U	11.6 U	11.6 UJ	11.6 U	11.6 U	11.6 UJ	11.6 UJ	11.6 U	58.2 UJ
2-Methylnaphthalene	NE	11.6 U	11.6 U	11.6 UJ	11.6 U	11.6 U	11.6 UJ	11.6 UJ	11.6 U	58.2 UJ
2-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 UJ	1.61 U	8.03 U
3-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 UJ	1.61 U	8.03 U
Naphthalene	10	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 UJ	2.10 U	10.5 U
Nonane	1.2	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 UJ	2.10 U	10.5 U
n-Octane	2.1	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 UJ	1.87 U	**3.32 J**
Pentane	NE	**0.566 J**	1.18 U	1.18 U	1.18 U	**0.631 J**	1.18 U	1.18 UJ	**0.779 J**	**3900**
2-Propanol (Isopropyl Alcohol)	NE	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 UJ	2.46 U	**241**
Styrene	0.6	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 UJ	1.70 U	8.52 U
1,1,2,2-Tetrachloroethane	0.25	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 UJ	2.75 U	13.7 U
Tetrachloroethene	1.6	2.71 U	**2.96**	2.71 U	2.71 U	**3.76**	2.71 U	2.71 UJ	2.71 U	13.6 U
1,2,4,5-Tetramethylbenzene	NE	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 UJ	5.49 U	27.4 U
Thiophene	NE	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 UJ	1.38 U	6.88 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	3.6	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U	3.06 UJ	3.06 U	15.3 U
1,2,4-Trichlorobenzene	4.8	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 UJ	2.97 U	14.8 U
1,1,1-Trichloroethane	0.7	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 UJ	2.18 U	10.9 U
1,1,2-Trichloroethane	0.25	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 UJ	2.18 U	10.9 U
Trichloroethene	0.5	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 UJ	2.15 U	10.7 U
Trichlorofluoromethane	6.1	**0.809 J**	**0.607 J**	**1.38 J**	**1.26 J**	**1.28 J**	**1.27 J**	**0.899 J**	**0.832 J**	11.2 U
1,2,3-Trimethylbenzene	0.6	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 UJ	1.97 U	9.83 U
1,2,4-Trimethylbenzene	2.5	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 UJ	1.97 U	9.83 U
1,3,5-Trimethylbenzene	1	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 UJ	1.97 U	9.83 U
2,2,4-Trimethylpentane	2	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 UJ	1.87 U	9.34 U
n-Undecane	2.3	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 UJ	2.56 U	12.8 U
Vinyl bromide	NE	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 UJ	1.75 U	8.74 U
Vinyl chloride	0.25	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 UJ	1.02 U	5.11 U
Other (%)										
Carbon dioxide	NE	**3.86**	NA	**1.77**	NA	NA	**2.72**	**9.29**	**9.04**	**12.0**
Helium	NE	**0.065**	**2.72**	**0.089**	**0.144**	**0.118**	**0.235**	**0.144**	**0.331**	**0.351**

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2SG-34	OU2SG-35	OU2SG-38	OU2SG-39	OU3SG-1	OZSV-01	OZSV-02	OZDUP-16	OZSV-03
Sample Date:		3/20/2012	3/20/2012	3/27/2012	3/27/2012	3/15/2012	1/25/2012	1/25/2012	1/25/2012	1/25/2012
Parent Sample Code:									OZSV-02	
BTEX (µg/m^3)										
Benzene	5.8	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Toluene	21	1.51 U	1.51 U	1.51 U	1.51 U	**1.13 J**	1.51 U	1.51 U	1.51 U	1.51 U
Ethylbenzene	1.9	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
m,p-Xylene	3.1	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U
o-Xylene	2.5	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Other VOCs (µg/m^3)										
Acetaldehyde	NE	**6.32 J**	9.01 U	**2.95 J**	**6.25 J**	**2.65 J**	**4.54 J**	**4.29 J**	**8.48 J**	**3.26 J**
Acetone	58	7.08 U	5.63 U	**3.32 J**	**3.87 J**	**1.93 J**	**2.47 J**	**4.39 J**	**5.13**	**2.30 J**
Acrolein (propenal)	NE	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U
Allyl chloride (Chloropropene,3-)	NE	1.25 UJ	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U
Benzothiophene	NE	5.49 U	5.49 UJ	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U
Bromodichloromethane	NE	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U
Bromoform	NE	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U
Bromomethane	0.9	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U
1,3-Butadiene	NE	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U
Butane	NE	**0.822 J**	**8.77**	0.951 U	0.951 U	**0.604 J**	0.951 U	**0.285 J**	0.951 U	0.951 U
2-Butanone (Methyl ethyl ketone)	17	**0.661 J**	**0.896 J**	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	**0.826 J**	1.18 U
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U
Carbon disulfide	NE	1.24 U	1.24 U	1.24 U	1.24 U	**1.06 J**	1.24 U	1.24 U	**0.536 J**	1.24 U
Carbon tetrachloride	1	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U
Chlorobenzene	0.25	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
Chloroethane	0.4	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U
Chloroform	0.5	**3.07**	**3.16**	**1.53 J**	1.95 U	**0.478 J**	**0.430 J**	**0.957 J**	**0.908 J**	**7.28**
Chloromethane	4.6	**0.430 J**	0.826 U	0.826 U	**0.438 J**	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U
2-Chlorotoluene	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Cryofluorane (Freon-114)	1.3	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U
Cyclohexane	3	1.38 U	1.38 U	1.38 U	1.38 U	**0.860 J**	1.38 U	1.38 U	1.38 U	1.38 U
n-Decane	3.6	**3.74**	**1.94 J**	2.33 U	2.33 U	2.33 U	2.33 U	2.33 U	2.33 U	2.33 U
Dibromochloromethane	NE	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U
1,2-Dibromoethane	0.25	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U
1,2-Dichlorobenzene	0.9	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
1,3-Dichlorobenzene	0.7	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
1,4-Dichlorobenzene	0.8	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
Dichlorodifluoromethane	11	**1.08 J**	**1.47 J**	1.98 U	**1.41 J**	**2.22**	**2.02**	**1.58 J**	**1.46 J**	**4.86**
1,1-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
1,2-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
cis-1,2-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
1,1-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
trans-1,2-Dichloroethene	NE	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
1,2-Dichloropropane	0.25	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U
cis-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
trans-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
1,4-Dioxane	NE	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
n-Dodecane	7.6	**4.67 J**	**1.45 J**	6.96 U	6.96 U	2.79 U	2.79 U	2.79 U	2.79 U	2.79 U
Ethanol	220	**2.81 J**	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U	3.77 U
2-Ethylthiophene	NE	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
p-Ethyltoluene	NE	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
n-Heptane	5.1	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Hexachlorobutadiene	7	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U
n-Hexane	3.6	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U
2-Hexanone	NE	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Indane	NE	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U
Indene	NE	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2SG-34	OU2SG-35	OU2SG-38	OU2SG-39	OU3SG-1	OZSV-01	OZSV-02	OZDUP-16	OZSV-03
Sample Date:		3/20/2012	3/20/2012	3/27/2012	3/27/2012	3/15/2012	1/25/2012	1/25/2012	1/25/2012	1/25/2012
Parent Sample Code:									OZSV-02	
Methyl tert-butyl ether	5.9	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
4-Methyl-2-pentanone	2.9	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Methylene chloride	2.9	6.95 U	6.95 U	**3.29 J**	6.95 U	**7.36**	6.95 U	6.95 U	6.95 U	6.95 U
1-Methylnaphthalene	NE	11.6 U	11.6 UJ	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U
2-Methylnaphthalene	NE	11.6 U	11.6 UJ	11.6 U	11.6 U	29.1 U	11.6 U	11.6 U	11.6 U	11.6 U
2-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
3-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
Naphthalene	10	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
Nonane	1.2	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
n-Octane	2.1	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
Pentane	NE	1.18 U	**0.649 J**	1.18 U	1.18 U	**0.360 J**	1.18 U	1.18 U	1.18 U	1.18 U
2-Propanol (Isopropyl Alcohol)	NE	2.46 U	**0.752 J**	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U	2.46 U
Styrene	0.6	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
1,1,2,2-Tetrachloroethane	0.25	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U
Tetrachloroethene	1.6	2.71 U	2.71 U	**4.99**	2.71 U	2.71 U	**1.71 J**	**2.54 J**	**2.13 J**	**7.59**
1,2,4,5-Tetramethylbenzene	NE	5.49 U	5.49 U	5.49 U	5.49 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U
Thiophene	NE	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	3.6	3.06 U	**0.950 J**	3.06 U	**2.07 J**	3.06 U	3.06 U	3.06 U	3.06 U	3.06 U
1,2,4-Trichlorobenzene	4.8	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U
1,1,1-Trichloroethane	0.7	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U
1,1,2-Trichloroethane	0.25	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U
Trichloroethene	0.5	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U
Trichlorofluoromethane	6.1	**1.35 J**	**0.562 J**	2.25 U	**4.92**	**1.42 J**	**1.11 J**	**0.899 J**	**0.854 J**	**0.517 J**
1,2,3-Trimethylbenzene	0.6	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,2,4-Trimethylbenzene	2.5	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,3,5-Trimethylbenzene	1	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
2,2,4-Trimethylpentane	2	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
n-Undecane	2.3	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U
Vinyl bromide	NE	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U
Vinyl chloride	0.25	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U
Other (%)										
Carbon dioxide	NE	**1.71**	**3.36**	**2.38**	**3.50**	NA	NA	NA	NA	NA
Helium	NE	**0.397**	**0.513**	**0.164**	**6.67**	0.015 U	0.018 U	0.017 U	0.017 U	0.017 U

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZSV-01	OZSV-02	OZSV-03	OZSV-1	OZSV-2	OZDUP-17	OZSV-3
Sample Date:		3/5/2012	3/5/2012	3/5/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012
Parent Sample Code:							OZSV-2	
BTEX (µg/m^3)								
Benzene	5.8	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Toluene	21	**0.497 J**	1.51 U	1.51 U	1.51 U	1.51 U	1.51 U	1.51 U
Ethylbenzene	1.9	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
m,p-Xylene	3.1	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U
o-Xylene	2.5	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Other VOCs (µg/m^3)								
Acetaldehyde	NE	**4.40 J**	**10.8 J**	**6.81 J**	**4.65 J**	**5.53 J**	**4.95 J**	**5.33 J**
Acetone	58	4.75 U	**10.8**	4.75 U	**2.76 J**	**3.04 J**	**3.06 J**	**4.11 J**
Acrolein (propenal)	NE	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U
Allyl chloride (Chloropropene,3-)	NE	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U
Benzothiophene	NE	5.49 UJ	5.49 UJ	5.49 UJ	5.49 U	5.49 U	5.49 U	5.49 U
Bromodichloromethane	NE	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U
Bromoform	NE	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U
Bromomethane	0.9	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U
1,3-Butadiene	NE	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U
Butane	NE	0.951 U	**0.323 J**	0.951 U	**0.385 J**	0.951 U	0.951 U	0.951 U
2-Butanone (Methyl ethyl ketone)	17	**0.548 J**	**5.10**	**0.584 J**	1.18 U	**0.501 J**	1.18 U	**0.478 J**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U
Carbon disulfide	NE	1.24 U	**1.71**	1.24 U	1.24 U	1.24 U	1.24 U	1.24 U
Carbon tetrachloride	1	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U
Chlorobenzene	0.25	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
Chloroethane	0.4	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U
Chloroform	0.5	**0.557 J**	**1.02 J**	**5.22**	**0.713 J**	**1.22 J**	**1.11 J**	**6.54**
Chloromethane	4.6	0.826 UJ	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U	0.826 U
2-Chlorotoluene	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Cryofluorane (Freon-114)	1.3	2.80 U	2.80 UJ	2.80 UJ	2.80 U	2.80 U	2.80 U	2.80 U
Cyclohexane	3	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U
n-Decane	3.6	2.33 U	2.33 U	2.33 U	2.33 U	2.33 U	2.33 U	2.33 U
Dibromochloromethane	NE	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U
1,2-Dibromoethane	0.25	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U
1,2-Dichlorobenzene	0.9	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
1,3-Dichlorobenzene	0.7	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
1,4-Dichlorobenzene	0.8	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
Dichlorodifluoromethane	11	**2.64**	**1.90 J**	**5.44**	**2.04**	1.98 U	1.98 U	1.98 U
1,1-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
1,2-Dichloroethane	0.25	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
cis-1,2-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
1,1-Dichloroethene	0.25	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
trans-1,2-Dichloroethene	NE	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U
1,2-Dichloropropane	0.25	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U
cis-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
trans-1,3-Dichloropropene	0.25	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
1,4-Dioxane	NE	1.44 U	**4.14**	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
n-Dodecane	7.6	2.79 U	2.79 U	2.79 U	6.96 U	6.96 U	6.96 U	6.96 U
Ethanol	220	3.77 U	3.77 U	**2.51 J**	3.77 U	3.77 U	3.77 U	3.77 U
2-Ethylthiophene	NE	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
p-Ethyltoluene	NE	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
n-Heptane	5.1	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Hexachlorobutadiene	7	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U
n-Hexane	3.6	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U	1.41 U
2-Hexanone	NE	1.64 U	**0.705 J**	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Indane	NE	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U
Indene	NE	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZSV-01	OZSV-02	OZSV-03	OZSV-1	OZSV-2	OZDUP-17	OZSV-3
Sample Date:		3/5/2012	3/5/2012	3/5/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012
Parent Sample Code:							OZSV-2	
Methyl tert-butyl ether	5.9	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
4-Methyl-2-pentanone	2.9	1.64 U	**0.729 J**	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Methylene chloride	2.9	**2.01 J**	**1.92 J**	6.95 U	6.95 U	6.95 U	6.95 U	6.95 U
1-Methylnaphthalene	NE	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U
2-Methylnaphthalene	NE	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U
2-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
3-Methylthiophene	NE	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
Naphthalene	10	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
Nonane	1.2	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
n-Octane	2.1	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
Pentane	NE	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U
2-Propanol (Isopropyl Alcohol)	NE	2.46 U	**3.66**	**1.08 J**	2.46 U	2.46 U	2.46 U	2.46 U
Styrene	0.6	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
1,1,2,2-Tetrachloroethane	0.25	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U
Tetrachloroethene	1.6	**1.90 J**	**2.28 J**	**6.56**	**2.05 J**	**3.39**	**3.35**	**7.73**
1,2,4,5-Tetramethylbenzene	NE	2.20 UJ	2.20 UJ	2.20 UJ	5.49 U	5.49 U	5.49 U	5.49 U
Thiophene	NE	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	3.6	3.06 U	3.06 U	3.06 U	**0.904 J**	3.06 U	3.06 U	3.06 U
1,2,4-Trichlorobenzene	4.8	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U
1,1,1-Trichloroethane	0.7	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U
1,1,2-Trichloroethane	0.25	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U
Trichloroethene	0.5	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U
Trichlorofluoromethane	6.1	**1.51 J**	**1.04 J**	2.25 U	**1.11 J**	**0.843 J**	**0.832 J**	**0.539 J**
1,2,3-Trimethylbenzene	0.6	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,2,4-Trimethylbenzene	2.5	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,3,5-Trimethylbenzene	1	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
2,2,4-Trimethylpentane	2	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
n-Undecane	2.3	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U	2.56 U
Vinyl bromide	NE	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U
Vinyl chloride	0.25	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U
Other (%)								
Carbon dioxide	NE	NA	NA	NA	NA	NA	NA	NA
Helium	NE	0.017 U	0.016 U	0.017 U	**0.298**	**0.112**	**0.108**	**0.155**

Table 5-1
Analytical Soil Vapor Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Notes:

$\mu g/m^3$ - micrograms per cubic meter

BTEX - benzene, toluene, ethylbenzene, and xylene

VOCs - volatile organic compounds

[1] Source: New York State Department of Health (NYSDOH), October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within sampled homes in NYS, 1997-2003. Background values for naphthalene are from the NYSDOH 1997 Control Home Database presented in Table C3 of the NYSDOH 2006 Guidance.

Bolding indicates a detected result value

NA - not analyzed

NE - not established

Data qualifiers:

B - analyte detected in the associated method blank

E - Estimated

J - estimated value

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

Table 5-2
Analytical Ambient Air Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2AA-01	OU2AA-02	OU2AA-03	OU2AA-04	OU2AA-05	OZAA-6	OZAA-6	OZAA-6	OZAA-7
Sample Date:		3/21/2012	3/19/2012	3/19/2012	3/27/2012	3/22/2012	1/25/2012	3/26/2012	3/5/2012	1/25/2012
Parent Sample Code:										
BTEX (µg/m³)										
Benzene	5.8	**0.329 J**	**0.489 J**	**0.751**	**0.428 J**	**0.639**	**0.687**	**0.463 J**	**0.648**	**0.674**
Toluene	21	**0.618 J**	**0.418 J**	**0.610 J**	**0.460 J**	**1.99**	**0.984**	**1.42**	**0.825**	**0.803**
Ethylbenzene	1.9	0.869 U	0.869 U	0.869 U	0.869 U	**0.282 J**	0.869 U	0.869 U	0.869 U	0.869 U
m,p-Xylene	3.1	1.74 U	1.74 U	1.74 U	1.74 U	**0.708 J**	1.74 U	**0.660 J**	1.74 U	1.74 U
o-Xylene	2.5	0.869 U	0.869 U	0.869 U	0.869 U	**0.287 J**	0.869 U	0.869 U	0.869 U	0.869 U
Other VOCs (µg/m³)										
Acetaldehyde	NE	**7.89**	**20.7**	**12.1**	**3.17 J**	**20.9**	**4.79**	**6.45**	**6.09**	**4.81**
Acetone	58	**4.56**	**9.55**	**10.3**	**3.68**	**8.79**	**3.37**	**6.08**	**2.97**	**4.01**
Acrolein (propenal)	NE	1.15 U	1.15 U	1.15 U	1.15 U	**0.305 J**	1.15 U	1.15 U	1.15 U	1.15 U
Allyl chloride (Chloropropene,3-)	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzothiophene	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U
Bromodichloromethane	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	0.9	0.777 U	0.777 U	**0.489 J**	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
1,3-Butadiene	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
Butane	NE	**0.537**	**1.37**	**1.97**	**0.492**	**3.71**	**1.78**	**2.04**	**1.06**	**1.37**
2-Butanone (Methyl ethyl ketone)	17	**0.504 J**	**1.33**	**0.923**	**0.442 J**	**1.08**	**0.961**	**0.669**	**0.799**	**0.764**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.606 U	**0.255 J**	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U
Carbon disulfide	NE	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	**0.131 J**	0.623 U	**0.131 JB**	0.623 U
Carbon tetrachloride	1	**0.371 J**	1.26 U	**0.365 J**	**0.377 J**	**0.352 J**	**0.491 J**	**0.396 J**	**0.604 J**	**0.453 J**
Chlorobenzene	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	0.5	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	4.6	**1.06**	**1.04**	**1.10**	**1.02**	**1.13**	**1.00**	**1.03**	**1.04**	**1.08**
2-Chlorotoluene	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon-114)	1.3	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Cyclohexane	3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	**0.334 J**	0.688 U	0.688 U
n-Decane	3.6	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U
Dibromochloromethane	NE	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
1,2-Dibromoethane	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	0.9	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U
1,3-Dichlorobenzene	0.7	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U
1,4-Dichlorobenzene	0.8	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U
Dichlorodifluoromethane	11	**2.13**	**2.04**	**2.25**	**2.20**	**2.20**	**2.44**	**2.06**	**2.38**	**2.46**
1,1-Dichloroethane	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
cis-1,2-Dichloroethene	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,1-Dichloroethene	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
1,4-Dioxane	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
n-Dodecane	7.6	**1.15 J**	3.48 U	**0.557 J**	3.48 U	3.48 U	1.39 U	3.48 U	1.39 U	1.39 U
Ethanol	220	**2.77**	**2.62**	**3.20**	**1.59 J**	**6.61**	**2.37**	**3.03**	**2.02**	**2.03**
2-Ethylthiophene	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U
p-Ethyltoluene	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
n-Heptane	5.1	0.820 U	0.820 U	0.820 U	0.820 U	**0.389 J**	0.820 U	0.820 U	0.820 U	0.820 U
Hexachlorobutadiene	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
n-Hexane	3.6	0.705 U	0.705 U	**0.278 J**	0.705 U	**0.564 J**	**0.384 J**	**0.314 J**	0.705 U	**0.296 J**
2-Hexanone	NE	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U
Indane	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U
Indene	NE	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U

Table 5-2
Analytical Ambient Air Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2AA-01	OU2AA-02	OU2AA-03	OU2AA-04	OU2AA-05	OZAA-6	OZAA-6	OZAA-6	OZAA-7
Sample Date:		3/21/2012	3/19/2012	3/19/2012	3/27/2012	3/22/2012	1/25/2012	3/26/2012	3/5/2012	1/25/2012
Parent Sample Code:										
Methyl tert-butyl ether	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone	2.9	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U
Methylene chloride	2.9	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	**1.61 J**	3.47 U
1-Methylnaphthalene	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylnaphthalene	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylthiophene	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
3-Methylthiophene	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
Naphthalene	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	**0.372 J**	1.05 U	1.05 U	1.05 U
Nonane	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Octane	2.1	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
Pentane	NE	**0.354 J**	**0.508 J**	**0.808**	**0.274 J**	**1.99**	**0.732**	**1.08**	**0.475 J**	**0.758**
2-Propanol (Isopropyl Alcohol)	NE	1.23 U	1.23 U	**0.496 J**	1.23 U	1.23 U	1.23 U	**0.735 J**	**0.438 J**	1.23 U
Styrene	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
Tetrachloroethene	1.6	1.36 U	**1.20 J**	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U
1,2,4,5-Tetramethylbenzene	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	1.10 U	2.74 U	1.10 U	1.10 U
Thiophene	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	3.6	**0.460 J**	**0.437 J**	**0.468 J**	**0.422 J**	**0.490 J**	**0.613 J**	**0.498 J**	**0.628 J**	**0.575 J**
1,2,4-Trichlorobenzene	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,1,1-Trichloroethane	0.7	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
Trichloroethene	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane	6.1	**1.05 J**	**1.02 J**	**1.18**	**1.03 J**	**1.12**	**1.33**	**1.03 J**	**1.27**	**1.34**
1,2,3-Trimethylbenzene	0.6	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3,5-Trimethylbenzene	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane	2	0.934 U	0.934 U	0.934 U	0.934 U	**0.518 J**	0.934 U	0.934 U	0.934 U	0.934 U
n-Undecane	2.3	**1.66**	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Vinyl bromide	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl chloride	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

Table 5-2
Analytical Ambient Air Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZAA-7	OZAA-7	OZAA-8	OZAA-8	OZAA-8	OZAA-9	OZAA-9	OZAA-9	OZAA-10
Sample Date:		3/26/2012	3/5/2012	1/25/2012	3/26/2012	3/5/2012	1/25/2012	3/26/2012	3/5/2012	1/25/2012
Parent Sample Code:										
BTEX (µg/m³)										
Benzene	5.8	**0.422 J**	**0.716**	**0.703**	**0.438 J**	**0.684**	**0.597 J**	**0.355 J**	**0.722**	**0.652**
Toluene	21	**0.999**	**1.01**	**1.01**	**1.74**	**0.742 J**	**0.750 J**	**0.987**	**0.920**	**0.754**
Ethylbenzene	1.9	0.869 U	0.869 U	0.869 U	**0.274 J**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
m,p-Xylene	3.1	1.74 U	1.74 U	1.74 U	**0.882 J**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
o-Xylene	2.5	0.869 U	0.869 U	0.869 U	**0.295 J**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Other VOCs (µg/m³)										
Acetaldehyde	NE	**7.87**	**2.83 J**	**6.30**	**8.11**	**6.41**	**6.86**	**7.01**	**4.76**	**7.17**
Acetone	58	**5.42**	**3.49**	**2.76**	**6.32**	**3.09**	**2.92**	**4.68**	**2.99**	**2.94**
Acrolein (propenal)	NE	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U
Allyl chloride (Chloropropene,3-)	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzothiophene	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U
Bromodichloromethane	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
1,3-Butadiene	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
Butane	NE	**1.26**	**1.34**	**1.99**	**2.52**	**1.23**	**1.57**	**0.713**	**1.19**	**1.55**
2-Butanone (Methyl ethyl ketone)	17	**0.752**	**0.678**	**0.767**	**0.693**	**0.823**	**0.843**	**0.622**	**0.746**	**0.743**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U
Carbon disulfide	NE	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Carbon tetrachloride	1	**0.371 J**	**0.660 J**	**0.472 J**	**0.352 J**	**0.591 J**	**0.440 J**	**0.346 J**	**0.585 J**	**0.472 J**
Chlorobenzene	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	0.5	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	4.6	**0.985**	**1.06**	**1.04**	**0.999**	**1.21**	**0.981**	**0.985**	**1.04**	**1.05**
2-Chlorotoluene	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon-114)	1.3	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Cyclohexane	3	**0.337 J**	0.688 U	0.688 U	**0.361 J**	0.688 U	0.688 U	**0.306 J**	0.688 U	0.688 U
n-Decane	3.6	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U
Dibromochloromethane	NE	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
1,2-Dibromoethane	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	0.9	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U
1,3-Dichlorobenzene	0.7	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U
1,4-Dichlorobenzene	0.8	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U
Dichlorodifluoromethane	11	**2.08**	**2.37**	**2.49**	**2.10**	**2.53**	**2.40**	**1.99**	**2.42**	**2.37**
1,1-Dichloroethane	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
cis-1,2-Dichloroethene	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,1-Dichloroethene	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
1,4-Dioxane	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
n-Dodecane	7.6	3.48 U	1.39 U	1.39 U	3.48 U	1.39 U	1.39 U	3.48 U	1.39 U	1.39 U
Ethanol	220	**1.98**	**2.20**	**2.36**	**3.15**	**2.17**	**2.03**	**1.73 J**	**2.05**	**2.45**
2-Ethylthiophene	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U
p-Ethyltoluene	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
n-Heptane	5.1	0.820 U	**0.238 J**	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U
Hexachlorobutadiene	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
n-Hexane	3.6	0.705 U	**0.409 J**	**0.426 J**	**0.335 J**	**0.335 J**	**0.285 J**	0.705 U	**0.345 J**	**0.321 J**
2-Hexanone	NE	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U
Indane	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U
Indene	NE	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U	0.950 U

Table 5-2
Analytical Ambient Air Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZAA-7	OZAA-7	OZAA-8	OZAA-8	OZAA-8	OZAA-9	OZAA-9	OZAA-9	OZAA-10
Sample Date:		3/26/2012	3/5/2012	1/25/2012	3/26/2012	3/5/2012	1/25/2012	3/26/2012	3/5/2012	1/25/2012
Parent Sample Code:										
Methyl tert-butyl ether	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone	2.9	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U
Methylene chloride	2.9	**1.49 J**	**1.48 J**	3.47 U	3.47 U	**1.31 J**	3.47 U	**0.879 J**	**1.80 J**	3.47 U
1-Methylnaphthalene	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylnaphthalene	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylthiophene	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
3-Methylthiophene	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
Naphthalene	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
Nonane	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Octane	2.1	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
Pentane	NE	**0.664**	**0.614**	**0.965**	**1.29**	**0.543 J**	**0.661**	**0.599**	**0.505 J**	**0.584 J**
2-Propanol (Isopropyl Alcohol)	NE	**0.664 J**	**0.401 J**	1.23 U	**0.760 J**	**0.366 J**	1.23 U	**0.612 J**	**0.359 J**	1.23 U
Styrene	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
Tetrachloroethene	1.6	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U
1,2,4,5-Tetramethylbenzene	NE	2.74 U	1.10 U	1.10 U	2.74 U	1.10 U	1.10 U	2.74 U	1.10 U	1.10 U
Thiophene	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	3.6	**0.429 J**	**0.621 J**	**0.659 J**	**0.460 J**	**0.651 J**	**0.490 J**	**0.437 J**	**0.575 J**	**0.575 J**
1,2,4-Trichlorobenzene	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,1,1-Trichloroethane	0.7	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
Trichloroethene	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane	6.1	**1.01 J**	**1.34**	**1.25**	**1.09 J**	**1.36**	**1.54**	**0.995 J**	**1.32**	**1.26**
1,2,3-Trimethylbenzene	0.6	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3,5-Trimethylbenzene	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane	2	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
n-Undecane	2.3	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Vinyl bromide	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl chloride	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

Table 5-2
Analytical Ambient Air Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZAA-10	OZAA-10
Sample Date:		3/26/2012	3/5/2012
Parent Sample Code:			
BTEX (µg/m³)			
Benzene	5.8	**0.530 J**	**0.712**
Toluene	21	**2.09**	**0.776**
Ethylbenzene	1.9	**0.295 J**	0.869 U
m,p-Xylene	3.1	**0.908 J**	1.74 U
o-Xylene	2.5	**0.304 J**	0.869 U
Other VOCs (µg/m³)			
Acetaldehyde	NE	**11.0**	**8.97**
Acetone	58	**6.94**	**3.06**
Acrolein (propenal)	NE	1.15 U	1.15 U
Allyl chloride (Chloropropene,3-)	NE	0.626 U	0.626 U
Benzothiophene	NE	2.74 U	2.74 U
Bromodichloromethane	NE	1.34 U	1.34 U
Bromoform	NE	2.07 U	2.07 U
Bromomethane	0.9	0.777 U	0.777 U
1,3-Butadiene	NE	0.442 U	0.442 U
Butane	NE	**1.20**	**1.14**
2-Butanone (Methyl ethyl ketone)	17	**0.867**	**1.01**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.606 U	0.606 U
Carbon disulfide	NE	0.623 U	0.623 U
Carbon tetrachloride	1	**0.371 J**	**0.591 J**
Chlorobenzene	0.25	0.921 U	0.921 U
Chloroethane	0.4	0.528 U	0.528 U
Chloroform	0.5	0.977 U	0.977 U
Chloromethane	4.6	**0.977**	**1.02**
2-Chlorotoluene	NE	1.04 U	1.04 U
Cryofluorane (Freon-114)	1.3	1.40 U	1.40 U
Cyclohexane	3	**0.389 J**	0.688 U
n-Decane	3.6	1.16 U	1.16 U
Dibromochloromethane	NE	1.70 U	1.70 U
1,2-Dibromoethane	0.25	1.54 U	1.54 U
1,2-Dichlorobenzene	0.9	1.20 U	1.20 U
1,3-Dichlorobenzene	0.7	1.20 U	1.20 U
1,4-Dichlorobenzene	0.8	1.20 U	1.20 U
Dichlorodifluoromethane	11	**2.03**	**2.24**
1,1-Dichloroethane	0.25	0.809 U	0.809 U
1,2-Dichloroethane	0.25	0.809 U	0.809 U
cis-1,2-Dichloroethene	0.25	0.793 U	0.793 U
trans-1,2-Dichloroethene	NE	0.793 U	0.793 U
1,1-Dichloroethene	0.25	0.793 U	0.793 U
1,2-Dichloropropane	0.25	0.924 U	0.924 U
cis-1,3-Dichloropropene	0.25	0.908 U	0.908 U
trans-1,3-Dichloropropene	0.25	0.908 U	0.908 U
1,4-Dioxane	NE	0.721 U	0.721 U
n-Dodecane	7.6	3.48 U	1.39 U
Ethanol	220	**3.22**	**2.28**
2-Ethylthiophene	NE	0.918 U	0.918 U
p-Ethyltoluene	NE	0.983 U	0.983 U
n-Heptane	5.1	0.820 U	0.820 U
Hexachlorobutadiene	7	2.13 U	2.13 U
n-Hexane	3.6	**0.317 J**	**0.307 J**
2-Hexanone	NE	0.820 U	0.820 U
Indane	NE	0.967 U	0.967 U
Indene	NE	0.950 U	0.950 U

Table 5-2
Analytical Ambient Air Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZAA-10	OZAA-10
Sample Date:		3/26/2012	3/5/2012
Parent Sample Code:			
Methyl tert-butyl ether	5.9	0.721 U	0.721 U
4-Methyl-2-pentanone	2.9	0.820 U	0.820 U
Methylene chloride	2.9	3.47 U	**1.06 J**
1-Methylnaphthalene	NE	5.82 U	5.82 U
2-Methylnaphthalene	NE	5.82 U	5.82 U
2-Methylthiophene	NE	0.803 U	0.803 U
3-Methylthiophene	NE	0.803 U	0.803 U
Naphthalene	10	1.05 U	1.05 U
Nonane	1.2	1.05 U	1.05 U
n-Octane	2.1	0.934 U	0.934 U
Pentane	NE	**1.03**	**0.475 J**
2-Propanol (Isopropyl Alcohol)	NE	**0.703 J**	**0.337 J**
Styrene	0.6	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane	0.25	1.37 U	1.37 U
Tetrachloroethene	1.6	1.36 U	1.36 U
1,2,4,5-Tetramethylbenzene	NE	2.74 U	1.10 U
Thiophene	NE	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	3.6	**0.437 J**	**0.567 J**
1,2,4-Trichlorobenzene	4.8	1.48 U	1.48 U
1,1,1-Trichloroethane	0.7	1.09 U	1.09 U
1,1,2-Trichloroethane	0.25	1.09 U	1.09 U
Trichloroethene	0.5	1.07 U	1.07 U
Trichlorofluoromethane	6.1	**1.01 J**	**1.17**
1,2,3-Trimethylbenzene	0.6	0.983 U	0.983 U
1,2,4-Trimethylbenzene	2.5	0.983 U	0.983 U
1,3,5-Trimethylbenzene	1	0.983 U	0.983 U
2,2,4-Trimethylpentane	2	**0.551 J**	0.934 U
n-Undecane	2.3	1.28 U	1.28 U
Vinyl bromide	NE	0.874 U	0.874 U
Vinyl chloride	0.25	0.511 U	0.511 U

Table 5-2
Analytical Ambient Air Results
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Notes:

$\mu g/m^3$ - micrograms per cubic meter

BTEX - benzene, toluene, ethylbenzene, and xylene

VOCs - volatile organic compounds

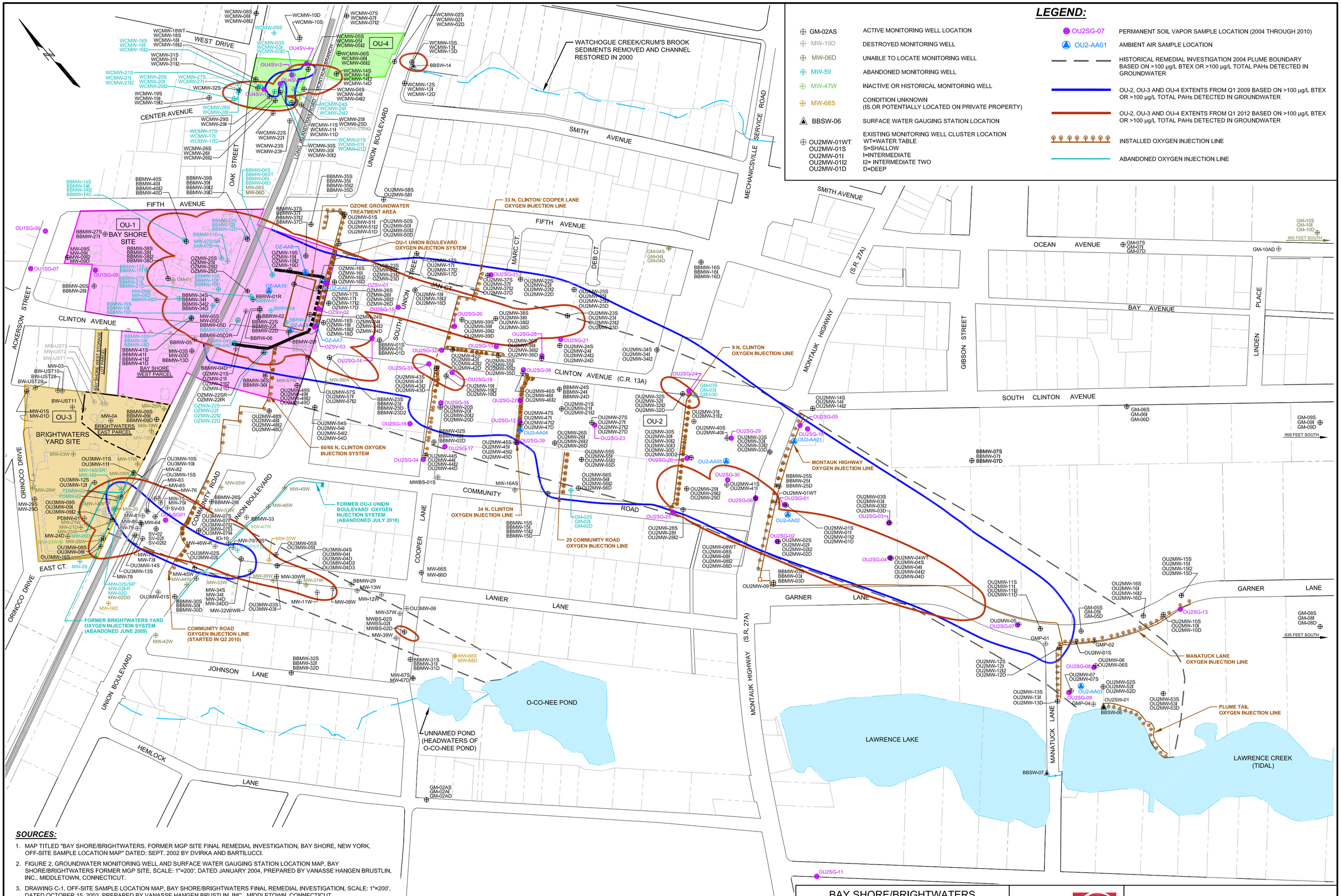
[1] Source: New York State Department of Health (NYSDOH), October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within sampled homes in NYS, 1997-2003. Background values for naphthalene are from the NYSDOH 1997 Control Home Database presented in Table C3 of the NYSDOH 2006 Guidance.

Bolding indicates a detected result value

NE - not established

Data qualifiers:
J - estimated value
U - not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

Figures



BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

nationalgrid

Project 093180-5-1506

GEI Consultants
110 WALT WHITMAN ROAD
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HUNTINGTON STATION, NY 11746

MONITORING WELL, SOIL VAPOR SAMPLE, AMBIENT AIR SAMPLE, AND SURFACE WATER GAUGING STATION LOCATION MAP

June 2012 Figure 1

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Figures\Bay Shore-Wells Figure 1 Q1-12.DWG

LEGEND:

- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY
- EXTENT OF Q1 2012 BTEX AND/OR TOTAL PAHs >100 µg/L IN GROUNDWATER

OU-4 CESSPOOL EXCAVATION IRM (COMPLETED NOVEMBER 2005)

OU-4 CESSPOOL AREA EXCAVATION (EXCAVATION COMPLETED - JULY 2011)

OU-4 CESSPOOL AREA S-ISCO TREATMENT (COMPLETED DECEMBER 2009)

OU-4 UPGRADIENT EXCAVATION IRM (EXCAVATION COMPLETE - JUNE 2011)

OU-4 UPGRADIENT INVESTIGATION (COMPLETED SEPTEMBER 2009)

OU-4 POND AREA EXCAVATION IRM (EXCAVATION COMPLETED - AUGUST 2011)

WATCHOGUE CREEK/ CRUM'S BROOK

SEDIMENTS REMOVED AND CHANNEL RESTORED IN 2000

OU-1 ISCO PHASE 3 INVESTIGATION (COMPLETED SEPTEMBER 2009)

PERSULFATE PILOT STUDY (COMPLETED 2004)

FENTON'S PILOT STUDY (COMPLETED 2004)

SISCO PILOT STUDY (2006)

OU-4 GROUNDWATER MONITORING (ONGOING)

OU-1 SOUTHERN CELL EXCAVATION AREA (COMPLETED APRIL 2007)

SUBSURFACE CONTAINMENT BARRIER (COMPLETED MAY 2008)

1591/1575 UNION BOULEVARD PRE-DESIGN INVESTIGATION (COMPLETED - SEPTEMBER 2010)

OU-1 UNION BOULEVARD OXYGEN INJECTION LINE EXTENSION (COMPLETED - JUNE 2011)

OU-1 UNION BOULEVARD OXYGEN INJECTION SYSTEM (COMPLETED FEBRUARY 2008)

TEMPORARY AND PERMANENT DNAPL RECOVERY WELL INSTALLATION (PLANNED OCTOBER 2011)

OU-1 OZONE INJECTION SYSTEM (COMPLETED OCTOBER 2009)

OU-1 EXCAVATION NORTH OF RAILROAD (COMPLETED AUGUST 2008)

OU-1 BAY SHORE SITE

TAR GOST® STUDY OU-1 NORTH & OU-1 SOUTH (PERFORMED AUGUST 2011)

33 N. CLINTON/COOPER LANE OXYGEN INJECTION LINE (COMPLETED MARCH 2009)

DNAPL RECOVERY SYSTEM (COMPLETED 2006)

OU-1/OU-2 GROUNDWATER, SOIL VAPOR MONITORING, AND OXYGEN INJECTION SYSTEM OM&M (ONGOING)

LIRR NORTH CLINTON AVENUE CROSSING SOIL EXCAVATION (PLANNED MARCH 2012)

66 N. CLINTON AVENUE (FORMER KING BEAR/SUMMERS LUMBER PROPERTY) OXYGEN INJECTION SYSTEM INSTALLATION (COMPLETED JANUARY 2010)

9 N. CLINTON OXYGEN INJECTION LINE (COMPLETED FEBRUARY 2009)

BRIGHTWATERS YARD PRE-IRM SOIL AND GROUNDWATER SAMPLING (COMPLETED SEPTEMBER 2009)

OU-3 COMMUNITY ROAD OXYGEN INJECTION SYSTEM INSTALLATION (COMPLETED APRIL 2010)

60/66 N. CLINTON AVENUE (FORMER KING BEAR/SUMMERS LUMBER PROPERTY) INVESTIGATION (COMPLETED JUNE 2009)

60/66 N. CLINTON AVENUE (FORMER KING BEAR/SUMMERS LUMBER PROPERTY) EXCAVATION (COMPLETED APRIL 2010)

34 N. CLINTON OXYGEN INJECTION LINE (COMPLETED JANUARY 2009)

MONTAUK HIGHWAY OXYGEN INJECTION LINE (COMPLETED Q4 2005)

OU-2 29 COMMUNITY ROAD OXYGEN INJECTION LINE (COMPLETED - JUNE 2011)

OU-3 COMMUNITY ROAD SYSTEM RECONFIGURATION (COMPLETED MARCH 2012)

OU-3 GROUNDWATER, SOIL VAPOR AND OXYGEN INJECTION SYSTEM OM&M (ONGOING)

CLINTON AVENUE CROSSING INSTALLATION (COMPLETED SEPTEMBER 2009) AND THE INSTALLATION OF COOPER LANE OXYGEN INJECTION LINE (COMPLETED NOVEMBER 2009)

29 COMMUNITY ROAD PRE-DESIGN INVESTIGATION (COMPLETED JUNE 2010)

MANATUCK LANE OXYGEN INJECTION LINE (COMPLETED Q4 2005)

SUPPLEMENTAL IRM EXCAVATION AREAS (COMPLETED 2004)

BRIGHTWATERS YARD OXYGEN INJECTION SYSTEM (INSTALLED 2004, ABANDONED JUNE 2009)

OU-3 UNION BOULEVARD OXYGEN INJECTION SYSTEM (INSTALLED - 2000, ABANDONED - AUGUST 2010)

OU-3 STORM SEWER REHABILITATION CONFIRMATION SAMPLING (COMPLETED SEPTEMBER 2009)

PLUME TAIL HYDROLOGIC INVESTIGATION (COMPLETED SEPTEMBER 2009)

PLUME TAIL OXYGEN INJECTION SYSTEM INSTALLATION AND STARTUP (COMPLETED AUGUST 2009)

OU-3 OXYGEN INJECTION SYSTEM PRE-DESIGN AND PLUME INVESTIGATION (COMPLETED AUGUST 2009)

OU-3 POST LIRR EXCAVATION IRM GROUNDWATER EVALUATION (ONGOING)

OU-3 LIRR EXCAVATION IRM (PHASE 1 - COMPLETED FEBRUARY 2010) (PHASE 2 - COMPLETED JULY 2010) (PHASE 3 - COMPLETED SEPTEMBER 2010)

OU-3 LIRR TEMPORARY TRACK RELOCATION LIMITS RESTORATION OF TRACKS TO ORIGINAL ALIGNMENT (COMPLETED APRIL 2010)

OU-3 LIRR DOWNGRADIENT INVESTIGATION/ BRIGHTWATERS YARD MONITORING WELL INSTALLATION (DECEMBER 2010 AND JUNE 2011)

2001 AND 2004 ISOTEC INJECTION AREA

OU-3 BRIGHTWATERS YARD SITE

BAY SHORE WEST PARCEL

BAY SHORE WEST STORAGE LOT PARCEL

BRIGHTWATERS EAST PARCEL

OU-2

OU-4

N. PARK AVE.

WEST DR.

CENTER AVENUE

OAK ST.

FIFTH AVENUE

ACKERSON STREET

CLINTON AVENUE

LONG ISLAND RAILROAD

MONTAUK BRANCH

UNION BOULEVARD

UNION ST.

MARC CT.

DEB CT.

JAN CT.

SMITH AVENUE

MECHANICSVILLE SERVICE RD.

(S.R. 27A)

MONTAUK HWY.

WATCHOGUE CREEK (TIDAL)

OCEAN AVENUE

BAY AVENUE

PL.

LINDEN

GIBSON ST.

SOUTH CLINTON AVENUE

CLINTON AVE. (C.R. 13A)

COMMUNITY ROAD

COMMUNITY ROAD

UNION BOULEVARD

COOPER LANE

LANIER LANE

GARNER LANE

GARNER LANE

HAWATHA DR.

ORINOCO DR.

ORINOCO DR.

EAST CT.

UNION BOULEVARD

JOHNSON LANE

HEMLOCK LANE

MANATUCK LANE

O-CO-NEE POND

UNNAMED POND (HEADWATERS OF O-CO-NEE POND)

LAWRENCE LAKE

LAWRENCE CREEK (TIDAL)

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. 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.
4. PROPERTY BOUNDARY LOCATIONS WERE DETERMINED BY OTHERS USING AERIAL PHOTOGRAPHS AND TAX MAPS. PROPERTY BOUNDARIES ARE APPROXIMATE AND MONITORING WELLS LOCATED NEAR OR AT PROPERTY BOUNDARIES DEPICTED ON THE MAP ARE WITHIN THE ROAD RIGHT-OF-WAY.

0 200 400

SCALE, FEET

BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK

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Project 093180-5-1506

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110 WALT WHITMAN ROAD
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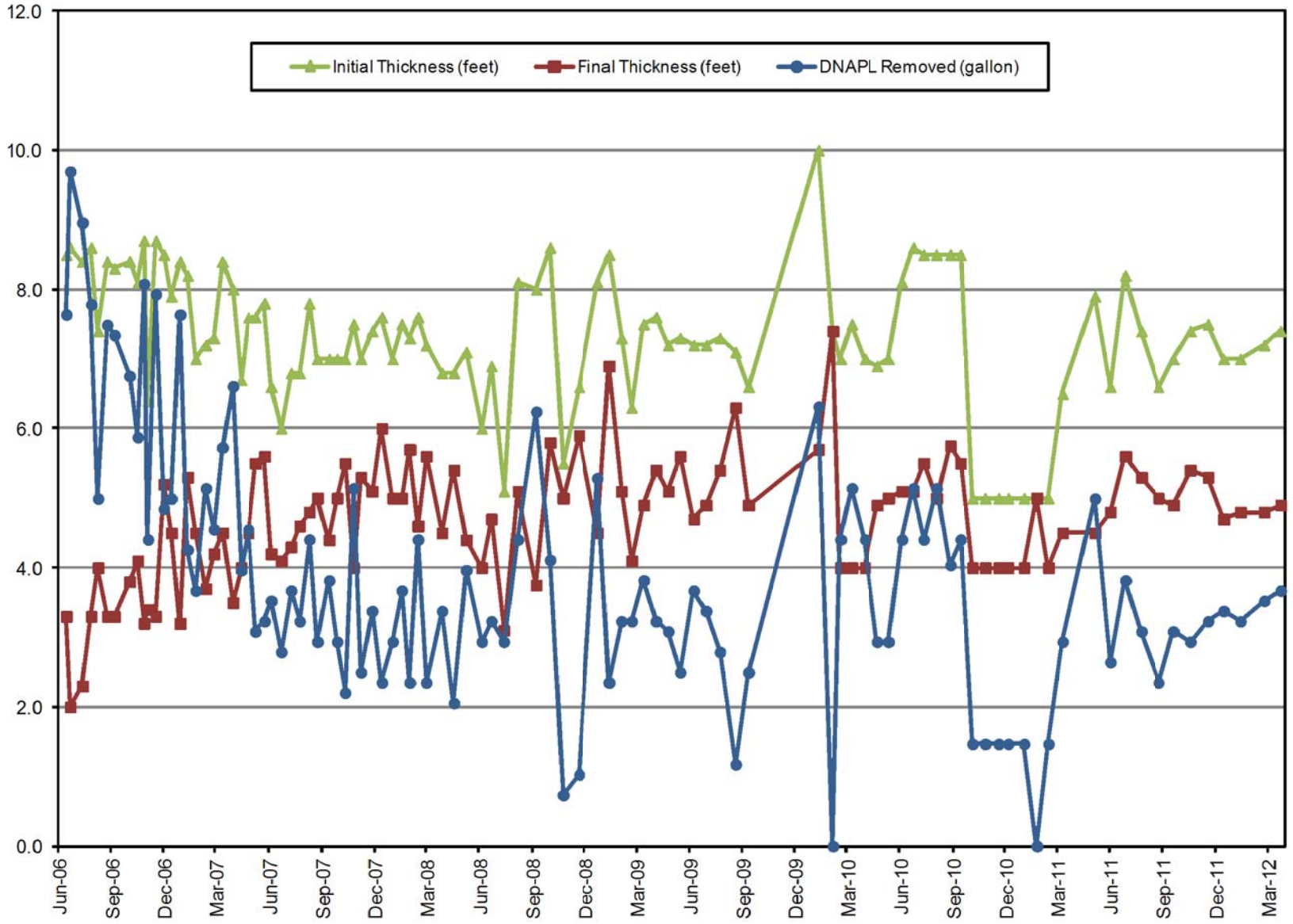
HISTORICAL SITEWIDE PROGRESS MAP

June 2012 Figure 2

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Figures\Bay Shore-Sitewide Progress Q1-12.dwg



NOTE: DNAPL RECOVERY OPERATIONS WERE SUSPENDED IN Q4 2009 DUE TO CONSTRUCTION ACTIVITIES.

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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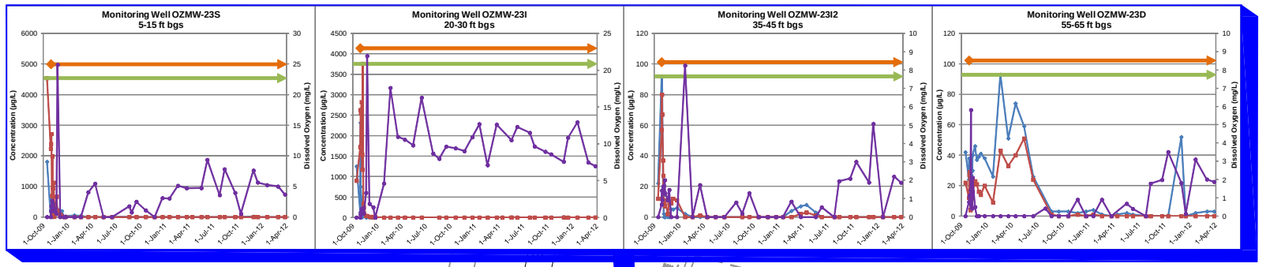
DNAPL RECOVERY DATA
BBRW-02

Project 093180-5-1506 | June 2012 | Figure 3

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Graphs\Bay Shore-DNAPL Recovery Well Graph-2012.dwg

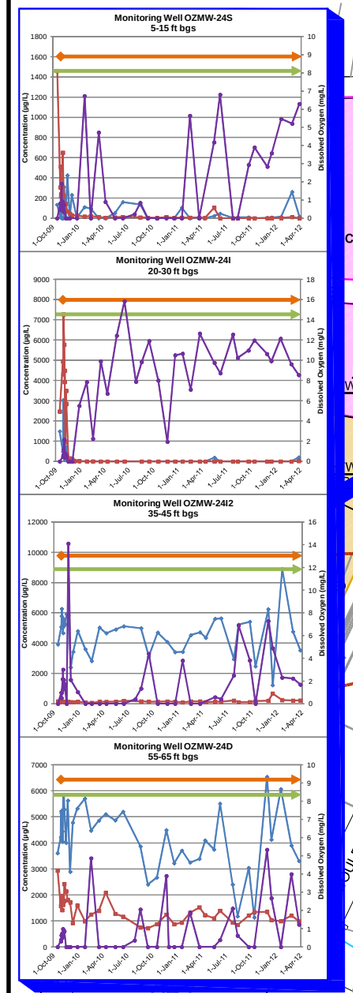


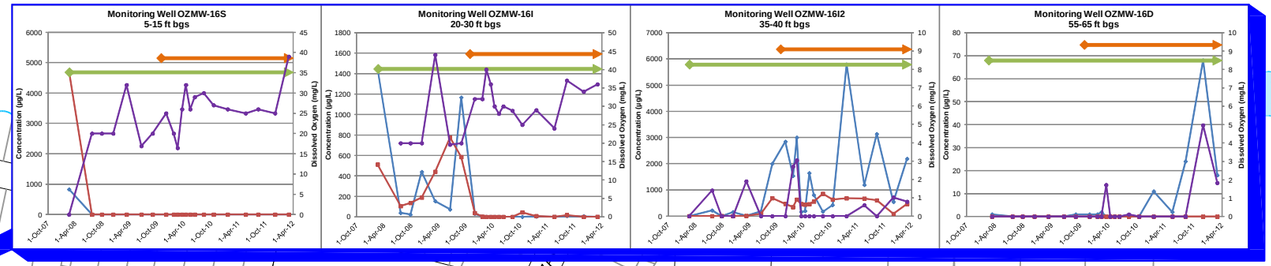
MAP LEGEND:

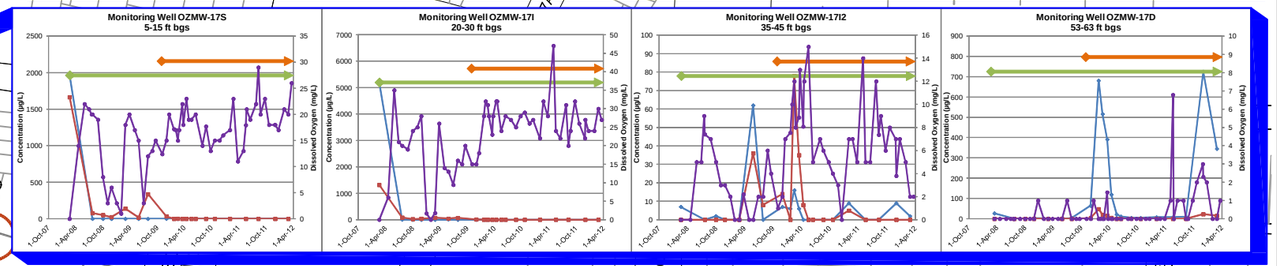
- ACTIVE MONITORING WELL LOCATION
- OZMW-24S / OZMW-24I / OZMW-24I2 / OZMW-24D — ASSOCIATED TIME-SERIES CONCENTRATION GRAPH PROVIDED ON PLATE
- Q1 2012 INFERRED PLUME BOUNDARY
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY
- APPROXIMATE GROUNDWATER FLOW DIRECTION

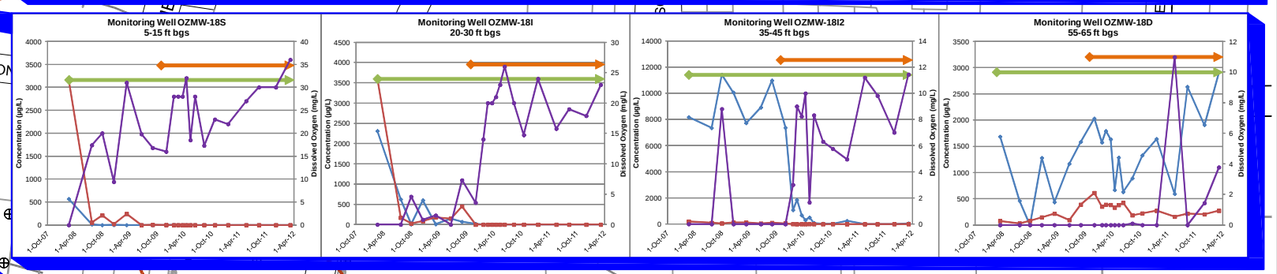
GRAPH LEGEND:

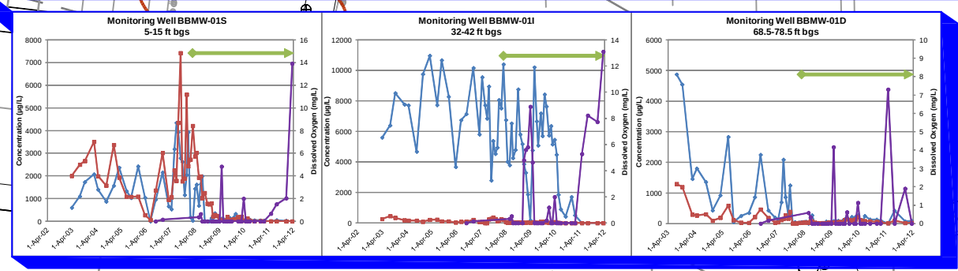
- TREATMENT SYSTEM OPERATIONAL PERIOD (OU-1 UNION BOULEVARD)
- OZONE SYSTEM OPERATIONAL PERIOD
- DISSOLVED OXYGEN
- BTEX (BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE)
- TOTAL PAH (POLYCYCLIC AROMATIC HYDROCARBONS)

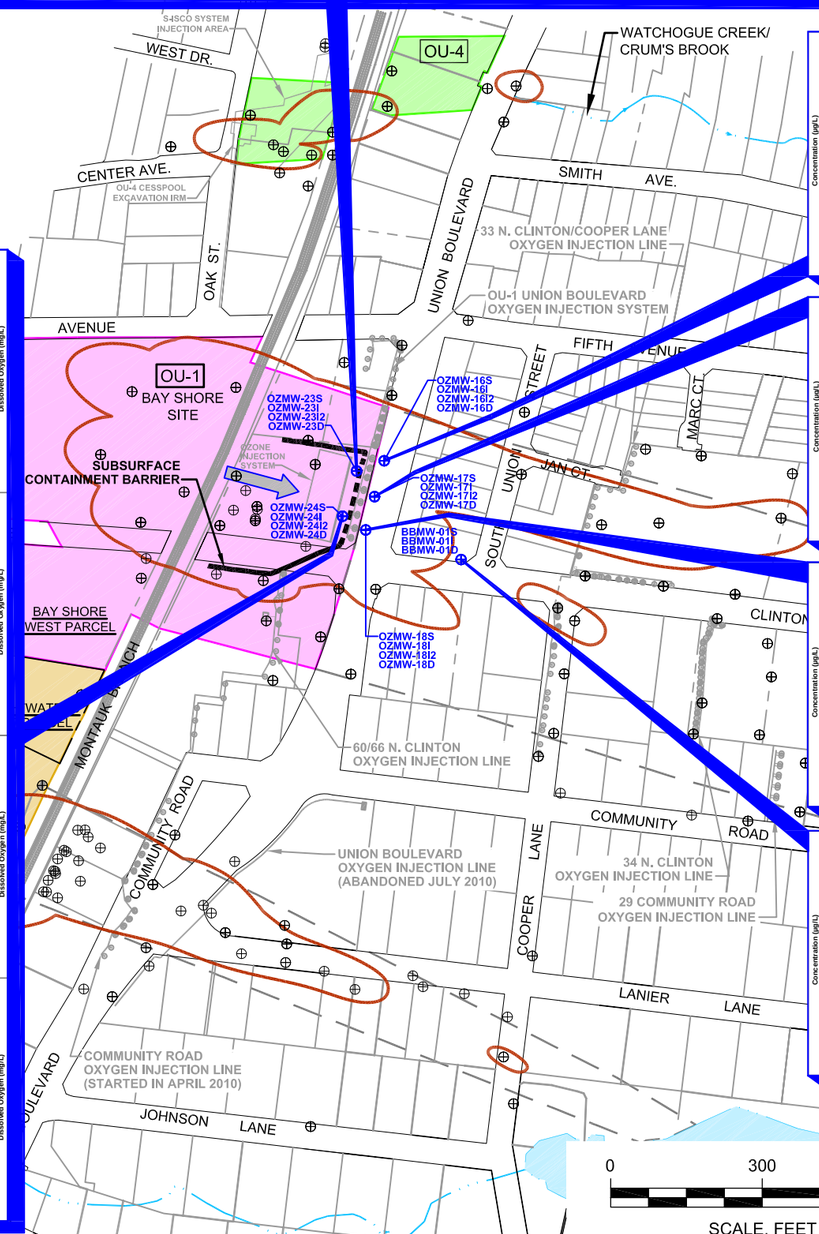












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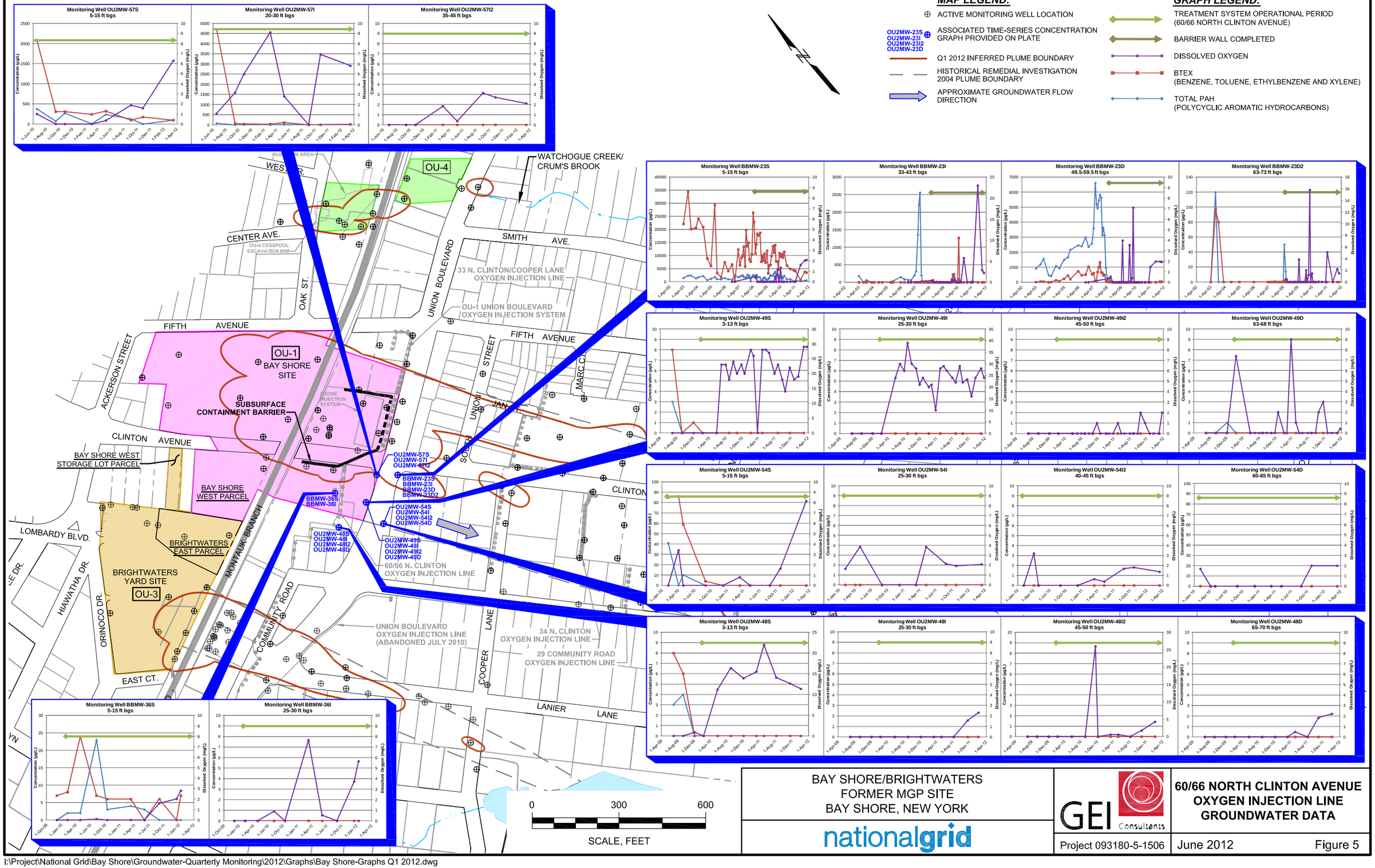
OU-1 UNION BOULEVARD OXYGEN INJECTION LINE GROUNDWATER DATA

June 2012 — Figure 4

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Graphs\Bay Shore-Graphs Q1 2012.dwg



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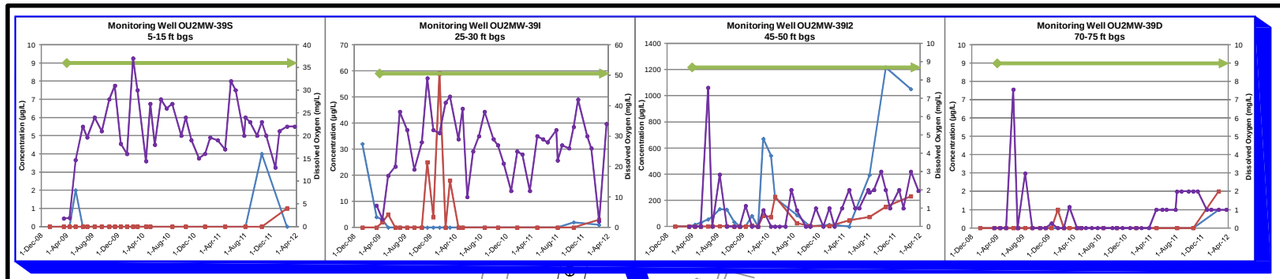
60/66 NORTH CLINTON AVENUE OXYGEN INJECTION LINE GROUNDWATER DATA

June 2012

Figure 5

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Graphs\Bay Shore-Graphs Q1 2012.dwg

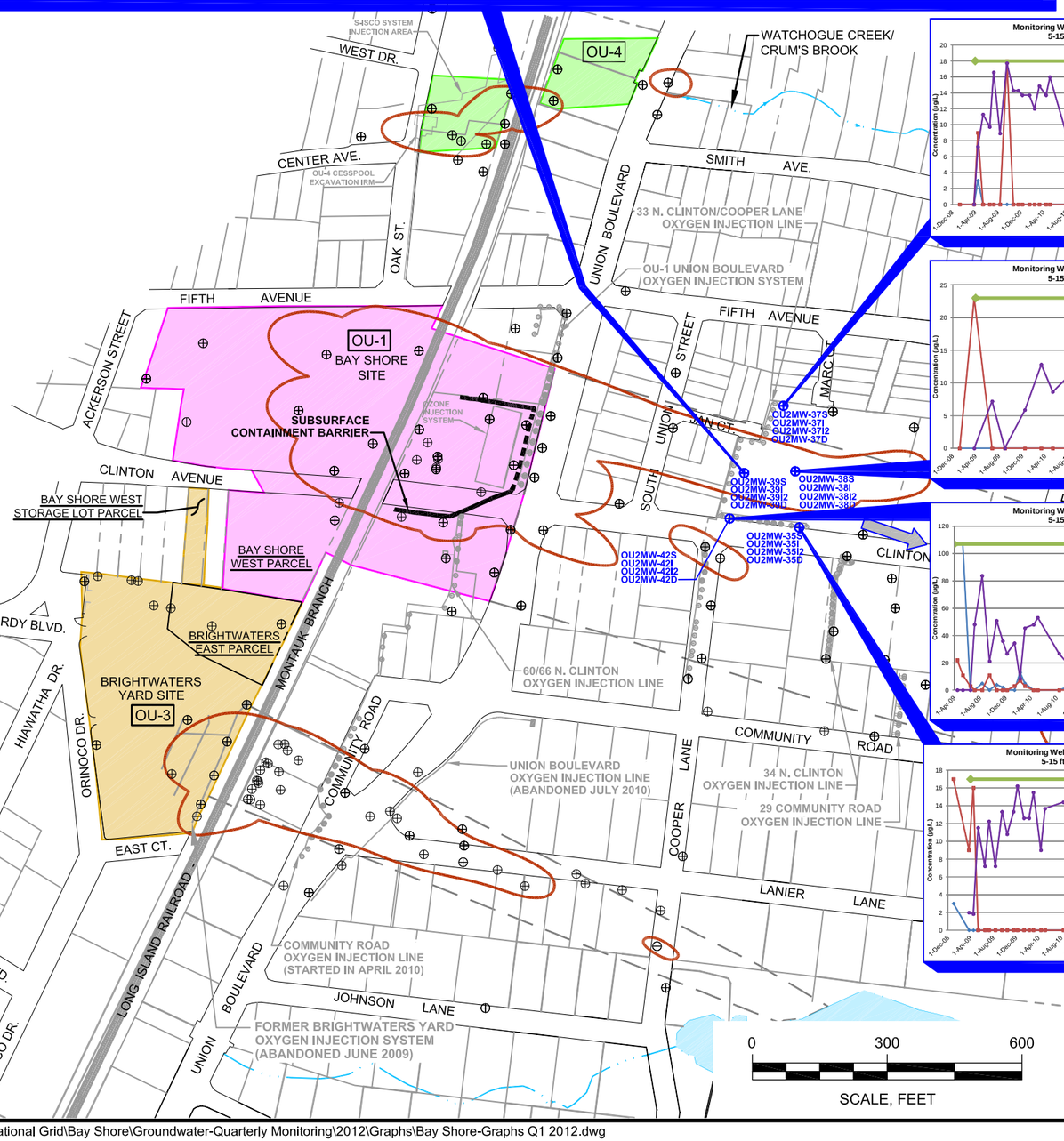


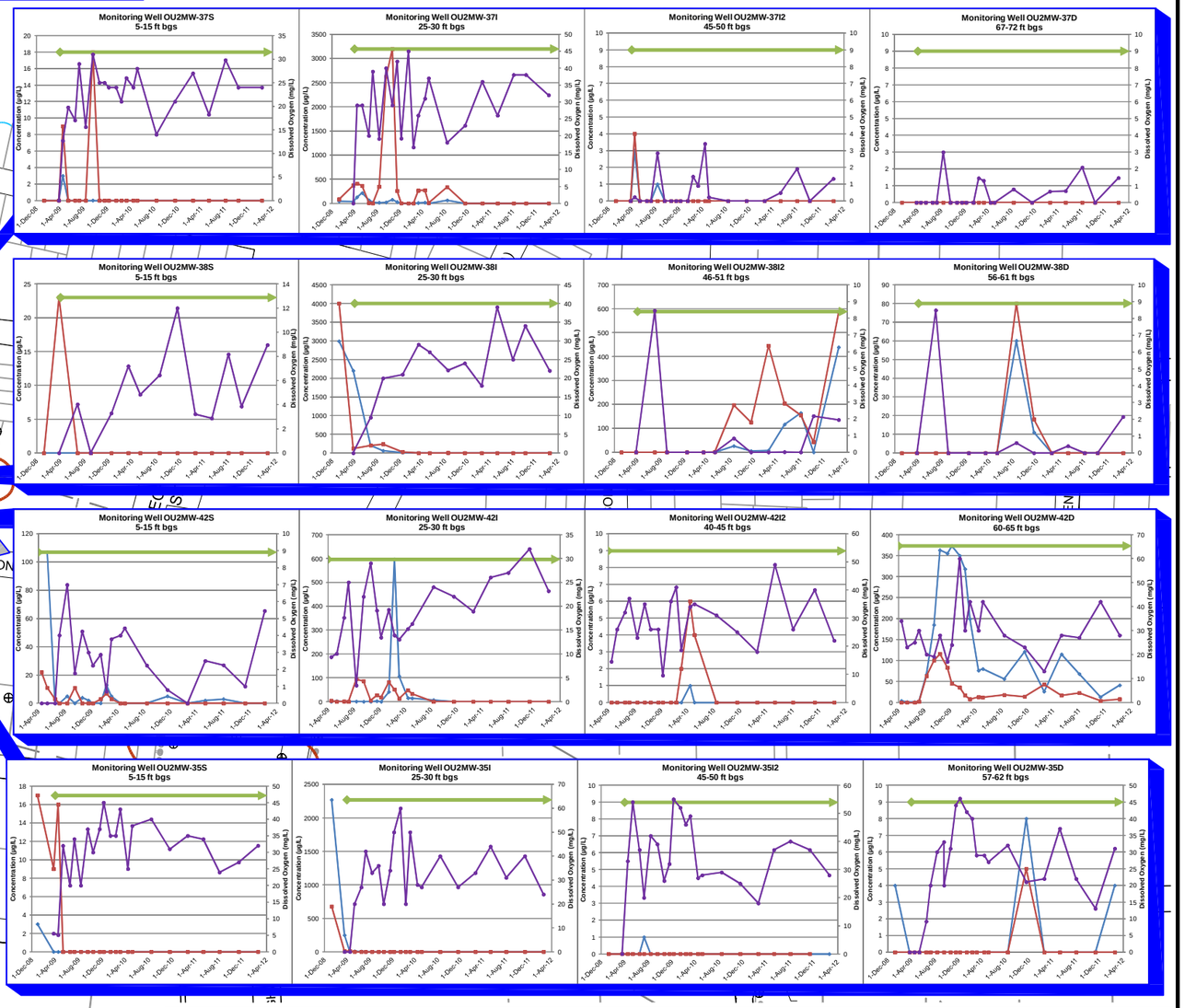
MAP LEGEND:

- ACTIVE MONITORING WELL LOCATION
- OU2MW-42S, OU2MW-42I, OU2MW-42I2, OU2MW-42D — ASSOCIATED TIME-SERIES CONCENTRATION GRAPH PROVIDED ON PLATE
- Q1 2012 INFERRED PLUME BOUNDARY
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY
- APPROXIMATE GROUNDWATER FLOW DIRECTION

GRAPH LEGEND:

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





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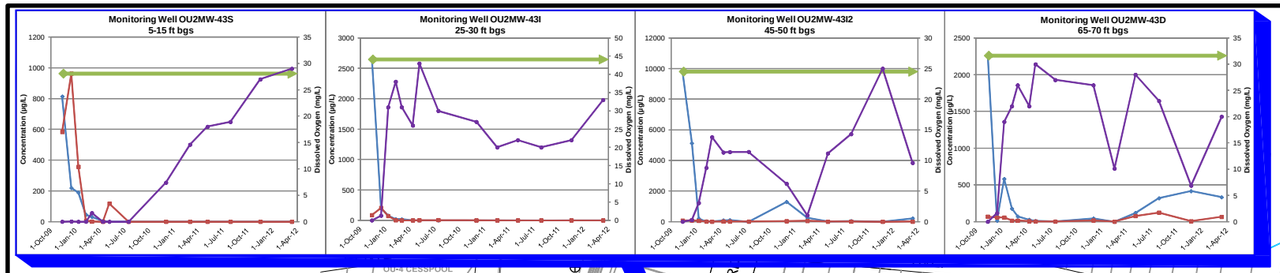
33 NORTH CLINTON AVENUE OXYGEN INJECTION LINE GROUNDWATER DATA

June 2012 — Figure 6

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Graphs\Bay Shore-Graphs Q1 2012.dwg

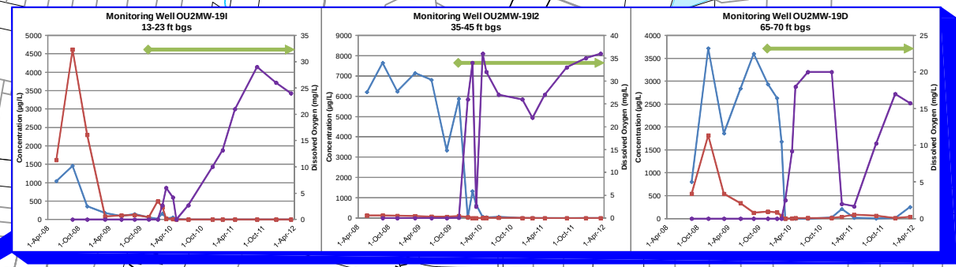


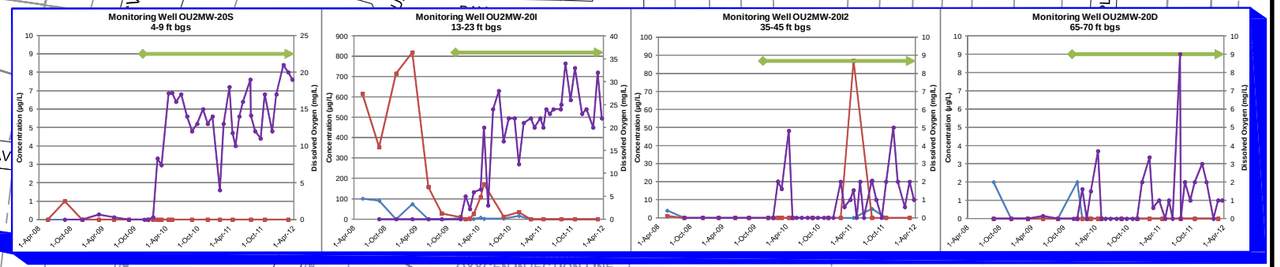
MAP LEGEND:

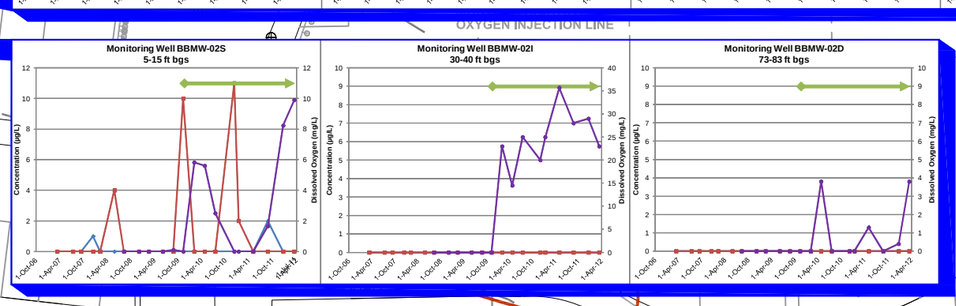
- ACTIVE MONITORING WELL LOCATION
- OU2MW-44S / OU2MW-44I / OU2MW-44I2 / OU2MW-44D — ASSOCIATED TIME-SERIES CONCENTRATION GRAPH PROVIDED ON PLATE
- Q1 2012 INFERRED PLUME BOUNDARY
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY
- APPROXIMATE GROUNDWATER FLOW DIRECTION

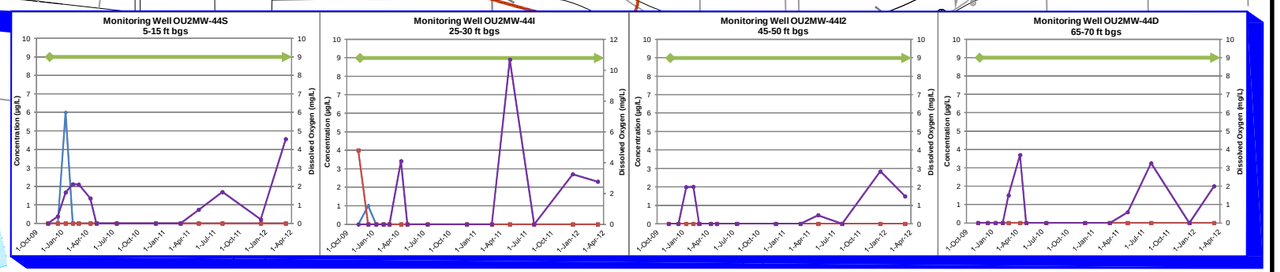
GRAPH LEGEND:

- TREATMENT SYSTEM OPERATIONAL PERIOD (COOPER LANE)
- DISSOLVED OXYGEN
- BTEX (BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE)
- TOTAL PAH (POLYCYCLIC AROMATIC HYDROCARBONS)









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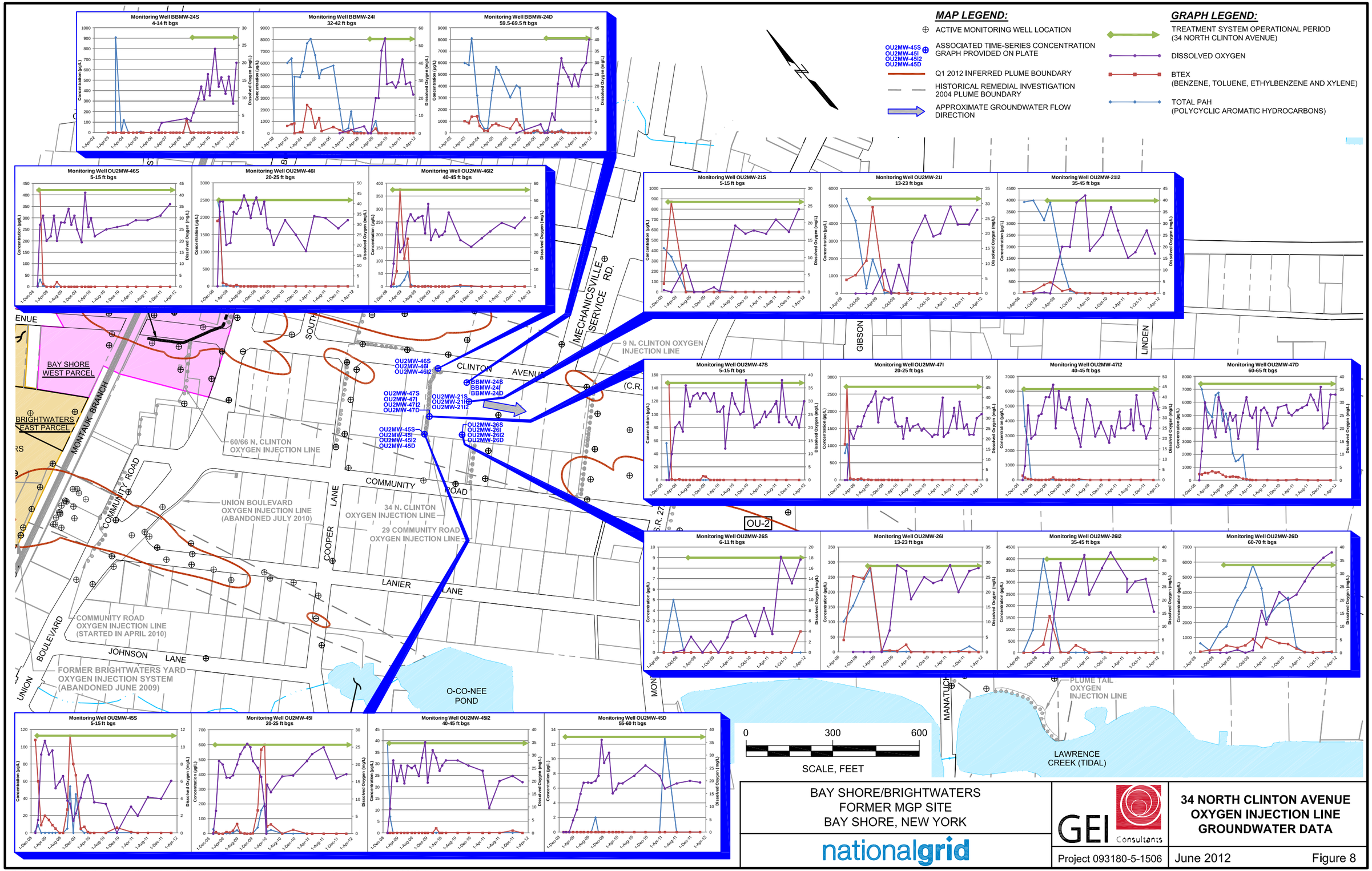
COOPER LANE OXYGEN INJECTION LINE GROUNDWATER DATA

June 2012 — Figure 7

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Graphs\Bay Shore-Graphs Q1 2012.dwg



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34 NORTH CLINTON AVENUE OXYGEN INJECTION LINE GROUNDWATER DATA

Project 093180-5-1506 | June 2012 | Figure 8

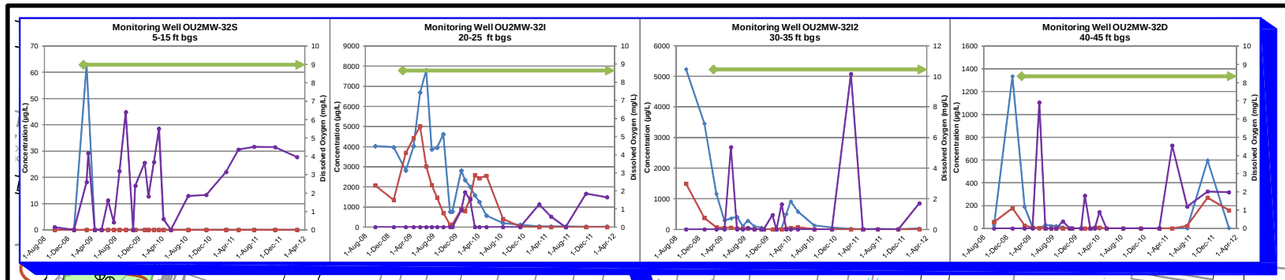
I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Graphs\Bay Shore-Graphs Q1 2012.dwg

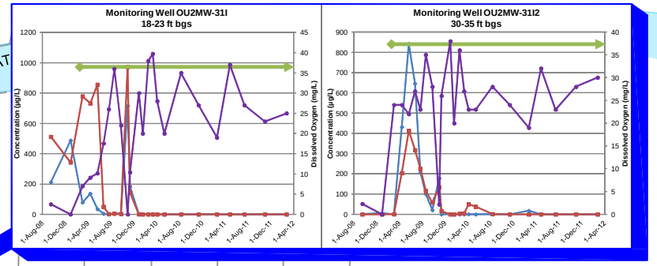
MAP LEGEND:

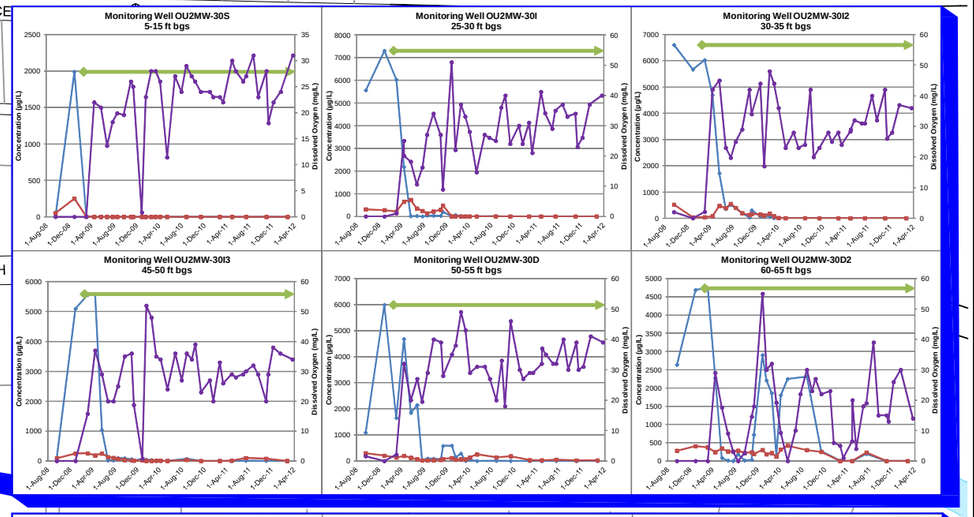
- ACTIVE MONITORING WELL LOCATION
- OU2MW-32S, OU2MW-32I, OU2MW-32I2, OU2MW-32D — ASSOCIATED TIME-SERIES CONCENTRATION GRAPH PROVIDED ON PLATE
- Q1 2012 INFERRED PLUME BOUNDARY
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY
- APPROXIMATE GROUNDWATER FLOW DIRECTION

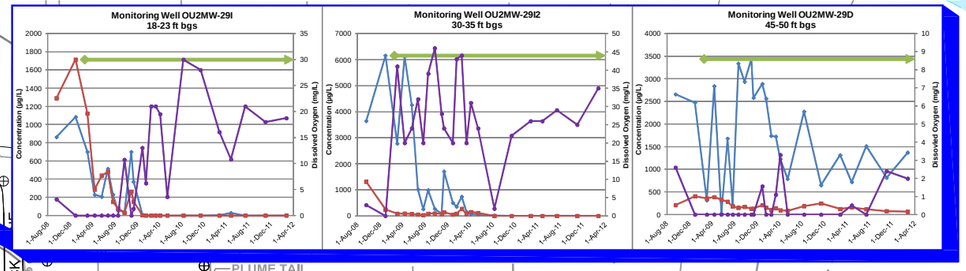
GRAPH LEGEND:

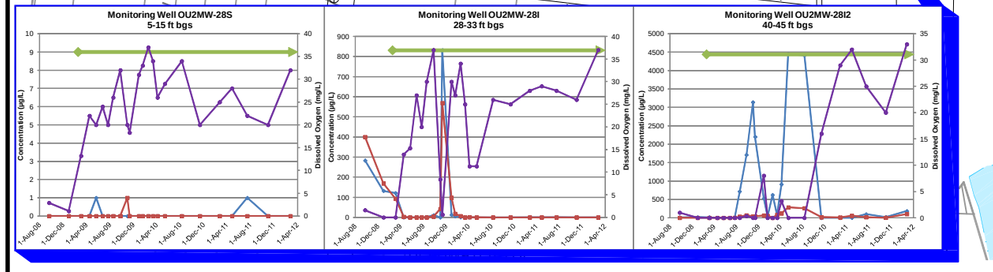
- TREATMENT SYSTEM OPERATIONAL PERIOD (9 NORTH CLINTON AVENUE)
- DISSOLVED OXYGEN
- BTEX (BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE)
- TOTAL PAH (POLYCYCLIC AROMATIC HYDROCARBONS)











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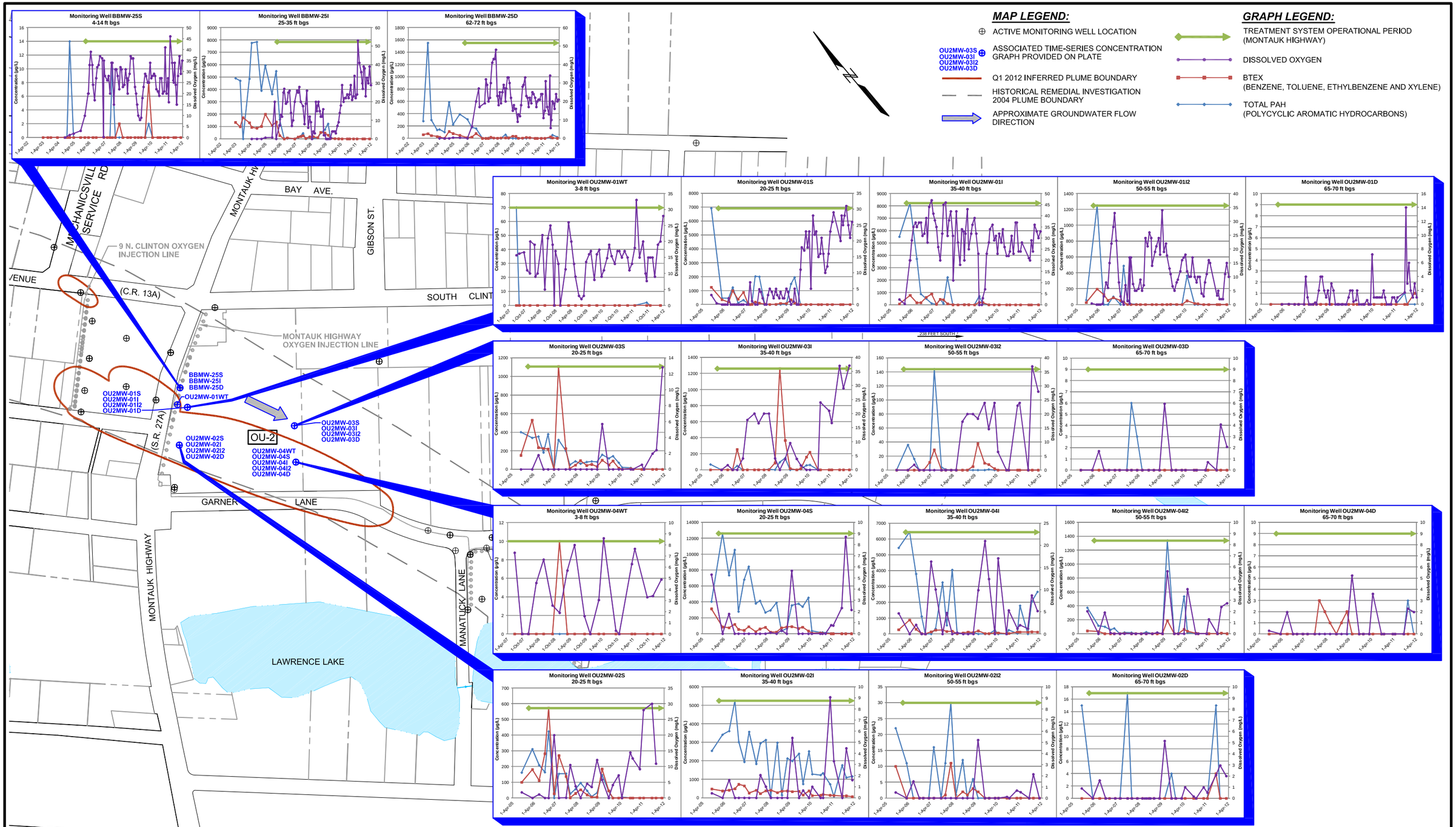
9 NORTH CLINTON AVENUE OXYGEN INJECTION LINE GROUNDWATER DATA

Project 093180-5-1506 | June 2012 | Figure 9

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Graphs\Bay Shore-Graphs Q1 2012.dwg



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MONTAUK HIGHWAY OXYGEN INJECTION LINE GROUNDWATER DATA

Project 093180-5-1506 | June 2012 | Figure 10

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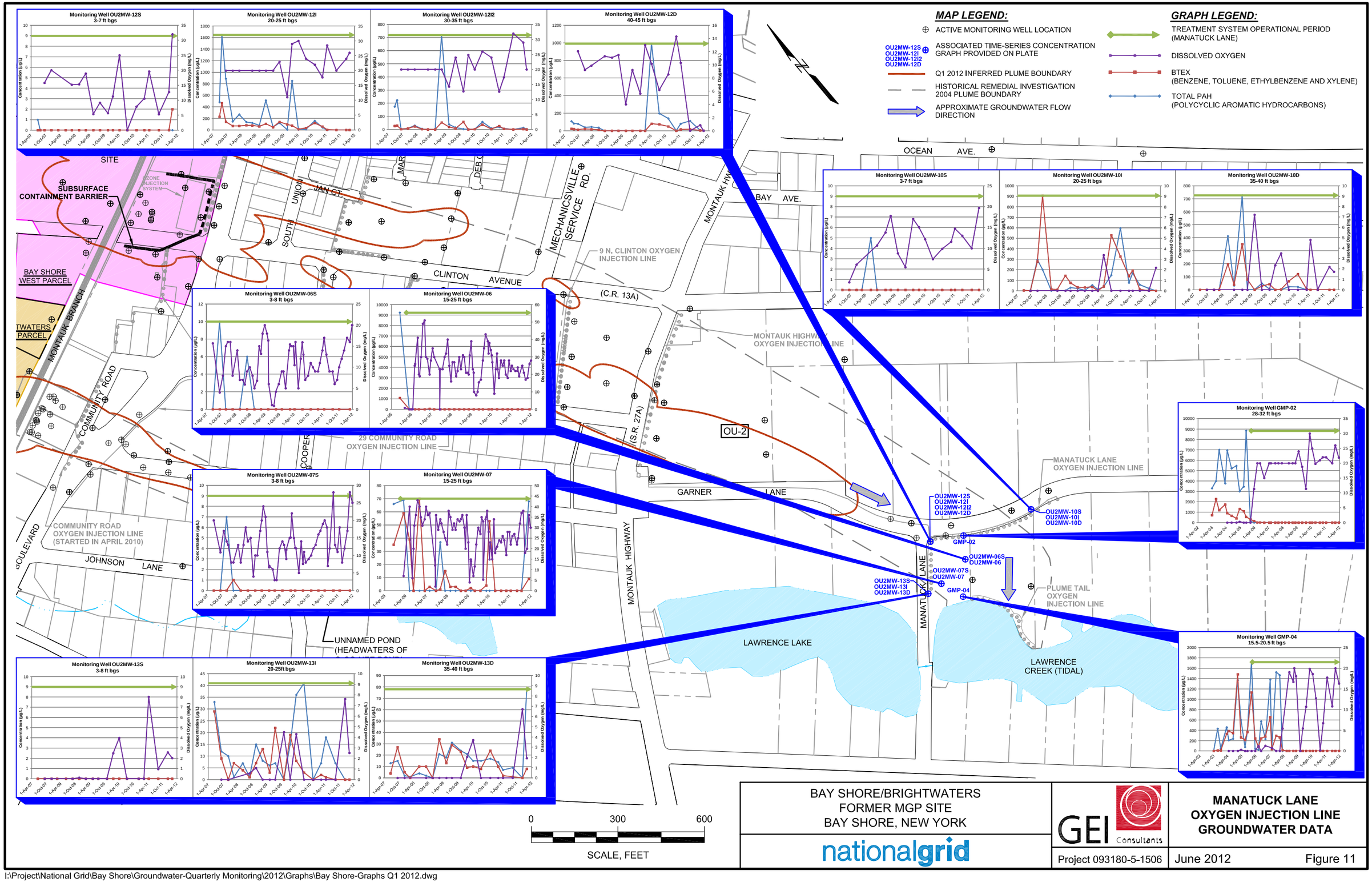

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MANATUCK LANE OXYGEN INJECTION LINE GROUNDWATER DATA

Project 093180-5-1506 | June 2012 | Figure 11

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Graphs\Bay Shore-Graphs Q1 2012.dwg

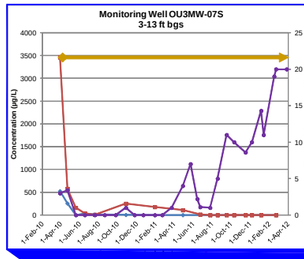
MAP LEGEND:

- ACTIVE MONITORING WELL LOCATION
- OU3MW-04S / OU3MW-04I / OU3MW-04D — ASSOCIATED TIME-SERIES CONCENTRATION GRAPH PROVIDED ON PLATE
- Q1 2012 INFERRED PLUME BOUNDARY
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY
- APPROXIMATE GROUNDWATER FLOW DIRECTION

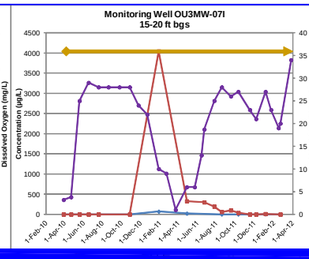
GRAPH LEGEND:

- TREATMENT SYSTEM OPERATIONAL PERIOD (OU-3 UNION BOULEVARD)
- TREATMENT SYSTEM OPERATIONAL PERIOD (COMMUNITY ROAD)
- DISSOLVED OXYGEN
- BTEX (BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE)
- TOTAL PAH (POLYCYCLIC AROMATIC HYDROCARBONS)

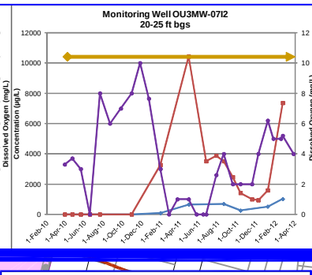
Monitoring Well OU3MW-07S
3-13 ft bgs



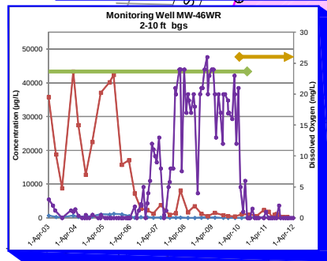
Monitoring Well OU3MW-07I
15-20 ft bgs



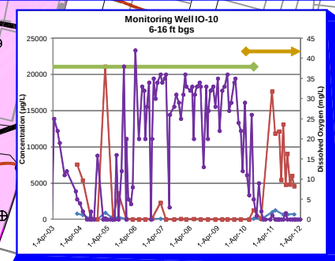
Monitoring Well OU3MW-07I2
20-25 ft bgs



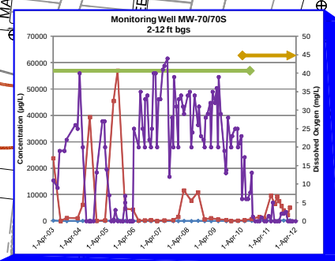
Monitoring Well MW-46WR
2-10 ft bgs



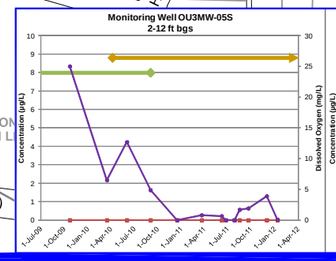
Monitoring Well IO-10
6-16 ft bgs



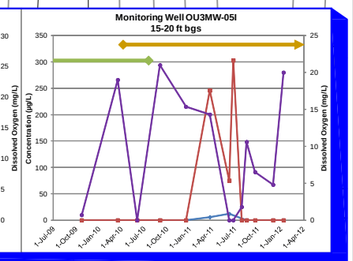
Monitoring Well MW-70/70S
2-12 ft bgs



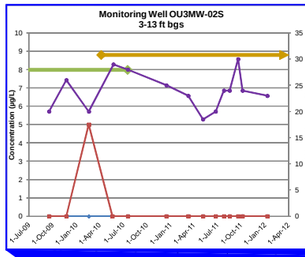
Monitoring Well OU3MW-05S
2-12 ft bgs



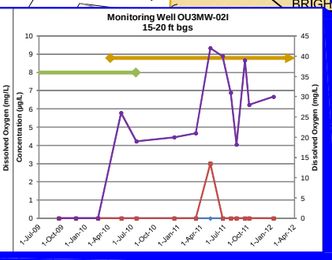
Monitoring Well OU3MW-05I
15-20 ft bgs



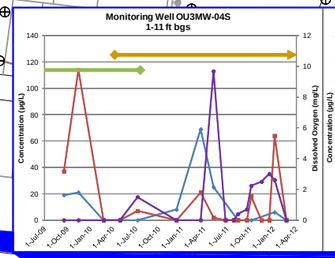
Monitoring Well OU3MW-02S
3-13 ft bgs



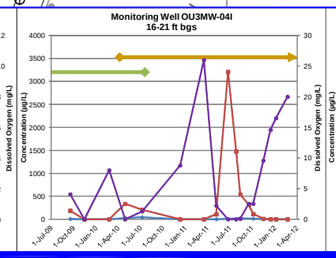
Monitoring Well OU3MW-02I
15-20 ft bgs



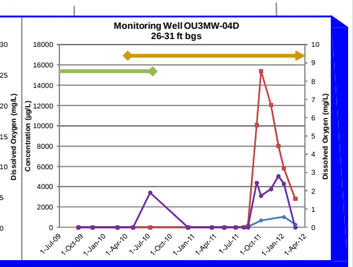
Monitoring Well OU3MW-04S
1-11 ft bgs



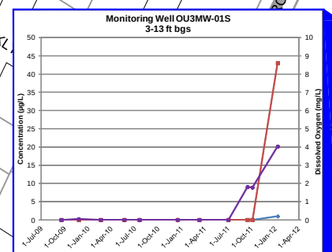
Monitoring Well OU3MW-04I
16-21 ft bgs



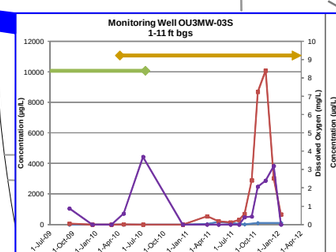
Monitoring Well OU3MW-04D
26-31 ft bgs



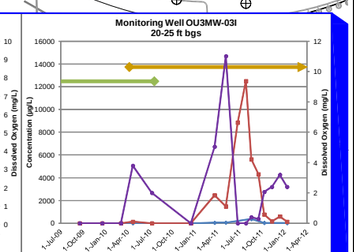
Monitoring Well OU3MW-01S
3-13 ft bgs



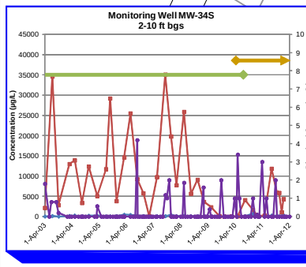
Monitoring Well OU3MW-03S
1-11 ft bgs



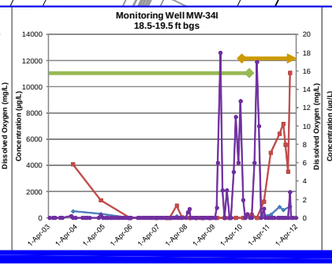
Monitoring Well OU3MW-03I
20-25 ft bgs



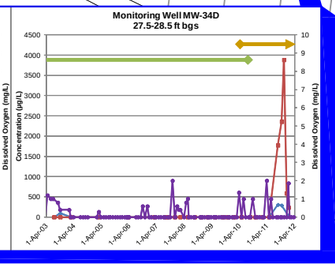
Monitoring Well MW-34S
2-10 ft bgs



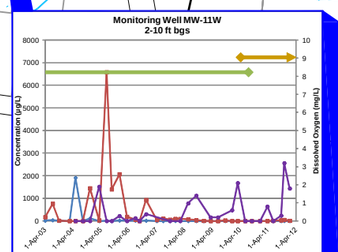
Monitoring Well MW-34I
18.5-19.5 ft bgs



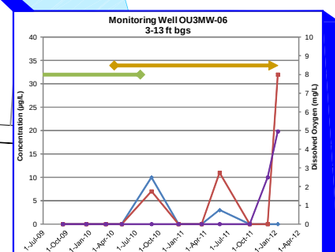
Monitoring Well MW-34D
27.5-28.5 ft bgs



Monitoring Well MW-11W
2-10 ft bgs



Monitoring Well OU3MW-06
3-13 ft bgs



SUBSURFACE CONTAINMENT BARRIER
OZONE INJECTION SYSTEM
BAY SHORE WEST PARCEL
BRIGHTWATERS PARCEL
LOMBARDY BLVD.
MONTAUK BRANCH
COMMUNITY ROAD
60/66 N. CLINTON OXYGEN INJECTION LINE
UNION BOULEVARD OXYGEN INJECTION LINE (ABANDONED JULY 2010)
34 N. CLINTON OXYGEN INJECTION LINE
29 COMMUNITY ROAD OXYGEN INJECTION LINE
COMMUNITY ROAD OXYGEN INJECTION LINE (STARTED IN APRIL 2010)
9 N. CLINTON INJECTION LINE
MONTAUK HIGHWAY OXYGEN INJECTION LINE
COOPER LANE
LANIER LANE
JOHNSON LANE
MARC CT
OCEAN AVE.
HWY.
(C.R. 13A)
O-CO-NEE POND
MANATUCK BLVD.
BROOKLINE BOULEVARD
OU3MW-07S
OU3MW-07I
OU3MW-07I2
OU3MW-05S
OU3MW-05I
IO-10
MW-46W-R
MW-70/70S
OU3MW-04S
OU3MW-04I
OU3MW-04D
MW-34S
MW-34I
MW-34D
OU3MW-02S
OU3MW-02I
OU3MW-01S
OU3MW-03S
OU3MW-03I
MW-11W
OU3MW-06

0 300 600
SCALE, FEET

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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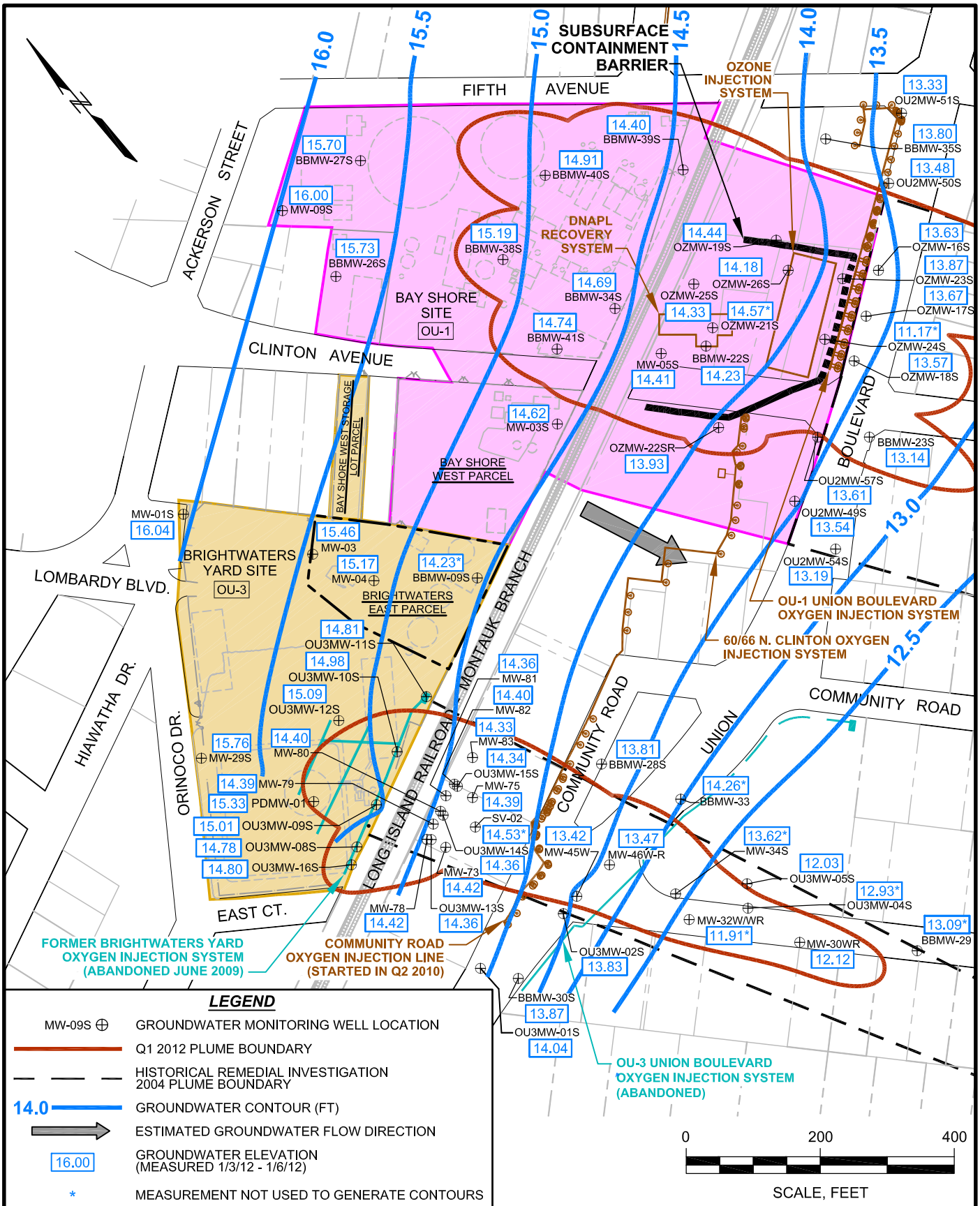
COMMUNITY ROAD OXYGEN INJECTION LINE GROUNDWATER DATA

Project 093180-5-1506 | June 2012 | Figure 12

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Graphs\Bay Shore-Graphs Q1 2012.dwg



BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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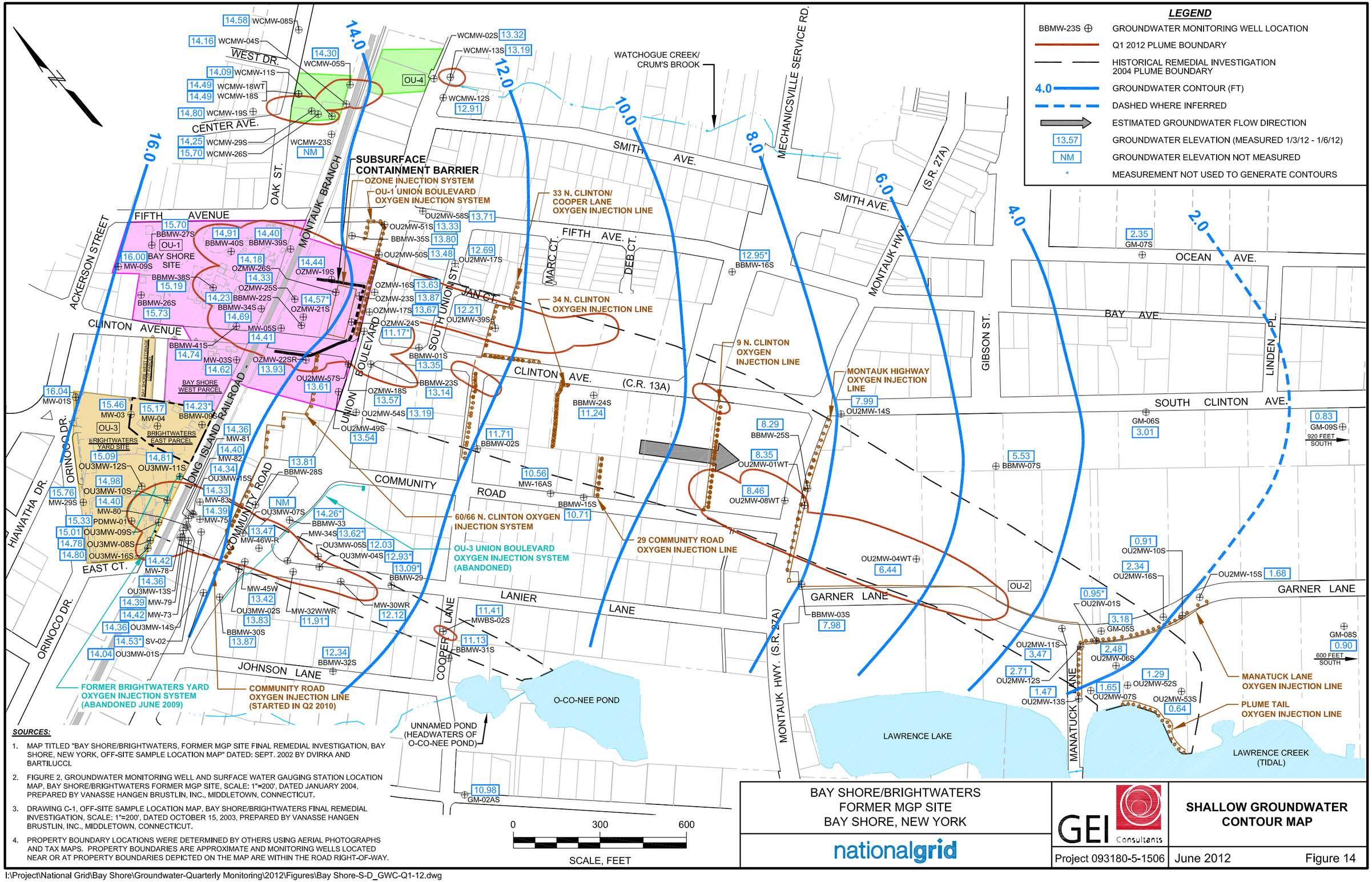
ON-SITE SHALLOW GROUNDWATER CONTOUR MAP

Project 093180-5-1506 | June 2012 | Figure 13

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Figures\Bay Shore-Onsite-SGWC-Q1-12.dwg



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. 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.
4. PROPERTY BOUNDARY LOCATIONS WERE DETERMINED BY OTHERS USING AERIAL PHOTOGRAPHS AND TAX MAPS. PROPERTY BOUNDARIES ARE APPROXIMATE AND MONITORING WELLS LOCATED NEAR OR AT PROPERTY BOUNDARIES DEPICTED ON THE MAP ARE WITHIN THE ROAD RIGHT-OF-WAY.

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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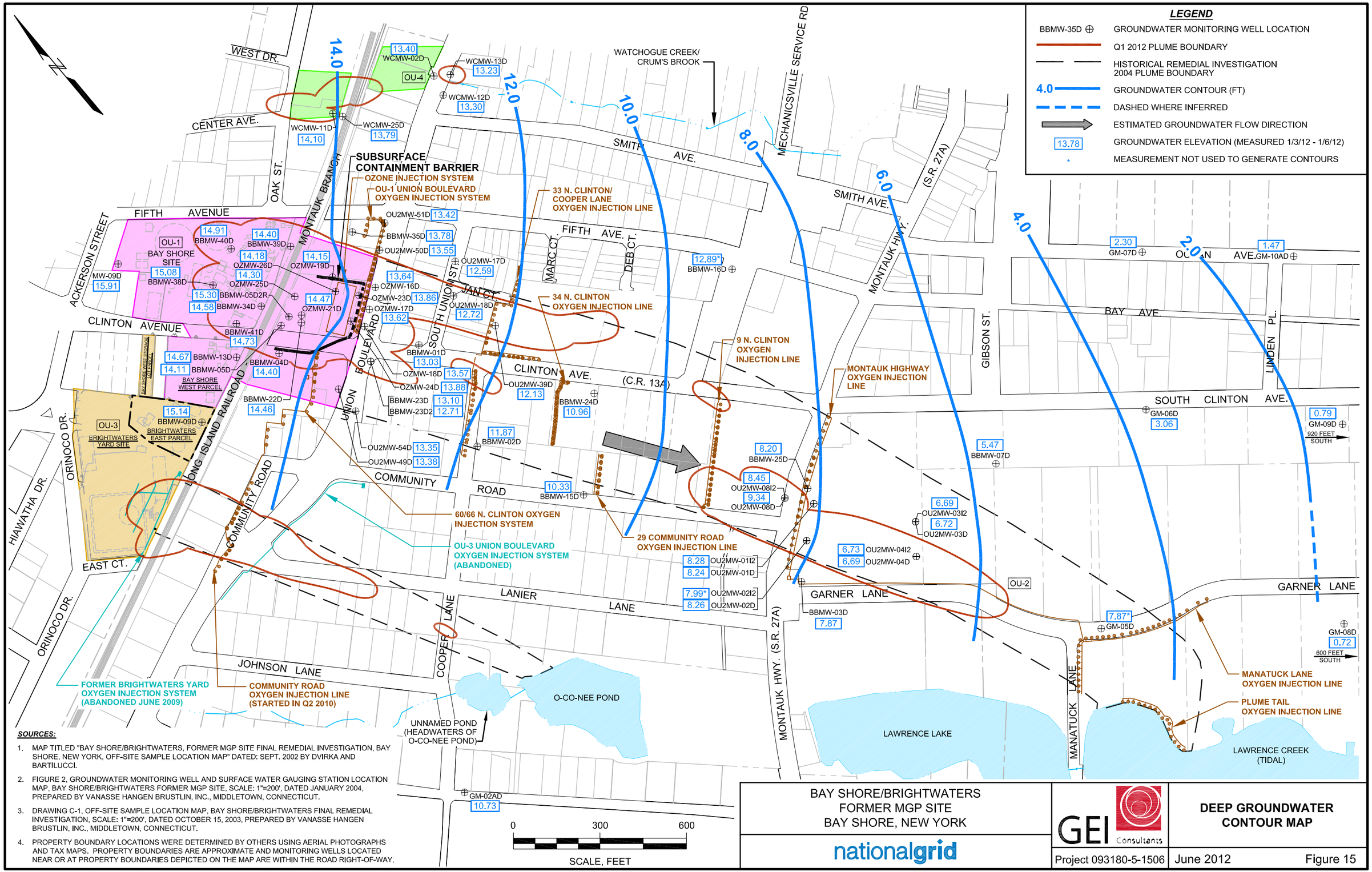
SHALLOW GROUNDWATER CONTOUR MAP

Project 093180-5-1506 | June 2012 | Figure 14

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Figures\Bay Shore-S-D_GWC-Q1-12.dwg



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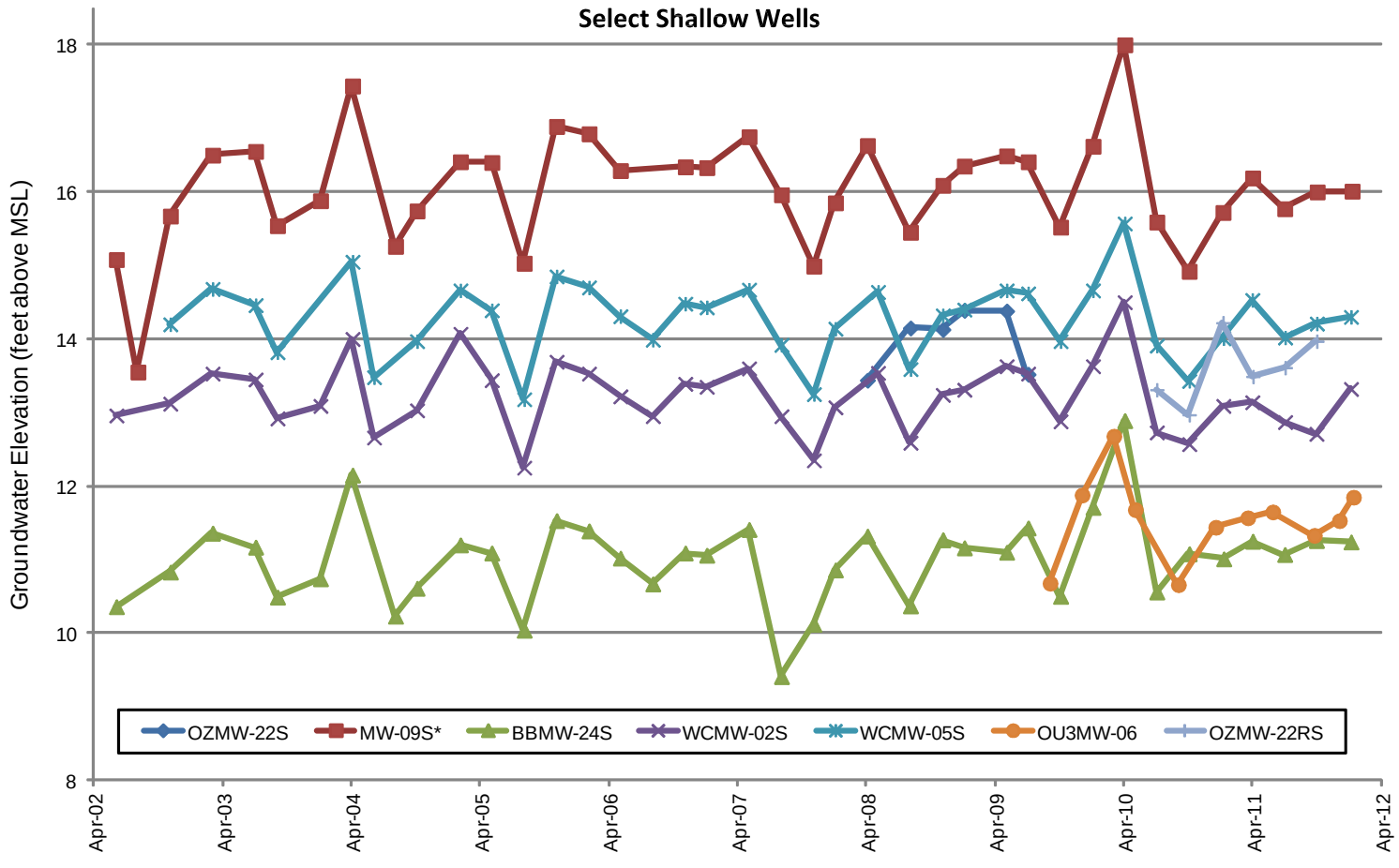

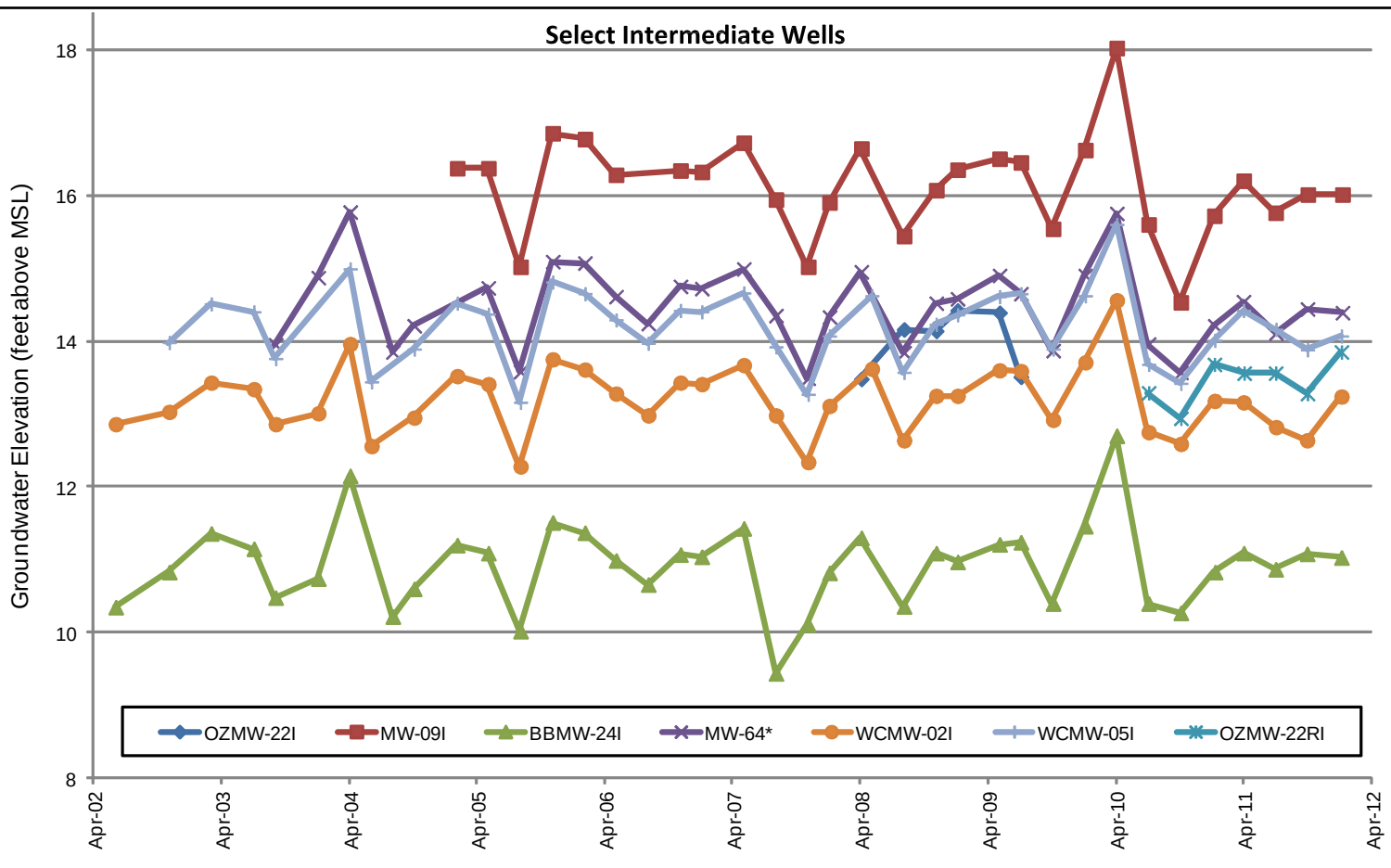

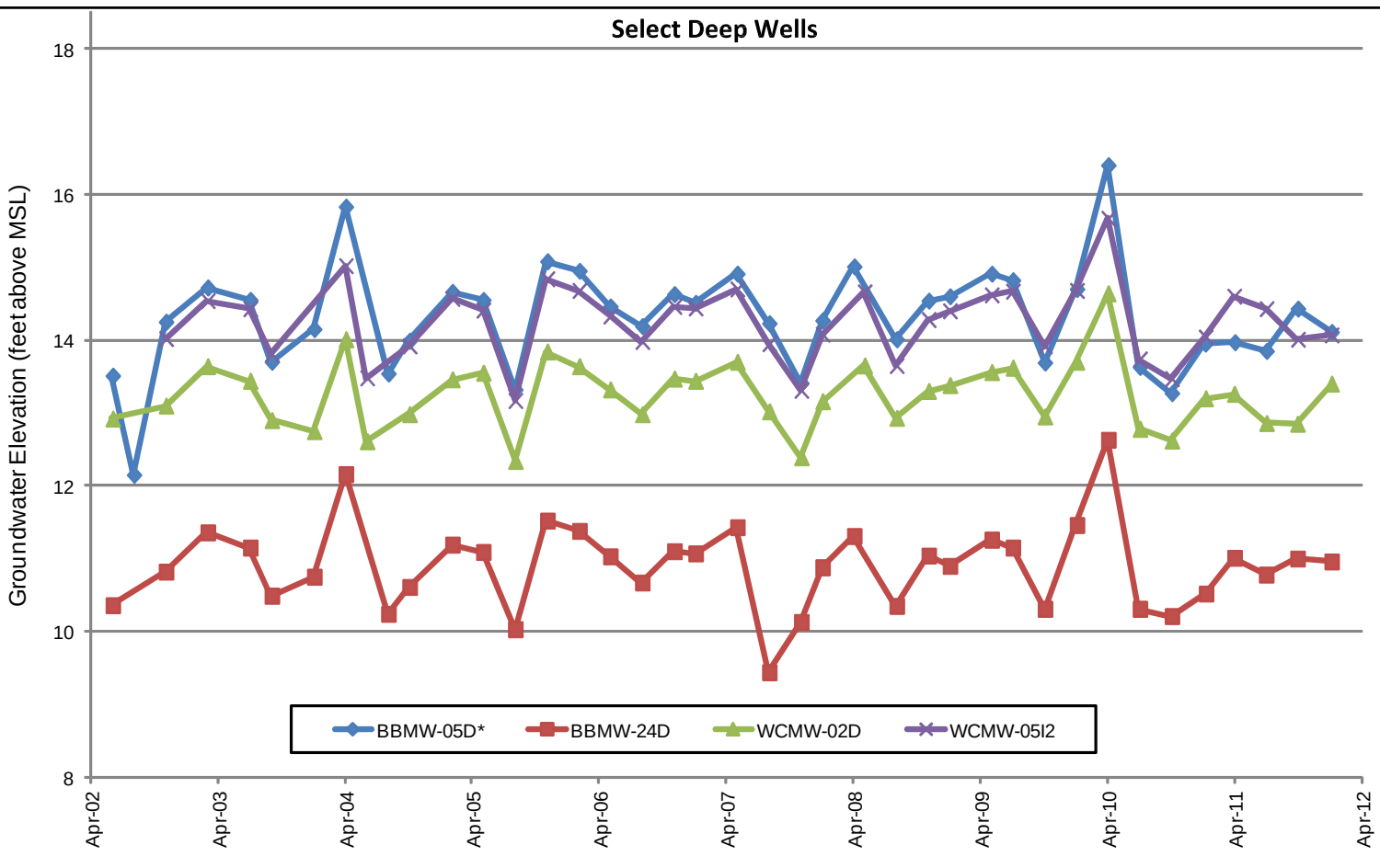

NOTES:

1. *DATA PRIOR TO JANUARY 2002 NOT SHOWN.
2. MSL = MEAN SEA LEVEL

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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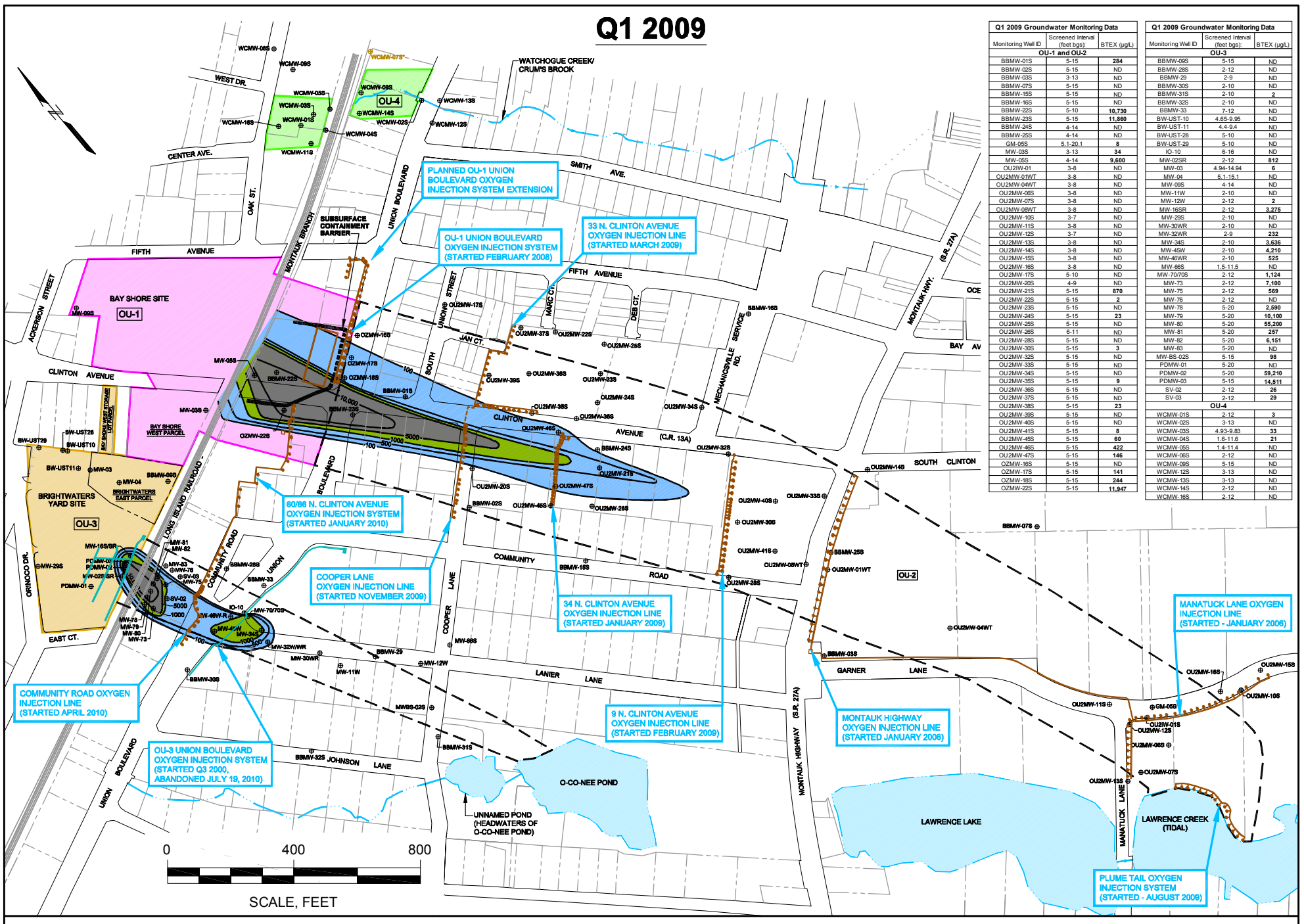
HYDROGRAPHS OF SELECT WELLS

Project 093180-5-1506 | June 2012 | Figure 16

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\Graphs\Bay Shore-Hydrographs Q1-12.dwg

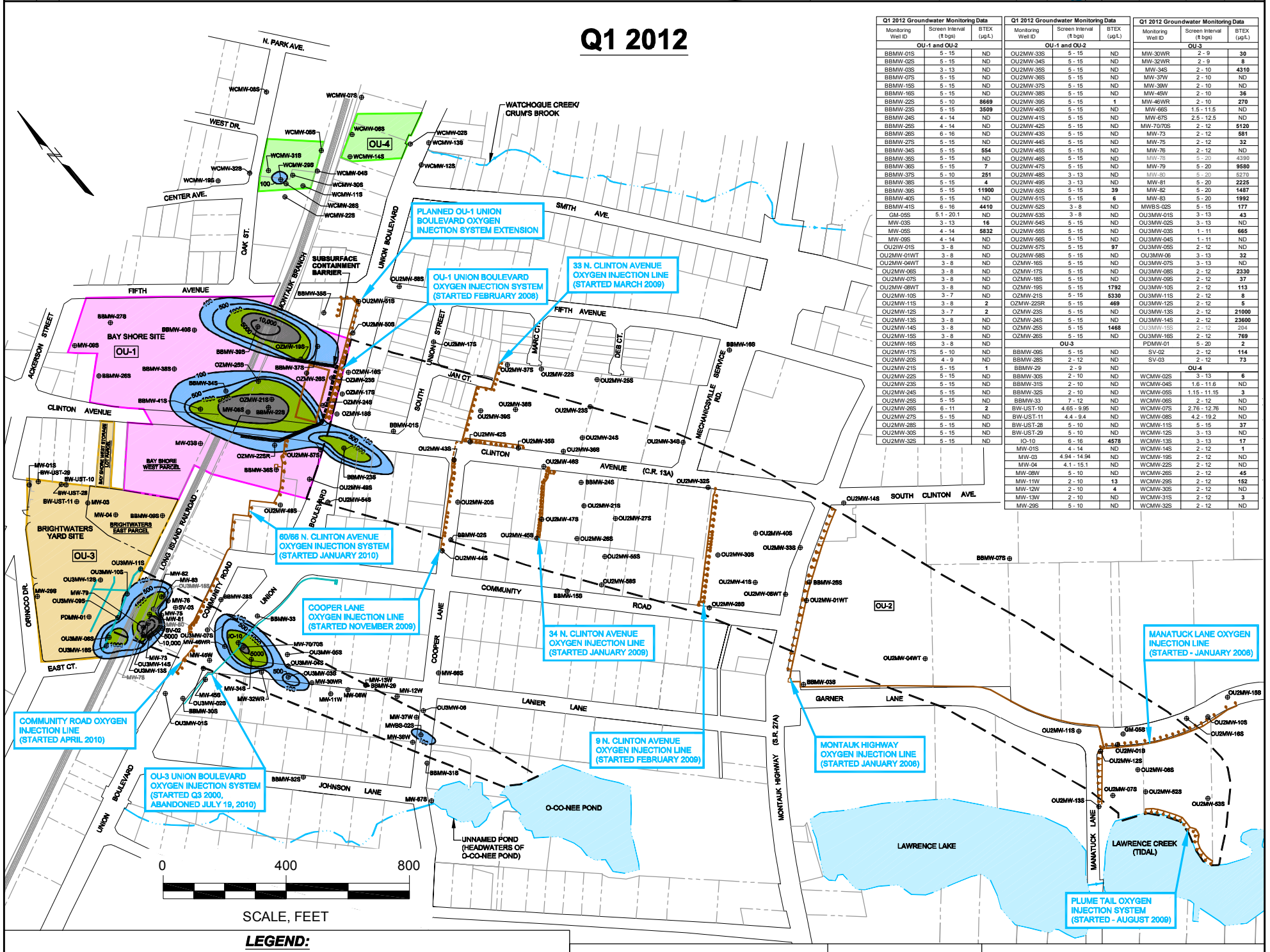
Q1 2009



Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01S	5-15	**284**
BBMW-02S	5-15	ND
BBMW-03S	3-13	ND
BBMW-07S	5-15	ND
BBMW-15S	5-15	ND
BBMW-16S	5-15	ND
BBMW-22S	5-10	**10,730**
BBMW-23S	5-15	**11,860**
BBMW-24S	4-14	ND
BBMW-25S	4-14	ND
GM-05S	5.1-20.1	**8**
MW-03S	3-13	**34**
MW-05S	4-14	**9,600**
OU2IW-01	3-8	ND
OU2MW-01WT	3-8	ND
OU2MW-04WT	3-8	ND
OU2MW-06S	3-8	ND
OU2MW-07S	3-8	ND
OU2MW-08WT	3-8	ND
OU2MW-10S	3-7	ND
OU2MW-11S	3-8	ND
OU2MW-12S	3-7	ND
OU2MW-13S	3-8	ND
OU2MW-14S	3-8	ND
OU2MW-15S	3-8	ND
OU2MW-16S	3-8	ND
OU2MW-17S	5-10	ND
OU2MW-20S	4-9	ND
OU2MW-21S	5-15	**870**
OU2MW-22S	5-15	**2**
OU2MW-23S	5-15	ND
OU2MW-24S	5-15	**23**
OU2MW-25S	5-15	ND
OU2MW-26S	6-11	ND
OU2MW-28S	5-15	ND
OU2MW-30S	5-15	**3**
OU2MW-32S	5-15	ND
OU2MW-33S	5-15	ND
OU2MW-34S	5-15	ND
OU2MW-35S	5-15	**9**
OU2MW-36S	5-15	ND
OU2MW-37S	5-15	ND
OU2MW-38S	5-15	**23**
OU2MW-39S	5-15	ND
OU2MW-40S	5-15	ND
OU2MW-41S	5-15	**8**
OU2MW-45S	5-15	**60**
OU2MW-46S	5-15	**422**
OU2MW-47S	5-15	**146**
OZMW-16S	5-15	ND
OZMW-17S	5-15	**141**
OZMW-18S	5-15	**244**
OZMW-22S	5-15	**11,947**

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-3		
BBMW-09S	5-15	ND
BBMW-28S	2-12	ND
BBMW-29	2-9	ND
BBMW-30S	2-10	ND
BBMW-31S	2-10	**2**
BBMW-32S	2-10	ND
BBMW-33	7-12	ND
BW-UST-10	4.65-9.95	ND
BW-UST-11	4.4-9.4	ND
BW-UST-28	5-10	ND
BW-UST-29	5-10	ND
IO-10	6-16	ND
MW-02SR	2-12	**812**
MW-03	4.94-14.94	**6**
MW-04	5.1-15.1	ND
MW-09S	4-14	ND
MW-11W	2-10	ND
MW-12W	2-12	**2**
MW-16SR	2-12	**3,275**
MW-29S	2-10	ND
MW-30WR	2-10	ND
MW-32WR	2-9	**232**
MW-34S	2-10	**3,636**
MW-45W	2-10	**4,210**
MW-46WR	2-10	**525**
MW-66S	1.5-11.5	ND
MW-70/70S	2-12	**1,124**
MW-73	2-12	**7,100**
MW-75	2-12	**569**
MW-76	2-12	ND
MW-78	5-20	**2,590**
MW-79	5-20	**10,100**
MW-80	5-20	**55,200**
MW-81	5-20	**257**
MW-82	5-20	**6,151**
MW-83	5-20	ND
MW-BS-02S	5-15	**98**
PDMW-01	5-20	ND
PDMW-02	5-20	**59,210**
PDMW-03	5-15	**14,511**
SV-02	2-12	**26**
SV-03	2-12	**29**
OU-4		
WCMW-01S	2-12	**3**
WCMW-02S	3-13	ND
WCMW-03S	4.93-9.83	**33**
WCMW-04S	1.6-11.6	**21**
WCMW-05S	1.4-11.4	ND
WCMW-06S	2-12	ND
WCMW-09S	5-15	ND
WCMW-12S	3-13	ND
WCMW-13S	3-13	ND
WCMW-14S	2-12	ND
WCMW-16S	2-12	ND

Q1 2012



Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01S	5 - 15	ND
BBMW-02S	5 - 15	ND
BBMW-03S	3 - 13	ND
BBMW-07S	5 - 15	ND
BBMW-15S	5 - 15	ND
BBMW-16S	5 - 15	ND
BBMW-22S	5 - 10	**8669**
BBMW-23S	5 - 15	**3509**
BBMW-24S	4 - 14	ND
BBMW-25S	4 - 14	ND
BBMW-26S	6 - 16	ND
BBMW-27S	5 - 15	ND
BBMW-34S	5 - 15	**554**
BBMW-35S	5 - 15	ND
BBMW-36S	5 - 15	**7**
BBMW-37S	5 - 10	**251**
BBMW-38S	5 - 15	**4**
BBMW-39S	5 - 15	**11900**
BBMW-40S	5 - 15	ND
BBMW-41S	6 - 16	**4410**
GM-05S	5.1 - 20.1	ND
MW-03S	3 - 13	**16**
MW-05S	4 - 14	**5832**
MW-09S	4 - 14	ND
OU2IW-01S	3 - 8	ND
OU2MW-01WT	3 - 8	ND
OU2MW-04WT	3 - 8	ND
OU2MW-06S	3 - 8	ND
OU2MW-07S	3 - 8	ND
OU2MW-08WT	3 - 8	ND
OU2MW-10S	3 - 7	ND
OU2MW-11S	3 - 8	**2**
OU2MW-12S	3 - 7	**2**
OU2MW-13S	3 - 8	ND
OU2MW-14S	3 - 8	ND
OU2MW-15S	3 - 8	ND
OU2MW-16S	3 - 8	ND
OU2MW-17S	5 - 10	ND
OU2MW-20S	4 - 9	ND
OU2MW-21S	5 - 15	**1**
OU2MW-22S	5 - 15	ND
OU2MW-23S	5 - 15	ND
OU2MW-24S	5 - 15	ND
OU2MW-25S	5 - 15	ND
OU2MW-26S	6 - 11	**2**
OU2MW-27S	5 - 15	ND
OU2MW-28S	5 - 15	ND
OU2MW-30S	5 - 15	ND
OU2MW-32S	5 - 15	ND

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OU2MW-33S	5 - 15	ND
OU2MW-34S	5 - 15	ND
OU2MW-35S	5 - 15	ND
OU2MW-36S	5 - 15	ND
OU2MW-37S	5 - 15	ND
OU2MW-38S	5 - 15	ND
OU2MW-39S	5 - 15	**1**
OU2MW-40S	5 - 15	ND
OU2MW-41S	5 - 15	ND
OU2MW-42S	5 - 15	ND
OU2MW-43S	5 - 15	ND
OU2MW-44S	5 - 15	ND
OU2MW-45S	5 - 15	ND
OU2MW-46S	5 - 15	ND
OU2MW-47S	5 - 15	ND
OU2MW-48S	3 - 13	ND
OU2MW-49S	3 - 13	ND
OU2MW-50S	5 - 15	**39**
OU2MW-51S	5 - 15	**6**
OU2MW-52S	3 - 8	ND
OU2MW-53S	3 - 8	ND
OU2MW-54S	5 - 15	ND
OU2MW-55S	5 - 15	ND
OU2MW-56S	5 - 15	ND
OU2MW-57S	5 - 15	**97**
OU2MW-58S	5 - 15	ND
OZMW-16S	5 - 15	ND
OZMW-17S	5 - 15	ND
OZMW-18S	5 - 15	ND
OZMW-19S	5 - 15	**1792**
OZMW-21S	5 - 15	**5330**
OZMW-22SR	5 - 15	**469**
OZMW-23S	5 - 15	ND
OZMW-24S	5 - 15	ND
OZMW-25S	5 - 15	**1468**
OZMW-26S	5 - 15	ND
OU-3		
BBMW-09S	5 - 15	ND
BBMW-28S	2 - 12	ND
BBMW-29	2 - 9	ND
BBMW-30S	2 - 10	ND
BBMW-31S	2 - 10	ND
BBMW-32S	2 - 10	ND
BBMW-33	7 - 12	ND
BW-UST-10	4.65 - 9.95	ND
BW-UST-11	4.4 - 9.4	ND
BW-UST-28	5 - 10	ND
BW-UST-29	5 - 10	ND
IO-10	6 - 16	**4578**
MW-01S	4 - 14	ND
MW-03	4.94 - 14.94	ND
MW-04	4.1 - 15.1	ND
MW-08W	5 - 10	ND
MW-11W	2 - 10	**13**
MW-12W	2 - 10	**4**
MW-13W	2 - 10	ND
MW-29S	5 - 10	ND

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-3		
MW-30WR	2 - 9	**30**
MW-32WR	2 - 9	**8**
MW-34S	2 - 10	**4310**
MW-37W	2 - 10	ND
MW-39W	2 - 10	ND
MW-45W	2 - 10	**36**
MW-46WR	2 - 10	**270**
MW-66S	1.5 - 11.5	ND
MW-67S	2.5 - 12.5	ND
MW-70/70S	2 - 12	**5120**
MW-73	2 - 12	**581**
MW-75	2 - 12	**32**
MW-76	2 - 12	ND
MW-78	5 - 20	4390
MW-79	5 - 20	**9580**
MW-80	5 - 20	5270
MW-81	5 - 20	**2225**
MW-82	5 - 20	**1487**
MW-83	5 - 20	**1992**
MWBS-02S	5 - 15	**177**
OU3MW-01S	3 - 13	**43**
OU3MW-02S	3 - 13	ND
OU3MW-03S	1 - 11	**665**
OU3MW-04S	1 - 11	ND
OU3MW-05S	2 - 12	ND
OU3MW-06	3 - 13	**32**
OU3MW-07S	3 - 13	ND
OU3MW-08S	2 - 12	**2330**
OU3MW-09S	2 - 12	**37**
OU3MW-10S	2 - 12	**113**
OU3MW-11S	2 - 12	**8**
OU3MW-12S	2 - 12	**5**
OU3MW-13S	2 - 12	**21000**
OU3MW-14S	2 - 12	**23600**
OU3MW-15S	2 - 12	204
OU3MW-16S	2 - 12	**769**
PDMW-01	5 - 20	**2**
SV-02	2 - 12	**114**
SV-03	2 - 12	**73**
OU-4		
WCMW-02S	3 - 13	**6**
WCMW-04S	1.6 - 11.6	ND
WCMW-05S	1.15 - 11.15	**3**
WCMW-06S	2 - 12	ND
WCMW-07S	2.76 - 12.76	ND
WCMW-08S	4.2 - 19.2	ND
WCMW-11S	5 - 15	**37**
WCMW-12S	3 - 13	ND
WCMW-13S	3 - 13	**17**
WCMW-14S	2 - 12	**1**
WCMW-19S	2 - 12	ND
WCMW-22S	2 - 12	ND
WCMW-26S	2 - 12	**45**
WCMW-29S	2 - 12	**152**
WCMW-30S	2 - 12	ND
WCMW-31S	2 - 12	**3**
WCMW-32S	2 - 12	ND

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕ MW-78 — MONITORING WELL (NOT USED TO GENERATE CONTOURS)
- ** — MONITORING WELL INITIALLY SAMPLED IN Q1 2009
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME EXTENT BASED ON >100 µg/L BTEX OR >100 µg/L TOTAL PAHs DETECTED IN GROUNDWATER
- INSTALLED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)

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

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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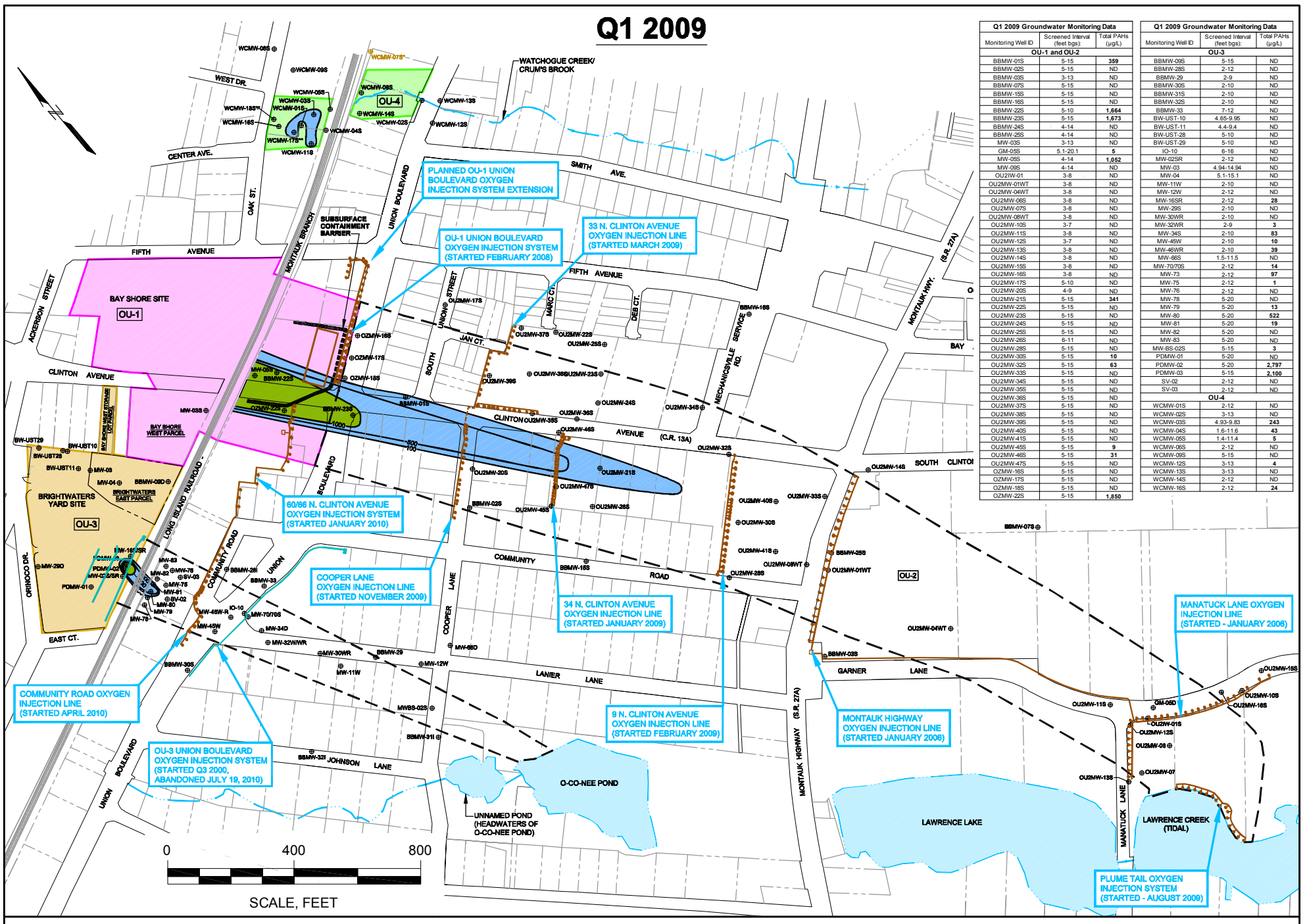
WATER TABLE GROUNDWATER BTEX ISO-CONCENTRATION MAP (0-10 FEET BGS) Q1 2009/Q1 2012 DATA

Project 093180-5-1506 | June 2012 | Figure 17

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\ISO-Concentrations\ BAY SHORE-BTEX & PAH PLUMES Q1-2012.dwg \Jun 19, 2012

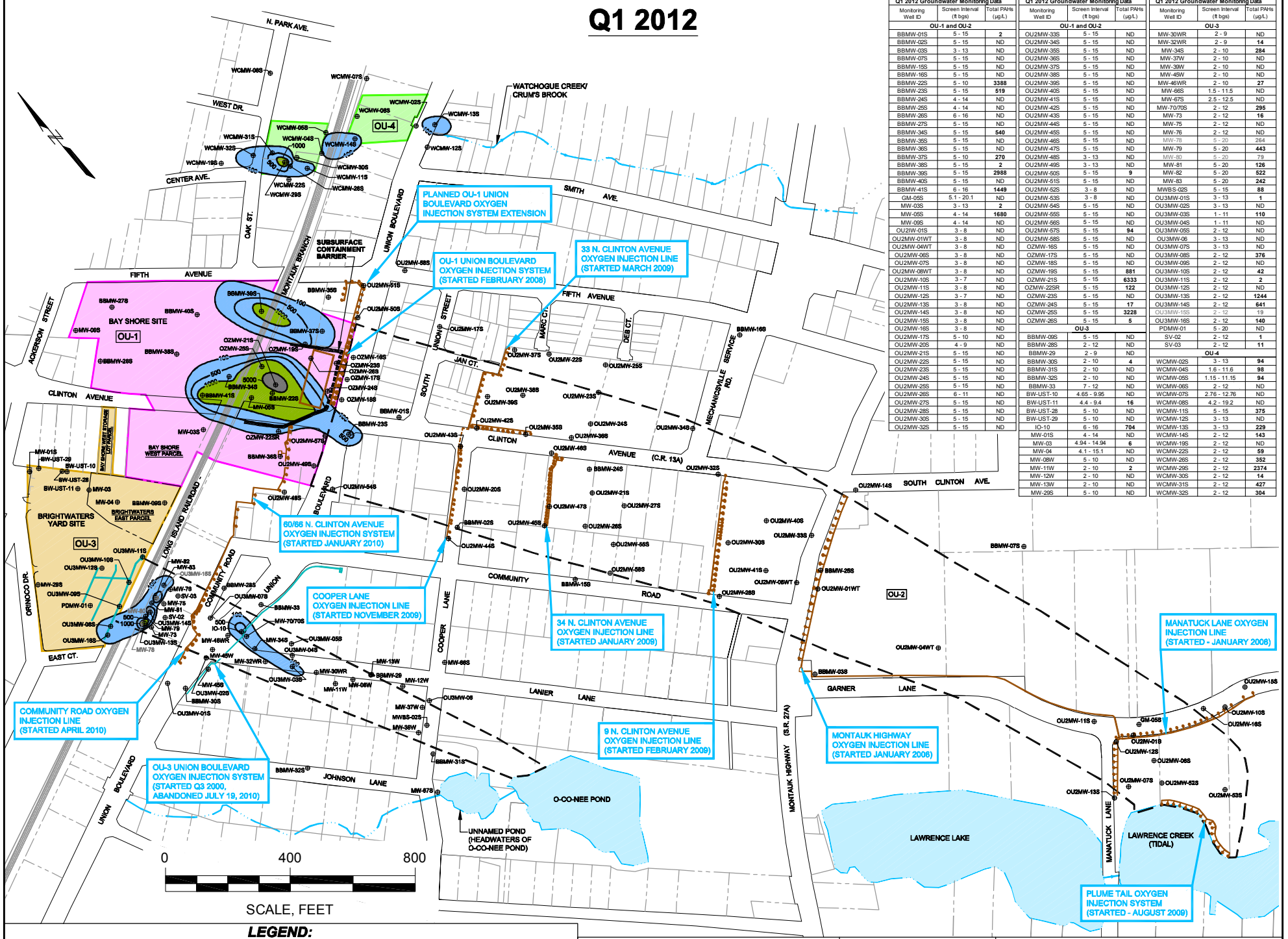
Q1 2009



Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01S	5-15	**359**
BBMW-02S	5-15	ND
BBMW-03S	3-13	ND
BBMW-07S	5-15	ND
BBMW-15S	5-15	ND
BBMW-16S	5-15	ND
BBMW-22S	5-10	**1,664**
BBMW-23S	5-15	**1,673**
BBMW-24S	4-14	ND
BBMW-25S	4-14	ND
MW-03S	3-13	ND
GM-05S	5.1-20.1	**5**
MW-05S	4-14	**1,052**
MW-09S	4-14	ND
OU2IW-01	3-8	ND
OU2MW-01WT	3-8	ND
OU2MW-04WT	3-8	ND
OU2MW-06S	3-8	ND
OU2MW-07S	3-8	ND
OU2MW-08WT	3-8	ND
OU2MW-10S	3-7	ND
OU2MW-11S	3-8	ND
OU2MW-12S	3-7	ND
OU2MW-13S	3-8	ND
OU2MW-14S	3-8	ND
OU2MW-15S	3-8	ND
OU2MW-16S	3-8	ND
OU2MW-17S	5-10	ND
OU2MW-20S	4-9	ND
OU2MW-21S	5-15	**341**
OU2MW-22S	5-15	ND
OU2MW-23S	5-15	ND
OU2MW-24S	5-15	ND
OU2MW-25S	5-15	ND
OU2MW-26S	6-11	ND
OU2MW-28S	5-15	ND
OU2MW-30S	5-15	**10**
OU2MW-32S	5-15	**63**
OU2MW-33S	5-15	ND
OU2MW-34S	5-15	ND
OU2MW-35S	5-15	ND
OU2MW-36S	5-15	ND
OU2MW-37S	5-15	ND
OU2MW-38S	5-15	ND
OU2MW-39S	5-15	ND
OU2MW-40S	5-15	ND
OU2MW-41S	5-15	ND
OU2MW-45S	5-15	**9**
OU2MW-46S	5-15	**31**
OU2MW-47S	5-15	ND
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-22S	5-15	**1,850**

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-3		
BBMW-09S	5-15	ND
BBMW-28S	2-12	ND
BBMW-29	2-9	ND
BBMW-30S	2-10	ND
BBMW-31S	2-10	ND
BBMW-32S	2-10	ND
BBMW-33	7-12	ND
BW-UST-10	4.65-9.95	ND
BW-UST-11	4.4-9.4	ND
BW-UST-28	5-10	ND
BW-UST-29	5-10	ND
IO-10	6-16	ND
MW-02SR	2-12	ND
MW-03	4.94-14.94	ND
MW-04	5.1-15.1	ND
MW-11W	2-10	ND
MW-12W	2-12	ND
MW-16SR	2-12	**28**
MW-29S	2-10	ND
MW-30WR	2-10	ND
MW-32WR	2-9	**3**
MW-34S	2-10	**83**
MW-45W	2-10	**10**
MW-46WR	2-10	**39**
MW-66S	1.5-11.5	ND
MW-70/70S	2-12	**14**
MW-73	2-12	**97**
MW-75	2-12	**1**
MW-76	2-12	ND
MW-78	5-20	ND
MW-79	5-20	**13**
MW-80	5-20	**522**
MW-81	5-20	**19**
MW-82	5-20	ND
MW-83	5-20	ND
MW-BS-02S	5-15	**3**
PDMW-01	5-20	ND
PDMW-02	5-20	**2,797**
PDMW-03	5-15	**2,100**
SV-02	2-12	ND
SV-03	2-12	ND
OU-4		
WCMW-01S	2-12	ND
WCMW-02S	3-13	ND
WCMW-03S	4.93-9.83	**243**
WCMW-04S	1.6-11.6	**43**
WCMW-05S	1.4-11.4	**5**
WCMW-06S	2-12	ND
WCMW-09S	5-15	ND
WCMW-12S	3-13	**4**
WCMW-13S	3-13	ND
WCMW-14S	2-12	ND
WCMW-16S	2-12	**24**

Q1 2012



Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01S	5 - 15	**2**
BBMW-02S	5 - 15	ND
BBMW-03S	3 - 13	ND
BBMW-07S	5 - 15	ND
BBMW-15S	5 - 15	ND
BBMW-16S	5 - 15	ND
BBMW-22S	5 - 10	**3388**
BBMW-23S	5 - 15	**519**
BBMW-24S	4 - 14	ND
BBMW-25S	4 - 14	ND
BBMW-26S	6 - 16	ND
BBMW-27S	5 - 15	ND
BBMW-34S	5 - 15	**540**
BBMW-35S	5 - 15	ND
BBMW-36S	5 - 15	ND
BBMW-37S	5 - 10	**270**
BBMW-38S	5 - 15	**2**
BBMW-39S	5 - 15	**2988**
BBMW-40S	5 - 15	ND
BBMW-41S	6 - 16	**1449**
GM-05S	5.1 - 20.1	ND
MW-03S	3 - 13	**2**
MW-05S	4 - 14	**1680**
MW-09S	4 - 14	ND
OU2IW-01S	3 - 8	ND
OU2MW-01WT	3 - 8	ND
OU2MW-04WT	3 - 8	ND
OU2MW-06S	3 - 8	ND
OU2MW-07S	3 - 8	ND
OU2MW-08WT	3 - 8	ND
OU2MW-10S	3 - 7	ND
OU2MW-11S	3 - 8	ND
OU2MW-12S	3 - 7	ND
OU2MW-13S	3 - 8	ND
OU2MW-14S	3 - 8	ND
OU2MW-15S	3 - 8	ND
OU2MW-16S	3 - 8	ND
OU2MW-17S	5 - 10	ND
OU2MW-20S	4 - 9	ND
OU2MW-21S	5 - 15	ND
OU2MW-22S	5 - 15	ND
OU2MW-23S	5 - 15	ND
OU2MW-24S	5 - 15	ND
OU2MW-25S	5 - 15	ND
OU2MW-26S	6 - 11	ND
OU2MW-27S	5 - 15	ND
OU2MW-28S	5 - 15	ND
OU2MW-30S	5 - 15	ND
OU2MW-32S	5 - 15	ND

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-33S	5 - 15	ND
OU2MW-34S	5 - 15	ND
OU2MW-35S	5 - 15	ND
OU2MW-36S	5 - 15	ND
OU2MW-37S	5 - 15	ND
OU2MW-38S	5 - 15	ND
OU2MW-39S	5 - 15	ND
OU2MW-40S	5 - 15	ND
OU2MW-41S	5 - 15	ND
OU2MW-42S	5 - 15	ND
OU2MW-43S	5 - 15	ND
OU2MW-44S	5 - 15	ND
OU2MW-45S	5 - 15	ND
OU2MW-46S	5 - 15	ND
OU2MW-47S	5 - 15	ND
OU2MW-48S	3 - 13	ND
OU2MW-49S	3 - 13	ND
OU2MW-50S	5 - 15	**9**
OU2MW-51S	5 - 15	ND
OU2MW-52S	3 - 8	ND
OU2MW-53S	3 - 8	ND
OU2MW-54S	5 - 15	ND
OU2MW-55S	5 - 15	ND
OU2MW-56S	5 - 15	ND
OU2MW-57S	5 - 15	**94**
OU2MW-58S	5 - 15	ND
OZMW-16S	5 - 15	ND
OZMW-17S	5 - 15	ND
OZMW-18S	5 - 15	ND
OZMW-19S	5 - 15	**881**
OZMW-21S	5 - 15	**6333**
OZMW-22SR	5 - 15	**122**
OZMW-23S	5 - 15	ND
OZMW-24S	5 - 15	**17**
OZMW-25S	5 - 15	**3228**
OZMW-26S	5 - 15	**5**
OU-3		
BBMW-09S	5 - 15	ND
BBMW-28S	2 - 12	ND
BBMW-29	2 - 9	ND
BBMW-30S	2 - 10	**4**
BBMW-31S	2 - 10	ND
BBMW-32S	2 - 10	ND
BBMW-33	7 - 12	ND
BW-UST-10	4.65 - 9.95	ND
BW-UST-11	4.4 - 9.4	**16**
BW-UST-28	5 - 10	ND
BW-UST-29	5 - 10	ND
IO-10	6 - 16	**704**
MW-01S	4 - 14	ND
MW-03	4.94 - 14.94	**6**
MW-04	4.1 - 15.1	ND
MW-08W	5 - 10	ND
MW-11W	2 - 10	**2**
MW-12W	2 - 10	ND
MW-13W	2 - 10	ND
MW-29S	5 - 10	ND

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-3		
MW-30WR	2 - 9	ND
MW-32WR	2 - 9	**14**
MW-34S	2 - 10	**284**
MW-37W	2 - 10	ND
MW-39W	2 - 10	ND
MW-45W	2 - 10	ND
MW-46WR	2 - 10	**27**
MW-66S	1.5 - 11.5	ND
MW-67S	2.5 - 12.5	ND
MW-70/70S	2 - 12	**295**
MW-73	2 - 12	**16**
MW-75	2 - 12	ND
MW-76	2 - 12	ND
MW-78	5 - 20	264
MW-79	5 - 20	**443**
MW-80	5 - 20	79
MW-81	5 - 20	**126**
MW-82	5 - 20	**522**
MW-83	5 - 20	**242**
MWBS-02S	5 - 15	**88**
OU3MW-01S	3 - 13	**1**
OU3MW-02S	3 - 13	ND
OU3MW-03S	1 - 11	**110**
OU3MW-04S	1 - 11	ND
OU3MW-05S	2 - 12	ND
OU3MW-06	3 - 13	ND
OU3MW-07S	3 - 13	ND
OU3MW-08S	2 - 12	**376**
OU3MW-09S	2 - 12	ND
OU3MW-10S	2 - 12	**42**
OU3MW-11S	2 - 12	**2**
OU3MW-12S	2 - 12	ND
OU3MW-13S	2 - 12	**1244**
OU3MW-14S	2 - 12	**641**
OU3MW-15S	2 - 12	19
OU3MW-16S	2 - 12	**140**
PDMW-01	5 - 20	ND
SV-02	2 - 12	**1**
SV-03	2 - 12	**11**
OU-4		
WCMW-02S	3 - 13	**94**
WCMW-04S	1.6 - 11.6	**98**
WCMW-05S	1.15 - 11.15	**94**
WCMW-06S	2 - 12	ND
WCMW-07S	2.76 - 12.76	ND
WCMW-08S	4.2 - 19.2	ND
WCMW-11S	5 - 15	**375**
WCMW-12S	3 - 13	ND
WCMW-13S	3 - 13	**229**
WCMW-14S	2 - 12	**143**
WCMW-19S	2 - 12	ND
WCMW-22S	2 - 12	**59**
WCMW-26S	2 - 12	**352**
WCMW-29S	2 - 12	**2374**
WCMW-30S	2 - 12	**14**
WCMW-31S	2 - 12	**427**
WCMW-32S	2 - 12	**304**

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕MW-78 — MONITORING WELL (NOT USED TO GENERATE CONTOURS)
- ** — MONITORING WELL INITIALLY SAMPLED IN Q1 2009
- µg/L — MICROGRAMS PER LITER
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS
- TOTAL PAH ≧100 µg/L
- TOTAL PAH ≧1,000 µg/L
- TOTAL PAH ≧5,000 µg/L
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME EXTENT BASED ON >100 µg/L BTEX OR >100 µg/L TOTAL PAHs DETECTED IN GROUNDWATER
- INSTALLED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)

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

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

nationalgrid

GEI Consultants

Project 093180-5-1506

WATER TABLE GROUNDWATER PAH ISO-CONCENTRATION MAP (0-10 FEET BGS) Q1 2009/Q1 2012 DATA

June 2012 — Figure 18

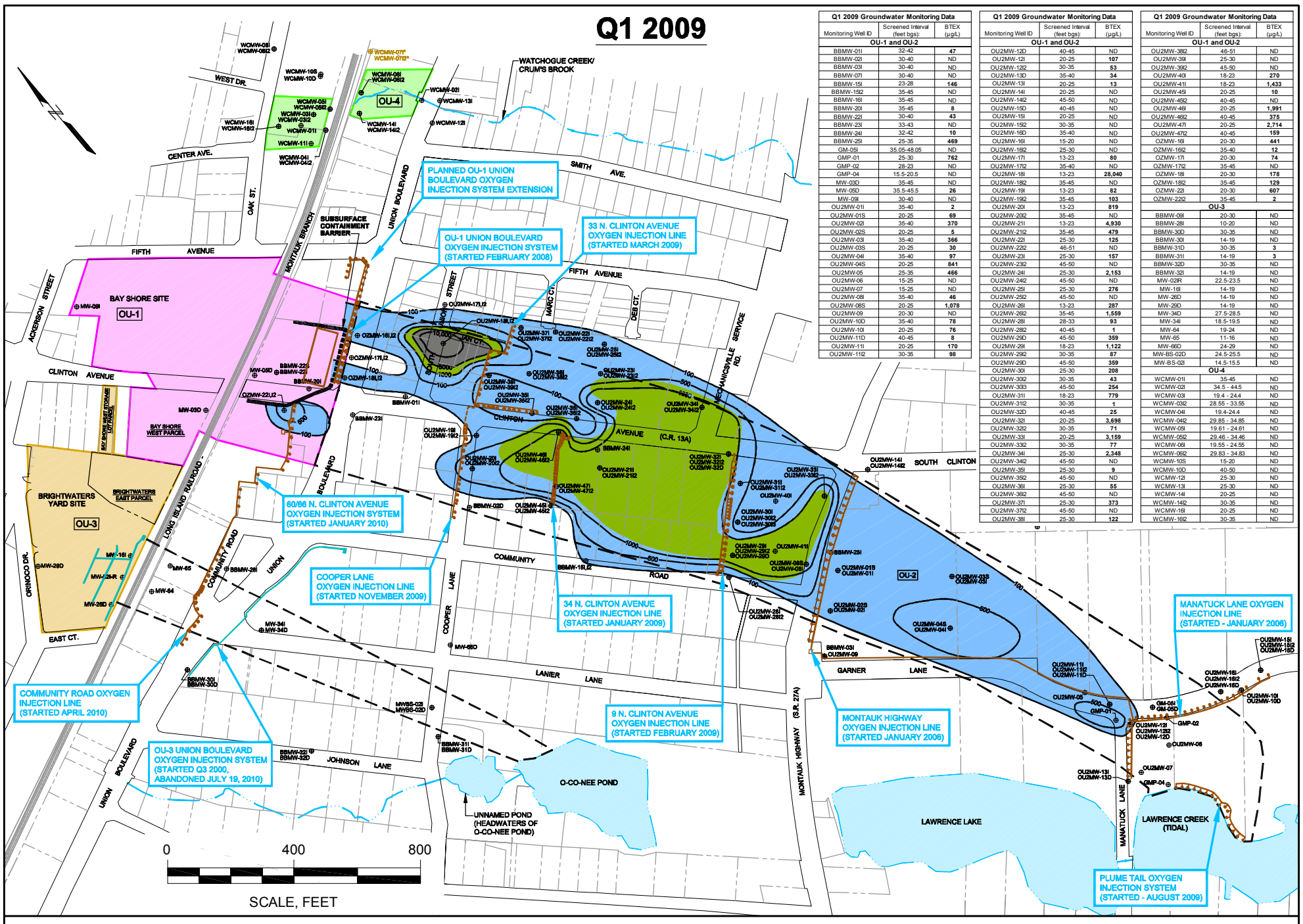
I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\ISO-Concentrations\ BAY SHORE-BTEX & PAH PLUMES Q1-2012.dwg \Jun 19, 2012

Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01I	32-42	**47**
BBMW-02I	30-40	ND
BBMW-03I	30-40	ND
BBMW-07I	30-40	ND
BBMW-15I	23-28	**146**
BBMW-15I2	35-45	ND
BBMW-16I	35-45	ND
BBMW-20I	35-45	**8**
BBMW-22I	30-40	**43**
BBMW-23I	33-43	ND
BBMW-24I	32-42	**10**
BBMW-25I	25-35	**469**
GM-05I	35.05-48.05	ND
GMP-01	25-30	**762**
GMP-02	28-23	ND
GMP-04	15.5-20.5	ND
MW-03D	35-45	ND
MW-05D	35.5-45.5	**26**
MW-09I	30-40	ND
OU2MW-01I	35-40	**2**
OU2MW-01S	20-25	**69**
OU2MW-02I	35-40	**370**
OU2MW-02S	20-25	**5**
OU2MW-03I	35-40	**366**
OU2MW-03S	20-25	**30**
OU2MW-04I	35-40	**97**
OU2MW-04S	20-25	**841**
OU2MW-05	25-35	**466**
OU2MW-06	15-25	ND
OU2MW-07	15-25	ND
OU2MW-08I	35-40	**46**
OU2MW-08S	20-25	**1,078**
OU2MW-09	20-30	ND
OU2MW-10D	35-40	**78**
OU2MW-10I	20-25	**76**
OU2MW-11D	40-45	**8**
OU2MW-11I	20-25	**170**
OU2MW-11I2	30-35	**98**

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-1 and OU-2		
OU2MW-12D	40-45	ND
OU2MW-12I	20-25	**107**
OU2MW-12I2	30-35	**53**
OU2MW-13D	35-40	**34**
OU2MW-13I	20-25	**13**
OU2MW-14I	20-25	ND
OU2MW-14I2	45-50	ND
OU2MW-15D	40-45	ND
OU2MW-15I	20-25	ND
OU2MW-15I2	30-35	ND
OU2MW-16D	35-40	ND
OU2MW-16I	15-20	ND
OU2MW-16I2	25-30	ND
OU2MW-17I	13-23	**80**
OU2MW-17I2	35-40	ND
OU2MW-18I	13-23	**28,040**
OU2MW-18I2	35-45	ND
OU2MW-19I	13-23	**82**
OU2MW-19I2	35-45	**103**
OU2MW-20I	13-23	**819**
OU2MW-20I2	35-45	ND
OU2MW-21I	13-23	**4,930**
OU2MW-21I2	35-45	**479**
OU2MW-22I	25-30	**125**
OU2MW-22I2	46-51	ND
OU2MW-23I	25-30	**157**
OU2MW-23I2	45-50	ND
OU2MW-24I	18-23	**1,122**
OU2MW-24I2	45-50	ND
OU2MW-25I	25-30	**276**
OU2MW-25I2	45-50	ND
OU2MW-26I	13-23	**287**
OU2MW-26I2	35-45	**1,559**
OU2MW-28I	28-33	**93**
OU2MW-28I2	40-45	**1**
OU2MW-29D	45-50	**359**
OU2MW-29I	18-23	**1,122**
OU2MW-29I2	30-35	**87**
OU2MW-29D	45-50	**359**
OU2MW-30I	25-30	**208**
OU2MW-30I2	30-35	**43**
OU2MW-30I3	45-50	**254**
OU2MW-31I	18-23	**779**
OU2MW-31I2	30-35	**1**
OU2MW-32D	40-45	**25**
OU2MW-32I	20-25	**3,698**
OU2MW-32I2	30-35	**71**
OU2MW-33I	20-25	**3,159**
OU2MW-33I2	30-35	**77**
OU2MW-34I	25-30	**2,348**
OU2MW-34I2	45-50	ND
OU2MW-35I	25-30	**9**
OU2MW-35I2	45-50	ND
OU2MW-36I	25-30	**55**
OU2MW-36I2	45-50	ND
OU2MW-37I	25-30	**373**
OU2MW-37I2	45-50	ND
OU2MW-38I	25-30	**122**

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-1 and OU-2		
OU2MW-38I2	46-51	ND
OU2MW-39I	25-30	ND
OU2MW-39I2	45-50	ND
OU2MW-40I	18-23	**270**
OU2MW-41I	18-23	**1,433**
OU2MW-45I	20-25	**10**
OU2MW-45I2	40-45	ND
OU2MW-46I	20-25	**1,991**
OU2MW-46I2	40-45	**375**
OU2MW-47I	20-25	**2,714**
OU2MW-47I2	40-45	**159**
OZMW-16I	20-30	**441**
OZMW-16I2	35-40	**12**
OZMW-17I	20-30	**74**
OZMW-17I2	35-45	ND
OZMW-18I	20-30	**178**
OZMW-18I2	35-45	**129**
OZMW-22I	20-30	**607**
OZMW-22I2	35-45	**2**
OU-3		
BBMW-09I	20-30	ND
BBMW-28I	10-20	ND
BBMW-30D	30-35	ND
BBMW-30I	14-19	ND
BBMW-31D	30-35	**3**
BBMW-31I	14-19	**3**
BBMW-32D	30-35	ND
BBMW-32I	14-19	ND
MW-02R	22.5-23.5	ND
MW-16I	14-19	ND
MW-26D	14-19	ND
MW-29D	14-19	ND
MW-34D	27.5-28.5	ND
MW-34I	18.5-19.5	ND
MW-64	19-24	ND
MW-65	11-16	ND
MW-68D	24-29	ND
MW-BS-02D	24.5-25.5	ND
MW-BS-02I	14.5-15.5	ND
OU-4		
WCMW-01I	35-45	ND
WCMW-02I	34.5 - 44.5	ND
WCMW-03I	19.4 - 24.4	ND
WCMW-03I2	28.55 - 33.55	ND
WCMW-04I	19.4-24.4	ND
WCMW-04I2	29.85 - 34.85	ND
WCMW-05I	19.61 - 24.61	ND
WCMW-05I2	29.46 - 34.46	ND
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-10S	15-20	ND
WCMW-10D	40-50	ND
WCMW-12I	25-30	ND
WCMW-13I	25-30	ND
WCMW-14I	20-25	ND
WCMW-14I2	30-35	ND
WCMW-16I	20-25	ND
WCMW-16I2	30-35	ND



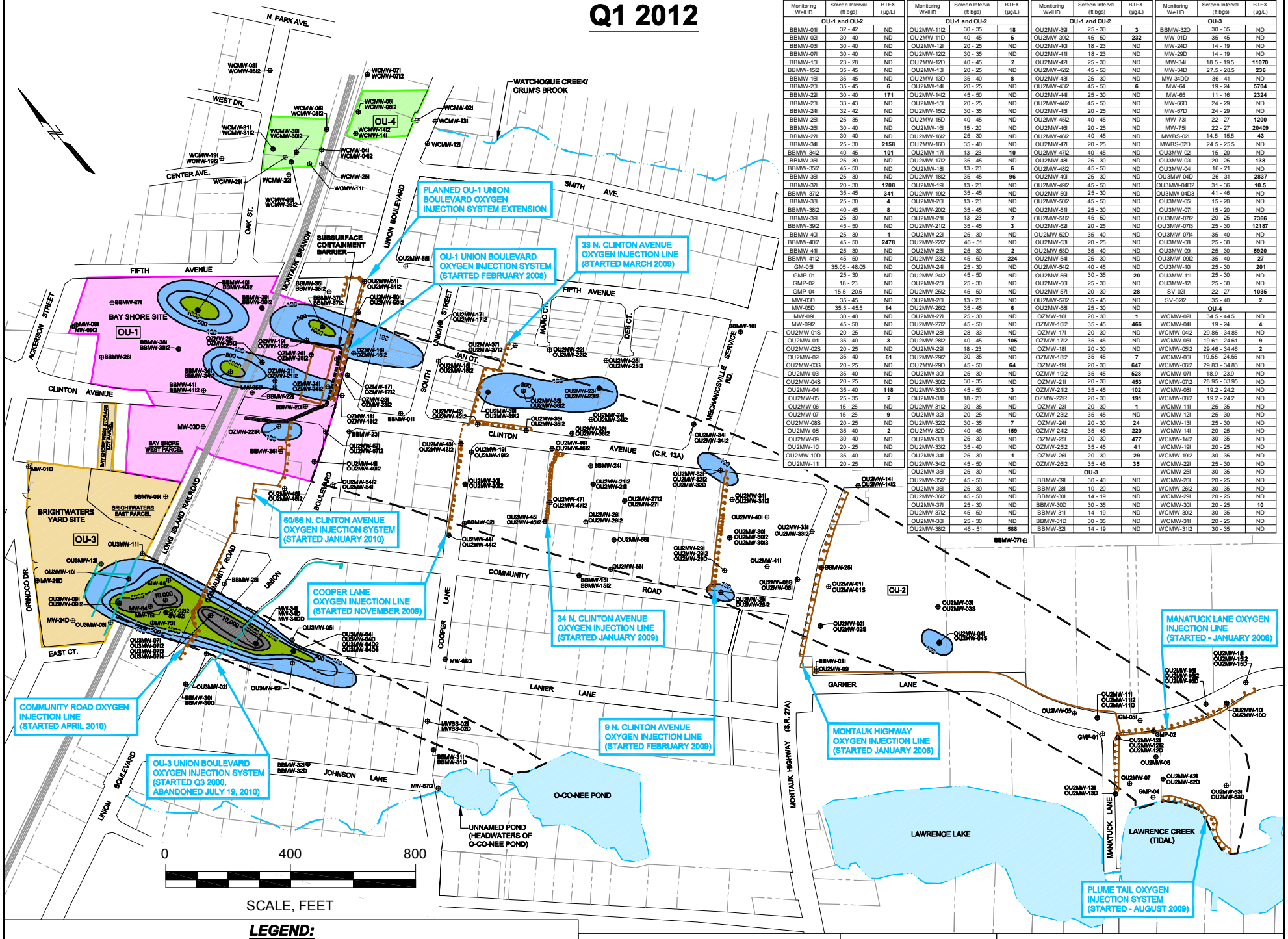
Q1 2012

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01I	32 - 42	ND
BBMW-02I	30 - 40	ND
BBMW-03I	30 - 40	ND
BBMW-07I	30 - 40	ND
BBMW-15I	23 - 28	ND
BBMW-15I2	35 - 45	ND
BBMW-16I	35 - 45	ND
BBMW-20I	35 - 45	**6**
BBMW-22I	30 - 40	**171**
BBMW-23I	33 - 43	ND
BBMW-24I	32 - 42	ND
BBMW-25I	25 - 35	ND
BBMW-26I	30 - 40	ND
BBMW-27I	30 - 40	ND
BBMW-34I	25 - 30	**2158**
BBMW-34I2	40 - 45	**101**
BBMW-35I	25 - 30	ND
BBMW-35I2	45 - 50	ND
BBMW-36I	25 - 30	ND
BBMW-37I	20 - 30	**1208**
BBMW-37I2	35 - 45	**341**
BBMW-38I	25 - 30	**4**
BBMW-38I2	40 - 45	**8**
BBMW-39I	25 - 30	ND
BBMW-39I2	45 - 50	ND
BBMW-40I	25 - 30	**1**
BBMW-40I2	45 - 50	**2478**
BBMW-41I	25 - 30	ND
BBMW-41I2	45 - 50	ND
GM-05I	35.05 - 48.05	ND
GMP-01	25 - 30	ND
GMP-02	18 - 23	ND
GMP-04	15.5 - 20.5	ND
MW-03D	35 - 45	ND
MW-05D	35.5 - 45.5	**14**
MW-09I	30 - 40	ND
MW-09I2	45 - 50	ND
OU2MW-01S	20 - 25	ND
OU2MW-01I	35 - 40	**3**
OU2MW-02S	20 - 25	ND
OU2MW-02I	35 - 40	**61**
OU2MW-03S	20 - 25	ND
OU2MW-03I	35 - 40	ND
OU2MW-04S	20 - 25	ND
OU2MW-04I	35 - 40	**118**
OU2MW-05	25 - 35	**2**
OU2MW-06	15 - 25	ND
OU2MW-07	15 - 25	**9**
OU2MW-08S	20 - 25	ND
OU2MW-08I	35 - 40	**2**
OU2MW-09	30 - 40	ND
OU2MW-10I	20 - 25	ND
OU2MW-10D	35 - 40	ND
OU2MW-11I	20 - 25	ND

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OU2MW-11I2	30 - 35	**18**
OU2MW-11D	40 - 45	**5**
OU2MW-12I	20 - 25	ND
OU2MW-12I2	30 - 35	ND
OU2MW-12D	40 - 45	**2**
OU2MW-13I	20 - 25	ND
OU2MW-13D	35 - 40	**8**
OU2MW-14I	20 - 25	ND
OU2MW-14I2	45 - 50	ND
OU2MW-15D	40 - 45	ND
OU2MW-15I	20 - 25	ND
OU2MW-15I2	30 - 35	ND
OU2MW-16D	35 - 40	ND
OU2MW-16I	15 - 20	ND
OU2MW-16I2	25 - 30	ND
OU2MW-17I	13 - 23	**10**
OU2MW-17I2	35 - 45	ND
OU2MW-18I	13 - 23	**6**
OU2MW-18I2	35 - 45	**96**
OU2MW-19I	13 - 23	ND
OU2MW-19I2	35 - 45	ND
OU2MW-20I	13 - 23	ND
OU2MW-20I2	35 - 45	ND
OU2MW-21I	13 - 23	**2**
OU2MW-21I2	35 - 45	**3**
OU2MW-22I	25 - 30	ND
OU2MW-22I2	46 - 51	ND
OU2MW-23I	25 - 30	**2**
OU2MW-23I2	45 - 50	**224**
OU2MW-24I	25 - 30	ND
OU2MW-24I2	45 - 50	ND
OU2MW-25I	25 - 30	ND
OU2MW-25I2	45 - 50	ND
OU2MW-26I	13 - 23	ND
OU2MW-26I2	35 - 45	**6**
OU2MW-27I	25 - 30	ND
OU2MW-27I2	45 - 50	ND
OU2MW-28I	28 - 33	ND
OU2MW-28I2	40 - 45	**105**
OU2MW-29I	18 - 23	ND
OU2MW-29I2	30 - 35	ND
OU2MW-29D	45 - 50	**64**
OU2MW-30I	25 - 30	ND
OU2MW-30I2	30 - 35	ND
OU2MW-30I3	45 - 50	**3**
OU2MW-31I	18 - 23	ND
OU2MW-31I2	30 - 35	ND
OU2MW-32I	20 - 25	ND
OU2MW-32I2	30 - 35	**7**
OU2MW-32D	40 - 45	**159**
OU2MW-33I	25 - 30	ND
OU2MW-33I2	35 - 40	ND
OU2MW-34I	25 - 30	**1**
OU2MW-34I2	45 - 50	ND
OU2MW-35I	25 - 30	ND
OU2MW-35I2	45 - 50	ND
OU2MW-36I	25 - 30	ND
OU2MW-36I2	45 - 50	ND
OU2MW-37I	25 - 30	ND
OU2MW-37I2	45 - 50	ND
OU2MW-38I	25 - 30	**588**

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OU2MW-38I2	46 - 51	ND
OU2MW-39I	25 - 30	**3**
OU2MW-39I2	45 - 50	**232**
OU2MW-40I	18 - 23	ND
OU2MW-41I	18 - 23	ND
OU2MW-42I	25 - 30	ND
OU2MW-42I2	45 - 50	ND
OU2MW-43I	25 - 30	ND
OU2MW-43I2	45 - 50	**6**
OU2MW-44I	25 - 30	ND
OU2MW-44I2	45 - 50	ND
OU2MW-45I	20 - 25	ND
OU2MW-45I2	40 - 45	ND
OU2MW-46I	20 - 25	ND
OU2MW-46I2	40 - 45	ND
OU2MW-47I	20 - 25	ND
OU2MW-47I2	40 - 45	ND
OU2MW-48I	25 - 30	ND
OU2MW-48I2	45 - 50	ND
OU2MW-49I	25 - 30	ND
OU2MW-49I2	45 - 50	ND
OU2MW-50I	25 - 30	ND
OU2MW-50I2	45 - 50	ND
OU2MW-51I	25 - 30	ND
OU2MW-51I2	45 - 50	ND
OU2MW-52I	20 - 25	ND
OU2MW-52D	35 - 40	ND
OU2MW-53I	20 - 25	ND
OU2MW-53D	35 - 40	ND
OU2MW-54I	25 - 30	ND
OU2MW-54I2	40 - 45	ND
OU2MW-55I	18 - 23	ND
OU2MW-55I2	30 - 35	**20**
OU2MW-56I	25 - 30	ND
OU2MW-56I2	35 - 45	ND
OU2MW-57I	20 - 30	**28**
OU2MW-57I2	35 - 45	ND
OU2MW-58I	25 - 30	ND
OZMW-16I	20 - 30	**1**
OZMW-16I2	35 - 45	**466**
OZMW-17I	20 - 30	ND
OZMW-17I2	35 - 45	ND
OZMW-18I	20 - 30	ND
OZMW-18I2	35 - 45	**7**
OZMW-19I	20 - 30	**647**
OZMW-19I2	35 - 45	**528**
OZMW-21I	20 - 30	**453**
OZMW-21I2	35 - 45	**102**
OZMW-22IR	20 - 30	**191**
OZMW-23I	20 - 30	**1**
OZMW-23I2	35 - 45	ND
OZMW-24I	20 - 30	**24**
OZMW-24I2	35 - 45	**220**
OZMW-25I	20 - 30	**477**
OZMW-25I2	35 - 45	**41**
OZMW-26I	20 - 30	**29**
OZMW-26I2	35 - 45	**35**
OU-3		
BBMW-09I	30 - 40	ND
BBMW-28I	10 - 20	ND
BBMW-30I	14 - 19	ND
BBMW-30D	30 - 35	ND
BBMW-31I	14 - 19	ND
BBMW-31D	30 - 35	ND
BBMW-32I	14 - 19	ND

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-3		
BBMW-32D	30 - 35	ND
MW-01D	35 - 45	ND
MW-24D	14 - 19	ND
MW-29D	14 - 19	ND
MW-34I	18.5 - 19.5	**11070**
MW-34D	27.5 - 28.5	**236**
MW-34DD	36 - 41	ND
MW-64	19 - 24	**5704**
MW-65	11 - 16	**2324**
MW-66D	24 - 29	ND
MW-67D	24 - 29	ND
MW-73I	22 - 27	**1200**
MW-75I	22 - 27	**20409**
MWBS-02I	14.5 - 15.5	**43**
MWBS-02D	24.5 - 25.5	ND
OU3MW-02I	15 - 20	ND
OU3MW-03I	20 - 25	**138**
OU3MW-04I	16 - 21	ND
OU3MW-04D	26 - 31	**2837**
OU3MW-04D2	31 - 36	**10.5**
OU3MW-04D3	41 - 46	ND
OU3MW-05I	15 - 20	ND
OU3MW-07I	15 - 20	ND
OU3MW-07I2	20 - 25	**7366**
OU3MW-07I3	25 - 30	**12187**
OU3MW-07I4	35 - 40	ND
OU3MW-08I	25 - 30	ND
OU3MW-09I	25 - 30	**5920**
OU3MW-09I2	35 - 40	**27**
OU3MW-10I	25 - 30	**201**
OU3MW-11I	25 - 30	ND
OU3MW-12I	25 - 30	ND
SV-02I	22 - 27	**1035**
SV-02I2	35 - 40	**2**
OU-4		
WCMW-02I	34.5 - 44.5	ND
WCMW-04I	19 - 24	**4**
WCMW-04I2	29.85 - 34.85	ND
WCMW-05I	19.61 - 24.61	**9**
WCMW-05I2	29.46 - 34.46	**2**
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-07I	18.9 - 23.9	ND
WCMW-07I2	28.95 - 33.95	ND
WCMW-08I	19.2 - 24.2	ND
WCMW-08I2	19.2 - 24.2	ND
WCMW-11I	25 - 35	ND
WCMW-12I	25 - 30	ND
WCMW-13I	25 - 30	ND
WCMW-14I	20 - 25	ND
WCMW-14I2	30 - 35	ND
WCMW-19I	20 - 25	ND
WCMW-19I2	30 - 35	ND
WCMW-22I	25 - 30	ND
WCMW-25I	30 - 35	ND
WCMW-26I	20 - 25	ND
WCMW-26I2	30 - 35	ND
WCMW-29I	20 - 25	ND
WCMW-30I	20 - 25	**10**
WCMW-30I2	30 - 35	ND
WCMW-31I	20 - 25	ND
WCMW-31I2	30 - 35	ND



LEGEND:

- ⊕BBMW-33 EXISTING MONITORING WELL CLUSTER LOCATION
- ** MONITORING WELL INITIALLY SAMPLED IN Q1 2009
- µg/L MICROGRAMS PER LITER
- BTEX BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME EXTENT BASED ON >100 µg/L BTEX OR >100 µg/L TOTAL PAHs DETECTED IN GROUNDWATER
- INSTALLED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)

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

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

nationalgrid

GEI Consultants

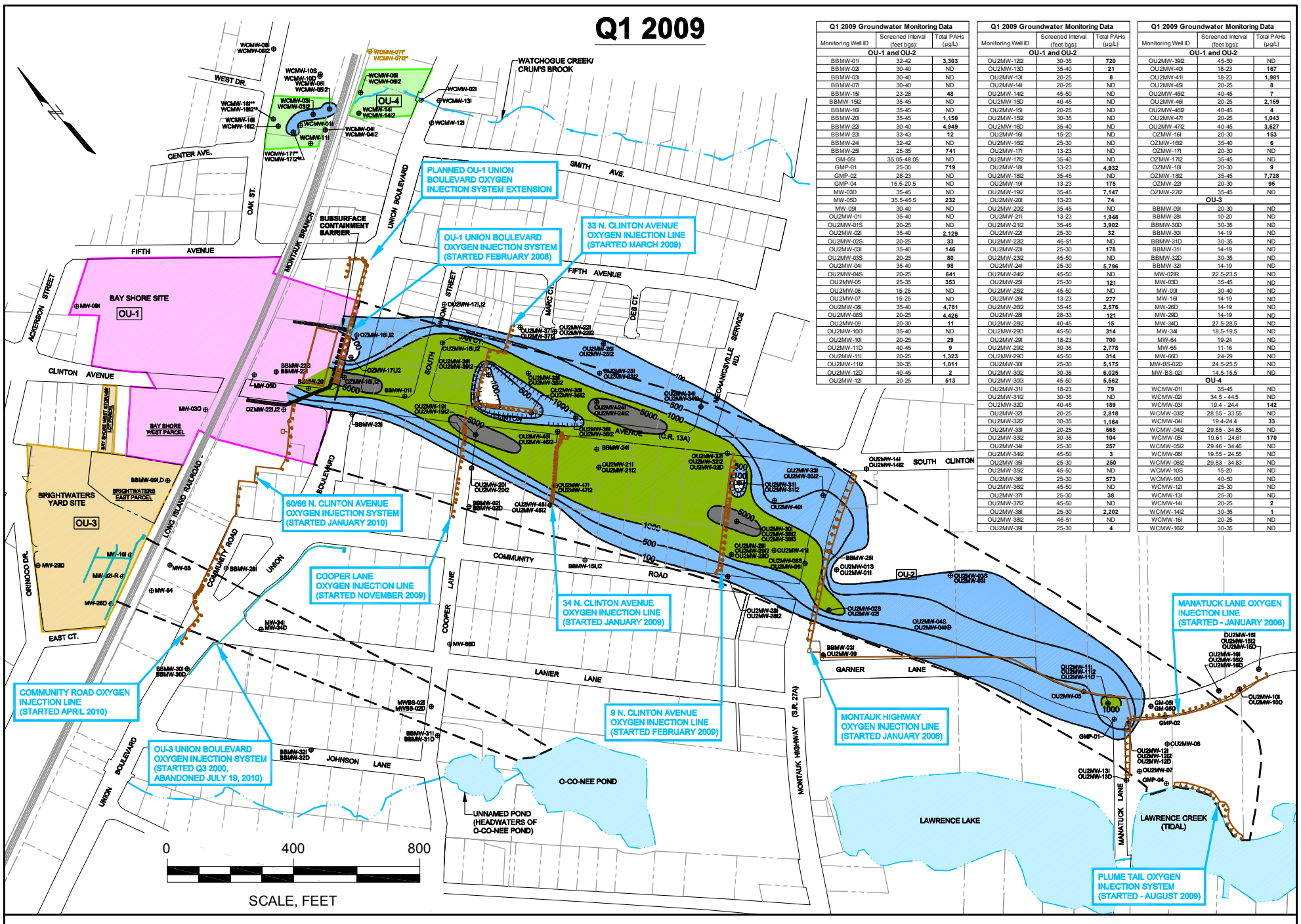
Project 093180-5-1506

INTERMEDIATE GROUNDWATER BTEX ISO-CONCENTRATION MAP (10-50 FEET BGS) Q1 2009/Q1 2012 DATA

June 2012 Figure 19

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\ISO-Concentrations\ BAY SHORE-BTEX & PAH PLUMES Q1-2012.dwg \Jun 19, 2012

Q1 2009

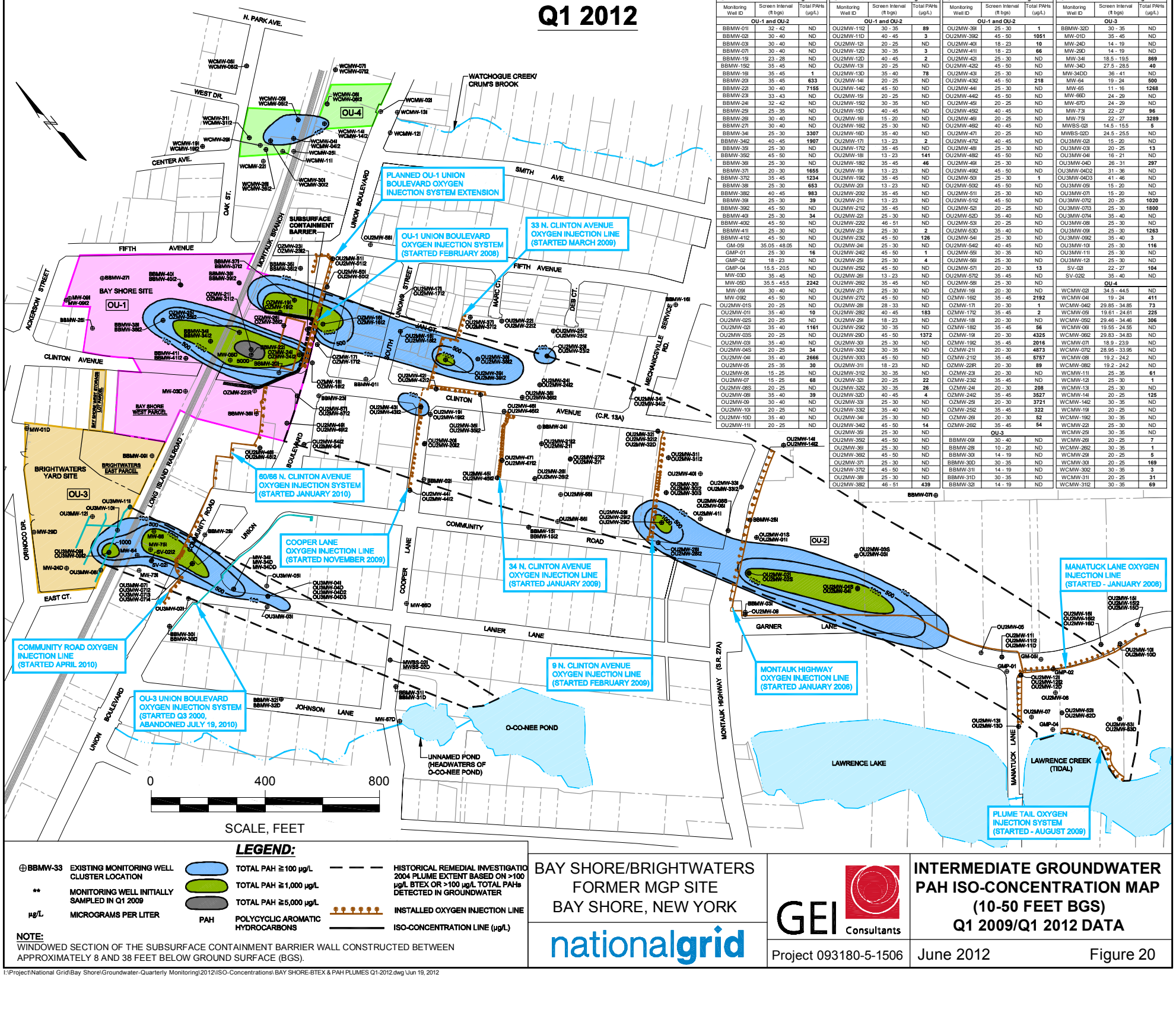


Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01I	32-42	3,303
BBMW-02I	30-40	ND
BBMW-03I	30-40	ND
BBMW-07I	30-40	ND
BBMW-15I	23-28	48
BBMW-15I2	35-45	ND
BBMW-16I	35-45	ND
BBMW-20I	35-45	1,150
BBMW-22I	30-40	4,949
BBMW-23I	33-43	12
BBMW-24I	32-42	ND
BBMW-25I	25-35	741
GM-05I	35.05-48.05	ND
GMP-01	25-30	719
GMP-02	28-23	ND
GMP-04	15.5-20.5	ND
MW-03D	35-45	ND
MW-05D	35.5-45.5	232
MW-09I	30-40	ND
OU2MW-01I	35-40	ND
OU2MW-01S	20-25	ND
OU2MW-02I	35-40	2,129
OU2MW-02S	20-25	33
OU2MW-03I	35-40	146
OU2MW-03S	20-25	80
OU2MW-04I	35-40	98
OU2MW-04S	20-25	641
OU2MW-05	25-35	353
OU2MW-06	15-25	ND
OU2MW-07	15-25	ND
OU2MW-08I	35-40	4,781
OU2MW-08S	20-25	4,426
OU2MW-09	20-30	11
OU2MW-10D	35-40	ND
OU2MW-10I	20-25	29
OU2MW-11D	40-45	9
OU2MW-11I	20-25	1,323
OU2MW-11I2	30-35	1,011
OU2MW-12D	40-45	2
OU2MW-12I	20-25	513

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-12I2	30-35	720
OU2MW-13D	35-40	21
OU2MW-13I	20-25	8
OU2MW-14I	20-25	ND
OU2MW-14I2	45-50	ND
OU2MW-15D	40-45	ND
OU2MW-15I	20-25	ND
OU2MW-15I2	30-35	ND
OU2MW-16D	35-40	ND
OU2MW-16I	15-20	ND
OU2MW-16I2	25-30	ND
OU2MW-17I	13-23	ND
OU2MW-17I2	35-40	ND
OU2MW-18I	13-23	4,932
OU2MW-18I2	35-45	ND
OU2MW-19I	13-23	175
OU2MW-19I2	35-45	7,147
OU2MW-20I	13-23	74
OU2MW-20I2	35-45	ND
OU2MW-21I	13-23	1,848
OU2MW-21I2	35-45	3,902
OU2MW-22I	25-30	32
OU2MW-22I2	46-51	ND
OU2MW-23I	25-30	178
OU2MW-23I2	45-50	ND
OU2MW-24I	25-30	5,796
OU2MW-24I2	45-50	ND
OU2MW-25I	25-30	121
OU2MW-25I2	45-50	ND
OU2MW-26I	13-23	277
OU2MW-26I2	35-45	2,576
OU2MW-28I	28-33	121
OU2MW-28I2	40-45	15
OU2MW-29D	45-50	314
OU2MW-29I	18-23	700
OU2MW-29I2	30-35	2,778
OU2MW-29D	45-50	314
OU2MW-30I	25-30	5,175
OU2MW-30I2	30-35	6,025
OU2MW-30I3	45-50	5,562
OU2MW-31I	18-23	79
OU2MW-31I2	30-35	ND
OU2MW-32D	40-45	189
OU2MW-32I	20-25	2,818
OU2MW-32I2	30-35	1,164
OU2MW-33I	20-25	565
OU2MW-33I2	30-35	104
OU2MW-34I	25-30	257
OU2MW-34I2	45-50	3
OU2MW-35I	25-30	250
OU2MW-35I2	45-50	ND
OU2MW-36I	25-30	573
OU2MW-36I2	45-50	ND
OU2MW-37I	25-30	38
OU2MW-37I2	45-50	ND
OU2MW-38I	25-30	2,202
OU2MW-39I2	46-51	ND
OU2MW-39I	25-30	4

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-39I2	45-50	ND
OU2MW-40I	18-23	167
OU2MW-41I	18-23	1,981
OU2MW-45I	20-25	8
OU2MW-45I2	40-45	7
OU2MW-46I	20-25	2,169
OU2MW-46I2	40-45	4
OU2MW-47I	20-25	1,043
OU2MW-47I2	40-45	3,627
OZMW-16I	20-30	153
OZMW-16I2	35-40	6
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	9
OZMW-18I2	35-45	7,728
OZMW-22I	20-30	95
OZMW-22I2	35-45	ND
OU-3		
BBMW-09I	20-30	ND
BBMW-28I	10-20	ND
BBMW-30D	30-35	ND
BBMW-30I	14-19	ND
BBMW-31D	30-35	ND
BBMW-31I	14-19	ND
BBMW-32D	30-35	ND
BBMW-32I	14-19	ND
MW-02IR	22.5-23.5	ND
MW-03D	35-45	ND
MW-09I	30-40	ND
MW-16I	14-19	ND
MW-26D	14-19	ND
MW-29D	14-19	ND
MW-34D	27.5-28.5	ND
MW-34I	18.5-19.5	ND
MW-64	19-24	ND
MW-65	11-16	ND
MW-66D	24-29	ND
MW-BS-02D	24.5-25.5	ND
MW-BS-02I	14.5-15.5	ND
OU-4		
WCMW-01I	35-45	ND
WCMW-02I	34.5 - 44.5	ND
WCMW-03I	19.4 - 24.4	142
WCMW-03I2	28.55 - 33.55	ND
WCMW-04I	19.4-24.4	33
WCMW-04I2	29.85 - 34.85	ND
WCMW-05I	19.61 - 24.61	170
WCMW-05I2	29.46 - 34.46	ND
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-10S	15-20	ND
WCMW-10D	40-50	ND
WCMW-12I	25-30	ND
WCMW-13I	25-30	ND
WCMW-14I	20-25	2
WCMW-14I2	30-35	1
WCMW-16I	20-25	ND
WCMW-16I2	30-35	ND

Q1 2012



Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01I	32 - 42	ND
BBMW-02I	30 - 40	ND
BBMW-03I	30 - 40	ND
BBMW-07I	30 - 40	ND
BBMW-15I	23 - 28	ND
BBMW-15I2	35 - 45	ND
BBMW-16I	35 - 45	1
BBMW-20I	35 - 45	633
BBMW-22I	30 - 40	7155
BBMW-23I	33 - 43	ND
BBMW-24I	32 - 42	ND
BBMW-25I	25 - 35	ND
BBMW-26I	30 - 40	ND
BBMW-27I	30 - 40	ND
BBMW-34I	25 - 30	3307
BBMW-34I2	40 - 45	1907
BBMW-35I	25 - 30	ND
BBMW-35I2	45 - 50	ND
BBMW-36I	25 - 30	ND
BBMW-37I	20 - 30	1655
BBMW-37I2	35 - 45	1234
BBMW-38I	25 - 30	653
BBMW-38I2	40 - 45	983
BBMW-39I	25 - 30	39
BBMW-39I2	45 - 50	ND
BBMW-40I	25 - 30	34
BBMW-40I2	45 - 50	ND
BBMW-41I	25 - 30	ND
BBMW-41I2	45 - 50	ND
GM-05I	35.05 - 48.05	ND
GMP-01	25 - 30	16
GMP-02	18 - 23	ND
GMP-04	15.5 - 20.5	ND
MW-03D	35 - 45	ND
MW-05D	35.5 - 45.5	2242
MW-09I	30 - 40	ND
MW-09I2	45 - 50	ND
OU2MW-01S	20 - 25	ND
OU2MW-01I	35 - 40	10
OU2MW-02S	20 - 25	ND
OU2MW-02I	35 - 40	1161
OU2MW-03S	20 - 25	ND
OU2MW-03I	35 - 40	ND
OU2MW-04S	20 - 25	34
OU2MW-04I	35 - 40	2666
OU2MW-05	25 - 35	30
OU2MW-06	15 - 25	ND
OU2MW-07	15 - 25	68
OU2MW-08S	20 - 25	ND
OU2MW-08I	35 - 40	39
OU2MW-09	30 - 40	ND
OU2MW-10I	20 - 25	ND
OU2MW-10D	35 - 40	ND
OU2MW-11I	20 - 25	ND

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-11I2	30 - 35	89
OU2MW-11D	40 - 45	3
OU2MW-12I	20 - 25	ND
OU2MW-12I2	30 - 35	3
OU2MW-12D	40 - 45	2
OU2MW-13I	20 - 25	ND
OU2MW-13D	35 - 40	78
OU2MW-14I	20 - 25	ND
OU2MW-14I2	45 - 50	ND
OU2MW-15D	40 - 45	ND
OU2MW-15I	20 - 25	ND
OU2MW-15I2	30 - 35	ND
OU2MW-16D	35 - 40	ND
OU2MW-16I	15 - 20	ND
OU2MW-16I2	25 - 30	ND
OU2MW-17I	13 - 23	2
OU2MW-17I2	35 - 45	ND
OU2MW-18I	13 - 23	141
OU2MW-18I2	35 - 45	46
OU2MW-19I	13 - 23	ND
OU2MW-19I2	35 - 45	ND
OU2MW-20I	13 - 23	ND
OU2MW-20I2	35 - 45	ND
OU2MW-21I	13 - 23	ND
OU2MW-21I2	35 - 45	ND
OU2MW-22I	25 - 30	ND
OU2MW-22I2	46 - 51	ND
OU2MW-23I	25 - 30	2
OU2MW-23I2	45 - 50	126
OU2MW-24I	25 - 30	ND
OU2MW-24I2	45 - 50	1
OU2MW-25I	25 - 30	4
OU2MW-25I2	45 - 50	ND
OU2MW-26I	13 - 23	ND
OU2MW-26I2	35 - 45	ND
OU2MW-27I	25 - 30	ND
OU2MW-27I2	45 - 50	ND
OU2MW-28I	28 - 33	ND
OU2MW-28I2	35 - 45	ND
OU2MW-29D	45 - 50	1372
OU2MW-29I	20 - 25	ND
OU2MW-29I2	30 - 35	ND
OU2MW-30I	25 - 30	ND
OU2MW-30I2	30 - 35	ND
OU2MW-30I3	45 - 50	ND
OU2MW-31I	18 - 23	ND
OU2MW-31I2	30 - 35	ND
OU2MW-32D	40 - 45	ND
OU2MW-32I	20 - 25	22
OU2MW-32I2	30 - 35	26
OU2MW-33I	25 - 30	ND
OU2MW-33I2	35 - 40	ND
OU2MW-34I	25 - 30	ND
OU2MW-34I2	45 - 50	14
OU2MW-35I	25 - 30	ND
OU2MW-35I2	45 - 50	ND
OU2MW-36I	25 - 30	ND
OU2MW-36I2	45 - 50	ND
OU2MW-37I	25 - 30	ND
OU2MW-37I2	45 - 50	ND
OU2MW-38I	25 - 30	ND
OU2MW-38I2	46 - 51	439

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-39I	25 - 30	1
OU2MW-39I2	45 - 50	1051
OU2MW-40I	18 - 23	10
OU2MW-41I	18 - 23	66
OU2MW-42I	25 - 30	ND
OU2MW-42I2	45 - 50	ND
OU2MW-43I	25 - 30	ND
OU2MW-43I2	45 - 50	218
OU2MW-44I	25 - 30	ND
OU2MW-44I2	45 - 50	ND
OU2MW-45I	20 - 25	ND
OU2MW-45I2	40 - 45	ND
OU2MW-46I	20 - 25	ND
OU2MW-46I2	40 - 45	ND
OU2MW-47I	20 - 25	ND
OU2MW-47I2	40 - 45	ND
OU2MW-48I	25 - 30	ND
OU2MW-48I2	45 - 50	ND
OU2MW-49I	25 - 30	ND
OU2MW-49I2	45 - 50	ND
OU2MW-50I2	45 - 50	ND
OU2MW-51I	25 - 30	ND
OU2MW-51I2	45 - 50	ND
OU2MW-52I	20 - 25	ND
OU2MW-52D	35 - 40	ND
OU2MW-53I	20 - 25	ND
OU2MW-53D	35 - 40	ND
OU2MW-54I	25 - 30	ND
OU2MW-54I2	40 - 45	ND
OU2MW-55I	30 - 35	ND
OU2MW-56I	25 - 30	ND
OU2MW-57I	20 - 30	13
OU2MW-57I2	35 - 45	ND
OU2MW-58I	25 - 30	ND
OZMW-16I	20 - 30	ND
OZMW-16I2	35 - 45	2192
OZMW-17I	20 - 30	1
OZMW-17I2	35 - 45	2
OZMW-18I	20 - 30	ND
OZMW-18I2	35 - 45	56
OZMW-19I	20 - 30	4325
OZMW-19I2	35 - 45	2016
OZMW-21I	20 - 30	4873
OZMW-21I2	35 - 45	5757
OZMW-22IR	20 - 30	89
OZMW-23I	20 - 30	ND
OZMW-23I2	35 - 45	ND
OZMW-24I	20 - 30	208
OZMW-24I2	35 - 45	3527
OZMW-25I	20 - 30	3721
OZMW-25I2	35 - 45	322
OZMW-26I	20 - 30	52
OZMW-26I2	35 - 45	54
OU-3		
BBMW-09I	30 - 40	ND
BBMW-28I	10 - 20	ND
BBMW-30I	14 - 19	ND
BBMW-30D	30 - 35	ND
BBMW-31I	14 - 19	ND
BBMW-31D	30 - 35	ND
BBMW-32I	14 - 19	ND

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-3		
BBMW-32D	30 - 35	ND
MW-01D	35 - 45	ND
MW-24D	14 - 19	ND
MW-29D	14 - 19	ND
MW-34I	18.5 - 19.5	869
MW-34D	27.5 - 28.5	40
MW-34DD	36 - 41	ND
MW-64	19 - 24	500
MW-65	11 - 16	1268
MW-66D	24 - 29	ND
MW-67D	24 - 29	ND
MW-73I	22 - 27	96
MW-75I	22 - 27	3289
MWBS-02I	14.5 - 15.5	5
MWBS-02D	24.5 - 25.5	ND
OU3MW-02I	15 - 20	ND
OU3MW-03I	20 - 25	13
OU3MW-04I	16 - 21	ND
OU3MW-04D	26 - 31	297
OU3MW-04D2	31 - 36	ND
OU3MW-04D3	41 - 46	ND
OU3MW-05I	15 - 20	ND
OU3MW-07I	15 - 20	ND
OU3MW-07I2	20 - 25	1020
OU3MW-07I3	25 - 30	1800
OU3MW-07I4	35 - 40	ND
OU3MW-08I	25 - 30	ND
OU3MW-09I	25 - 30	1263
OU3MW-09I2	35 - 40	3
OU3MW-10I	25 - 30	116
OU3MW-11I	25 - 30	ND
OU3MW-12I	25 - 30	ND
SV-02I	22 - 27	104
SV-02I2	35 - 40	ND
OU-4		
WCMW-02I	34.5 - 44.5	ND
WCMW-04I	19 - 24	411
WCMW-04I2	29.85 - 34.85	73
WCMW-05I	19.61 - 24.61	225
WCMW-05I2	29.46 - 34.46	306
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-07I	18.9 - 23.9	ND
WCMW-07I2	28.95 - 33.95	ND
WCMW-08I	19.2 - 24.2	ND
WCMW-08I2	19.2 - 24.2	ND
WCMW-11I	25 - 35	61
WCMW-12I	25 - 30	1
WCMW-13I	25 - 30	ND
WCMW-14I	20 - 25	125
WCMW-14I2	30 - 35	ND
WCMW-19I	20 - 25	ND
WCMW-19I2	30 - 35	ND
WCMW-22I	25 - 30	ND
WCMW-25I	30 - 35	ND
WCMW-26I	20 - 25	7
WCMW-26I2	30 - 35	1
WCMW-29I	20 - 25	5
WCMW-30I	20 - 25	169
WCMW-30I2	30 - 35	3
WCMW-31I	20 - 25	31
WCMW-31I2	30 - 35	69

LEGEND:

- ⊕BBMW-33 EXISTING MONITORING WELL CLUSTER LOCATION
- ** MONITORING WELL INITIALLY SAMPLED IN Q1 2009
- µg/L MICROGRAMS PER LITER
- PAH POLYCYCLIC AROMATIC HYDROCARBONS
- TOTAL PAH ≥100 µg/L
- TOTAL PAH ≥1,000 µg/L
- TOTAL PAH ≥5,000 µg/L
- HISTORICAL REMEDIAL INVESTIGATIO 2004 PLUME EXTENT BASED ON >100 µg/L BTEX OR >100 µg/L TOTAL PAHs DETECTED IN GROUNDWATER
- INSTALLED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)

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

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INTERMEDIATE GROUNDWATER PAH ISO-CONCENTRATION MAP (10-50 FEET BGS) Q1 2009/Q1 2012 DATA

June 2012 Figure 20

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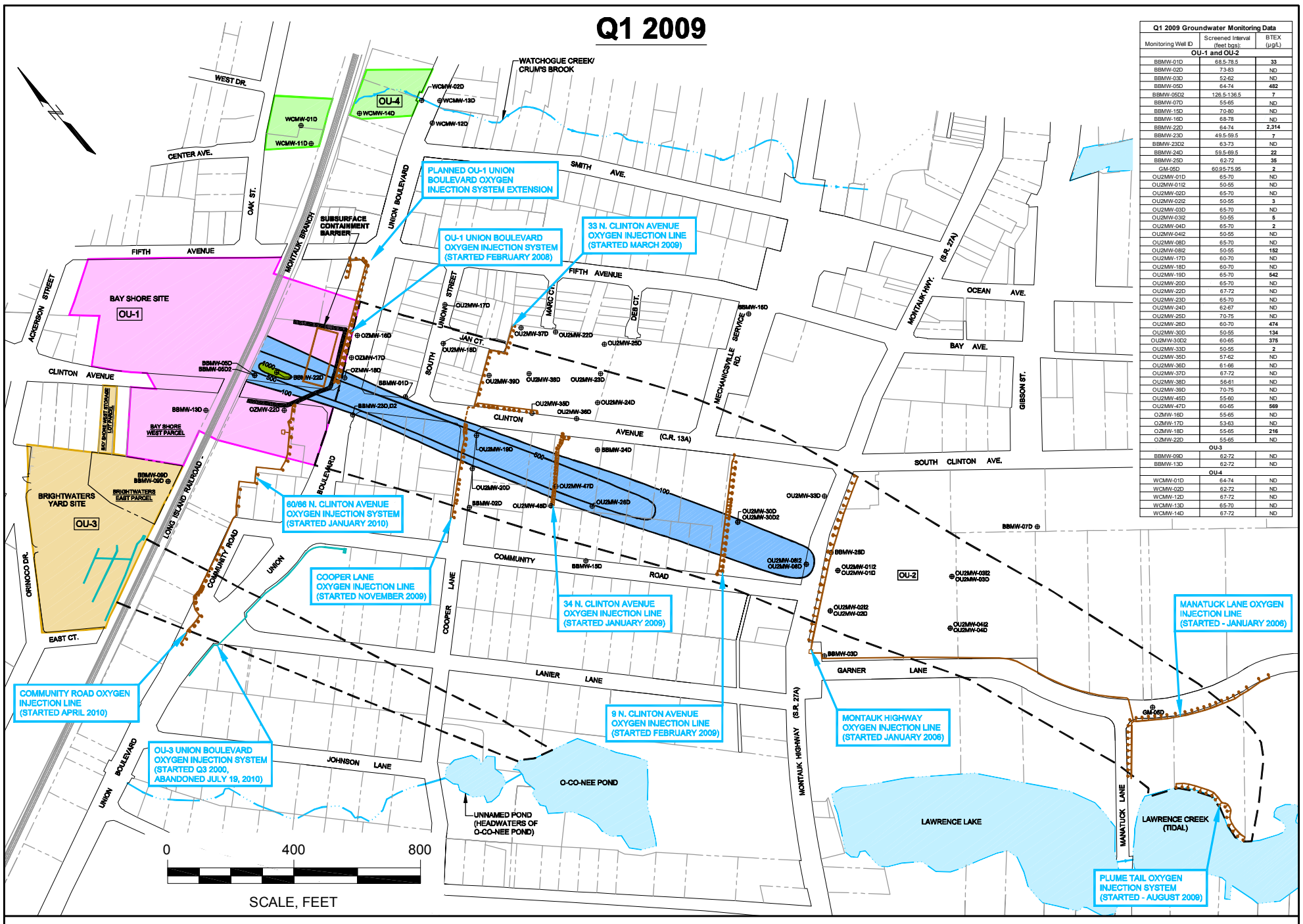
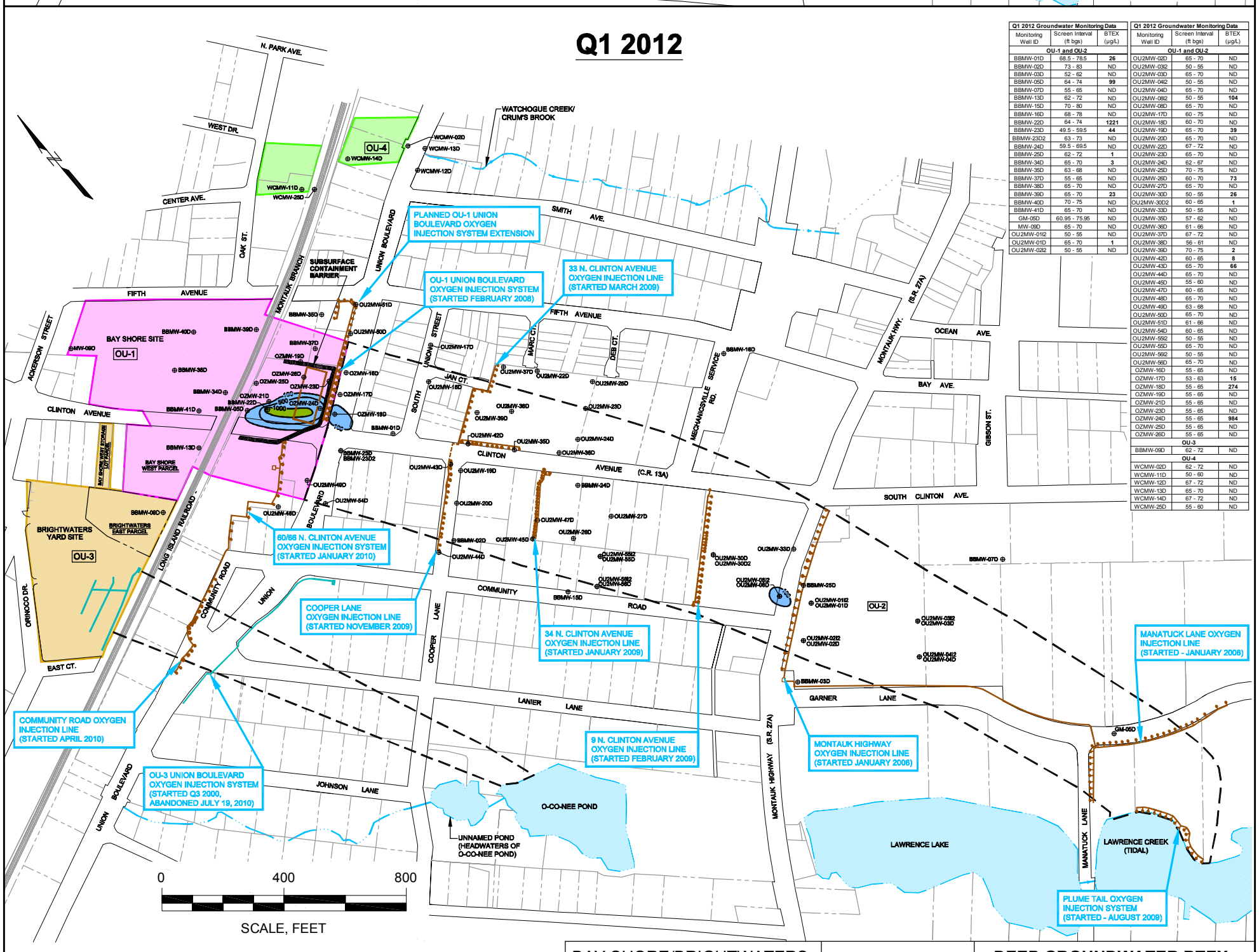
Q1 2009



Q1 2009 Groundwater Monitoring Data

Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	**33**
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	**482**
BBMW-05D2	126.5-136.5	**7**
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	**2,314**
BBMW-23D	49.5-59.5	**7**
BBMW-23D2	63-73	ND
BBMW-24D	59.5-69.5	**22**
BBMW-25D	62-72	**35**
GM-05D	60.95-75.95	**2**
OU2MW-01D	65-70	ND
OU2MW-01I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	**3**
OU2MW-03D	65-70	ND
OU2MW-03I2	50-55	**5**
OU2MW-04D	65-70	**2**
OU2MW-04I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08I2	50-55	**152**
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	65-70	**542**
OU2MW-20D	65-70	ND
OU2MW-22D	67-72	ND
OU2MW-23D	65-70	ND
OU2MW-24D	62-67	ND
OU2MW-25D	70-75	ND
OU2MW-26D	60-70	**474**
OU2MW-30D	50-55	**134**
OU2MW-30D2	60-65	**375**
OU2MW-33D	50-55	**2**
OU2MW-35D	57-62	ND
OU2MW-36D	61-66	ND
OU2MW-37D	67-72	ND
OU2MW-38D	58-61	ND
OU2MW-39D	70-75	ND
OU2MW-45D	55-60	ND
OU2MW-47D	60-65	**569**
OZMW-16D	55-65	ND
OZMW-17D	53-63	ND
OZMW-18D	55-65	**216**
OZMW-22D	55-65	ND
OU-3		
BBMW-09D	62-72	ND
BBMW-13D	62-72	ND
OU-4		
WCMW-01D	64-74	ND
WCMW-02D	62-72	ND
WCMW-12D	67-72	ND
WCMW-13D	65-70	ND
WCMW-14D	67-72	ND

Q1 2012



Q1 2012 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5 - 78.5	**26**
BBMW-02D	73 - 83	ND
BBMW-03D	52 - 62	ND
BBMW-05D	64 - 74	**99**
BBMW-07D	55 - 65	ND
BBMW-13D	62 - 72	ND
BBMW-15D	70 - 80	ND
BBMW-16D	68 - 78	ND
BBMW-22D	64 - 74	**1221**
BBMW-23D	49.5 - 59.5	**44**
BBMW-23D2	63 - 73	ND
BBMW-24D	59.5 - 69.5	ND
BBMW-25D	62 - 72	**1**
BBMW-34D	65 - 70	**3**
BBMW-35D	63 - 68	ND
BBMW-37D	55 - 65	ND
BBMW-38D	65 - 70	ND
BBMW-39D	65 - 70	**23**
BBMW-40D	70 - 75	ND
BBMW-41D	65 - 70	ND
GM-05D	60.95 - 75.95	ND
MW-09D	65 - 70	ND
OU2MW-01I2	50 - 55	ND
OU2MW-01D	65 - 70	**1**
OU2MW-02I2	50 - 55	ND

Q1 2012 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OU2MW-02D	65 - 70	ND
OU2MW-03I2	50 - 55	ND
OU2MW-03D	65 - 70	ND
OU2MW-04I2	50 - 55	ND
OU2MW-04D	65 - 70	ND
OU2MW-08I2	50 - 55	**104**
OU2MW-08D	65 - 70	ND
OU2MW-17D	60 - 75	ND
OU2MW-18D	60 - 70	ND
OU2MW-19D	65 - 70	**39**
OU2MW-20D	65 - 70	ND
OU2MW-22D	67 - 72	ND
OU2MW-23D	65 - 70	ND
OU2MW-24D	62 - 67	ND
OU2MW-25D	70 - 75	ND
OU2MW-26D	60 - 70	**73**
OU2MW-27D	65 - 70	ND
OU2MW-30D	50 - 55	**26**
OU2MW-30D2	60 - 65	**1**
OU2MW-33D	50 - 55	ND
OU2MW-35D	57 - 62	ND
OU2MW-36D	61 - 66	ND
OU2MW-37D	67 - 72	ND
OU2MW-38D	58 - 61	ND
OU2MW-39D	70 - 75	**2**
OU2MW-42D	60 - 65	**8**
OU2MW-43D	65 - 70	**66**
OU2MW-44D	65 - 70	ND
OU2MW-45D	55 - 60	ND
OU2MW-47D	60 - 65	ND
OU2MW-48D	65 - 70	ND
OU2MW-49D	63 - 68	ND
OU2MW-50D	65 - 70	ND
OU2MW-51D	61 - 66	ND
OU2MW-54D	60 - 65	ND
OU2MW-55I2	50 - 55	ND
OU2MW-55D	65 - 70	ND
OU2MW-56I2	50 - 55	ND
OU2MW-56D	65 - 70	ND
OZMW-16D	55 - 65	ND
OZMW-17D	53 - 63	**15**
OZMW-18D	55 - 65	**274**
OZMW-19D	55 - 65	ND
OZMW-21D	55 - 65	ND
OZMW-23D	55 - 65	ND
OZMW-24D	55 - 65	**984**
OZMW-25D	55 - 65	ND
OZMW-26D	55 - 65	ND
OU-3		
BBMW-09D	62 - 72	ND
OU-4		
WCMW-02D	62 - 72	ND
WCMW-11D	50 - 60	ND
WCMW-12D	67 - 72	ND
WCMW-13D	65 - 70	ND
WCMW-14D	67 - 72	ND
WCMW-25D	55 - 60	ND

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ** — MONITORING WELL INITIALLY SAMPLED IN Q1 2009
- µg/L — MICROGRAMS PER LITER
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
- BTEX ≥100 µg/L
- BTEX ≥1,000 µg/L
- BTEX ≥5,000 µg/L
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME EXTENT BASED ON >100 µg/L BTEX OR >100 µg/L TOTAL PAHs DETECTED IN GROUNDWATER
- INSTALLED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)

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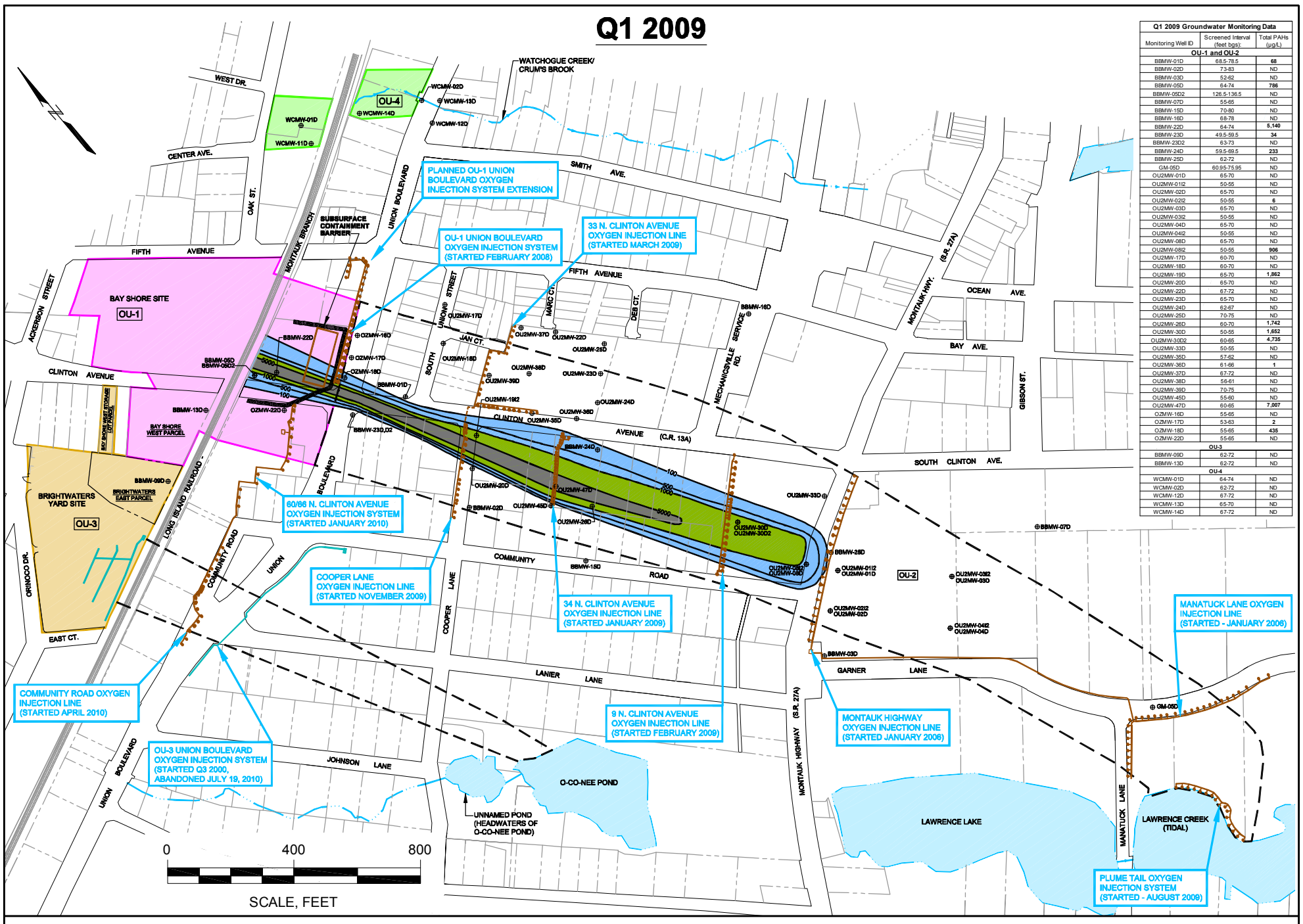
DEEP GROUNDWATER BTEX ISO-CONCENTRATION MAP (BELOW 50 FEET BGS) Q1 2009/Q1 2012 DATA

Project 093180-5-1506 | June 2012 | Figure 21

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2012\ISO-Concentrations\ BAY SHORE-BTEX & PAH PLUMES Q1-2012.dwg \Jun 19, 2012

Q1 2009

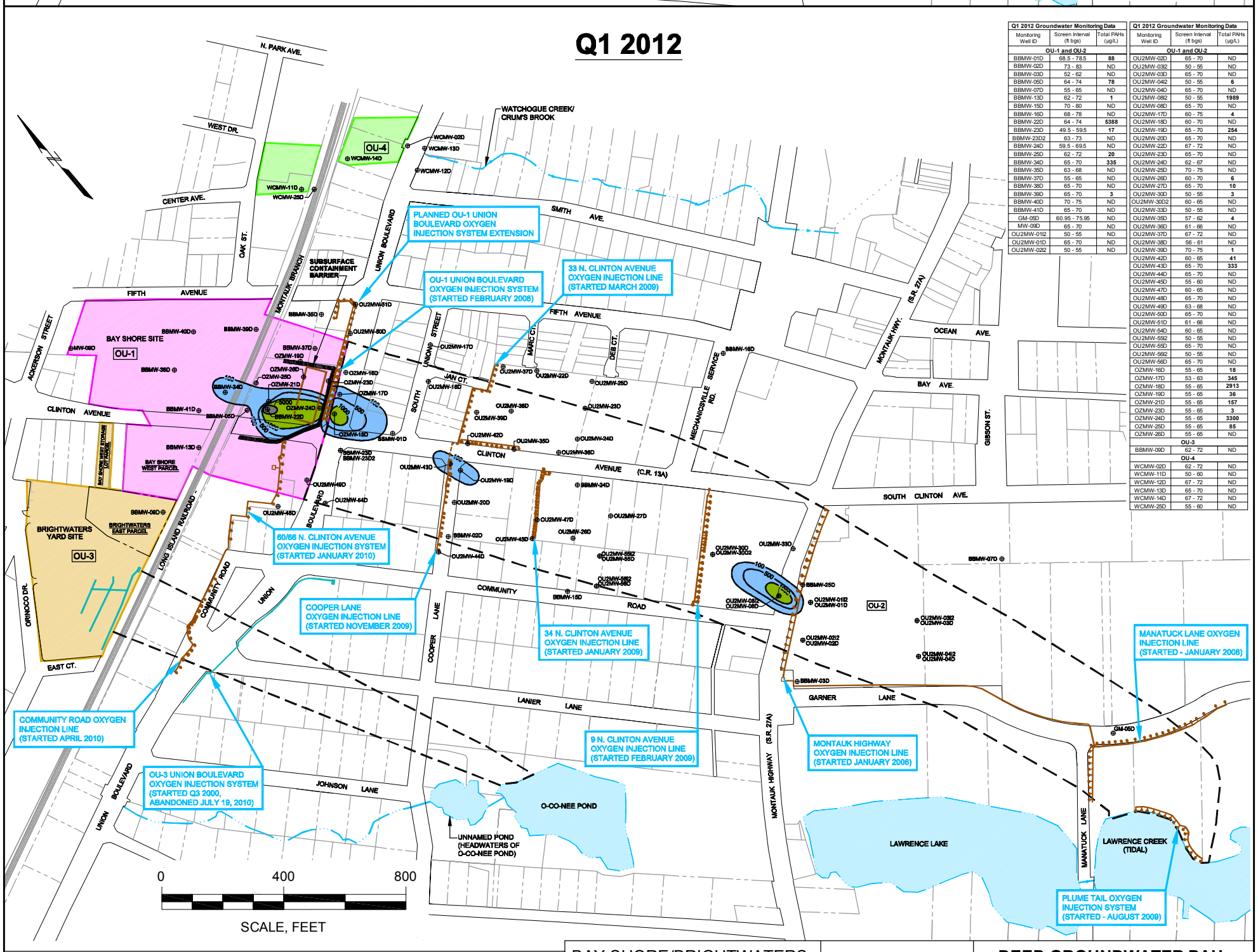
Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	68
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	786
BBMW-05D2	126.5-136.5	ND
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	5,140
BBMW-23D	49.5-59.5	34
BBMW-23D2	63-73	ND
BBMW-24D	59.5-69.5	233
BBMW-25D	62-72	ND
GM-05D	60.95-75.95	ND
OU2MW-01D	65-70	ND
OU2MW-01I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	6
OU2MW-03D	65-70	ND
OU2MW-03I2	50-55	ND
OU2MW-04D	65-70	ND
OU2MW-04I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08I2	50-55	906
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	65-70	1,862
OU2MW-20D	65-70	ND
OU2MW-22D	67-72	ND
OU2MW-23D	65-70	ND
OU2MW-24D	62-67	ND
OU2MW-25D	70-75	ND
OU2MW-26D	60-70	1,742
OU2MW-30D	50-55	1,652
OU2MW-30D2	60-65	4,735
OU2MW-33D	50-55	ND
OU2MW-35D	57-82	ND
OU2MW-36D	61-66	1
OU2MW-37D	67-72	ND
OU2MW-38D	56-61	ND
OU2MW-39D	70-75	ND
OU2MW-45D	55-60	ND
OU2MW-47D	60-65	7,007
OZMW-16D	55-65	ND
OZMW-17D	53-63	2
OZMW-18D	55-65	435
OZMW-22D	55-65	ND
OU-3		
BBMW-09D	62-72	ND
BBMW-13D	62-72	ND
OU-4		
WCMW-01D	64-74	ND
WCMW-02D	62-72	ND
WCMW-12D	67-72	ND
WCMW-13D	65-70	ND
WCMW-14D	67-72	ND



Q1 2012

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5 - 78.5	88
BBMW-02D	73 - 83	ND
BBMW-03D	52 - 62	ND
BBMW-05D	64 - 74	78
BBMW-07D	55 - 65	ND
BBMW-13D	62 - 72	1
BBMW-15D	70 - 80	ND
BBMW-16D	68 - 78	ND
BBMW-22D	64 - 74	5388
BBMW-23D	49.5 - 59.5	17
BBMW-23D2	63 - 73	ND
BBMW-24D	59.5 - 69.5	ND
BBMW-25D	62 - 72	20
BBMW-34D	65 - 70	335
BBMW-35D	63 - 68	ND
BBMW-37D	55 - 65	ND
BBMW-38D	65 - 70	ND
BBMW-39D	65 - 70	3
BBMW-40D	70 - 75	ND
BBMW-41D	65 - 70	ND
GM-05D	60.95 - 75.95	ND
MW-09D	65 - 70	ND
OU2MW-01I2	50 - 55	ND
OU2MW-01D	65 - 70	ND
OU2MW-02I2	50 - 55	ND

Q1 2012 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-02D	65 - 70	ND
OU2MW-03I2	50 - 55	ND
OU2MW-03D	65 - 70	ND
OU2MW-04I2	50 - 55	6
OU2MW-04D	65 - 70	ND
OU2MW-08I2	50 - 55	1989
OU2MW-08D	65 - 70	ND
OU2MW-17D	60 - 75	4
OU2MW-18D	60 - 70	ND
OU2MW-19D	65 - 70	254
OU2MW-20D	65 - 70	ND
OU2MW-22D	67 - 72	ND
OU2MW-23D	65 - 70	ND
OU2MW-24D	62 - 67	ND
OU2MW-25D	70 - 75	ND
OU2MW-26D	60 - 70	6
OU2MW-27D	65 - 70	10
OU2MW-30D	50 - 55	3
OU2MW-30D2	60 - 65	ND
OU2MW-33D	50 - 55	ND
OU2MW-35D	57 - 62	4
OU2MW-36D	61 - 66	ND
OU2MW-37D	67 - 72	ND
OU2MW-38D	56 - 61	ND
OU2MW-39D	70 - 75	1
OU2MW-42D	60 - 65	41
OU2MW-43D	65 - 70	333
OU2MW-44D	65 - 70	ND
OU2MW-45D	55 - 60	ND
OU2MW-47D	60 - 65	ND
OU2MW-48D	65 - 70	ND
OU2MW-49D	63 - 68	ND
OU2MW-50D	65 - 70	ND
OU2MW-51D	61 - 66	ND
OU2MW-54D	60 - 65	ND
OU2MW-55I2	50 - 55	ND
OU2MW-55D	65 - 70	ND
OU2MW-56I2	50 - 55	ND
OU2MW-56D	65 - 70	ND
OZMW-16D	55 - 65	18
OZMW-17D	53 - 63	345
OZMW-18D	55 - 65	2913
OZMW-19D	55 - 65	36
OZMW-21D	55 - 65	157
OZMW-23D	55 - 65	3
OZMW-24D	55 - 65	3300
OZMW-25D	55 - 65	85
OZMW-26D	55 - 65	ND
OU-3		
BBMW-09D	62 - 72	ND
OU-4		
WCMW-02D	62 - 72	ND
WCMW-11D	50 - 60	ND
WCMW-12D	67 - 72	ND
WCMW-13D	65 - 70	ND
WCMW-14D	67 - 72	ND
WCMW-25D	55 - 60	ND



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ** — MONITORING WELL INITIALLY SAMPLED IN Q1 2009
- µg/L — MICROGRAMS PER LITER
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS
- TOTAL PAH ≧100 µg/L
- TOTAL PAH ≧1,000 µg/L
- TOTAL PAH ≧5,000 µg/L
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME EXTENT BASED ON >100 µg/L BTEX OR >100 µg/L TOTAL PAHs DETECTED IN GROUNDWATER
- INSTALLED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)

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DEEP GROUNDWATER PAH ISO-CONCENTRATION MAP (BELOW 50 FEET BGS) Q1 2009/Q1 2012 DATA

Project 093180-5-1506 | June 2012 | Figure 22

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Appendices (compact disk only)

Appendix A: SVE Effluent Analytical Data

Appendix B: OU-1 Oxygen Injection System Operational Data

Appendix C: OU-2 Oxygen Injection System Operational Data

Appendix D: Summary of Groundwater Parameter Data

Appendix E: Time Series Plots of Analytical Results for Groundwater Monitoring Wells

Appendix F: Distribution of pH Values in Groundwater

Appendix G: Summary of Sulfate Concentrations

Appendix H: Monitoring Well Maintenance Checklist

Appendix I: Time Series Plots of Soil Vapor Analytical Results

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-PREGAC 4/1/2010		OZ-PREGAC 4/15/2010		OZ-PREGAC 5/17/2010		OZ-PREGAC 6/22/2010		OZ-PREGAC 7/27/2010	
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
BTEX											
Benzene	5.8	**0.45 J**	**0.000141 J**	**2.9**	**0.000908**	**0.61 J**	**0.000191 J**	**1.4**	**0.000438**	**0.36 J**	**0.000113 J**
Toluene	21	**1.2 J**	**0.000318 J**	**31**	**0.008226**	**2.0**	**0.000531**	**1.9**	**0.000504**	**2.0**	**0.000531**
Ethylbenzene	1.9	**0.52 J**	**0.00012 J**	**4.8**	**0.001105**	**0.43 J**	**0.000099 J**	**0.65 J**	**0.00015 J**	**0.54 J**	**0.000124 J**
m,p-Xylene	3.1	**1.7 J**	**0.000391 J**	**17**	**0.003915**	**1.5 J**	**0.000345 J**	**2.3 J**	**0.00053 J**	**1.8**	**0.000415**
o-Xylene	2.5	**1.3 J**	**0.000299 J**	**6.1**	**0.001405**	**0.91**	**0.00021**	**2.2**	**0.000507**	**4.1**	**0.000944**
Total BTEX (ppmv)	NE	NA	**0.001269**	NA	**0.015559**	NA	**0.001376**	NA	**0.002129**	NA	**0.002127**
Other VOCs											
Acetaldehyde	NE	**7.1 J**	**0.003941 J**	**9.6 J**	**0.005328 J**	**7.9 J**	**0.004385 J**	**37**	**0.020535**	**17 J**	**0.009435 J**
Acetone	58	**4.5 J**	**0.001894 J**	**7.6 J**	**0.003199 J**	**6.9 J**	**0.002905 J**	**16 J**	**0.006736 J**	**13 J**	**0.005473 J**
Acrolein (propenal)	NE	2.3 U	0.001002 U	1.2 U	0.000523 U	1.2 U	0.000523 U	2.3 U	0.001002 U	**0.86 J**	**0.000375 J**
Allyl chloride (Chloropropene,3-)	NE	1.2 U	0.000383 U	0.63 U	0.000201 U	0.63 U	0.000201 U	1.2 U	0.000383 U	0.63 U	0.000201 U
Benzothiophene	NE	2.2 U	0.000401 U	1.1 U	0.0002 U	2.7 U	0.000492 U	2.2 U	0.000401 U	2.7 U	0.000492 U
Bromodichloromethane	NE	2.7 U	0.000403 U	1.3 U	0.000194 U	1.3 U	0.000194 U	2.7 U	0.000403 U	1.3 U	0.000194 U
Bromoform	NE	4.1 U	0.000397 U	2.1 U	0.000203 U	2.1 U	0.000203 U	4.1 U	0.000397 U	2.1 U	0.000203 U
Bromomethane	0.9	1.6 U	0.000412 U	0.78 U	0.000201 U	0.78 U	0.000201 U	1.6 U	0.000412 U	0.78 U	0.000201 U
1,3-Butadiene	NE	0.88 U	0.000398 U	0.44 U	0.000199 U	0.44 U	0.000199 U	0.88 U	0.000398 U	0.44 U	0.000199 U
Butane	NE	**3.2**	**0.001344**	**1.7**	**0.000714**	**2.8**	**0.001176**	0.95 U	0.000399 U	**0.85**	**0.000357**
2-Butanone (Methyl ethyl ketone)	17	**3.2**	**0.001085**	**5.8**	**0.001967**	**4.6**	**0.00156**	**5.2**	**0.001763**	**8.5**	**0.002882**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	1.2 U	0.000396 U	**0.33 J**	**0.000109 J**	0.61 U	0.000201 U	**2.7**	**0.000891**	0.61 U	0.000201 U
Carbon disulfide	NE	1.2 U	0.000385 U	**1.2**	**0.000385**	**0.59 J**	**0.000189 J**	**2.7**	**0.000867**	**2.3**	**0.000739**
Carbon tetrachloride	1	2.5 U	0.000397 U	**0.44 J**	**0.00007 J**	**0.44 J**	**0.00007 J**	2.5 U	0.000397 U	**0.41 J**	**0.000065 J**
Chlorobenzene	<0.25	1.8 U	0.000391 U	**2.1**	**0.000456**	0.92 U	0.0002 U	1.8 U	0.000391 U	0.92 U	0.0002 U
Chloroethane	0.4	1.0 U	0.000379 U	0.53 U	0.000201 U	0.53 U	0.000201 U	1.0 U	0.000379 U	0.53 U	0.000201 U
Chloroform	0.5	2.0 U	0.00041 U	0.98 U	0.000201 U	0.98 U	0.000201 U	2.0 U	0.00041 U	**0.62 J**	**0.000127 J**
Chloromethane	4.6	**0.87**	**0.000421**	**0.78**	**0.000378**	**0.80**	**0.000387**	**0.96**	**0.000465**	**0.85**	**0.000412**
2-Chlorotoluene	NE	2.1 U	0.000406 U	1.0 U	0.000193 U	1.0 U	0.000193 U	2.1 U	0.000406 U	1.0 U	0.000193 U
Cryofluorane (Freon-114)	1.3	2.8 U	0.000401 U	1.4 U	0.0002 U	1.4 U	0.0002 U	2.8 U	0.000401 U	1.4 U	0.0002 U
Cyclohexane	3	1.4 U	0.000407 U	**1.2 J**	**0.000349 J**	0.69 U	0.0002 U	1.4 U	0.000407 U	**0.19 J**	**0.000055 J**
n-Decane	3.6	2.3 U	0.000395 U	**1.6**	**0.000275**	**0.58 J**	**0.0001 J**	**15**	**0.002577**	**1.7**	**0.000292**
Dibromochloromethane	NE	3.4 U	0.000399 U	1.7 U	0.0002 U	1.7 U	0.0002 U	3.4 U	0.000399 U	1.7 U	0.0002 U
1,2-Dibromoethane	<0.25	3.1 U	0.000403 U	1.5 U	0.000195 U	1.5 U	0.000195 U	3.1 U	0.000403 U	1.5 U	0.000195 U
1,2-Dichlorobenzene	0.9	2.4 U	0.000399 U	1.2 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U	1.2 U	0.0002 U
1,3-Dichlorobenzene	0.7	2.4 U	0.000399 U	1.2 U	0.0002 U	1.2 U	0.0002 U	**1.7 J**	**0.000283 J**	1.2 U	0.0002 U
1,4-Dichlorobenzene	0.8	2.4 U	0.000399 U	1.2 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U	1.2 U	0.0002 U
Dichlorodifluoromethane	11	**2.8**	**0.000566**	**2.5**	**0.000506**	**2.5**	**0.000506**	**2.3**	**0.000465**	**2.3**	**0.000465**
1,1-Dichloroethane	<0.25	1.6 U	0.000395 U	0.81 U	0.0002 U	0.81 U	0.0002 U	1.6 U	0.000395 U	0.81 U	0.0002 U
1,2-Dichloroethane	<0.25	1.6 U	0.000395 U	0.81 U	0.0002 U	0.81 U	0.0002 U	1.6 U	0.000395 U	0.81 U	0.0002 U
1,1-Dichloroethene	<0.25	1.6 U	0.000404 U	0.79 U	0.000199 U	0.79 U	0.000199 U	1.6 U	0.000404 U	0.79 U	0.000199 U
cis-1,2-Dichloroethene	<0.25	1.6 U	0.000404 U	0.79 U	0.000199 U	0.79 U	0.000199 U	1.6 U	0.000404 U	0.79 U	0.000199 U
trans-1,2-Dichloroethene	NE	1.6 U	0.000404 U	0.79 U	0.000199 U	0.79 U	0.000199 U	1.6 U	0.000404 U	0.79 U	0.000199 U
1,2-Dichloropropane	<0.25	1.8 U	0.00039 U	0.92 U	0.000199 U	0.92 U	0.000199 U	1.8 U	0.00039 U	0.92 U	0.000199 U
cis-1,3-Dichloropropene	<0.25	1.8 U	0.000397 U	0.91 U	0.0002 U	0.91 U	0.0002 U	1.8 U	0.000397 U	0.91 U	0.0002 U
trans-1,3-Dichloropropene	<0.25	1.8 U	0.000397 U	0.91 U	0.0002 U	0.91 U	0.0002 U	1.8 U	0.000397 U	0.91 U	0.0002 U
1,4-Dioxane	NE	1.4 U	0.000389 U	0.72 U	0.0002 U	0.72 U	0.0002 U	1.4 U	0.000389 U	0.72 U	0.0002 U
n-Dodecane	7.6	2.8 U	0.000402 U	**2.3 J**	**0.00033 J**	**1.3 J**	**0.000187 J**	**9.3**	**0.001335**	**4.1 J**	**0.000588 J**
Ethanol	220	**4.9**	**0.002601**	**26**	**0.013799**	**8.0**	**0.004246**	**22**	**0.011676**	**4.5**	**0.002388**
2-Ethylthiophene	NE	1.8 U	0.000392 U	0.92 U	0.000201 U	0.92 U	0.000201 U	1.8 U	0.000392 U	0.92 U	0.000201 U
p-Ethyltoluene	NE	2.0 U	0.000407 U	**0.88 J**	**0.000179 J**	0.98 U	0.000199 U	2.0 U	0.000407 U	**0.49 J**	**0.0001 J**
n-Heptane	5.1	1.6 U	0.00039 U	**3.0**	**0.000732**	**0.29 J**	**0.000071 J**	1.6 U	0.00039 U	0.82 U	0.0002 U
Hexachlorobutadiene	7	4.3 U	0.000403 U	2.1 U	0.000197 U	2.1 U	0.000197 U	4.3 U	0.000403 U	2.1 U	0.000197 U
n-Hexane	3.6	**0.42 J**	**0.000119 J**	**2.6 J**	**0.000738 J**	**0.70**	**0.000199**	1.4 U	0.000397 U	**0.46 J**	**0.000131 J**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-PREGAC 4/1/2010		OZ-PREGAC 4/15/2010		OZ-PREGAC 5/17/2010		OZ-PREGAC 6/22/2010		OZ-PREGAC 7/27/2010	
Sample Date:											
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	1.6 U	0.000391 U	0.82 U	0.0002 U	0.82 U	0.0002 U	1.6 U	0.000391 U	0.82 U	0.0002 U
Indane	NE	1.9 U	0.000393 U	**0.48 J**	**0.000099 J**	0.97 U	0.000201 U	**0.56 J**	**0.000116 J**	0.97 U	0.000201 U
Indene	NE	1.9 U	0.0004 U	**1.6**	**0.000337**	0.95 UJ	0.0002 UJ	**2.7**	**0.000568**	0.95 U	0.0002 U
Methyl tert-butyl ether	5.9	1.4 U	0.000388 U	0.72 U	0.0002 U	0.72 U	0.0002 U	1.4 U	0.000388 U	0.72 U	0.0002 U
4-Methyl-2-pentanone	2.9	1.6 U	0.000391 U	0.82 UJ	0.0002 UJ	0.82 U	0.0002 U	**3.9**	**0.000952**	0.82 U	0.0002 U
Methylene chloride	2.9	**1.4 J**	**0.000403 J**	**0.87 J**	**0.00025 J**	1.7 U	0.000489 U	**2.0 J**	**0.000576 J**	3.6 U	0.001036 U
1-Methylnaphthalene	NE	5.8 U	0.000997 U	2.9 U	0.000499 U	2.9 UJ	0.000499 UJ	5.8 U	0.000997 U	5.8 U	0.000997 U
2-Methylnaphthalene	NE	5.8 U	0.000997 U	2.9 UJ	0.000499 UJ	2.9 U	0.000499 U	5.8 U	0.000997 U	5.8 U	0.000997 U
2-Methylthiophene	NE	1.6 U	0.000398 U	0.80 U	0.000199 U	0.80 U	0.000199 U	1.6 U	0.000398 U	0.80 U	0.000199 U
3-Methylthiophene	NE	1.6 U	0.000399 U	0.80 U	0.000199 U	0.80 U	0.000199 U	1.6 U	0.000399 U	0.80 U	0.000199 U
Naphthalene	10	2.1 U	0.000401 U	**1.3 J**	**0.000248 J**	**0.31 J**	**0.000059 J**	**4.3 J**	**0.00082 J**	**0.41 J**	**0.000078 J**
Nonane	1.2	2.1 U	0.0004 U	**1.1**	**0.00021**	**0.37 J**	**0.000071 J**	2.1 U	0.0004 U	1.0 U	0.000191 U
n-Octane	2.1	1.9 U	0.000407 U	**2.8**	**0.000599**	**0.23 J**	**0.000049 J**	**3.8**	**0.000813**	**0.24 J**	**0.000051 J**
Pentane	NE	**2.4**	**0.000813**	**4.5**	**0.001525**	**2.6**	**0.000881**	**2.8**	**0.000949**	**3.3**	**0.001118**
2-Propanol (Isopropyl Alcohol)	NE	2.5 U	0.001017 U	**0.74 J**	**0.000301 J**	**1.0 J**	**0.000407 J**	2.5 U	0.001017 U	**1.3**	**0.000529**
Styrene	0.6	1.7 U	0.000399 U	**0.51 J**	**0.00012 J**	**0.26 J**	**0.000061 J**	**0.77 J**	**0.000181 J**	0.85 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	2.7 U	0.000393 U	1.4 U	0.000204 U	1.4 U	0.000204 U	2.7 U	0.000393 U	1.4 U	0.000204 U
Tetrachloroethene	1.6	**0.81 J**	**0.000119 J**	**1.0 J**	**0.000147 J**	**1.0 J**	**0.000147 J**	**1.1 J**	**0.000162 J**	**1.8**	**0.000265**
1,2,4,5-Tetramethylbenzene	NE	2.2 U	0.000401 U	**0.38 J**	**0.000069 J**	**0.38 J**	**0.000069 J**	2.2 U	0.000401 U	**1.3 J**	**0.000237 J**
Thiophene	NE	1.4 U	0.000407 U	0.69 U	0.000201 U	0.69 U	0.000201 U	1.4 U	0.000407 U	0.69 U	0.000201 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	3.1 U	0.000405 U	**0.61 J**	**0.00008 J**	**0.54 J**	**0.00007 J**	3.1 U	0.000405 U	**0.56 J**	**0.000073 J**
1,2,4-Trichlorobenzene	4.8	3.0 U	0.000404 U	1.5 U	0.000202 U	1.5 U	0.000202 U	3.0 U	0.000404 U	1.5 U	0.000202 U
1,1,1-Trichloroethane	0.7	2.2 U	0.000403 U	1.1 U	0.000202 U	1.1 U	0.000202 U	2.2 U	0.000403 U	1.1 U	0.000202 U
1,1,2-Trichloroethane	<0.25	2.2 U	0.000403 U	1.1 U	0.000202 U	1.1 U	0.000202 U	2.2 U	0.000403 U	1.1 U	0.000202 U
Trichloroethene	0.5	2.2 U	0.000409 U	1.1 U	0.000205 U	1.1 U	0.000205 U	2.2 U	0.000409 U	1.1 U	0.000205 U
Trichlorofluoromethane	6.1	**1.1 J**	**0.000196 J**	**1.5**	**0.000267**	**1.4**	**0.000249**	**1.3 J**	**0.000231 J**	**1.3**	**0.000231**
1,2,3-Trimethylbenzene	0.6	2.0 U	0.000407 U	**1.0**	**0.000203**	**0.69 J**	**0.00014 J**	**0.90 J**	**0.000183 J**	**2.4**	**0.000488**
1,2,4-Trimethylbenzene	2.5	2.0 U	0.000407 U	**2.5**	**0.000509**	**0.49 J**	**0.0001 J**	**1.3 J**	**0.000264 J**	**0.65 J**	**0.000132 J**
1,3,5-Trimethylbenzene	1	**2.0**	**0.000407**	**2.3**	**0.000468**	**3.7**	**0.000753**	**2.0 J**	**0.000407 J**	**12**	**0.002441**
2,2,4-Trimethylpentane	2	1.9 U	0.000407 U	**2.6**	**0.000557**	**0.61 J**	**0.000131 J**	1.9 U	0.000407 U	0.93 U	0.000199 U
n-Undecane	2.3	2.6 U	0.000407 U	**3.1 J**	**0.000485 J**	1.3 U	0.000203 U	**3.4 J**	**0.000532 J**	1.3 U	0.000203 U
Vinyl bromide	NE	1.8 U	0.000412 U	0.87 U	0.000199 U	0.87 U	0.000199 U	1.8 U	0.000412 U	0.87 U	0.000199 U
Vinyl chloride	<0.25	1.0 U	0.000391 U	0.51 U	0.0002 U	0.51 U	0.0002 U	1.0 U	0.000391 U	0.51 U	0.0002 U
Total VOCs (ppmv)	NE	NA	**0.015178**	NA	**0.051547**	NA	**0.020544**	NA	**0.056476**	NA	**0.031654**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-PREGAC 8/30/2010		OZ-PREGAC 9/16/2010		OZ-PREGAC 10/22/2010		OZ-PREGAC 11/22/2010		OZ-PREGAC 12/28/2010	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	**0.40 J**	**0.000125 J**	**1.2**	**0.000376**	**0.61 J**	**0.000191 J**	**0.45 J**	**0.000141 J**	**0.80**	**0.00025**
Toluene	21	**3.5**	**0.000929**	**5.4**	**0.001433**	**1.7**	**0.000451**	**0.87 J**	**0.000231 J**	**6.8**	**0.001805**
Ethylbenzene	1.9	**0.41 J**	**0.000094 J**	**1.2**	**0.000276**	0.87 U	0.0002 U	**0.3 J**	**0.000069 J**	**1.6**	**0.000369**
m,p-Xylene	3.1	**1.2 J**	**0.000276 J**	**4.2**	**0.000967**	**0.91 J**	**0.00021 J**	**0.95 J**	**0.000219 J**	**8.4**	**0.001934**
o-Xylene	2.5	**1.8**	**0.000415**	**2.1**	**0.000484**	**0.35 J**	**0.000081 J**	**0.39 J**	**0.00009 J**	**3.3**	**0.00076**
Total BTEX (ppmv)	NE	NA	**0.001839**	NA	**0.003536**	NA	**0.000933**	NA	**0.00075**	NA	**0.005118**
Other VOCs											
Acetaldehyde	NE	**24**	**0.01332**	**27**	**0.014985**	**4.4 J**	**0.002442 J**	**6.4 J**	**0.003552 J**	**3.3 J**	**0.001832 J**
Acetone	58	**17**	**0.007157**	12 U	0.005052 U	**3.4 J**	**0.001431 J**	**4 J**	**0.001684 J**	**3.4 G**	**0.001431 G**
Acrolein (propenal)	NE	**0.77 J**	**0.000336 J**	1.2 U	0.000523 U	1.2 U	0.000523 U	1.2 U	0.000523 U	1.2 U	0.000523 U
Allyl chloride (Chloropropene,3-)	NE	0.63 U	0.000201 U	0.63 U	0.000201 U	0.63 U	0.000201 U	0.63 U	0.000201 U	0.63 U	0.000201 U
Benzothiophene	NE	2.7 U	0.000492 U	2.7 UJ	0.000492 UJ	1.1 U	0.0002 U	1.1 U	0.0002 U	1.1 U	0.0002 U
Bromodichloromethane	NE	1.3 U	0.000194 U	1.3 U	0.000194 U	1.3 U	0.000194 U	1.3 U	0.000194 U	1.3 U	0.000194 U
Bromoform	NE	2.1 U	0.000203 U	2.1 U	0.000203 U	2.1 UJ	0.000203 UJ	2.1 U	0.000203 U	2.1 U	0.000203 U
Bromomethane	0.9	0.78 U	0.000201 U	0.78 U	0.000201 U	0.78 U	0.000201 U	0.78 U	0.000201 U	0.78 U	0.000201 U
1,3-Butadiene	NE	0.44 U	0.000199 U	0.44 U	0.000199 U	0.44 U	0.000199 U	0.44 U	0.000199 U	0.44 U	0.000199 U
Butane	NE	**1.0**	**0.00042**	**3.0**	**0.00126**	**0.78**	**0.000328**	**1.4**	**0.000589**	**1.1**	**0.000463**
2-Butanone (Methyl ethyl ketone)	17	**5.9**	**0.002001**	**2.2**	**0.000746**	**1.1**	**0.000373**	**0.97**	**0.000329**	**1.3**	**0.000441**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	**0.41 J**	**0.000135 J**	0.61 U	0.000201 U	0.61 U	0.000201 U	0.61 U	0.000201 U	0.61 U	0.000201 U
Carbon disulfide	NE	**2.4**	**0.000771**	**0.84**	**0.00027**	**0.19 J**	**0.000061 J**	**0.37 J**	**0.000119 J**	**0.19 J**	**0.000061 J**
Carbon tetrachloride	1	**0.52 J**	**0.000083 J**	**0.57 J**	**0.000091 J**	**0.44 J**	**0.00007 J**	**0.44 J**	**0.00007 J**	**0.44 J**	**0.00007 J**
Chlorobenzene	<0.25	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U
Chloroethane	0.4	0.53 U	0.000201 U	0.53 U	0.000201 U	0.53 U	0.000201 U	0.53 U	0.000201 U	0.53 U	0.000201 U
Chloroform	0.5	**0.40 J**	**0.000082 J**	**0.34 J**	**0.00007 J**	**0.49 J**	**0.0001 J**	0.98 U	0.000201 U	0.98 U	0.000201 U
Chloromethane	4.6	**1.2**	**0.000581**	0.41 U	0.000199 U	**0.85**	**0.000412**	**0.76**	**0.000368**	**0.91**	**0.000441**
2-Chlorotoluene	NE	1.0 U	0.000193 U	1.0 U	0.000193 U	1 U	0.000193 U	1 U	0.000193 U	1.0 U	0.000193 U
Cryofluorane (Freon-114)	1.3	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U
Cyclohexane	3	0.69 U	0.0002 U	**0.28 J**	**0.000081 J**	**0.21 J**	**0.000061 J**	0.69 U	0.0002 U	**0.28 J**	**0.000081 J**
n-Decane	3.6	1.2 U	0.000206 U	**2.0**	**0.000344**	1.2 U	0.000206 U	**0.41 J**	**0.00007 J**	**0.35 J**	**0.00006 J**
Dibromochloromethane	NE	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U
1,2-Dibromoethane	<0.25	1.5 U	0.000195 U	1.5 U	0.000195 U	1.5 U	0.000195 U	1.5 U	0.000195 U	1.5 U	0.000195 U
1,2-Dichlorobenzene	0.9	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U
1,3-Dichlorobenzene	0.7	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U
1,4-Dichlorobenzene	0.8	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U
Dichlorodifluoromethane	11	**2.5**	**0.000506**	**2.4**	**0.000485**	**2.1**	**0.000425**	**2.3**	**0.000465**	**2.7**	**0.000546**
1,1-Dichloroethane	<0.25	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U
1,2-Dichloroethane	<0.25	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U
1,1-Dichloroethene	<0.25	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U
cis-1,2-Dichloroethene	<0.25	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U
trans-1,2-Dichloroethene	NE	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U
1,2-Dichloropropane	<0.25	0.92 U	0.000199 U	0.92 U	0.000199 U	0.92 U	0.000199 U	0.92 U	0.000199 U	0.92 U	0.000199 U
cis-1,3-Dichloropropene	<0.25	0.91 U	0.0002 U	0.91 U	0.0002 U	0.91 U	0.000201 U	0.91 U	0.000201 U	0.91 U	0.000201 U
trans-1,3-Dichloropropene	<0.25	0.91 U	0.0002 U	0.91 U	0.0002 U	0.91 U	0.000201 U	0.91 U	0.000201 U	0.91 U	0.000201 U
1,4-Dioxane	NE	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U
n-Dodecane	7.6	**1.2 J**	**0.000172 J**	**2.8**	**0.000402**	1.4 U	0.000201 U	1.4 UJ	0.000201 UJ	1.4 U	0.000201 U
Ethanol	220	**11**	**0.005838**	**14**	**0.00743**	**2**	**0.001061**	**4.1**	**0.002176**	**1.9**	**0.001008**
2-Ethylthiophene	NE	0.92 U	0.000201 U	0.92 U	0.000201 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U
p-Ethyltoluene	NE	0.98 U	0.000199 U	**0.49 J**	**0.0001 J**	0.98 U	0.000199 U	0.98 U	0.000199 U	**0.69 J**	**0.00014 J**
n-Heptane	5.1	**0.70 J**	**0.000171 J**	**1.4**	**0.000342**	**0.33 J**	**0.000081 J**	0.82 U	0.0002 U	**0.29 J**	**0.000071 J**
Hexachlorobutadiene	7	2.1 U	0.000197 U	2.1 U	0.000197 U	2.1 U	0.000197 U	2.1 U	0.000197 U	2.1 U	0.000197 U
n-Hexane	3.6	**0.75**	**0.000213**	**2.2**	**0.000624**	**0.53 J**	**0.00015 J**	**0.42 J**	**0.000119 J**	**0.21 J**	**0.00006 J**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-PREGAC 8/30/2010		OZ-PREGAC 9/16/2010		OZ-PREGAC 10/22/2010		OZ-PREGAC 11/22/2010		OZ-PREGAC 12/28/2010	
Sample Date:											
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U
Indane	NE	0.97 U	0.000201 U	**0.43 J**	**0.000089 J**	0.97 U	0.000201 U	0.97 U	0.000201 U	**0.58 J**	**0.00012 J**
Indene	NE	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U
Methyl tert-butyl ether	5.9	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U
4-Methyl-2-pentanone	2.9	**0.41 J**	**0.0001 J**	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U
Methylene chloride	2.9	**13**	**0.003742**	3.8 U	0.001094 U	**1.2 J**	**0.000345 J**	3.5 U	0.001007 U	**2.5 J**	**0.00072 J**
1-Methylnaphthalene	NE	2.9 U	0.000499 U	2.9 U	0.000499 U	1.2 U	0.000206 U	1.2 U	0.000206 U	2.9 U	0.000499 U
2-Methylnaphthalene	NE	2.9 U	0.000499 U	2.9 U	0.000499 U	1.2 U	0.000206 U	1.2 U	0.000206 U	2.9 U	0.000499 U
2-Methylthiophene	NE	0.80 U	0.000199 U	0.80 U	0.000199 U	0.8 U	0.000199 U	0.8 U	0.000199 U	0.80 U	0.000199 U
3-Methylthiophene	NE	0.80 U	0.000199 U	0.80 U	0.000199 U	0.8 U	0.000199 U	0.8 U	0.000199 U	0.80 U	0.000199 U
Naphthalene	10	**0.29 J**	**0.000055 J**	**0.31 J**	**0.000059 J**	1 U	0.000191 U	1 U	0.000191 U	**1.5**	**0.000286**
Nonane	1.2	**0.39 J**	**0.000074 J**	**1.3**	**0.000248**	1 U	0.000191 U	1 U	0.000191 U	**0.47 J**	**0.00009 J**
n-Octane	2.1	**0.33 J**	**0.000071 J**	**0.89 J**	**0.00019 J**	0.93 U	0.000199 U	0.93 U	0.000199 U	**0.47 J**	**0.000101 J**
Pentane	NE	**3.4**	**0.001152**	**3.5**	**0.001186**	**1.8**	**0.00061**	**1.3**	**0.000441**	**0.83**	**0.000281**
2-Propanol (Isopropyl Alcohol)	NE	**1.1 J**	**0.000448 J**	**1.3**	**0.000529**	1.2 U	0.000488 U	1.2 U	0.000488 U	1.2 U	0.000488 U
Styrene	0.6	0.85 U	0.0002 U	0.85 U	0.0002 U	0.85 U	0.0002 U	0.85 U	0.0002 U	0.85 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	1.4 U	0.000204 U	1.4 U	0.000204 U	1.4 U	0.000204 U	1.4 U	0.000204 U	1.4 U	0.000204 U
Tetrachloroethene	1.6	**1.0 J**	**0.000147 J**	**1.3 J**	**0.000192 J**	**0.81 J**	**0.000119 J**	**0.47 J**	**0.000069 J**	1.4 U	0.000206 U
1,2,4,5-Tetramethylbenzene	NE	1.1 U	0.0002 U	1.1 U	0.0002 U	1.1 U	0.0002 U	1.1 UJ	0.0002 UJ	**0.55 J**	**0.0001 J**
Thiophene	NE	0.69 U	0.000201 U	0.69 U	0.000201 U	0.69 U	0.000201 U	0.69 U	0.000201 U	0.69 U	0.000201 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	**0.50 J**	**0.000065 J**	**0.54 J**	**0.00007 J**	**0.38 J**	**0.00005 J**	**0.54 J**	**0.00007 J**	**0.54 J**	**0.00007 J**
1,2,4-Trichlorobenzene	4.8	1.5 U	0.000202 U	1.5 U	0.000202 U	1.5 U	0.000202 U	1.5 U	0.000202 U	1.5 U	0.000202 U
1,1,1-Trichloroethane	0.7	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U
1,1,2-Trichloroethane	<0.25	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U
Trichloroethene	0.5	1.1 U	0.000205 U	1.1 U	0.000205 U	1.1 U	0.000205 U	1.1 U	0.000205 U	1.1 U	0.000205 U
Trichlorofluoromethane	6.1	**1.4**	**0.000249**	**1.3**	**0.000231**	**1.2**	**0.000214**	**1.2**	**0.000214**	**1.4**	**0.000249**
1,2,3-Trimethylbenzene	0.6	**0.75 J**	**0.000153 J**	**0.93 J**	**0.000189 J**	0.98 U	0.000199 U	0.98 U	0.000199 U	**1.1**	**0.000224**
1,2,4-Trimethylbenzene	2.5	**0.49 J**	**0.0001 J**	**2.0**	**0.000407**	**0.29 J**	**0.000059 J**	**0.59 J**	**0.00012 J**	**2.8**	**0.00057**
1,3,5-Trimethylbenzene	1	**4.7**	**0.000956**	**3.1**	**0.000631**	**0.79 J**	**0.000161 J**	**0.34 J**	**0.000069 J**	**1.3**	**0.000264**
2,2,4-Trimethylpentane	2	**0.80 J**	**0.000171 J**	**1.3**	**0.000278**	0.93 U	0.000199 U	**0.51 J**	**0.000109 J**	0.93 U	0.000199 U
n-Undecane	2.3	**0.48 J**	**0.000075 J**	**1.8**	**0.000282**	1.3 U	0.000203 U	**0.57 J**	**0.000089 J**	**0.32 J**	**0.00005 J**
Vinyl bromide	NE	0.87 U	0.000199 U	0.87 U	0.000199 U	0.87 U	0.000199 U	0.87 U	0.000199 U	0.87 U	0.000199 U
Vinyl chloride	<0.25	0.51 U	0.0002 U	0.51 U	0.0002 U	0.51 U	0.0002 U	0.51 U	0.0002 U	0.51 U	0.0002 U
Total VOCs (ppmv)	NE	NA	**0.041183**	NA	**0.035347**	NA	**0.009486**	NA	**0.011472**	NA	**0.014948**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-PREGAC 1/31/2011		OZ-PREGAC 2/24/2011		OZ-PREGAC 3/27/2011		OZ-PREGAC 4/27/2011		OZ-PREGAC 5/27/2011	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	**0.635 J**	**0.000199 J**	**1.02**	**0.000319**	**0.297 J**	**0.000093 J**	**0.227 J**	**0.000071 J**	**0.502 J**	**0.000157 J**
Toluene	21	**0.922**	**0.000245**	**3.96**	**0.001051**	**0.516 J**	**0.000137 J**	**1.15**	**0.000305**	**0.991**	**0.000263**
Ethylbenzene	1.9	0.868 U	0.0002 U	**1.02**	**0.000235**	0.868 U	0.0002 U	**0.351 J**	**0.000081 J**	**0.386 J**	**0.000089 J**
m,p-Xylene	3.1	1.74 U	0.000401 U	**3.34**	**0.000769**	1.74 U	0.000401 U	**1.48 J**	**0.000341 J**	**1.06 J**	**0.000244 J**
o-Xylene	2.5	**0.282 J**	**0.000065 J**	**1.3**	**0.000299**	0.868 U	0.0002 U	**0.364 J**	**0.000084 J**	**0.343 J**	**0.000079 J**
Total BTEX (ppmv)	NE	NA	**0.000509**	NA	**0.002673**	NA	**0.00023**	NA	**0.000882**	NA	**0.000832**
Other VOCs											
Acetaldehyde	NE	**2.96 J**	**0.001643 J**	**5.55**	**0.003081**	**3.55 J**	**0.00197 J**	**5.52**	**0.003064**	**12.1**	**0.006716**
Acetone	58	4.92 U	0.002071 U	**5.86**	**0.002467**	**3.36**	**0.001414**	**5.04**	**0.002122**	**5.91**	**0.002488**
Acrolein (propenal)	NE	1.14 U	0.000497 U	**0.449 J**	**0.000196 J**	1.14 U	0.000497 U	1.14 U	0.000497 U	**0.704 J**	**0.000307 J**
Allyl chloride (Chloropropene,3-)	NE	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U
Benzothiophene	NE	2.74 UJ	0.000499 UJ	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U
Bromodichloromethane	NE	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U
Bromoform	NE	2.06 U	0.000199 U	2.06 U	0.000199 U	2.06 U	0.000199 U	2.06 U	0.000199 U	2.07 U	0.0002 U
Bromomethane	0.9	0.776 U	0.0002 U	0.776 U	0.0002 U	0.776 U	0.0002 U	0.776 U	0.0002 U	0.777 U	0.0002 U
1,3-Butadiene	NE	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U
Butane	NE	**1.6**	**0.000673**	**1.75**	**0.000736**	**0.539**	**0.000227**	**0.382 J**	**0.000161 J**	**0.385 J**	**0.000162 J**
2-Butanone (Methyl ethyl ketone)	17	**0.796**	**0.00027**	**1.38**	**0.000468**	**0.922**	**0.000313**	**1.74**	**0.00059**	**2.39**	**0.00081**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	**0.452 J**	**0.000149 J**
Carbon disulfide	NE	0.622 U	0.0002 U	**0.212 J**	**0.000068 J**	**0.156 J**	**0.00005 J**	0.622 U	0.0002 U	**1.19**	**0.000382**
Carbon tetrachloride	1	**0.371 J**	**0.000059 J**	**0.622 J**	**0.000099 J**	**0.364 J**	**0.000058 J**	**0.308 J**	**0.000049 J**	**0.44 J**	**0.00007 J**
Chlorobenzene	<0.25	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.920 U	0.0002 U	0.921 U	0.0002 U
Chloroethane	0.4	0.527 U	0.0002 U	0.527 U	0.0002 U	0.527 U	0.0002 U	0.527 U	0.0002 U	0.528 U	0.0002 U
Chloroform	0.5	0.976 U	0.0002 U	0.976 U	0.0002 U	**0.785 J**	**0.000161 J**	0.976 U	0.0002 U	0.977 U	0.0002 U
Chloromethane	4.6	**0.928 J**	**0.000449 J**	**0.743**	**0.00036**	**0.708**	**0.000343**	**0.953**	**0.000461**	**1.02**	**0.000494**
2-Chlorotoluene	NE	1.03 U	0.000199 U	1.03 U	0.000199 U	1.03 U	0.000199 U	1.03 U	0.000199 U	1.04 U	0.000201 U
Cryofluorane (Freon-114)	1.3	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U	1.40 U	0.0002 U	1.4 U	0.0002 U
Cyclohexane	3	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U
n-Decane	3.6	1.16 U	0.000199 U	**0.617 J**	**0.000106 J**	1.16 U	0.000199 U	**0.943 J**	**0.000162 J**	**0.349 J**	**0.00006 J**
Dibromochloromethane	NE	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U	1.70 U	0.0002 U	1.7 U	0.0002 U
1,2-Dibromoethane	<0.25	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U
1,2-Dichlorobenzene	0.9	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U
1,3-Dichlorobenzene	0.7	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U
1,4-Dichlorobenzene	0.8	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U
Dichlorodifluoromethane	11	**2.15**	**0.000435**	**2.45**	**0.000495**	**1.75**	**0.000354**	**2.11**	**0.000427**	**2.28**	**0.000461**
1,1-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U
1,2-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U
1,1-Dichloroethene	<0.25	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.793 U	0.0002 U
cis-1,2-Dichloroethene	<0.25	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.793 U	0.0002 U
trans-1,2-Dichloroethene	NE	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.793 U	0.0002 U
1,2-Dichloropropane	<0.25	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U
cis-1,3-Dichloropropene	<0.25	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.908 U	0.0002 U
trans-1,3-Dichloropropene	<0.25	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.908 U	0.0002 U
1,4-Dioxane	NE	0.72 U	0.0002 U	**0.504 J**	**0.00014 J**	0.72 U	0.0002 U	0.720 U	0.0002 U	0.721 U	0.0002 U
n-Dodecane	7.6	1.39 UJ	0.0002 UJ	**0.746 J**	**0.000107 J**	1.39 U	0.0002 U	**5.46**	**0.000784**	**0.564 J**	**0.000081 J**
Ethanol	220	**2.66**	**0.001412**	**5.87**	**0.003115**	**1.57 J**	**0.000833 J**	**6.00 J**	**0.003184 J**	**10.4**	**0.005519**
2-Ethylthiophene	NE	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U
p-Ethyltoluene	NE	0.982 U	0.0002 U	0.982 U	0.0002 U	0.982 U	0.0002 U	0.982 U	0.0002 U	0.983 U	0.0002 U
n-Heptane	5.1	0.819 U	0.0002 U	**0.52 J**	**0.000127 J**	0.819 U	0.0002 U	0.819 U	0.0002 U	**0.316 J**	**0.000077 J**
Hexachlorobutadiene	7	2.13 U	0.0002 U	2.13 U	0.0002 U	02.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U
n-Hexane	3.6	**0.394 J**	**0.000112 J**	**0.356 J**	**0.000101 J**	**0.278 J**	**0.000079 J**	0.704 U	0.0002 U	0.705 U	0.0002 U

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-PREGAC 1/31/2011		OZ-PREGAC 2/24/2011		OZ-PREGAC 3/27/2011		OZ-PREGAC 4/27/2011		OZ-PREGAC 5/27/2011	
Sample Date:											
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	0.819 U	0.0002 U	0.819 U	0.0002 U	0.819 U	0.0002 U	0.819 U	0.0002 U	**0.356 J**	**0.000087 J**
Indane	NE	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U
Indene	NE	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U	0.950 U	0.0002 U	0.95 U	0.0002 U
Methyl tert-butyl ether	5.9	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.720 U	0.0002 U	0.721 U	0.0002 U
4-Methyl-2-pentanone	2.9	0.819 U	0.0002 U	0.819 U	0.0002 U	0.819 U	0.0002 U	**0.778 J**	**0.00019 J**	**1.62**	**0.000395**
Methylene chloride	2.9	3.47 U	0.000999 U	**0.895 J**	**0.000258 J**	**0.868 JB**	**0.00025 JB**	**1.22 J**	**0.000351 J**	3.47 U	0.000999 U
1-Methylnaphthalene	NE	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 UJ	0.001001 UJ	5.82 U	0.001001 U
2-Methylnaphthalene	NE	14.5 U	0.002493 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 UJ	0.001001 UJ	5.82 U	0.001001 U
2-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U
3-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U
Naphthalene	10	1.05 UJ	0.0002 UJ	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U
Nonane	1.2	1.05 U	0.0002 U	**0.483 J**	**0.000092 J**	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U
n-Octane	2.1	0.934 U	0.0002 U	**0.359 J**	**0.000077 J**	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U
Pentane	NE	0.59 U	0.0002 U	**1.29**	**0.000437**	0.59 U	0.0002 U	**1.62 J**	**0.000549 J**	**3.84**	**0.001301**
2-Propanol (Isopropyl Alcohol)	NE	**0.793 J**	**0.000323 J**	**1.48**	**0.000602**	1.23 U	0.0005 U	**0.636 J**	**0.000259 J**	**1.39**	**0.000566**
Styrene	0.6	0.851 U	0.0002 U	0.851 U	0.0002 U	0.851 U	0.0002 U	0.851 U	0.0002 U	0.852 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U
Tetrachloroethene	1.6	1.36 U	0.0002 U	**1.02 J**	**0.00015 J**	**0.691 J**	**0.000102 J**	1.36 U	0.0002 U	**0.644 J**	**0.000095 J**
1,2,4,5-Tetramethylbenzene	NE	1.1 UJ	0.0002 UJ	1.1 U	0.0002 U	1.1 U	0.0002 U	1.10 U	0.0002 U	1.1 U	0.0002 U
Thiophene	NE	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	**0.49 J**	**0.000064 J**	**0.482 J**	**0.000063 J**	**0.406 J**	**0.000053 J**	**0.398 J**	**0.000052 J**	**0.498 J**	**0.000065 J**
1,2,4-Trichlorobenzene	4.8	1.48 UJ	0.000199 UJ	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U
1,1,1-Trichloroethane	0.7	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U
1,1,2-Trichloroethane	<0.25	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U
Trichloroethene	0.5	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U
Trichlorofluoromethane	6.1	**1.15**	**0.000205**	**1.48**	**0.000263**	**0.932 J**	**0.000166 J**	**0.926 J**	**0.000165 J**	**1.12 J**	**0.000199 J**
1,2,3-Trimethylbenzene	0.6	0.983 U	0.0002 U	**0.383 J**	**0.000078 J**	0.983 U	0.0002 U	**0.290 J**	**0.000059 J**	0.983 U	0.0002 U
1,2,4-Trimethylbenzene	2.5	0.982 U	0.0002 U	**1.1**	**0.000224**	0.982 U	0.0002 U	**0.648 J**	**0.000132 J**	**0.349 J**	**0.000071 J**
1,3,5-Trimethylbenzene	1	**0.437 J**	**0.000089 J**	**0.58 J**	**0.000118 J**	0.982 U	0.0002 U	**0.452 J**	**0.000092 J**	**0.305 J**	**0.000062 J**
2,2,4-Trimethylpentane	2	0.934 U	0.0002 U	**0.49 J**	**0.000105 J**	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U
n-Undecane	2.3	1.28 U	0.0002 U	**0.793 J**	**0.000124 J**	1.28 U	0.0002 U	**2.62**	**0.00041**	**0.428 J**	**0.000067 J**
Vinyl bromide	NE	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U
Vinyl chloride	<0.25	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U
Total VOCs (ppmv)	NE	NA	**0.006243**	NA	**0.01693**	NA	**0.006603**	NA	**0.014145**	NA	**0.021516**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-PREGAC 6/22/2011		OZ-PREGAC 07/26/2011		OZ-PREGAC 08/25/2011		OZ-PREGAC 09/15/2011		OZ-PREGAC 10/25/2011	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	1.28 U	0.000401 U	**0.377 J**	**0.000118 J**	**0.230 J**	**0.000072 J**	0.639 U	0.0002 U	**0.358 J**	**0.000112 J**
Toluene	21	**0.889 J**	**0.000236 J**	**1.59**	**0.000422**	**0.562 J**	**0.000149 J**	0.754 U	0.0002 U	**0.512 J**	**0.000136 J**
Ethylbenzene	1.9	1.74 U	0.000401 U	**0.638 J**	**0.000147 J**	**0.343 J**	**0.000079 J**	0.869 U	0.0002 U	1.74 U	0.000401 U
m,p-Xylene	3.1	3.47 U	0.000799 U	**2.16**	**0.000497**	**1.13 J**	**0.00026 J**	1.74 U	0.000401 U	3.47 U	0.000799 U
o-Xylene	2.5	1.74 U	0.000401 U	**1.12**	**0.000258**	**0.534 J**	**0.000123 J**	0.869 U	0.0002 U	1.74 U	0.000401 U
Total BTEX (ppmv)	NE	NA	**0.000236**	NA	**0.001442**	NA	**0.000683**	NA	ND	NA	**0.000248**
Other VOCs											
Acetaldehyde	NE	**16.5**	**0.009158**	**19.1**	**0.010601**	**31.0**	**0.017207**	**106**	**0.058835**	**5.75 J**	**0.003192 J**
Acetone	58	6.89 U	0.0029 U	**23.6**	**0.009935**	**8.98 J**	**0.00378 J**	**69.4**	**0.029215**	**8.48**	**0.00357**
Acrolein (propenal)	NE	2.29 U	0.000999 U	**0.546 J**	**0.000238 J**	**0.724 J**	**0.000316 J**	**3.94**	**0.001719**	2.29 U	0.000999 U
Allyl chloride (Chloropropene,3-)	NE	1.25 U	0.000399 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	1.25 U	0.000399 U
Benzothiophene	NE	5.49 U	0.001 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	5.49 U	0.001 U
Bromodichloromethane	NE	2.68 U	0.000401 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	2.68 U	0.000401 U
Bromoform	NE	4.14 U	0.0004 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	4.14 U	0.0004 U
Bromomethane	0.9	1.55 U	0.000399 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	1.55 U	0.000399 U
1,3-Butadiene	NE	0.885 U	0.0004 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.885 U	0.0004 U
Butane	NE	**0.323 J**	**0.000136 J**	**0.975**	**0.00041**	**0.257 J**	**0.000108 J**	**0.934**	**0.000393**	**0.423 J**	**0.000178 J**
2-Butanone (Methyl ethyl ketone)	17	**2.19**	**0.000743**	**5.25**	**0.00178**	**2.72**	**0.000922**	**37.4**	**0.012683**	**1.52**	**0.000515**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	1.21 U	0.000399 U	**0.573 J**	**0.000189 J**	0.606 U	0.0002 U	**0.758**	**0.00025**	1.21 U	0.000399 U
Carbon disulfide	NE	**3.06**	**0.000983**	**2.41**	**0.000774**	**1.69**	**0.000543**	**0.52 J**	**0.000167 J**	**0.249 J**	**0.00008 J**
Carbon tetrachloride	1	2.52 U	0.000401 U	**0.428 J**	**0.000068 J**	**0.421 J**	**0.000067 J**	1.26 U	0.0002 U	2.52 U	0.000401 U
Chlorobenzene	<0.25	1.84 U	0.0004 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	1.84 U	0.0004 U
Chloroethane	0.4	1.06 U	0.000402 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	1.06 U	0.000402 U
Chloroform	0.5	1.95 U	0.000399 U	**0.537 J**	**0.00011 J**	**0.342 J**	**0.00007 J**	**0.4 J**	**0.000082 J**	1.95 U	0.000399 U
Chloromethane	4.6	**0.913**	**0.000442**	0.413 U	0.0002 U	**0.876**	**0.000424**	**0.894**	**0.000433**	**0.752 J**	**0.000364 J**
2-Chlorotoluene	NE	2.07 U	0.0004 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	2.07 U	0.0004 U
Cryofluorane (Freon-114)	1.3	2.80 U	0.000401 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.4 U	0.0002 U	2.8 U	0.000401 U
Cyclohexane	3	1.38 U	0.000401 U	0.688 U	0.0002 U	0.688 U	0.0002 U	**0.485 J**	**0.000141 J**	1.38 U	0.000401 U
n-Decane	3.6	2.33 U	0.0004 U	**1.69**	**0.00029**	**0.733 J**	**0.000126 J**	**0.407 J**	**0.00007 J**	2.33 U	0.0004 U
Dibromochloromethane	NE	3.41 U	0.0004 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.7 U	0.0002 U	3.41 U	0.0004 U
1,2-Dibromoethane	<0.25	3.07 U	0.0004 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	3.07 U	0.0004 U
1,2-Dichlorobenzene	0.9	2.40 U	0.000399 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U
1,3-Dichlorobenzene	0.7	2.40 U	0.000399 U	**0.727 J**	**0.000121 J**	1.20 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U
1,4-Dichlorobenzene	0.8	2.40 U	0.000399 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U
Dichlorodifluoromethane	11	**2.24**	**0.000453**	**2.64**	**0.000534**	**2.35**	**0.000475**	**2.18**	**0.000441**	**2.48**	**0.000501**
1,1-Dichloroethane	<0.25	1.62 U	0.0004 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U
1,2-Dichloroethane	<0.25	1.62 U	0.0004 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U
1,1-Dichloroethene	<0.25	1.58 U	0.000398 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U
cis-1,2-Dichloroethene	<0.25	1.58 U	0.000399 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U
trans-1,2-Dichloroethene	NE	1.58 U	0.000399 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000398 U
1,2-Dichloropropane	<0.25	1.85 U	0.0004 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	1.85 U	0.0004 U
cis-1,3-Dichloropropene	<0.25	1.82 U	0.000401 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U
trans-1,3-Dichloropropene	<0.25	1.82 U	0.000401 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U
1,4-Dioxane	NE	1.44 UJ	0.0004 UJ	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 UJ	0.0002 UJ	1.44 U	0.0004 U
n-Dodecane	7.6	**4.51**	**0.000647**	**4.35**	**0.000624**	**2.72**	**0.00039**	**0.676 J**	**0.000097 J**	6.96 U	0.000999 U
Ethanol	220	**6.26**	**0.003322**	**11.9**	**0.006315**	**13.5**	**0.007165**	**5.43**	**0.002882**	**2.18 J**	**0.001157 J**
2-Ethylthiophene	NE	1.84 U	0.000401 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	1.84 U	0.000401 U
p-Ethyltoluene	NE	1.97 U	0.000401 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U
n-Heptane	5.1	1.64 U	0.0004 U	**0.258 J**	**0.000063 J**	0.820 U	0.0002 U	**6.48**	**0.001581**	1.64 U	0.0004 U
Hexachlorobutadiene	7	4.27 U	0.0004 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	4.27 U	0.0004 U
n-Hexane	3.6	1.41 U	0.0004 U	**0.719**	**0.000204**	0.705 U	0.0002 U	**3.09**	**0.000877**	1.41 U	0.0004 U

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-PREGAC 6/22/2011		OZ-PREGAC 07/26/2011		OZ-PREGAC 08/25/2011		OZ-PREGAC 09/15/2011		OZ-PREGAC 10/25/2011	
Sample Date:											
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	1.64 U	0.0004 U	**0.344 J**	**0.000084 J**	0.820 U	0.0002 U	**5.24**	**0.001279**	1.64 U	0.0004 U
Indane	NE	1.93 U	0.000399 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	1.93 U	0.000399 U
Indene	NE	1.90 U	0.0004 U	0.950 U	0.0002 U	0.950 U	0.0002 U	0.95 U	0.0002 U	1.9 U	0.0004 U
Methyl tert-butyl ether	5.9	1.44 U	0.000399 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	1.44 U	0.000399 U
4-Methyl-2-pentanone	2.9	1.64 U	0.0004 U	**1.12**	**0.000273**	**0.356 J**	**0.000087 J**	0.82 U	0.0002 U	1.64 U	0.0004 U
Methylene chloride	2.9	**2.10 J**	**0.000604 J**	**1.47 J**	**0.000423 J**	**2.40 J**	**0.000691 J**	**9.94**	**0.002861**	6.95 U	0.002001 U
1-Methylnaphthalene	NE	11.6 U	0.001995 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U
2-Methylnaphthalene	NE	11.6 U	0.001995 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U
2-Methylthiophene	NE	1.61 U	0.000401 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	1.61 U	0.000401 U
3-Methylthiophene	NE	1.61 U	0.000401 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	1.61 U	0.000401 U
Naphthalene	10	2.10 U	0.000401 U	**0.718 J**	**0.000137 J**	1.05 U	0.0002 U	1.05 U	0.0002 U	2.1 U	0.000401 U
Nonane	1.2	2.10 U	0.0004 U	**0.336 J**	**0.000064 J**	1.05 U	0.0002 U	1.05 U	0.0002 U	2.1 U	0.0004 U
n-Octane	2.1	1.87 U	0.0004 U	0.934 U	0.0002 U	0.934 U	0.0002 U	**1.68**	**0.00036**	1.87 U	0.0004 U
Pentane	NE	**0.879 J**	**0.000298 J**	**4.54**	**0.001539**	**1.71**	**0.000579**	**3.51**	**0.001189**	**1.27**	**0.00043**
2-Propanol (Isopropyl Alcohol)	NE	2.46 U	0.001001 U	**2.40**	**0.000977**	1.23 U	0.0005 U	**0.799 J**	**0.000325 J**	2.46 U	0.001001 U
Styrene	0.6	1.70 U	0.000399 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	1.7 U	0.000399 U
1,1,2,2-Tetrachloroethane	<0.25	2.75 U	0.000401 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	2.75 U	0.000401 U
Tetrachloroethene	1.6	2.71 U	0.0004 U	**1.33 J**	**0.000196 J**	**1.11 J**	**0.000164 J**	1.36 U	0.0002 U	2.71 U	0.0004 U
1,2,4,5-Tetramethylbenzene	NE	2.20 UJ	0.000401 UJ	**0.938 J**	**0.000171 J**	**0.478 J**	**0.000087 J**	1.1 UJ	0.0002 UJ	5.49 U	0.001 U
Thiophene	NE	1.38 U	0.000401 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	1.38 U	0.000401 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	**1.04 J**	**0.000136 J**	**0.636 J**	**0.000083 J**	**0.567 J**	**0.000074 J**	**0.659 J**	**0.000086 J**	3.06 U	0.000399 U
1,2,4-Trichlorobenzene	4.8	2.97 U	0.0004 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	2.97 U	0.0004 U
1,1,1-Trichloroethane	0.7	2.18 U	0.000399 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U
1,1,2-Trichloroethane	<0.25	2.18 U	0.000399 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U
Trichloroethene	0.5	**1.48 J**	**0.000275 J**	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	2.15 U	0.0004 U
Trichlorofluoromethane	6.1	**1.53 J**	**0.000272 J**	**1.68**	**0.000299**	**1.36**	**0.000242**	**1.39**	**0.000247**	**1.42 J**	**0.000253 J**
1,2,3-Trimethylbenzene	0.6	1.97 U	0.000401 U	**1.63**	**0.000332**	**0.782 J**	**0.000159 J**	0.983 U	0.0002 U	1.97 U	0.000401 U
1,2,4-Trimethylbenzene	2.5	**0.728 J**	**0.000148 J**	**1.28**	**0.00026**	**0.462 J**	**0.000094 J**	0.983 U	0.0002 U	1.97 U	0.000401 U
1,3,5-Trimethylbenzene	1	**0.826 J**	**0.000168 J**	**7.13**	**0.00145**	**2.99**	**0.000608**	0.983 U	0.0002 U	**1.39 J**	**0.000283 J**
2,2,4-Trimethylpentane	2	1.87 U	0.0004 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	1.87 U	0.0004 U
n-Undecane	2.3	**1.66 J**	**0.00026 J**	**2.59**	**0.000405**	**0.946 J**	**0.000148 J**	**0.479 J**	**0.000075 J**	2.56 U	0.0004 U
Vinyl bromide	NE	1.75 U	0.0004 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	1.75 U	0.0004 U
Vinyl chloride	<0.25	1.02 U	0.000399 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	1.02 U	0.000399 U
Total VOCs (ppmv)	NE	NA	**0.018281**	NA	**0.040391**	NA	**0.035209**	NA	**0.116288**	NA	**0.010771**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-PREGAC 11/29/2011		OZ-PREGAC 12/15/2011		OZ-PREGAC 1/25/2012		OZ-PREGAC 3/5/2012		OZ-PREGAC 3/26/2012	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	**0.412 J**	**0.000129 J**	**0.240 J**	**0.000075 J**	**0.457 J**	**0.000143 J**	**0.447 J**	**0.00014 J**	**0.281 J**	**0.000088 J**
Toluene	21	**1.27**	**0.000337**	**0.377 J**	**0.0001 J**	**0.818**	**0.000217**	**0.791 J**	**0.00021 J**	**0.460 J**	**0.000122 J**
Ethylbenzene	1.9	**0.291 J**	**0.000067 J**	0.869 U	0.0002 U	0.869 U	0.0002 U	1.74 U	0.000401 U	0.869 U	0.0002 U
m,p-Xylene	3.1	**0.960 J**	**0.000221 J**	1.74 U	0.000401 U	1.74 U	0.000401 U	3.47 U	0.000799 U	1.74 U	0.000401 U
o-Xylene	2.5	**0.421 J**	**0.000097 J**	0.869 U	0.0002 U	0.869 U	0.0002 U	1.74 U	0.000401 U	0.869 U	0.0002 U
Total BTEX (ppmv)	NE	NA	**0.000851**	NA	**0.000175**	NA	**0.00036**	NA	**0.00035**	NA	**0.00021**
Other VOCs											
Acetaldehyde	NE	**6.22**	**0.003452**	**5.17**	**0.00287**	**5.89**	**0.003269**	**4.65 J**	**0.002581 J**	**10.8**	**0.005995**
Acetone	58	4.20 U	0.001768 U	**4.39**	**0.001848**	**5.46 J**	**0.002299 J**	**5.80**	**0.002442**	**13.8**	**0.005809**
Acrolein (propenal)	NE	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 UJ	0.000502 UJ	2.29 U	0.000999 U	**0.475 J**	**0.000207 J**
Allyl chloride (Chloropropene,3-)	NE	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	1.25 U	0.000399 U	0.626 U	0.0002 U
Benzothiophene	NE	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 UJ	0.000499 UJ	5.49 U	0.001 U	2.74 U	0.000499 U
Bromodichloromethane	NE	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	2.68 U	0.000401 U	1.34 U	0.0002 U
Bromoform	NE	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	4.14 U	0.0004 U	2.07 U	0.0002 U
Bromomethane	0.9	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	1.55 U	0.000399 U	0.777 U	0.0002 U
1,3-Butadiene	NE	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.885 U	0.0004 U	0.442 U	0.0002 U
Butane	NE	**1.31**	**0.000551**	**0.832**	**0.00035**	**1.36**	**0.000572**	**1.14**	**0.00048**	**0.880**	**0.00037**
2-Butanone (Methyl ethyl ketone)	17	**0.947**	**0.000321**	**0.985**	**0.000334**	**1.23**	**0.000417**	**1.32**	**0.000448**	**1.35**	**0.000458**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	1.21 U	0.000399 U	0.606 U	0.0002 U
Carbon disulfide	NE	0.623 U	0.0002 U	**0.159 J**	**0.000051 J**	**0.206 J**	**0.000066 J**	**0.386 JB**	**0.000124 JB**	**0.190 J**	**0.000061 J**
Carbon tetrachloride	1	**0.478 J**	**0.000076 J**	**0.333 J**	**0.000053 J**	**0.402 J**	**0.000064 J**	2.52 U	0.000401 U	**0.358 J**	**0.000057 J**
Chlorobenzene	<0.25	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	1.84 U	0.0004 U	0.921 U	0.0002 U
Chloroethane	0.4	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	1.06 U	0.000402 U	0.528 U	0.0002 U
Chloroform	0.5	**2.04**	**0.000418**	0.977 U	0.0002 U	0.977 U	0.0002 U	1.95 U	0.000399 U	0.977 U	0.0002 U
Chloromethane	4.6	**0.830**	**0.000402**	**0.743**	**0.00036**	**0.723**	**0.00035**	**0.921**	**0.000446**	**0.838**	**0.000406**
2-Chlorotoluene	NE	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	2.07 U	0.0004 U	1.04 U	0.000201 U
Cryofluorane (Freon-114)	1.3	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	2.80 U	0.000401 U	1.40 U	0.0002 U
Cyclohexane	3	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	1.38 U	0.000401 U	0.688 U	0.0002 U
n-Decane	3.6	**0.454 J**	**0.000078 J**	**0.524 J**	**0.00009 J**	1.16 U	0.000199 U	2.33 U	0.0004 U	1.16 U	0.000199 U
Dibromochloromethane	NE	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	3.41 U	0.0004 U	1.70 U	0.0002 U
1,2-Dibromoethane	<0.25	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	3.07 U	0.0004 U	1.54 U	0.0002 U
1,2-Dichlorobenzene	0.9	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	2.40 U	0.000399 U	1.20 U	0.0002 U
1,3-Dichlorobenzene	0.7	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	2.40 U	0.000399 U	1.20 U	0.0002 U
1,4-Dichlorobenzene	0.8	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	2.40 U	0.000399 U	1.20 U	0.0002 U
Dichlorodifluoromethane	11	**2.27**	**0.000459**	**2.31**	**0.000467**	**2.46**	**0.000497**	**2.95**	**0.000597**	**2.14**	**0.000433**
1,1-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U	0.809 U	0.0002 U
1,2-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U	0.809 U	0.0002 U
1,1-Dichloroethene	<0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000398 U	0.793 U	0.0002 U
cis-1,2-Dichloroethene	<0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U	0.793 U	0.0002 U
trans-1,2-Dichloroethene	NE	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U	0.793 U	0.0002 U
1,2-Dichloropropane	<0.25	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	1.85 U	0.0004 U	0.924 U	0.0002 U
cis-1,3-Dichloropropene	<0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U	0.908 U	0.0002 U
trans-1,3-Dichloropropene	<0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U	0.908 U	0.0002 U
1,4-Dioxane	NE	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	1.44 U	0.0004 U	0.721 U	0.0002 U
n-Dodecane	7.6	**1.49**	**0.000214**	3.48 U	0.0005 U	1.39 U	0.0002 U	**2.45 J**	**0.000352 J**	3.48 U	0.0005 U
Ethanol	220	**7.91**	**0.004198**	**1.67 J**	**0.000886 J**	**2.00**	**0.001061**	**3.50 J**	**0.001857 J**	**2.24**	**0.001189**
2-Ethylthiophene	NE	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	1.84 U	0.000401 U	0.918 U	0.0002 U
p-Ethyltoluene	NE	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U	0.983 U	0.0002 U
n-Heptane	5.1	**0.283 J**	**0.000069 J**	0.820 U	0.0002 U	0.820 U	0.0002 U	1.64 U	0.0004 U	0.820 U	0.0002 U
Hexachlorobutadiene	7	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	4.27 U	0.0004 U	2.13 U	0.0002 U
n-Hexane	3.6	**0.469 J**	**0.000133 J**	0.705 U	0.0002 U	0.705 U	0.0002 U	1.41 U	0.0004 U	0.705 U	0.0002 U

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-PREGAC 11/29/2011		OZ-PREGAC 12/15/2011		OZ-PREGAC 1/25/2012		OZ-PREGAC 3/5/2012		OZ-PREGAC 3/26/2012	
Sample Date:											
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	1.64 U	0.0004 U	0.820 U	0.0002 U
Indane	NE	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	1.93 U	0.000399 U	0.967 U	0.0002 U
Indene	NE	**0.413 J**	**0.000087 J**	0.950 U	0.0002 U	0.950 U	0.0002 U	1.90 U	0.0004 U	0.950 U	0.0002 U
Methyl tert-butyl ether	5.9	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	1.44 U	0.000399 U	0.721 U	0.0002 U
4-Methyl-2-pentanone	2.9	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	1.64 U	0.0004 U	0.820 U	0.0002 U
Methylene chloride	2.9	**0.931 J**	**0.000268 J**	3.47 U	0.000999 U	**1.04 J**	**0.000299 J**	**3.06 J**	**0.000881 J**	**0.952 J**	**0.000274 J**
1-Methylnaphthalene	NE	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U	5.82 U	0.001001 U
2-Methylnaphthalene	NE	**2.59 J**	**0.000445 J**	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U	5.82 U	0.001001 U
2-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	1.61 U	0.000401 U	0.803 U	0.0002 U
3-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	1.61 U	0.000401 U	0.803 U	0.0002 U
Naphthalene	10	**3.76 J**	**0.000717 J**	1.05 U	0.0002 U	1.05 U	0.0002 U	2.10 U	0.000401 U	1.05 U	0.0002 U
Nonane	1.2	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	2.10 U	0.0004 U	1.05 U	0.0002 U
n-Octane	2.1	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	1.87 U	0.0004 U	0.934 U	0.0002 U
Pentane	NE	**1.21**	**0.00041**	**0.466 J**	**0.000158 J**	**0.971**	**0.000329**	**0.732 J**	**0.000248 J**	**1.21**	**0.00041**
2-Propanol (Isopropyl Alcohol)	NE	**1.22 J**	**0.000496 J**	1.23 U	0.0005 U	**2.33 J**	**0.000948 J**	2.46 U	0.001001 U	**0.428 J**	**0.000174 J**
Styrene	0.6	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	1.70 U	0.000399 U	0.852 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	2.75 U	0.000401 U	1.37 U	0.0002 U
Tetrachloroethene	1.6	**0.698 J**	**0.000103 J**	1.36 U	0.0002 U	**0.556 J**	**0.000082 J**	2.71 U	0.0004 U	1.36 U	0.0002 U
1,2,4,5-Tetramethylbenzene	NE	**1.46**	**0.000266**	**0.510 J**	**0.000093 J**	1.10 UJ	0.0002 UJ	2.20 U	0.000401 U	2.74 U	0.000499 U
Thiophene	NE	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	1.38 U	0.000401 U	0.688 U	0.0002 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	3.6	**0.468 J**	**0.000061 J**	**0.521 J**	**0.000068 J**	**1.05 J**	**0.000137 J**	3.06 U	0.000399 U	1.53 U	0.0002 U
1,2,4-Trichlorobenzene	4.8	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	2.97 U	0.0004 U	1.48 U	0.000199 U
1,1,1-Trichloroethane	0.7	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U	1.09 U	0.0002 U
1,1,2-Trichloroethane	<0.25	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U	1.09 U	0.0002 U
Trichloroethene	0.5	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	2.15 U	0.0004 U	1.07 U	0.000199 U
Trichlorofluoromethane	6.1	**1.20**	**0.000214**	**1.23**	**0.000219**	**1.38**	**0.000246**	**1.57 J**	**0.000279 J**	**1.07 J**	**0.00019 J**
1,2,3-Trimethylbenzene	0.6	**0.664 J**	**0.000135 J**	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U	0.983 U	0.0002 U
1,2,4-Trimethylbenzene	2.5	**0.639 J**	**0.00013 J**	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U	0.983 U	0.0002 U
1,3,5-Trimethylbenzene	1	**1.17**	**0.000238**	**0.639 J**	**0.00013 J**	**0.944 J**	**0.000192 J**	**1.25 J**	**0.000254 J**	0.983 U	0.0002 U
2,2,4-Trimethylpentane	2	**0.537 J**	**0.000115 J**	0.934 U	0.0002 U	0.934 U	0.0002 U	1.87 U	0.0004 U	0.934 U	0.0002 U
n-Undecane	2.3	**1.26 J**	**0.000197 J**	1.28 U	0.0002 U	1.28 U	0.0002 U	2.56 U	0.0004 U	1.28 U	0.0002 U
Vinyl bromide	NE	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	1.75 U	0.0004 U	0.874 U	0.0002 U
Vinyl chloride	<0.25	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	1.02 U	0.000399 U	0.511 U	0.0002 U
Total VOCs (ppmv)	NE	NA	**0.015104**	NA	**0.008152**	NA	**0.011188**	NA	**0.011339**	NA	**0.016243**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-MGAC 4/1/2010		OZ-MGAC 4/15/2010		OZ-MGAC 5/17/2010		OZ-MGAC 6/22/2010		OZ-MGAC 7/27/2010	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	1.3 U	0.000407 U	**1.6**	**0.000501**	0.64 U	0.0002 U	**0.48 J**	**0.00015 J**	0.64 U	0.0002 U
Toluene	21	1.5 U	0.000398 U	**19**	**0.005042**	**0.38 J**	**0.000101 J**	**0.97 J**	**0.000257 J**	**0.41 J**	**0.000109 J**
Ethylbenzene	1.9	1.7 U	0.000392 U	**3.4**	**0.000783**	0.87 U	0.0002 U	1.7 U	0.000392 U	0.87 U	0.0002 U
m,p-Xylene	3.1	3.5 U	0.000806 U	**12**	**0.002763**	**0.52 J**	**0.00012 J**	**1.2 J**	**0.000276 J**	**0.47 J**	**0.000108 J**
o-Xylene	2.5	1.7 U	0.000392 U	**4.3**	**0.00099**	**0.35 J**	**0.000081 J**	**0.57 J**	**0.000131 J**	0.87 U	0.0002 U
Total BTEX (ppmv)	NE	NA	ND	NA	**0.010079**	NA	**0.000302**	NA	**0.000814**	NA	**0.000217**
Other VOCs											
Acetaldehyde	NE	**27**	**0.014985**	**63**	**0.034966**	**71**	**0.039406**	**120**	**0.066602**	**24 J**	**0.01332 J**
Acetone	58	**12 J**	**0.005052 J**	**40 J**	**0.016839 J**	**56**	**0.023574**	**110**	**0.046307**	**47**	**0.019786**
Acrolein (propenal)	NE	**0.78 J**	**0.00034 J**	**2.3**	**0.001002**	**2.3**	**0.001002**	**6.8**	**0.002964**	**0.78 J**	**0.00034 J**
Allyl chloride (Chloropropene,3-)	NE	1.2 U	0.000383 U	0.63 U	0.000201 U	0.63 U	0.000201 U	1.2 U	0.000383 U	0.63 U	0.000201 U
Benzothiophene	NE	2.2 U	0.000401 U	1.1 U	0.0002 U	2.7 U	0.000492 U	2.2 U	0.000401 U	2.7 U	0.000492 U
Bromodichloromethane	NE	2.7 U	0.000403 U	1.3 U	0.000194 U	1.3 U	0.000194 U	2.7 U	0.000403 U	1.3 U	0.000194 U
Bromoform	NE	4.1 U	0.000397 U	2.1 U	0.000203 U	2.1 U	0.000203 U	4.1 U	0.000397 U	2.1 U	0.000203 U
Bromomethane	0.9	1.6 U	0.000412 U	0.78 U	0.000201 U	0.78 U	0.000201 U	1.6 U	0.000412 U	0.78 U	0.000201 U
1,3-Butadiene	NE	0.88 U	0.000398 U	0.44 U	0.000199 U	0.44 U	0.000199 U	0.88 U	0.000398 U	0.44 U	0.000199 U
Butane	NE	**2.0**	**0.00084**	**2.8**	**0.001176**	**0.78**	**0.000328**	**1.7**	**0.000714**	**1.1**	**0.000462**
2-Butanone (Methyl ethyl ketone)	17	**3.9**	**0.001322**	**13**	**0.004408**	**22**	**0.00746**	**28**	**0.009494**	**2.6**	**0.000882**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	1.2 U	0.000396 U	**14**	**0.004619**	**8.4**	**0.002771**	**13**	**0.004289**	**2.0**	**0.00066**
Carbon disulfide	NE	1.2 U	0.000385 U	**0.47 J**	**0.000151 J**	**0.47 J**	**0.000151 J**	**2.0**	**0.000642**	**1.5**	**0.000482**
Carbon tetrachloride	1	2.5 U	0.000397 U	1.3 U	0.000207 U	**0.38 J**	**0.00006 J**	2.5 U	0.000397 U	**0.36 J**	**0.000057 J**
Chlorobenzene	<0.25	1.8 U	0.000391 U	**1.5**	**0.000326**	0.92 U	0.0002 U	1.8 U	0.000391 U	0.92 U	0.0002 U
Chloroethane	0.4	1.0 U	0.000379 U	0.53 U	0.000201 U	0.53 U	0.000201 U	1.0 U	0.000379 U	0.53 U	0.000201 U
Chloroform	0.5	2.0 U	0.00041 U	0.98 U	0.000201 U	0.98 U	0.000201 U	2.0 U	0.00041 U	**0.79 J**	**0.000162 J**
Chloromethane	4.6	**0.99**	**0.000479**	**0.91**	**0.000441**	**0.85**	**0.000412**	**1.3**	**0.00063**	**0.58**	**0.000281**
2-Chlorotoluene	NE	2.1 U	0.000406 U	1.0 U	0.000193 U	1.0 U	0.000193 U	2.1 U	0.000406 U	1.0 U	0.000193 U
Cryofluorane (Freon-114)	1.3	2.8 U	0.000401 U	1.4 U	0.0002 U	1.4 U	0.0002 U	2.8 U	0.000401 U	1.4 U	0.0002 U
Cyclohexane	3	1.4 U	0.000407 U	**1.0 J**	**0.000291 J**	**0.96**	**0.000279**	**4.0**	**0.001162**	**4.9**	**0.001424**
n-Decane	3.6	2.3 U	0.000395 U	**1.4**	**0.000241**	**0.52 J**	**0.000089 J**	**10**	**0.001718**	1.2 U	0.000206 U
Dibromochloromethane	NE	3.4 U	0.000399 U	1.7 U	0.0002 U	1.7 U	0.0002 U	3.4 U	0.000399 U	1.7 U	0.0002 U
1,2-Dibromoethane	<0.25	3.1 U	0.000403 U	1.5 U	0.000195 U	1.5 U	0.000195 U	3.1 U	0.000403 U	1.5 U	0.000195 U
1,2-Dichlorobenzene	0.9	2.4 U	0.000399 U	1.2 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U	1.2 U	0.0002 U
1,3-Dichlorobenzene	0.7	2.4 U	0.000399 U	1.2 U	0.0002 U	1.2 U	0.0002 U	**2.6**	**0.000432**	1.2 U	0.0002 U
1,4-Dichlorobenzene	0.8	2.4 U	0.000399 U	1.2 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U	1.2 U	0.0002 U
Dichlorodifluoromethane	11	**2.5**	**0.000506**	**2.5**	**0.000506**	**2.5**	**0.000506**	**2.9**	**0.000586**	**2.3**	**0.000465**
1,1-Dichloroethane	<0.25	1.6 U	0.000395 U	0.81 U	0.0002 U	0.81 U	0.0002 U	1.6 U	0.000395 U	0.81 U	0.0002 U
1,2-Dichloroethane	<0.25	1.6 U	0.000395 U	0.81 U	0.0002 U	0.81 U	0.0002 U	1.6 U	0.000395 U	0.81 U	0.0002 U
1,1-Dichloroethene	<0.25	1.6 U	0.000404 U	0.79 U	0.000199 U	0.79 U	0.000199 U	1.6 U	0.000404 U	0.79 U	0.000199 U
cis-1,2-Dichloroethene	<0.25	1.6 U	0.000404 U	0.79 U	0.000199 U	0.79 U	0.000199 U	1.6 U	0.000404 U	0.79 U	0.000199 U
trans-1,2-Dichloroethene	NE	1.6 U	0.000404 U	0.79 U	0.000199 U	0.79 U	0.000199 U	1.6 U	0.000404 U	0.79 U	0.000199 U
1,2-Dichloropropane	<0.25	1.8 U	0.00039 U	0.92 U	0.000199 U	0.92 U	0.000199 U	1.8 U	0.00039 U	0.92 U	0.000199 U
cis-1,3-Dichloropropene	<0.25	1.8 U	0.000397 U	0.91 U	0.0002 U	0.91 U	0.0002 U	1.8 U	0.000397 U	0.91 U	0.0002 U
trans-1,3-Dichloropropene	<0.25	1.8 U	0.000397 U	0.91 U	0.0002 U	0.91 U	0.0002 U	1.8 U	0.000397 U	0.91 U	0.0002 U
1,4-Dioxane	NE	1.4 U	0.000389 U	0.72 U	0.0002 U	0.72 U	0.0002 U	1.4 U	0.000389 U	0.72 U	0.0002 U
n-Dodecane	7.6	2.8 U	0.000402 U	**3.4 J**	**0.000488 J**	**1.5 J**	**0.000215 J**	**13**	**0.001866**	**0.37 J**	**0.000053 J**
Ethanol	220	**4.0**	**0.002123**	**22**	**0.011676**	**6.8**	**0.003609**	**20**	**0.010615**	**4.8**	**0.002547**
2-Ethylthiophene	NE	1.8 U	0.000392 U	0.92 U	0.000201 U	0.92 U	0.000201 U	1.8 U	0.000392 U	0.92 U	0.000201 U
p-Ethyltoluene	NE	2.0 U	0.000407 U	**0.79 J**	**0.000161 J**	0.98 U	0.000199 U	2.0 U	0.000407 U	0.98 U	0.000199 U
n-Heptane	5.1	**1.3 J**	**0.000317 J**	**5.5**	**0.001342**	**8.0**	**0.001952**	**12**	**0.002928**	**1.5**	**0.000366**
Hexachlorobutadiene	7	4.3 U	0.000403 U	2.1 U	0.000197 U	2.1 U	0.000197 U	4.3 U	0.000403 U	2.1 U	0.000197 U
n-Hexane	3.6	**0.63 J**	**0.000179 J**	**3.9 J**	**0.001107 J**	**5.9**	**0.001674**	**20**	**0.005674**	**24**	**0.006809**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-MGAC		OZ-MGAC		OZ-MGAC		OZ-MGAC		OZ-MGAC	
Sample Date:		4/1/2010		4/15/2010		5/17/2010		6/22/2010		7/27/2010	
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	1.6 U	0.000391 U	**2.0**	**0.000488**	**3.4**	**0.00083**	**5.8**	**0.001416**	0.82 U	0.0002 U
Indane	NE	1.9 U	0.000393 U	**0.34 J**	**0.00007 J**	0.97 U	0.000201 U	1.9 U	0.000393 U	0.97 U	0.000201 U
Indene	NE	1.9 U	0.0004 U	**1.0**	**0.00021**	0.95 UJ	0.0002 UJ	**2.1**	**0.000442**	0.95 U	0.0002 U
Methyl tert-butyl ether	5.9	1.4 U	0.000388 U	0.72 U	0.0002 U	0.72 U	0.0002 U	1.4 U	0.000388 U	0.72 U	0.0002 U
4-Methyl-2-pentanone	2.9	1.6 U	0.000391 U	**0.78 J**	**0.00019 J**	**0.82**	**0.0002**	**2.0**	**0.000488**	0.82 U	0.0002 U
Methylene chloride	2.9	**1.3 J**	**0.000374 J**	**0.94 J**	**0.000271 J**	1.7 U	0.000489 U	**2.3 J**	**0.000662 J**	3.5 U	0.001008 U
1-Methylnaphthalene	NE	5.8 U	0.000997 U	2.9 U	0.000499 U	2.9 UJ	0.000499 UJ	5.8 U	0.000997 U	5.8 U	0.000997 U
2-Methylnaphthalene	NE	5.8 U	0.000997 U	2.9 UJ	0.000499 UJ	2.9 U	0.000499 U	5.8 U	0.000997 U	5.8 U	0.000997 U
2-Methylthiophene	NE	1.6 U	0.000398 U	0.80 U	0.000199 U	0.80 U	0.000199 U	1.6 U	0.000398 U	0.80 U	0.000199 U
3-Methylthiophene	NE	1.6 U	0.000399 U	0.80 U	0.000199 U	0.80 U	0.000199 U	1.6 U	0.000399 U	0.80 U	0.000199 U
Naphthalene	10	2.1 U	0.000401 U	**1.0 J**	**0.000191 J**	**0.68 J**	**0.00013 J**	**2.3 J**	**0.000439 J**	1.0 U	0.000191 U
Nonane	1.2	2.1 U	0.0004 U	**1.2**	**0.000229**	**0.63 J**	**0.00012 J**	**0.70 J**	**0.000133 J**	1.0 U	0.000191 U
n-Octane	2.1	1.9 U	0.000407 U	**2.9**	**0.000621**	**1.2**	**0.000257**	**3.0**	**0.000642**	0.93 U	0.000199 U
Pentane	NE	**5.0**	**0.001694**	**10**	**0.003389**	**12**	**0.004067**	**22**	**0.007455**	**14**	**0.004744**
2-Propanol (Isopropyl Alcohol)	NE	**3.9**	**0.001587**	1.2 U	0.000488 U	1.2 U	0.000488 U	2.5 U	0.001017 U	**0.58 J**	**0.000236 J**
Styrene	0.6	1.7 U	0.000399 U	**0.43 J**	**0.000101 J**	0.85 U	0.0002 U	1.7 U	0.000399 U	0.85 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	2.7 U	0.000393 U	1.4 U	0.000204 U	1.4 U	0.000204 U	2.7 U	0.000393 U	1.4 U	0.000204 U
Tetrachloroethene	1.6	2.7 U	0.000398 U	**0.34 J**	**0.00005 J**	**0.41 J**	**0.00006 J**	**1.2 J**	**0.000177 J**	**0.78 J**	**0.000115 J**
1,2,4,5-Tetramethylbenzene	NE	2.2 U	0.000401 U	1.1 U	0.0002 U	**0.38 J**	**0.000069 J**	2.2 U	0.000401 U	1.1 U	0.0002 U
Thiophene	NE	1.4 U	0.000407 U	0.69 U	0.000201 U	0.69 U	0.000201 U	1.4 U	0.000407 U	0.69 U	0.000201 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	**0.92 J**	**0.00012 J**	**1.1 J**	**0.000144 J**	**0.84 J**	**0.00011 J**	**1.2 J**	**0.000157 J**	**0.79 J**	**0.000103 J**
1,2,4-Trichlorobenzene	4.8	3.0 U	0.000404 U	1.5 U	0.000202 U	1.5 U	0.000202 U	3.0 U	0.000404 U	1.5 U	0.000202 U
1,1,1-Trichloroethane	0.7	2.2 U	0.000403 U	1.1 U	0.000202 U	**0.33 J**	**0.00006 J**	**0.74 J**	**0.000136 J**	**0.51 J**	**0.000093 J**
1,1,2-Trichloroethane	<0.25	2.2 U	0.000403 U	1.1 U	0.000202 U	1.1 U	0.000202 U	2.2 U	0.000403 U	1.1 U	0.000202 U
Trichloroethene	0.5	2.2 U	0.000409 U	1.1 U	0.000205 U	1.1 U	0.000205 U	2.2 U	0.000409 U	**0.40 J**	**0.000074 J**
Trichlorofluoromethane	6.1	**1.9 J**	**0.000338 J**	**1.6**	**0.000285**	**1.4**	**0.000249**	**2.0 J**	**0.000356 J**	**1.5**	**0.000267**
1,2,3-Trimethylbenzene	0.6	2.0 U	0.000407 U	**0.83 J**	**0.000169 J**	**0.44 J**	**0.00009 J**	**0.66 J**	**0.000134 J**	0.98 U	0.000199 U
1,2,4-Trimethylbenzene	2.5	2.0 U	0.000407 U	**2.4**	**0.000488**	**0.79 J**	**0.000161 J**	**1.2 J**	**0.000244 J**	0.98 U	0.000199 U
1,3,5-Trimethylbenzene	1	2.0 U	0.000407 U	**0.84 J**	**0.000171 J**	**0.25 J**	**0.000051 J**	2.0 U	0.000407 U	0.98 U	0.000199 U
2,2,4-Trimethylpentane	2	1.9 U	0.000407 U	**1.6 J**	**0.000342 J**	0.93 U	0.000199 U	1.9 U	0.000407 U	**1.1**	**0.000235**
n-Undecane	2.3	**1.5 J**	**0.000235 J**	**3.0 J**	**0.000469 J**	**1.5**	**0.000235**	**3.8 J**	**0.000594 J**	**0.40 J**	**0.000063 J**
Vinyl bromide	NE	1.8 U	0.000412 U	0.87 U	0.000199 U	0.87 U	0.000199 U	1.8 U	0.000412 U	0.87 U	0.000199 U
Vinyl chloride	<0.25	1.0 U	0.000391 U	0.51 U	0.0002 U	0.51 U	0.0002 U	1.0 U	0.000391 U	0.51 U	0.0002 U
Total VOCs (ppmv)	NE	NA	**0.030491**	NA	**0.097697**	NA	**0.090479**	NA	**0.170912**	NA	**0.054243**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-MGAC 8/30/2010		OZ-MGAC 9/16/2010		OZ-MGAC 10/22/2010		OZ-MGAC 11/22/2010		OZ-MGAC 12/28/2010	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	**0.21 J**	**0.000066 J**	0.64 U	0.0002 U	0.64 U	0.0002 U	0.64 U	0.0002 U	0.64 U	0.0002 U
Toluene	21	**0.55 J**	**0.000146 J**	**0.30 J**	**0.00008 J**	0.75 U	0.000199 U	0.75 UJ	0.000199 UJ	**0.26 J**	**0.000069 J**
Ethylbenzene	1.9	0.87 U	0.0002 U	0.87 U	0.0002 U	0.87 U	0.0002 U	0.87 U	0.0002 U	0.87 U	0.0002 U
m,p-Xylene	3.1	**0.51 J**	**0.000117 J**	1.7 U	0.000391 U	1.7 U	0.000391 U	1.7 U	0.000391 U	1.7 U	0.000391 U
o-Xylene	2.5	**0.23 J**	**0.000053 J**	0.87 U	0.0002 U	0.87 U	0.0002 U	0.87 U	0.0002 U	0.87 U	0.0002 U
Total BTEX (ppmv)	NE	NA	**0.000382**	NA	**0.00008**	NA	ND	NA	ND	NA	**0.000069**
Other VOCs											
Acetaldehyde	NE	**280**	**0.155404**	**69**	**0.038296**	**38**	**0.021092**	**33 J**	**0.018317 J**	**20**	**0.011101**
Acetone	58	**170**	**0.071565**	**47**	**0.019786**	**28**	**0.011787**	**35**	**0.014734**	**22 G**	**0.009261 G**
Acrolein (propenal)	NE	**15**	**0.006537**	**3.5**	**0.001525**	**1.6**	**0.000698**	**2.3**	**0.001003**	**1.0 J**	**0.000436 J**
Allyl chloride (Chloropropene,3-)	NE	0.63 U	0.000201 U	0.63 U	0.000201 U	0.63 U	0.000201 U	0.63 U	0.000201 U	0.63 U	0.000201 U
Benzothiophene	NE	2.7 U	0.000492 U	2.7 UJ	0.000492 UJ	1.1 U	0.0002 U	1.1 U	0.0002 U	1.1 U	0.0002 U
Bromodichloromethane	NE	1.3 U	0.000194 U	1.3 U	0.000194 U	1.3 U	0.000194 U	1.3 U	0.000194 U	1.3 U	0.000194 U
Bromoform	NE	2.1 U	0.000203 U	2.1 U	0.000203 U	2.1 UJ	0.000203 UJ	2.1 U	0.000203 U	2.1 U	0.000203 U
Bromomethane	0.9	0.78 U	0.000201 U	0.78 U	0.000201 U	0.78 U	0.000201 U	0.78 U	0.000201 U	0.78 U	0.000201 U
1,3-Butadiene	NE	0.44 U	0.000199 U	0.44 U	0.000199 U	0.44 U	0.000199 U	0.44 U	0.000199 U	0.44 U	0.000199 U
Butane	NE	**4.0**	**0.00168**	**1.4**	**0.000588**	**1.2**	**0.000505**	**1.4**	**0.000589**	**1.4**	**0.000589**
2-Butanone (Methyl ethyl ketone)	17	**80**	**0.027127**	**24**	**0.008138**	**14**	**0.004748**	**23**	**0.0078**	**15**	**0.005087**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	**12**	**0.003959**	**1.9**	**0.000627**	**0.33 J**	**0.000109 J**	**1.1**	**0.000363**	**0.36 J**	**0.000119 J**
Carbon disulfide	NE	**2.4**	**0.000771**	**0.47 J**	**0.000151 J**	**0.25 J**	**0.00008 J**	**0.31 J**	**0.0001 J**	**1.2**	**0.000385**
Carbon tetrachloride	1	**0.35 J**	**0.000056 J**	1.3 U	0.000207 U	1.3 U	0.000207 U	1.3 U	0.000207 U	1.3 U	0.000207 U
Chlorobenzene	<0.25	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U
Chloroethane	0.4	**0.65**	**0.000246**	0.53 U	0.000201 U	0.53 U	0.000201 U	0.53 U	0.000201 U	0.53 U	0.000201 U
Chloroform	0.5	**0.81 J**	**0.000166 J**	**0.44 J**	**0.00009 J**	0.98 U	0.000201 U	**0.34 J**	**0.00007 J**	0.98 U	0.000201 U
Chloromethane	4.6	**1.2**	**0.000581**	**0.93**	**0.00045**	**0.91**	**0.000441**	**0.93**	**0.00045**	**1.1**	**0.000533**
2-Chlorotoluene	NE	1.0 U	0.000193 U	1.0 U	0.000193 U	1 U	0.000193 U	1 U	0.000193 U	1.0 U	0.000193 U
Cryofluorane (Freon-114)	1.3	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U
Cyclohexane	3	**5.7**	**0.001656**	**2.1**	**0.00061**	**0.72**	**0.000209**	**0.76**	**0.000221**	**0.21 J**	**0.000061 J**
n-Decane	3.6	**0.68 J**	**0.000117 J**	1.2 U	0.000206 U	1.2 U	0.000206 U	1.2 U	0.000206 U	1.2 U	0.000206 U
Dibromochloromethane	NE	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U
1,2-Dibromoethane	<0.25	1.5 U	0.000195 U	1.5 U	0.000195 U	1.5 U	0.000195 U	1.5 U	0.000195 U	1.5 U	0.000195 U
1,2-Dichlorobenzene	0.9	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U
1,3-Dichlorobenzene	0.7	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U
1,4-Dichlorobenzene	0.8	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U
Dichlorodifluoromethane	11	**2.8**	**0.000566**	**2.5**	**0.000506**	**1.9**	**0.000384**	**2.7**	**0.000546**	**2.7**	**0.000546**
1,1-Dichloroethane	<0.25	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U
1,2-Dichloroethane	<0.25	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U
1,1-Dichloroethene	<0.25	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U
cis-1,2-Dichloroethene	<0.25	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U
trans-1,2-Dichloroethene	NE	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U
1,2-Dichloropropane	<0.25	0.92 U	0.000199 U	0.92 U	0.000199 U	0.92 U	0.000199 U	0.92 U	0.000199 U	0.92 U	0.000199 U
cis-1,3-Dichloropropene	<0.25	0.91 U	0.0002 U	0.91 U	0.0002 U	0.91 U	0.000201 U	0.91 U	0.000201 U	0.91 U	0.000201 U
trans-1,3-Dichloropropene	<0.25	**0.31 J**	**0.000068 J**	0.91 U	0.0002 U	0.91 U	0.000201 U	0.91 U	0.000201 U	0.91 U	0.000201 U
1,4-Dioxane	NE	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U
n-Dodecane	7.6	**1.1 J**	**0.000158 J**	**1.0 J**	**0.000144 J**	1.4 U	0.000201 U	1.4 UJ	0.000201 UJ	**0.42 J**	**0.00006 J**
Ethanol	220	**20**	**0.010615**	**8.9**	**0.004723**	**3.9**	**0.00207**	**5.5**	**0.002919**	**4.3**	**0.002282**
2-Ethylthiophene	NE	0.92 U	0.000201 U	0.92 U	0.000201 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U
p-Ethyltoluene	NE	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U
n-Heptane	5.1	**24**	**0.005856**	**5.7**	**0.001391**	**3.3**	**0.000805**	**4.8**	**0.001171**	**2.2**	**0.000537**
Hexachlorobutadiene	7	2.1 U	0.000197 U	2.1 U	0.000197 U	2.1 U	0.000197 U	2.1 U	0.000197 U	2.1 U	0.000197 U
n-Hexane	3.6	**29**	**0.008228**	**5.9**	**0.001674**	**1.8**	**0.000511**	**1.1**	**0.000312**	0.70 U	0.000199 U

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-MGAC		OZ-MGAC		OZ-MGAC		OZ-MGAC		OZ-MGAC	
Sample Date:		8/30/2010		9/16/2010		10/22/2010		11/22/2010		12/28/2010	
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	**12**	**0.002929**	**3.2**	**0.000781**	**1.3**	**0.000317**	**3**	**0.000732**	**1.6**	**0.000391**
Indane	NE	0.97 U	0.000201 U	0.97 U	0.000201 U	0.97 U	0.000201 U	0.97 U	0.000201 U	0.97 U	0.000201 U
Indene	NE	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U
Methyl tert-butyl ether	5.9	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U
4-Methyl-2-pentanone	2.9	**0.91**	**0.000222**	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U
Methylene chloride	2.9	**1.7 JB**	**0.000489 JB**	3.4 U	0.000979 U	**1.3 J**	**0.000374 J**	**3.6**	**0.001036**	**0.94 J**	**0.000271 J**
1-Methylnaphthalene	NE	2.9 U	0.000499 U	2.9 U	0.000499 U	1.2 U	0.000206 U	1.2 U	0.000206 U	2.9 U	0.000499 U
2-Methylnaphthalene	NE	2.9 U	0.000499 U	2.9 U	0.000499 U	1.2 U	0.000206 U	1.2 U	0.000206 U	2.9 U	0.000499 U
2-Methylthiophene	NE	0.80 U	0.000199 U	0.80 U	0.000199 U	0.8 U	0.000199 U	0.8 U	0.000199 U	0.80 U	0.000199 U
3-Methylthiophene	NE	0.80 U	0.000199 U	0.80 U	0.000199 U	0.8 U	0.000199 U	0.8 U	0.000199 U	0.80 U	0.000199 U
Naphthalene	10	1.0 U	0.000191 U	1.0 U	0.000191 U	1 U	0.000191 U	1 U	0.000191 U	1.0 U	0.000191 U
Nonane	1.2	**1.2**	**0.000229**	**0.42 J**	**0.00008 J**	1 U	0.000191 U	**0.31 J**	**0.000059 J**	1.0 U	0.000191 U
n-Octane	2.1	**2.5**	**0.000535**	**0.79 J**	**0.000169 J**	**0.47 J**	**0.000101 J**	**0.89 J**	**0.000191 J**	**0.56 J**	**0.00012 J**
Pentane	NE	**12**	**0.004067**	**3.7**	**0.001254**	**1.5**	**0.000508**	**1.6**	**0.000542**	**0.80**	**0.000271**
2-Propanol (Isopropyl Alcohol)	NE	**3.9**	**0.001587**	**0.86 J**	**0.00035 J**	1.2 U	0.000488 U	1.2 U	0.000488 U	**0.52 J**	**0.000212 J**
Styrene	0.6	0.85 U	0.0002 U	0.85 U	0.0002 U	0.85 U	0.0002 U	0.85 U	0.0002 U	0.85 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	1.4 U	0.000204 U	1.4 U	0.000204 U	1.4 U	0.000204 U	1.4 U	0.000204 U	1.4 U	0.000204 U
Tetrachloroethene	1.6	**0.91 J**	**0.000134 J**	**0.41 J**	**0.00006 J**	1.4 UJ	0.000206 UJ	1.4 U	0.000206 U	1.4 U	0.000206 U
1,2,4,5-Tetramethylbenzene	NE	1.1 U	0.0002 U	1.1 U	0.0002 U	1.1 U	0.0002 U	1.1 UJ	0.0002 UJ	1.1 U	0.0002 U
Thiophene	NE	0.69 U	0.000201 U	0.69 U	0.000201 U	0.69 U	0.000201 U	0.69 U	0.000201 U	0.69 U	0.000201 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	**0.70 J**	**0.000091 J**	**0.46 J**	**0.00006 J**	1.5 U	0.000196 U	**0.38 J**	**0.00005 J**	1.5 U	0.000196 U
1,2,4-Trichlorobenzene	4.8	1.5 U	0.000202 U	1.5 U	0.000202 U	1.5 U	0.000202 U	1.5 U	0.000202 U	1.5 U	0.000202 U
1,1,1-Trichloroethane	0.7	**0.44 J**	**0.000081 J**	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U
1,1,2-Trichloroethane	<0.25	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U
Trichloroethene	0.5	**0.41 J**	**0.000076 J**	11 U	0.002047 U	1.1 U	0.000205 U	1.1 U	0.000205 U	1.1 U	0.000205 U
Trichlorofluoromethane	6.1	**2.1**	**0.000374**	**1.3**	**0.000231**	**0.84 J**	**0.00015 J**	**1.3**	**0.000231**	**1.4**	**0.000249**
1,2,3-Trimethylbenzene	0.6	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U
1,2,4-Trimethylbenzene	2.5	**0.29 J**	**0.000059 J**	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U
1,3,5-Trimethylbenzene	1	**0.30 J**	**0.000061 J**	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U
2,2,4-Trimethylpentane	2	**1.6**	**0.000342**	**0.42 J**	**0.00009 J**	0.93 U	0.000199 U	0.93 U	0.000199 U	0.93 U	0.000199 U
n-Undecane	2.3	**1.2 J**	**0.000188 J**	**0.38 J**	**0.000059 J**	1.3 U	0.000203 U	1.3 U	0.000203 U	**0.38 J**	**0.000059 J**
Vinyl bromide	NE	0.87 U	0.000199 U	0.87 U	0.000199 U	0.87 U	0.000199 U	0.87 U	0.000199 U	0.87 U	0.000199 U
Vinyl chloride	<0.25	**0.45 J**	**0.000176 J**	0.51 U	0.0002 U	0.51 U	0.0002 U	0.51 U	0.0002 U	0.51 U	0.0002 U
Total VOCs (ppmv)	NE	NA	**0.307378**	NA	**0.081913**	NA	**0.044889**	NA	**0.051436**	NA	**0.032639**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-MGAC 1/31/2011		OZ-MGAC 2/24/2011		OZ-MGAC 3/27/2011		OZ-MGAC 4/27/2011		OZ-MGAC 5/27/2011	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	0.638 U	0.0002 U	0.638 U	0.0002 U	0.638 U	0.0002 U	0.638 U	0.0002 U	**0.182 J**	**0.000057 J**
Toluene	21	0.753 U	0.0002 U	**0.414 J**	**0.00011 J**	0.753 U	0.0002 U	**0.331 J**	**0.000088 J**	**0.494 J**	**0.000131 J**
Ethylbenzene	1.9	0.868 U	0.0002 U	0.868 U	0.0002 U	0.868 U	0.0002 U	0.868 U	0.0002 U	0.869 U	0.0002 U
m,p-Xylene	3.1	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U
o-Xylene	2.5	0.868 U	0.0002 U	0.868 U	0.0002 U	0.868 U	0.0002 U	0.868 U	0.0002 U	0.869 U	0.0002 U
Total BTEX (ppmv)	NE	NA	ND	NA	**0.00011**	NA	ND	NA	**0.000088**	NA	**0.000188**
Other VOCs											
Acetaldehyde	NE	**6.83 J**	**0.003791 J**	**28.2**	**0.015652**	**41.2**	**0.022868**	**55.3**	**0.030694**	**130**	**0.072157**
Acetone	58	5.42 U	0.002282 U	**35.4**	**0.014902**	**41.3**	**0.017386**	**68.1**	**0.028668**	**84.8**	**0.035698**
Acrolein (propenal)	NE	1.14 U	0.000497 U	**1.37**	**0.000598**	**1.89**	**0.000824**	**3.57**	**0.001557**	**5.48**	**0.00239**
Allyl chloride (Chloropropene,3-)	NE	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U
Benzothiophene	NE	2.74 UJ	0.000499 UJ	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U
Bromodichloromethane	NE	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U
Bromoform	NE	2.06 U	0.000199 U	2.06 U	0.000199 U	2.06 U	0.000199 U	2.06 U	0.000199 U	2.07 U	0.0002 U
Bromomethane	0.9	0.776 U	0.0002 U	0.776 U	0.0002 U	0.776 U	0.0002 U	0.776 U	0.0002 U	0.777 U	0.0002 U
1,3-Butadiene	NE	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U
Butane	NE	**3.44**	**0.001447**	**0.698**	**0.000294**	**1.65**	**0.000694**	**1.57 J**	**0.00066 J**	**0.996**	**0.000419**
2-Butanone (Methyl ethyl ketone)	17	**0.887**	**0.000301**	**15.8**	**0.005358**	**24.9**	**0.008444**	**50.9**	**0.017261**	**52.2**	**0.017702**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.606 U	0.0002 U	**1.35**	**0.000445**	**0.488 J**	**0.000161 J**	**0.679**	**0.000224**	**1.98**	**0.000653**
Carbon disulfide	NE	0.622 U	0.0002 U	**0.174 J**	**0.000056 J**	0.622 U	0.0002 U	0.622 U	0.0002 U	**0.529 J**	**0.00017 J**
Carbon tetrachloride	1	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U
Chlorobenzene	<0.25	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.920 U	0.0002 U	0.921 U	0.0002 U
Chloroethane	0.4	0.527 U	0.0002 U	0.527 U	0.0002 U	0.527 U	0.0002 U	**0.235 J**	**0.000089 J**	**0.446 J**	**0.000169 J**
Chloroform	0.5	0.976 U	0.0002 U	0.976 U	0.0002 U	0.976 U	0.0002 U	0.976 U	0.0002 U	0.977 U	0.0002 U
Chloromethane	4.6	**1.08**	**0.000523**	**0.869**	**0.000421**	**0.848**	**0.000411**	**1.13**	**0.000547**	**1.23**	**0.000596**
2-Chlorotoluene	NE	1.03 U	0.000199 U	1.03 U	0.000199 U	1.03 U	0.000199 U	1.03 U	0.000199 U	1.04 U	0.000201 U
Cryofluorane (Freon-114)	1.3	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U	1.40 U	0.0002 U	1.4 U	0.0002 U
Cyclohexane	3	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	**0.347 J**	**0.000101 J**	**0.403 J**	**0.000117 J**
n-Decane	3.6	1.16 U	0.000199 U	**0.326 J**	**0.000056 J**	1.16 U	0.000199 U	**0.698 J**	**0.00012 J**	**0.361 J**	**0.000062 J**
Dibromochloromethane	NE	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U	1.70 U	0.0002 U	1.7 U	0.0002 U
1,2-Dibromoethane	<0.25	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U
1,2-Dichlorobenzene	0.9	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U
1,3-Dichlorobenzene	0.7	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U
1,4-Dichlorobenzene	0.8	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U
Dichlorodifluoromethane	11	**2.55**	**0.000516**	**2.95**	**0.000597**	**1.80**	**0.000364**	**2.02**	**0.000408**	**2.32**	**0.000469**
1,1-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U
1,2-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U
1,1-Dichloroethene	<0.25	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.793 U	0.0002 U
cis-1,2-Dichloroethene	<0.25	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.793 U	0.0002 U
trans-1,2-Dichloroethene	NE	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.793 U	0.0002 U
1,2-Dichloropropane	<0.25	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U
cis-1,3-Dichloropropene	<0.25	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.908 U	0.0002 U
trans-1,3-Dichloropropene	<0.25	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.908 U	0.0002 U
1,4-Dioxane	NE	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.720 U	0.0002 U	0.721 U	0.0002 U
n-Dodecane	7.6	1.39 UJ	0.0002 UJ	**2.9**	**0.000416**	1.39 U	0.0002 U	**9.34**	**0.001341**	**1.04 J**	**0.000149 J**
Ethanol	220	**4.36**	**0.002314**	**7.03**	**0.003731**	**3.22**	**0.001709**	**3.63 J**	**0.001926 J**	**11.1**	**0.005891**
2-Ethylthiophene	NE	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U
p-Ethyltoluene	NE	0.982 U	0.0002 U	0.982 U	0.0002 U	0.982 U	0.0002 U	0.982 U	0.0002 U	0.983 U	0.0002 U
n-Heptane	5.1	0.819 U	0.0002 U	**4.63**	**0.00113**	**7.26**	**0.001772**	**11.6**	**0.002831**	**10.6**	**0.002587**
Hexachlorobutadiene	7	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U
n-Hexane	3.6	0.704 U	0.0002 U	**0.239 J**	**0.000068 J**	0.704 U	0.0002 U	**0.814**	**0.000231**	**2.95**	**0.000837**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-MGAC 1/31/2011		OZ-MGAC 2/24/2011		OZ-MGAC 3/27/2011		OZ-MGAC 4/27/2011		OZ-MGAC 5/27/2011	
Sample Date:											
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	0.819 U	0.0002 U	**1.22**	**0.000298**	**3.26**	**0.000796**	**7.54**	**0.001841**	**5.53**	**0.00135**
Indane	NE	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U
Indene	NE	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U	0.950 U	0.0002 U	0.95 U	0.0002 U
Methyl tert-butyl ether	5.9	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.720 U	0.0002 U	0.721 U	0.0002 U
4-Methyl-2-pentanone	2.9	0.819 U	0.0002 U	0.819 U	0.0002 U	0.819 U	0.0002 U	**0.323 J**	**0.000079 J**	**0.586 J**	**0.000143 J**
Methylene chloride	2.9	3.47 U	0.000999 U	3.47 U	0.000999 U	**1.06 JB**	**0.000305 JB**	**1.82 J**	**0.000524 J**	**2.82 J**	**0.000812 J**
1-Methylnaphthalene	NE	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 UJ	0.001001 UJ	5.82 U	0.001001 U
2-Methylnaphthalene	NE	14.5 U	0.002493 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 UJ	0.001001 UJ	5.82 U	0.001001 U
2-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U
3-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U
Naphthalene	10	1.05 UJ	0.0002 UJ	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	**0.451 J**	**0.000086 J**
Nonane	1.2	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	**0.902 J**	**0.000172 J**
n-Octane	2.1	0.934 U	0.0002 U	**0.766 J**	**0.000164 J**	**1.05**	**0.000225**	**2.00**	**0.000428**	**2.53**	**0.000542**
Pentane	NE	0.59 U	0.0002 U	**0.401 J**	**0.000136 J**	0.59 U	0.0002 U	0.590 UJ	0.0002 UJ	**1.42**	**0.000481**
2-Propanol (Isopropyl Alcohol)	NE	**0.7 J**	**0.000285 J**	**3.26**	**0.001326**	1.23 U	0.0005 U	1.23 U	0.0005 U	**1.92**	**0.000781**
Styrene	0.6	0.851 U	0.0002 U	0.851 U	0.0002 U	0.851 U	0.0002 U	0.851 U	0.0002 U	0.852 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U
Tetrachloroethene	1.6	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U
1,2,4,5-Tetramethylbenzene	NE	1.1 UJ	0.0002 UJ	1.1 U	0.0002 U	1.1 U	0.0002 U	1.10 U	0.0002 U	1.1 U	0.0002 U
Thiophene	NE	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U
1,2,4-Trichlorobenzene	4.8	1.48 UJ	0.000199 UJ	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U
1,1,1-Trichloroethane	0.7	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U
1,1,2-Trichloroethane	<0.25	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U
Trichloroethene	0.5	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U
Trichlorofluoromethane	6.1	**1.19**	**0.000212**	**0.427 J**	**0.000076 J**	**0.859 J**	**0.000153 J**	**1.17**	**0.000208**	**1.6**	**0.000285**
1,2,3-Trimethylbenzene	0.6	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U
1,2,4-Trimethylbenzene	2.5	0.982 U	0.0002 U	0.982 U	0.0002 U	0.982 U	0.0002 U	0.982 U	0.0002 U	0.983 U	0.0002 U
1,3,5-Trimethylbenzene	1	0.982 U	0.0002 U	0.982 U	0.0002 U	0.982 U	0.0002 U	0.982 U	0.0002 U	0.983 U	0.0002 U
2,2,4-Trimethylpentane	2	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U
n-Undecane	2.3	1.28 U	0.0002 U	**1.11 J**	**0.000174 J**	**0.358 J**	**0.000056 J**	**3.82**	**0.000598**	**0.569 J**	**0.000089 J**
Vinyl bromide	NE	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U
Vinyl chloride	<0.25	0.511 U	0.0002 U	0.511 U	0.0002 U	**0.089 J**	**0.000035 J**	0.511 U	0.0002 U	**0.143 J**	**0.000056 J**
Total VOCs (ppmv)	NE	NA	**0.009389**	NA	**0.046008**	NA	**0.056203**	NA	**0.090424**	NA	**0.145051**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-MGAC 6/22/2011		OZ-MGAC 07/26/2011		OZ-MGAC 08/25/2011		OZ-MGAC 09/15/2011		OZ-MGAC 10/25/2011	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	1.28 U	0.000401 U	0.639 U	0.0002 U	0.639 U	0.0002 U	**0.556 J**	**0.000174 J**	1.28 U	0.000401 U
Toluene	21	**0.580 J**	**0.000154 J**	**0.452 J**	**0.00012 J**	**0.316 J**	**0.000084 J**	**1.76**	**0.000467**	1.51 U	0.000401 U
Ethylbenzene	1.9	1.74 U	0.000401 U	0.869 U	0.0002 U	0.869 U	0.0002 U	**0.452 J**	**0.000104 J**	1.74 U	0.000401 U
m,p-Xylene	3.1	3.47 U	0.000799 U	1.74 U	0.000401 U	1.74 U	0.000401 U	**1.51 J**	**0.000348 J**	3.47 U	0.000799 U
o-Xylene	2.5	1.74 U	0.000401 U	0.869 U	0.0002 U	0.869 U	0.0002 U	**0.526 J**	**0.000121 J**	1.74 U	0.000401 U
Total BTEX (ppmv)	NE	NA	**0.000154**	NA	**0.00012**	NA	**0.000084**	NA	**0.001214**	NA	ND
Other VOCs											
Acetaldehyde	NE	**176**	**0.097689**	**158**	**0.087698**	**216**	**0.119891**	**22.7**	**0.0126**	**8 J**	**0.00444 J**
Acetone	58	**125**	**0.052621**	**74.8**	**0.031489**	**116 J**	**0.048833 J**	**13.3**	**0.005599**	**7.7**	**0.003241**
Acrolein (propenal)	NE	**8.30**	**0.003621**	**7.82**	**0.003411**	**8.00**	**0.00349**	**0.495 J**	**0.000216 J**	2.29 U	0.000999 U
Allyl chloride (Chloropropene,3-)	NE	1.25 U	0.000399 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	1.25 U	0.000399 U
Benzothiophene	NE	5.49 U	0.001 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	5.49 U	0.001 U
Bromodichloromethane	NE	2.68 U	0.000401 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	2.68 U	0.000401 U
Bromoform	NE	4.14 U	0.0004 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	4.14 U	0.0004 U
Bromomethane	0.9	1.55 U	0.000399 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	1.55 U	0.000399 U
1,3-Butadiene	NE	0.885 U	0.0004 U	0.442 U	0.0002 U	0.442 U	0.0002 U	**0.181 J**	**0.000082 J**	0.885 U	0.0004 U
Butane	NE	**1.58**	**0.000665**	**1.47**	**0.000618**	**1.29**	**0.000543**	**0.839**	**0.000353**	**0.927 J**	**0.00039 J**
2-Butanone (Methyl ethyl ketone)	17	**67.5**	**0.02289**	**54.6**	**0.018516**	**69.3**	**0.0235**	**4.3**	**0.001458**	**1.76**	**0.000597**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	**1.73 J**	**0.000571 J**	**1.18**	**0.000389**	**2.13**	**0.000703**	0.606 U	0.0002 U	1.21 U	0.000399 U
Carbon disulfide	NE	**0.853 J**	**0.000274 J**	**1.74**	**0.000559**	**0.760**	**0.000244**	**3.1**	**0.000995**	1.24 U	0.000398 U
Carbon tetrachloride	1	2.52 U	0.000401 U	1.26 U	0.0002 U	1.26 U	0.0002 U	**0.554 J**	**0.000088 J**	2.52 U	0.000401 U
Chlorobenzene	<0.25	1.84 U	0.0004 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	1.84 U	0.0004 U
Chloroethane	0.4	1.06 U	0.000402 U	0.528 U	0.0002 U	**0.401 J**	**0.000152 J**	0.528 U	0.0002 U	1.06 U	0.000402 U
Chloroform	0.5	1.95 U	0.000399 U	**0.566 J**	**0.000116 J**	**1.15**	**0.000236**	**0.518 J**	**0.000106 J**	1.95 U	0.000399 U
Chloromethane	4.6	**1.14**	**0.000552**	**0.330 J**	**0.00016 J**	**1.21**	**0.000586**	**1**	**0.000484**	**0.818 J**	**0.000396 J**
2-Chlorotoluene	NE	2.07 U	0.0004 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	2.07 U	0.0004 U
Cryofluorane (Freon-114)	1.3	2.80 U	0.000401 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.4 U	0.0002 U	2.8 U	0.000401 U
Cyclohexane	3	**0.950 J**	**0.000276 J**	0.688 U	0.0002 U	**1.15**	**0.000334**	0.688 U	0.0002 U	1.38 U	0.000401 U
n-Decane	3.6	2.33 U	0.0004 U	**0.646 J**	**0.000111 J**	**0.925 J**	**0.000159 J**	**0.861 J**	**0.000148 J**	2.33 U	0.0004 U
Dibromochloromethane	NE	3.41 U	0.0004 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.7 U	0.0002 U	3.41 U	0.0004 U
1,2-Dibromoethane	<0.25	3.07 U	0.0004 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	3.07 U	0.0004 U
1,2-Dichlorobenzene	0.9	2.40 U	0.000399 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U
1,3-Dichlorobenzene	0.7	2.40 U	0.000399 U	**0.421 J**	**0.00007 J**	1.20 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U
1,4-Dichlorobenzene	0.8	2.40 U	0.000399 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U
Dichlorodifluoromethane	11	**2.25**	**0.000455**	**2.68**	**0.000542**	**2.59**	**0.000524**	**2.61**	**0.000528**	**2.85**	**0.000576**
1,1-Dichloroethane	<0.25	1.62 U	0.0004 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U
1,2-Dichloroethane	<0.25	1.62 U	0.0004 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U
1,1-Dichloroethene	<0.25	1.58 U	0.000398 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U
cis-1,2-Dichloroethene	<0.25	1.58 U	0.000399 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U
trans-1,2-Dichloroethene	NE	1.58 U	0.000399 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000398 U
1,2-Dichloropropane	<0.25	1.85 U	0.0004 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	1.85 U	0.0004 U
cis-1,3-Dichloropropene	<0.25	1.82 U	0.000401 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U
trans-1,3-Dichloropropene	<0.25	1.82 U	0.000401 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U
1,4-Dioxane	NE	1.44 UJ	0.0004 UJ	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 UJ	0.0002 UJ	1.44 U	0.0004 U
n-Dodecane	7.6	**1.49 J**	**0.000214 J**	**2.49**	**0.000357**	**1.12 J**	**0.000161 J**	**0.759 J**	**0.000109 J**	6.96 U	0.000999 U
Ethanol	220	**10.7**	**0.005679**	**9.29**	**0.00493**	**8.44**	**0.004479**	**6.86**	**0.003641**	**3.45 J**	**0.001831 J**
2-Ethylthiophene	NE	1.84 U	0.000401 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	1.84 U	0.000401 U
p-Ethyltoluene	NE	1.97 U	0.000401 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U
n-Heptane	5.1	**13.9**	**0.003392**	**5.74**	**0.001401**	**13.4**	**0.00327**	**0.385 J**	**0.000094 J**	**1.02 J**	**0.000249 J**
Hexachlorobutadiene	7	4.27 U	0.0004 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	4.27 U	0.0004 U
n-Hexane	3.6	**8.46**	**0.0024**	**1.45**	**0.000411**	**7.68**	**0.002179**	**0.402 J**	**0.000114 J**	**1.64**	**0.000465**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-MGAC		OZ-MGAC		OZ-MGAC		OZ-MGAC		OZ-MGAC	
Sample Date:		6/22/2011		07/26/2011		08/25/2011		09/15/2011		10/25/2011	
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	**6.23**	**0.001521**	**10.2**	**0.00249**	**10.8**	**0.002636**	**0.287 J**	**0.00007 J**	1.64 U	0.0004 U
Indane	NE	1.93 U	0.000399 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	1.93 U	0.000399 U
Indene	NE	1.90 U	0.0004 U	0.950 U	0.0002 U	0.950 U	0.0002 U	0.95 U	0.0002 U	1.9 U	0.0004 U
Methyl tert-butyl ether	5.9	1.44 U	0.000399 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	1.44 U	0.000399 U
4-Methyl-2-pentanone	2.9	1.64 U	0.0004 U	0.820 U	0.0002 U	**0.393 J**	**0.000096 J**	**0.336 J**	**0.000082 J**	1.64 U	0.0004 U
Methylene chloride	2.9	**2.42 J**	**0.000697 J**	3.47 U	0.000999 U	**2.18 J**	**0.000628 J**	**5.14**	**0.00148**	6.95 U	0.002001 U
1-Methylnaphthalene	NE	11.6 U	0.001995 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U
2-Methylnaphthalene	NE	11.6 U	0.001995 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U
2-Methylthiophene	NE	1.61 U	0.000401 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	1.61 U	0.000401 U
3-Methylthiophene	NE	1.61 U	0.000401 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	1.61 U	0.000401 U
Naphthalene	10	2.10 U	0.000401 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	2.1 U	0.000401 U
Nonane	1.2	2.10 U	0.0004 U	**1.08**	**0.000206**	**0.724 J**	**0.000138 J**	**0.414 J**	**0.000079 J**	2.1 U	0.0004 U
n-Octane	2.1	**2.61**	**0.000559**	**1.85**	**0.000396**	**3.73**	**0.000798**	0.934 U	0.0002 U	1.87 U	0.0004 U
Pentane	NE	**2.89**	**0.000979**	**1.84**	**0.000624**	**4.19**	**0.00142**	**3.01**	**0.00102**	**2.12**	**0.000718**
2-Propanol (Isopropyl Alcohol)	NE	2.46 U	0.001001 U	1.23 U	0.0005 U	**1.04 J**	**0.000423 J**	**0.973 J**	**0.000396 J**	2.46 U	0.001001 U
Styrene	0.6	1.70 U	0.000399 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	1.7 U	0.000399 U
1,1,2,2-Tetrachloroethane	<0.25	2.75 U	0.000401 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	2.75 U	0.000401 U
Tetrachloroethene	1.6	2.71 U	0.0004 U	1.36 U	0.0002 U	**0.617 J**	**0.000091 J**	**0.834 J**	**0.000123 J**	2.71 U	0.0004 U
1,2,4,5-Tetramethylbenzene	NE	2.20 UJ	0.000401 UJ	1.10 U	0.0002 U	1.10 U	0.0002 U	**0.472 J**	**0.000086 J**	5.49 U	0.001 U
Thiophene	NE	1.38 U	0.000401 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	1.38 U	0.000401 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	3.06 U	0.000399 U	**1.13 J**	**0.000147 J**	**0.651 J**	**0.000085 J**	**0.628 J**	**0.000082 J**	3.06 U	0.000399 U
1,2,4-Trichlorobenzene	4.8	2.97 U	0.0004 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	2.97 U	0.0004 U
1,1,1-Trichloroethane	0.7	2.18 U	0.000399 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U
1,1,2-Trichloroethane	<0.25	2.18 U	0.000399 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U
Trichloroethene	0.5	2.15 U	0.0004 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	2.15 U	0.0004 U
Trichlorofluoromethane	6.1	**1.19 J**	**0.000212 J**	**1.35**	**0.00024**	**1.39**	**0.000247**	**1.9**	**0.000338**	**1.37 J**	**0.000244 J**
1,2,3-Trimethylbenzene	0.6	1.97 U	0.000401 U	0.983 U	0.0002 U	0.983 U	0.0002 U	**0.462 J**	**0.000094 J**	1.97 U	0.000401 U
1,2,4-Trimethylbenzene	2.5	1.97 U	0.000401 U	0.983 U	0.0002 U	0.983 U	0.0002 U	**0.556 J**	**0.000113 J**	1.97 U	0.000401 U
1,3,5-Trimethylbenzene	1	1.97 U	0.000401 U	0.983 U	0.0002 U	0.983 U	0.0002 U	**1.69**	**0.000344**	1.97 U	0.000401 U
2,2,4-Trimethylpentane	2	1.87 U	0.0004 U	0.934 U	0.0002 U	0.934 U	0.0002 U	**0.551 J**	**0.000118 J**	1.87 U	0.0004 U
n-Undecane	2.3	**0.767 J**	**0.00012 J**	**0.850 J**	**0.000133 J**	**1.01 J**	**0.000158 J**	**1.23 J**	**0.000192 J**	2.56 U	0.0004 U
Vinyl bromide	NE	1.75 U	0.0004 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	1.75 U	0.0004 U
Vinyl chloride	<0.25	1.02 U	0.000399 U	0.511 U	0.0002 U	**0.158 J**	**0.000062 J**	0.511 U	0.0002 U	1.02 U	0.000399 U
Total VOCs (ppmv)	NE	NA	**0.195541**	NA	**0.013147**	NA	**0.21615**	NA	**0.032446**	NA	**0.013147**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-MGAC 11/29/2011		OZ-MGAC 12/15/11		OZ-MGAC 1/25/2012		OZ-MGAC 3/5/2012		OZ-MGAC 3/26/2012	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 U	0.0002 U	1.28 U	0.000401 U	0.639 U	0.0002 U
Toluene	21	**0.298 J**	**0.000079 J**	**0.520 J**	**0.000138 J**	**0.320 J**	**0.000085 J**	1.51 U	0.000401 U	0.754 U	0.0002 U
Ethylbenzene	1.9	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	1.74 U	0.000401 U	0.869 U	0.0002 U
m,p-Xylene	3.1	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	3.47 U	0.000799 U	1.74 U	0.000401 U
o-Xylene	2.5	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	1.74 U	0.000401 U	0.869 U	0.0002 U
Total BTEX (ppmv)	NE	NA	**0.000079**	NA	**0.000138**	NA	**0.000085**	NA	ND	NA	ND
Other VOCs											
Acetaldehyde	NE	**16.7**	**0.009269**	**9.98**	**0.005539**	**9.04**	**0.005018**	**8.45 J**	**0.00469 J**	**8.81**	**0.00489**
Acetone	58	**19.7**	**0.008293**	**8.62**	**0.003629**	**9.07 J**	**0.003818 J**	**6.82**	**0.002871**	**5.63**	**0.00237**
Acrolein (propenal)	NE	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 UJ	0.000502 UJ	2.29 U	0.000999 U	1.15 U	0.000502 U
Allyl chloride (Chloropropene,3-)	NE	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	1.25 U	0.000399 U	0.626 U	0.0002 U
Benzothiophene	NE	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 UJ	0.000499 UJ	5.49 U	0.001 U	2.74 U	0.000499 U
Bromodichloromethane	NE	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	2.68 U	0.000401 U	1.34 U	0.0002 U
Bromoform	NE	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	4.14 U	0.0004 U	2.07 U	0.0002 U
Bromomethane	0.9	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	1.55 U	0.000399 U	0.777 U	0.0002 U
1,3-Butadiene	NE	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.885 U	0.0004 U	0.442 U	0.0002 U
Butane	NE	**3.26**	**0.001371**	**2.50**	**0.001052**	**1.55**	**0.000652**	**2.47**	**0.001039**	**1.50**	**0.000631**
2-Butanone (Methyl ethyl ketone)	17	**2.35**	**0.000797**	**1.74**	**0.00059**	**1.36**	**0.000461**	**1.58**	**0.000536**	**1.08**	**0.000366**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	1.21 U	0.000399 U	0.606 U	0.0002 U
Carbon disulfide	NE	0.623 U	0.0002 U	0.623 U	0.0002 U	**0.159 J**	**0.000051 J**	**0.206 JB**	**0.000066 JB**	0.623 U	0.0002 U
Carbon tetrachloride	1	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	2.52 U	0.000401 U	1.26 U	0.0002 U
Chlorobenzene	<0.25	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	1.84 U	0.0004 U	0.921 U	0.0002 U
Chloroethane	0.4	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	1.06 U	0.000402 U	0.528 U	0.0002 U
Chloroform	0.5	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	1.95 U	0.000399 U	0.977 U	0.0002 U
Chloromethane	4.6	**0.863**	**0.000418**	**0.871**	**0.000422**	**0.989**	**0.000479**	**0.987**	**0.000478**	**0.818**	**0.000396**
2-Chlorotoluene	NE	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	2.07 U	0.0004 U	1.04 U	0.000201 U
Cryofluorane (Freon-114)	1.3	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	2.80 U	0.000401 U	1.40 U	0.0002 U
Cyclohexane	3	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	1.38 U	0.000401 U	0.688 U	0.0002 U
n-Decane	3.6	1.16 U	0.000199 U	**0.559 J**	**0.000096 J**	1.16 U	0.000199 U	2.33 U	0.0004 U	1.16 U	0.000199 U
Dibromochloromethane	NE	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	3.41 U	0.0004 U	1.70 U	0.0002 U
1,2-Dibromoethane	<0.25	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	3.07 U	0.0004 U	1.54 U	0.0002 U
1,2-Dichlorobenzene	0.9	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	2.40 U	0.000399 U	1.20 U	0.0002 U
1,3-Dichlorobenzene	0.7	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	2.40 U	0.000399 U	1.20 U	0.0002 U
1,4-Dichlorobenzene	0.8	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	2.40 U	0.000399 U	1.20 U	0.0002 U
Dichlorodifluoromethane	11	**2.28**	**0.000461**	**2.28**	**0.000461**	**2.37**	**0.000479**	**2.90**	**0.000586**	**1.79**	**0.000362**
1,1-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U	0.809 U	0.0002 U
1,2-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U	0.809 U	0.0002 U
1,1-Dichloroethene	<0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000398 U	0.793 U	0.0002 U
cis-1,2-Dichloroethene	<0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U	0.793 U	0.0002 U
trans-1,2-Dichloroethene	NE	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U	0.793 U	0.0002 U
1,2-Dichloropropane	<0.25	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	1.85 U	0.0004 U	0.924 U	0.0002 U
cis-1,3-Dichloropropene	<0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U	0.908 U	0.0002 U
trans-1,3-Dichloropropene	<0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U	0.908 U	0.0002 U
1,4-Dioxane	NE	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	1.44 U	0.0004 U	0.721 U	0.0002 U
n-Dodecane	7.6	1.39 U	0.0002 U	**0.585 J**	**0.000084 J**	1.39 U	0.0002 U	**1.73 J**	**0.000248 J**	3.48 U	0.0005 U
Ethanol	220	**3.77**	**0.002001**	**6.76**	**0.003588**	**2.28**	**0.00121**	**2.36 J**	**0.001252 J**	**2.90**	**0.001539**
2-Ethylthiophene	NE	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	1.84 U	0.000401 U	0.918 U	0.0002 U
p-Ethyltoluene	NE	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U	0.983 U	0.0002 U
n-Heptane	5.1	**1.23**	**0.0003**	**0.709 J**	**0.000173 J**	**0.688 J**	**0.000168 J**	**1.31 J**	**0.00032 J**	**0.713 J**	**0.000174 J**
Hexachlorobutadiene	7	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	4.27 U	0.0004 U	2.13 U	0.0002 U
n-Hexane	3.6	**0.878**	**0.000249**	**0.391 J**	**0.000111 J**	**0.321 J**	**0.000091 J**	1.41 U	0.0004 U	**0.310 J**	**0.000088 J**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-MGAC		OZ-MGAC		OZ-MGAC		OZ-MGAC		OZ-MGAC	
Sample Date:		11/29/2011		12/15/11		1/25/2012		3/5/2012		3/26/2012	
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	1.64 U	0.0004 U	0.820 U	0.0002 U
Indane	NE	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	1.93 U	0.000399 U	0.967 U	0.0002 U
Indene	NE	0.950 U	0.0002 U	0.950 U	0.0002 U	0.950 U	0.0002 U	1.90 U	0.0004 U	0.950 U	0.0002 U
Methyl tert-butyl ether	5.9	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	1.44 U	0.000399 U	0.721 U	0.0002 U
4-Methyl-2-pentanone	2.9	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	1.64 U	0.0004 U	0.820 U	0.0002 U
Methylene chloride	2.9	**1.12 J**	**0.000322 J**	**1.16 J**	**0.000334 J**	**1.58 J**	**0.000455 J**	**2.97 J**	**0.000855 J**	**0.914 J**	**0.000263 J**
1-Methylnaphthalene	NE	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U	5.82 U	0.001001 U
2-Methylnaphthalene	NE	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U	5.82 U	0.001001 U
2-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	1.61 U	0.000401 U	0.803 U	0.0002 U
3-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	1.61 U	0.000401 U	0.803 U	0.0002 U
Naphthalene	10	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	2.10 U	0.000401 U	1.05 U	0.0002 U
Nonane	1.2	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	2.10 U	0.0004 U	1.05 U	0.0002 U
n-Octane	2.1	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	1.87 U	0.0004 U	0.934 U	0.0002 U
Pentane	NE	**2.22**	**0.000752**	**1.53**	**0.000518**	**1.30**	**0.000441**	1.18 U	0.0004 U	**0.292 J**	**0.000099 J**
2-Propanol (Isopropyl Alcohol)	NE	**0.961 J**	**0.000391 J**	1.23 U	0.0005 U	1.23 U	0.0005 U	2.46 U	0.001001 U	1.23 U	0.0005 U
Styrene	0.6	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	1.70 U	0.000399 U	0.852 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	2.75 U	0.000401 U	1.37 U	0.0002 U
Tetrachloroethene	1.6	1.36 U	0.0002 U	1.36 U	0.0002 U	**5.72**	**0.000843**	2.71 U	0.0004 U	1.36 U	0.0002 U
1,2,4,5-Tetramethylbenzene	NE	1.10 U	0.0002 U	2.74 U	0.000499 U	1.10 UJ	0.0002 UJ	2.20 U	0.000401 U	2.74 U	0.000499 U
Thiophene	NE	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	1.38 U	0.000401 U	0.688 U	0.0002 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	3.6	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	3.06 U	0.000399 U	1.53 U	0.0002 U
1,2,4-Trichlorobenzene	4.8	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	2.97 U	0.0004 U	1.48 U	0.000199 U
1,1,1-Trichloroethane	0.7	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U	1.09 U	0.0002 U
1,1,2-Trichloroethane	<0.25	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U	1.09 U	0.0002 U
Trichloroethene	0.5	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	2.15 U	0.0004 U	1.07 U	0.000199 U
Trichlorofluoromethane	6.1	**1.35**	**0.00024**	**1.15**	**0.000205**	**1.33**	**0.000237**	**1.26 J**	**0.000224 J**	**0.832 J**	**0.000148 J**
1,2,3-Trimethylbenzene	0.6	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U	0.983 U	0.0002 U
1,2,4-Trimethylbenzene	2.5	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U	0.983 U	0.0002 U
1,3,5-Trimethylbenzene	1	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U	0.983 U	0.0002 U
2,2,4-Trimethylpentane	2	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	1.87 U	0.0004 U	0.934 U	0.0002 U
n-Undecane	2.3	1.28 U	0.0002 U	1.28 U	0.0002 U	1.28 U	0.0002 U	2.56 U	0.0004 U	1.28 U	0.0002 U
Vinyl bromide	NE	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	1.75 U	0.0004 U	0.874 U	0.0002 U
Vinyl chloride	<0.25	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	1.02 U	0.000399 U	0.511 U	0.0002 U
Total VOCs (ppmv)	NE	NA	**0.024943**	NA	**0.01694**	NA	**0.014488**	NA	**0.013165**	NA	**0.011326**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-STACK 4/1/2010		OZ-STACK 4/15/2010		OZ-STACK 5/17/2010		OZ-STACK 6/22/2010		OZ-STACK 7/27/2010	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	1.3 U	0.000407 U	**6.0**	**0.001878**	0.64 U	0.0002 U	**2.1**	**0.000657**	**0.22 J**	**0.000069 J**
Toluene	21	1.5 U	0.000398 U	**62**	**0.016452**	**0.90**	**0.000239**	**2.0**	**0.000531**	**1.6**	**0.000425**
Ethylbenzene	1.9	1.7 U	0.000392 U	**8.8**	**0.002027**	0.87 U	0.0002 U	**0.63 J**	**0.000145 J**	**0.46 J**	**0.000106 J**
m,p-Xylene	3.1	3.5 U	0.000806 U	**29**	**0.006678**	**0.87 J**	**0.0002 J**	**2.1 J**	**0.000484 J**	**1.9**	**0.000438**
o-Xylene	2.5	1.7 U	0.000392 U	**9.8**	**0.002257**	**0.26 J**	**0.00006 J**	**0.86 J**	**0.000198 J**	**0.42 J**	**0.000097 J**
Total BTEX (ppmv)	NE	NA	ND	NA	**0.029292**	NA	**0.000499**	NA	**0.002015**	NA	**0.001135**
Other VOCs											
Acetaldehyde	NE	**4.8 J**	**0.002664 J**	**18 J**	**0.00999 J**	**5.1**	**0.002831**	**68**	**0.037741**	**22 J**	**0.01221 J**
Acetone	58	**1.6 J**	**0.000674 J**	**1.7 J**	**0.000716 J**	**1.1 J**	**0.000463 J**	**5.2 J**	**0.002189 J**	**1.5 J**	**0.000631 J**
Acrolein (propenal)	NE	2.3 U	0.001002 U	1.2 U	0.000523 U	1.2 U	0.000523 U	**1.9 J**	**0.000828 J**	**0.67 J**	**0.000292 J**
Allyl chloride (Chloropropene,3-)	NE	1.2 U	0.000383 U	0.63 U	0.000201 U	0.63 U	0.000201 U	1.2 U	0.000383 U	0.63 U	0.000201 U
Benzothiophene	NE	2.2 U	0.000401 U	1.1 U	0.0002 U	2.7 U	0.000492 U	2.2 U	0.000401 U	2.7 U	0.000492 U
Bromodichloromethane	NE	2.7 U	0.000403 U	1.3 U	0.000194 U	1.3 U	0.000194 U	2.7 U	0.000403 U	1.3 U	0.000194 U
Bromoform	NE	4.1 U	0.000397 U	2.1 U	0.000203 U	2.1 U	0.000203 U	4.1 U	0.000397 U	2.1 U	0.000203 U
Bromomethane	0.9	1.6 U	0.000412 U	0.78 U	0.000201 U	0.78 U	0.000201 U	1.6 U	0.000412 U	0.78 U	0.000201 U
1,3-Butadiene	NE	0.88 U	0.000398 U	0.44 U	0.000199 U	0.44 U	0.000199 U	0.88 U	0.000398 U	0.44 U	0.000199 U
Butane	NE	**4.3**	**0.001806**	**4.0**	**0.00168**	**1.4**	**0.000588**	**1.5**	**0.00063**	**1.1**	**0.000462**
2-Butanone (Methyl ethyl ketone)	17	1.2 U	0.000407 U	**1.9**	**0.000644**	**0.50 J**	**0.00017 J**	**2.0**	**0.000678**	**2.4**	**0.000814**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	1.2 U	0.000396 U	**1.4**	**0.000462**	0.61 U	0.000201 U	**7.0**	**0.002309**	**0.31 J**	**0.000102 J**
Carbon disulfide	NE	1.2 U	0.000385 U	**0.28 J**	**0.00009 J**	**0.31 J**	**0.0001 J**	**1.8**	**0.000578**	**1.9**	**0.00061**
Carbon tetrachloride	1	2.5 U	0.000397 U	1.3 U	0.000207 U	1.3 U	0.000207 U	2.5 U	0.000397 U	1.3 U	0.000207 U
Chlorobenzene	<0.25	1.8 U	0.000391 U	**3.5**	**0.00076**	0.92 U	0.0002 U	1.8 U	0.000391 U	0.92 U	0.0002 U
Chloroethane	0.4	1.0 U	0.000379 U	0.53 U	0.000201 U	0.53 U	0.000201 U	1.0 U	0.000379 U	0.53 U	0.000201 U
Chloroform	0.5	2.0 U	0.00041 U	0.98 U	0.000201 U	0.98 U	0.000201 U	2.0 U	0.00041 U	**0.25 J**	**0.000051 J**
Chloromethane	4.6	**0.87 J**	**0.000421 J**	**0.99**	**0.000479**	**0.85**	**0.000412**	**3.0**	**0.001453**	**1.4 J**	**0.000678 J**
2-Chlorotoluene	NE	2.1 U	0.000406 U	1.0 U	0.000193 U	1.0 U	0.000193 U	2.1 U	0.000406 U	1.0 U	0.000193 U
Cryofluorane (Freon-114)	1.3	2.8 U	0.000401 U	1.4 U	0.0002 U	1.4 U	0.0002 U	2.8 U	0.000401 U	1.4 U	0.0002 U
Cyclohexane	3	1.4 U	0.000407 U	**2.9 J**	**0.000842 J**	0.69 U	0.0002 U	1.4 U	0.000407 U	0.69 U	0.0002 U
n-Decane	3.6	2.3 U	0.000395 U	**2.3**	**0.000395**	**0.35 J**	**0.00006 J**	**17**	**0.002921**	**0.63 J**	**0.000108 J**
Dibromochloromethane	NE	3.4 U	0.000399 U	1.7 U	0.0002 U	1.7 U	0.0002 U	3.4 U	0.000399 U	1.7 U	0.0002 U
1,2-Dibromoethane	<0.25	3.1 U	0.000403 U	1.5 U	0.000195 U	1.5 U	0.000195 U	3.1 U	0.000403 U	1.5 U	0.000195 U
1,2-Dichlorobenzene	0.9	2.4 U	0.000399 U	1.2 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U	1.2 U	0.0002 U
1,3-Dichlorobenzene	0.7	2.4 U	0.000399 U	1.2 U	0.0002 U	1.2 U	0.0002 U	**2.8**	**0.000466**	**0.32 J**	**0.000053 J**
1,4-Dichlorobenzene	0.8	2.4 U	0.000399 U	1.2 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U	1.2 U	0.0002 U
Dichlorodifluoromethane	11	**3.0**	**0.000607**	**3.2**	**0.000647**	**2.8**	**0.000566**	**3.1**	**0.000627**	**2.7**	**0.000546**
1,1-Dichloroethane	<0.25	1.6 U	0.000395 U	0.81 U	0.0002 U	**0.20 J**	**0.000049 J**	1.6 U	0.000395 U	0.81 U	0.0002 U
1,2-Dichloroethane	<0.25	1.6 U	0.000395 U	0.81 U	0.0002 U	0.81 U	0.0002 U	1.6 U	0.000395 U	0.81 U	0.0002 U
1,1-Dichloroethene	<0.25	1.6 U	0.000404 U	0.79 U	0.000199 U	0.79 U	0.000199 U	1.6 U	0.000404 U	0.79 U	0.000199 U
cis-1,2-Dichloroethene	<0.25	1.6 U	0.000404 U	0.79 U	0.000199 U	0.79 U	0.000199 U	1.6 U	0.000404 U	0.79 U	0.000199 U
trans-1,2-Dichloroethene	NE	1.6 U	0.000404 U	0.79 U	0.000199 U	0.79 U	0.000199 U	1.6 U	0.000404 U	0.79 U	0.000199 U
1,2-Dichloropropane	<0.25	1.8 U	0.00039 U	0.92 U	0.000199 U	0.92 U	0.000199 U	1.8 U	0.00039 U	0.92 U	0.000199 U
cis-1,3-Dichloropropene	<0.25	1.8 U	0.000397 U	0.91 U	0.0002 U	0.91 U	0.0002 U	1.8 U	0.000397 U	0.91 U	0.0002 U
trans-1,3-Dichloropropene	<0.25	1.8 U	0.000397 U	0.91 U	0.0002 U	0.91 U	0.0002 U	1.8 U	0.000397 U	0.91 U	0.0002 U
1,4-Dioxane	NE	1.4 U	0.000389 U	0.72 U	0.0002 U	0.72 U	0.0002 U	1.4 U	0.000389 U	0.72 U	0.0002 U
n-Dodecane	7.6	2.8 U	0.000402 U	**0.42 J**	**0.00006 J**	**1.1 J**	**0.000158 J**	**9.8**	**0.001407**	**1.9 J**	**0.000273 J**
Ethanol	220	**1.0 J**	**0.000531 J**	**68**	**0.03609**	**5.7**	**0.003025**	**50**	**0.026536**	**17**	**0.009022**
2-Ethylthiophene	NE	1.8 U	0.000392 U	0.92 U	0.000201 U	0.92 U	0.000201 U	1.8 U	0.000392 U	0.92 U	0.000201 U
p-Ethyltoluene	NE	2.0 U	0.000407 U	**1.3**	**0.000264**	0.98 U	0.000199 U	2.0 U	0.000407 U	0.98 U	0.000199 U
n-Heptane	5.1	1.6 U	0.00039 U	**6.5**	**0.001586**	0.82 U	0.0002 U	1.6 U	0.00039 U	0.82 U	0.0002 U
Hexachlorobutadiene	7	4.3 U	0.000403 U	2.1 U	0.000197 U	2.1 U	0.000197 U	4.3 U	0.000403 U	2.1 U	0.000197 U
n-Hexane	3.6	1.4 U	0.000397 U	**5.8 J**	**0.001646 J**	0.70 U	0.000199 U	1.4 U	0.000397 U	0.70 U	0.000199 U

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-STACK		OZ-STACK		OZ-STACK		OZ-STACK		OZ-STACK	
Sample Date:		4/1/2010		4/15/2010		5/17/2010		6/22/2010		7/27/2010	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
2-Hexanone	NE	1.6 U	0.000391 U	0.82 U	0.0002 U	0.82 U	0.0002 U	1.6 U	0.000391 U	0.82 U	0.0002 U
Indane	NE	1.9 U	0.000393 U	**0.43 J**	**0.000089 J**	0.97 U	0.000201 U	**0.51 J**	**0.000106 J**	0.97 U	0.000201 U
Indene	NE	1.9 U	0.0004 U	**0.52 J**	**0.000109 J**	0.95 UJ	0.0002 UJ	**2.9**	**0.00061**	0.95 U	0.0002 U
Methyl tert-butyl ether	5.9	1.4 U	0.000388 U	0.72 U	0.0002 U	0.72 U	0.0002 U	1.4 U	0.000388 U	0.72 U	0.0002 U
4-Methyl-2-pentanone	2.9	1.6 U	0.000391 U	0.82 UJ	0.0002 UJ	0.82 U	0.0002 U	**5.3**	**0.001294**	0.82 U	0.0002 U
Methylene chloride	2.9	**1.2 J**	**0.000345 J**	**0.69 J**	**0.000199 J**	1.7 U	0.000489 U	**1.7 J**	**0.000489 J**	3.5 U	0.001008 U
1-Methylnaphthalene	NE	5.8 U	0.000997 U	2.9 U	0.000499 U	2.9 UJ	0.000499 UJ	5.8 U	0.000997 U	5.8 U	0.000997 U
2-Methylnaphthalene	NE	5.8 U	0.000997 U	2.9 UJ	0.000499 UJ	2.9 U	0.000499 U	5.8 U	0.000997 U	5.8 U	0.000997 U
2-Methylthiophene	NE	1.6 U	0.000398 U	0.80 U	0.000199 U	0.80 U	0.000199 U	1.6 U	0.000398 U	0.80 U	0.000199 U
3-Methylthiophene	NE	1.6 U	0.000399 U	0.80 U	0.000199 U	0.80 U	0.000199 U	1.6 U	0.000399 U	0.80 U	0.000199 U
Naphthalene	10	2.1 U	0.000401 U	1.0 U	0.000191 U	**0.63 J**	**0.00012 J**	**4.7 J**	**0.000897 J**	**0.49 J**	**0.000093 J**
Nonane	1.2	2.1 U	0.0004 U	**1.8**	**0.000343**	1.0 U	0.000191 U	**0.91 J**	**0.000173 J**	**0.26 J**	**0.00005 J**
n-Octane	2.1	1.9 U	0.000407 U	**5.8**	**0.001241**	0.93 U	0.000199 U	**5.5**	**0.001177**	0.93 U	0.000199 U
Pentane	NE	1.2 U	0.000407 U	**5.6**	**0.001898**	0.59 U	0.0002 U	1.2 U	0.000407 U	**1.2**	**0.000407**
2-Propanol (Isopropyl Alcohol)	NE	2.5 U	0.001017 U	1.2 U	0.000488 U	1.2 U	0.000488 U	2.5 U	0.001017 U	**0.96 J**	**0.000391 J**
Styrene	0.6	1.7 U	0.000399 U	**0.64 J**	**0.00015 J**	**0.30 J**	**0.00007 J**	**0.95 J**	**0.000223 J**	0.85 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	2.7 U	0.000393 U	1.4 U	0.000204 U	1.4 U	0.000204 U	2.7 U	0.000393 U	1.4 U	0.000204 U
Tetrachloroethene	1.6	2.7 U	0.000398 U	1.4 U	0.000206 U	1.4 U	0.000206 U	2.7 U	0.000398 U	1.4 U	0.000206 U
1,2,4,5-Tetramethylbenzene	NE	2.2 U	0.000401 U	1.1 U	0.0002 U	1.1 U	0.0002 U	2.2 U	0.000401 U	1.1 U	0.0002 U
Thiophene	NE	1.4 U	0.000407 U	0.69 U	0.000201 U	0.69 U	0.000201 U	1.4 U	0.000407 U	0.69 U	0.000201 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	3.1 U	0.000405 U	1.5 U	0.000196 U	1.5 U	0.000196 U	**1.4 J**	**0.000183 J**	**1.8**	**0.000235**
1,2,4-Trichlorobenzene	4.8	3.0 U	0.000404 U	1.5 U	0.000202 U	1.5 U	0.000202 U	3.0 U	0.000404 U	1.5 U	0.000202 U
1,1,1-Trichloroethane	0.7	2.2 U	0.000403 U	1.1 U	0.000202 U	1.1 U	0.000202 U	2.2 U	0.000403 U	1.1 U	0.000202 U
1,1,2-Trichloroethane	<0.25	2.2 U	0.000403 U	1.1 U	0.000202 U	1.1 U	0.000202 U	2.2 U	0.000403 U	1.1 U	0.000202 U
Trichloroethene	0.5	2.2 U	0.000409 U	1.1 U	0.000205 U	1.1 U	0.000205 U	2.2 U	0.000409 U	1.1 U	0.000205 U
Trichlorofluoromethane	6.1	**2.4**	**0.000427**	**2.2**	**0.000392**	**1.7**	**0.000303**	**2.6**	**0.000463**	**1.7**	**0.000303**
1,2,3-Trimethylbenzene	0.6	2.0 U	0.000407 U	**0.59 J**	**0.00012 J**	0.98 U	0.000199 U	**0.89 J**	**0.000181 J**	0.98 U	0.000199 U
1,2,4-Trimethylbenzene	2.5	2.0 U	0.000407 U	**2.3**	**0.000468**	**0.39 J**	**0.000079 J**	**1.4 J**	**0.000285 J**	**0.49 J**	**0.0001 J**
1,3,5-Trimethylbenzene	1	2.0 U	0.000407 U	**1.2**	**0.000244**	0.98 U	0.000199 U	2.0 U	0.000407 U	0.98 U	0.000199 U
2,2,4-Trimethylpentane	2	1.9 U	0.000407 U	**5.7**	**0.00122**	0.93 U	0.000199 U	1.9 U	0.000407 U	0.93 U	0.000199 U
n-Undecane	2.3	**1.5 J**	**0.000235 J**	1.3 U	0.000203 U	**1.0 J**	**0.000156 J**	**4.2 J**	**0.000657 J**	**0.51 J**	**0.00008 J**
Vinyl bromide	NE	1.8 U	0.000412 U	0.87 U	0.000199 U	0.87 U	0.000199 U	1.8 U	0.000412 U	0.87 U	0.000199 U
Vinyl chloride	<0.25	1.0 U	0.000391 U	0.51 U	0.0002 U	0.51 U	0.0002 U	1.0 U	0.000391 U	0.51 U	0.0002 U
Total VOCs (ppmv)	NE	NA	**0.00771**	NA	**0.092116**	NA	**0.009649**	NA	**0.087116**	NA	**0.028646**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-STACK 8/30/2010		OZ-STACK 9/16/2010		OZ-STACK 10/22/2010		OZ-STACK 11/22/2010		OZ-STACK 12/28/2010	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	0.64 U	0.0002 U	0.64 U	0.0002 U	**0.38 J**	**0.000119 J**	**0.22 J**	**0.000069 J**	**0.26 J**	**0.000081 J**
Toluene	21	**0.23 J**	**0.000061 J**	**0.87**	**0.000231**	**1.5**	**0.000398**	**0.68 J**	**0.00018 J**	**0.64 J**	**0.00017 J**
Ethylbenzene	1.9	0.87 U	0.0002 U	**0.30 J**	**0.000069 J**	0.87 U	0.0002 U	**0.3 J**	**0.000069 J**	0.87 U	0.0002 U
m,p-Xylene	3.1	1.7 U	0.000391 U	**1.5 J**	**0.000345 J**	**0.69 J**	**0.000159 J**	**1 J**	**0.00023 J**	1.7 U	0.000391 U
o-Xylene	2.5	0.87 U	0.0002 U	**0.48 J**	**0.000111 J**	**0.26 J**	**0.00006 J**	**0.39 J**	**0.00009 J**	0.87 U	0.0002 U
Total BTEX (ppmv)	NE	NA	**0.000061**	NA	**0.000756**	NA	**0.000736**	NA	**0.000638**	NA	**0.000251**
Other VOCs											
Acetaldehyde	NE	**5.0**	**0.002775**	**8.5**	**0.004718**	**3.1 J**	**0.001721 J**	**5.9 J**	**0.003275 J**	**2.7 J**	**0.001499 J**
Acetone	58	5.9 U	0.002484 U	2.4 U	0.00101 U	**1.9 J**	**0.0008 J**	**2.5 J**	**0.001052 J**	**2.4 G**	**0.00101 G**
Acrolein (propenal)	NE	1.2 U	0.000523 U	1.2 U	0.000523 U	1.2 U	0.000523 U	1.2 U	0.000523 U	1.2 U	0.000523 U
Allyl chloride (Chloropropene,3-)	NE	0.63 U	0.000201 U	0.63 U	0.000201 U	0.63 U	0.000201 U	0.63 U	0.000201 U	0.63 U	0.000201 U
Benzothiophene	NE	2.7 U	0.000492 U	2.7 UJ	0.000492 UJ	1.1 U	0.0002 U	1.1 U	0.0002 U	1.1 U	0.0002 U
Bromodichloromethane	NE	1.3 U	0.000194 U	1.3 U	0.000194 U	1.3 U	0.000194 U	1.3 U	0.000194 U	1.3 U	0.000194 U
Bromoform	NE	2.1 U	0.000203 U	2.1 U	0.000203 U	2.1 UJ	0.000203 UJ	2.1 U	0.000203 U	2.1 U	0.000203 U
Bromomethane	0.9	0.78 U	0.000201 U	0.78 U	0.000201 U	0.78 U	0.000201 U	0.78 U	0.000201 U	0.78 U	0.000201 U
1,3-Butadiene	NE	0.44 U	0.000199 U	0.44 U	0.000199 U	0.44 U	0.000199 U	0.44 U	0.000199 U	0.44 U	0.000199 U
Butane	NE	**1.0**	**0.00042**	**0.64**	**0.000269**	**1.4**	**0.000589**	**0.93**	**0.000391**	**1.5**	**0.000631**
2-Butanone (Methyl ethyl ketone)	17	**0.61**	**0.000207**	**0.62**	**0.00021**	0.59 U	0.0002 U	**0.47 J**	**0.000159 J**	**0.44 J**	**0.000149 J**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	**0.72**	**0.000238**	0.61 U	0.000201 U	0.61 U	0.000201 U	0.61 U	0.000201 U	0.61 U	0.000201 U
Carbon disulfide	NE	**0.58 JB**	**0.000186 JB**	**0.16 J**	**0.000051 J**	**0.19 J**	**0.000061 J**	**0.19 J**	**0.000061 J**	**0.22 J**	**0.000071 J**
Carbon tetrachloride	1	1.3 U	0.000207 U	1.3 U	0.000207 U	1.3 U	0.000207 U	1.3 U	0.000207 U	1.3 U	0.000207 U
Chlorobenzene	<0.25	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U
Chloroethane	0.4	0.53 U	0.000201 U	0.53 U	0.000201 U	0.53 U	0.000201 U	0.53 U	0.000201 U	0.53 U	0.000201 U
Chloroform	0.5	**0.40 J**	**0.000082 J**	**0.29 J**	**0.000059 J**	**0.24 J**	**0.000049 J**	0.98 U	0.000201 U	0.98 U	0.000201 U
Chloromethane	4.6	**1.1**	**0.000533**	0.41 UJ	0.000199 UJ	**1.1**	**0.000533**	**0.99**	**0.000479**	**0.99**	**0.000479**
2-Chlorotoluene	NE	1.0 U	0.000193 U	1.0 U	0.000193 U	1 U	0.000193 U	1 U	0.000193 U	1.0 U	0.000193 U
Cryofluorane (Freon-114)	1.3	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U
Cyclohexane	3	0.69 U	0.0002 U	0.69 U	0.0002 U	0.69 U	0.0002 U	0.69 U	0.0002 U	0.69 U	0.0002 U
n-Decane	3.6	1.2 U	0.000206 U	**0.87 J**	**0.000149 J**	1.2 U	0.000206 U	**0.41 J**	**0.00007 J**	1.2 U	0.000206 U
Dibromochloromethane	NE	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U
1,2-Dibromoethane	<0.25	1.5 U	0.000195 U	1.5 U	0.000195 U	1.5 U	0.000195 U	1.5 U	0.000195 U	1.5 U	0.000195 U
1,2-Dichlorobenzene	0.9	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U
1,3-Dichlorobenzene	0.7	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U
1,4-Dichlorobenzene	0.8	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U
Dichlorodifluoromethane	11	**3.4**	**0.000688**	**2.4**	**0.000485**	**2.0**	**0.000404**	**2.3**	**0.000465**	**3.0**	**0.000607**
1,1-Dichloroethane	<0.25	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U
1,2-Dichloroethane	<0.25	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U	0.81 U	0.0002 U
1,1-Dichloroethene	<0.25	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U
cis-1,2-Dichloroethene	<0.25	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U
trans-1,2-Dichloroethene	NE	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U	0.79 U	0.000199 U
1,2-Dichloropropane	<0.25	0.92 U	0.000199 U	0.92 U	0.000199 U	0.92 U	0.000199 U	0.92 U	0.000199 U	0.92 U	0.000199 U
cis-1,3-Dichloropropene	<0.25	0.91 U	0.0002 U	0.91 U	0.0002 U	0.91 U	0.000201 U	0.91 U	0.000201 U	0.91 U	0.000201 U
trans-1,3-Dichloropropene	<0.25	0.91 U	0.0002 U	0.91 U	0.0002 U	0.91 U	0.000201 U	0.91 U	0.000201 U	0.91 U	0.000201 U
1,4-Dioxane	NE	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U
n-Dodecane	7.6	**0.44 J**	**0.000063 J**	**1.4**	**0.000201**	1.4 U	0.000201 U	1.4 UJ	0.000201 UJ	1.4 U	0.000201 U
Ethanol	220	**1.3 J**	**0.00069 J**	**1.7 J**	**0.000902 J**	**9.4**	**0.004989**	**3.6**	**0.001911**	**6.6**	**0.003503**
2-Ethylthiophene	NE	0.92 U	0.000201 U	0.92 U	0.000201 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U
p-Ethyltoluene	NE	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U
n-Heptane	5.1	0.82 U	0.0002 U	0.82 U	0.0002 U	**0.29 J**	**0.000071 J**	**0.29 J**	**0.000071 J**	0.82 U	0.0002 U
Hexachlorobutadiene	7	2.1 U	0.000197 U	2.1 U	0.000197 U	2.1 U	0.000197 U	2.1 U	0.000197 U	2.1 U	0.000197 U
n-Hexane	3.6	0.70 U	0.000199 U	0.70 U	0.000199 U	**0.53 J**	**0.00015 J**	0.7 U	0.000199 U	0.70 U	0.000199 U

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-STACK 8/30/2010		OZ-STACK 9/16/2010		OZ-STACK 10/22/2010		OZ-STACK 11/22/2010		OZ-STACK 12/28/2010	
Sample Date:											
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
2-Hexanone	NE	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U
Indane	NE	0.97 U	0.000201 U	0.97 U	0.000201 U	0.97 U	0.000201 U	0.97 U	0.000201 U	0.97 U	0.000201 U
Indene	NE	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U
Methyl tert-butyl ether	5.9	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U
4-Methyl-2-pentanone	2.9	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U	0.82 U	0.0002 U
Methylene chloride	2.9	**1.2 JB**	**0.000345 JB**	3.4 U	0.000979 U	**1.4 J**	**0.000403 J**	**2.4 J**	**0.000691 J**	**2.8 J**	**0.000806 J**
1-Methylnaphthalene	NE	2.9 U	0.000499 U	2.9 U	0.000499 U	1.2 U	0.000206 U	1.2 U	0.000206 U	2.9 U	0.000499 U
2-Methylnaphthalene	NE	2.9 U	0.000499 U	2.9 U	0.000499 U	1.2 U	0.000206 U	1.2 U	0.000206 U	2.9 U	0.000499 U
2-Methylthiophene	NE	0.80 U	0.000199 U	0.80 U	0.000199 U	0.8 U	0.000199 U	0.8 U	0.000199 U	0.80 U	0.000199 U
3-Methylthiophene	NE	0.80 U	0.000199 U	0.80 U	0.000199 U	0.8 U	0.000199 U	0.8 U	0.000199 U	0.80 U	0.000199 U
Naphthalene	10	1.0 U	0.000191 U	1.0 U	0.000191 U	1.0 U	0.000191 U	1 U	0.000191 U	1.0 U	0.000191 U
Nonane	1.2	1.0 U	0.000191 U	**0.31 J**	**0.000059 J**	1 U	0.000191 U	1 U	0.000191 U	1.0 U	0.000191 U
n-Octane	2.1	0.93 U	0.000199 U	0.93 U	0.000199 U	0.93 U	0.000199 U	0.93 U	0.000199 U	0.93 U	0.000199 U
Pentane	NE	**3.7**	**0.001254**	**2.4**	**0.000813**	**2.7**	**0.000915**	**1.8**	**0.00061**	**1.0**	**0.000339**
2-Propanol (Isopropyl Alcohol)	NE	1.2 U	0.000488 U	1.2 U	0.000488 U	1.2 U	0.000488 U	1.2 U	0.000488 U	1.2 U	0.000488 U
Styrene	0.6	0.85 U	0.0002 U	0.85 U	0.0002 U	0.85 U	0.0002 U	0.85 U	0.0002 U	0.85 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	1.4 U	0.000204 U	1.4 U	0.000204 U	1.4 U	0.000204 U	1.4 U	0.000204 U	1.4 U	0.000204 U
Tetrachloroethene	1.6	1.4 U	0.000206 U	1.4 U	0.000206 U	1.4 UJ	0.000206 UJ	1.4 U	0.000206 U	1.4 U	0.000206 U
1,2,4,5-Tetramethylbenzene	NE	1.1 U	0.0002 U	1.1 U	0.0002 U	1.1 U	0.0002 U	1.1 UJ	0.0002 UJ	1.1 U	0.0002 U
Thiophene	NE	0.69 U	0.000201 U	0.69 U	0.000201 U	0.69 U	0.000201 U	0.69 U	0.000201 U	0.69 U	0.000201 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	**1.2 J**	**0.000157 J**	**0.54 J**	**0.00007 J**	1.5 U	0.000196 U	1.5 U	0.000196 U	1.5 U	0.000196 U
1,2,4-Trichlorobenzene	4.8	1.5 U	0.000202 U	1.5 U	0.000202 U	1.5 U	0.000202 U	1.5 U	0.000202 U	1.5 U	0.000202 U
1,1,1-Trichloroethane	0.7	**0.32 J**	**0.000059 J**	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U
1,1,2-Trichloroethane	<0.25	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U	1.1 U	0.000202 U
Trichloroethene	0.5	1.1 U	0.000205 U	1.1 U	0.000205 U	1.1 U	0.000205 U	1.1 U	0.000205 U	1.1 U	0.000205 U
Trichlorofluoromethane	6.1	**1.9**	**0.000338**	**1.1**	**0.000196**	**0.84 J**	**0.00015 J**	**0.95 J**	**0.000169 J**	**0.95 J**	**0.000169 J**
1,2,3-Trimethylbenzene	0.6	0.98 U	0.000199 U	**0.25 J**	**0.000051 J**	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U
1,2,4-Trimethylbenzene	2.5	0.98 U	0.000199 U	**0.88 J**	**0.000179 J**	0.98 U	0.000199 U	**0.69 J**	**0.00014 J**	**0.29 J**	**0.000059 J**
1,3,5-Trimethylbenzene	1	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U	0.98 U	0.000199 U
2,2,4-Trimethylpentane	2	0.93 U	0.000199 U	0.93 U	0.000199 U	0.93 U	0.000199 U	0.93 U	0.000199 U	0.93 U	0.000199 U
n-Undecane	2.3	1.3 U	0.000203 U	**1.5**	**0.000235**	1.3 U	0.000203 U	**0.64 J**	**0.0001 J**	1.3 U	0.000203 U
Vinyl bromide	NE	0.87 U	0.000199 U	0.87 U	0.000199 U	0.87 U	0.000199 U	0.87 U	0.000199 U	0.87 U	0.000199 U
Vinyl chloride	<0.25	0.51 U	0.0002 U	0.51 U	0.0002 U	0.51 U	0.0002 U	0.51 U	0.0002 U	0.51 U	0.0002 U
Total VOCs (ppmv)	NE	NA	**0.008096**	NA	**0.009403**	NA	**0.011571**	NA	**0.010282**	NA	**0.009573**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-STACK 1/31/2011		OZ-STACK 2/24/2011		OZ-STACK 3/27/2011		OZ-STACK 4/27/2011		OZ-STACK 5/27/2011	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	**0.693**	**0.000217**	**0.747**	**0.000234**	**0.645**	**0.000202**	0.638 U	0.0002 U	**0.233 J**	**0.000073 J**
Toluene	21	**1.49**	**0.000395**	**3.35**	**0.000889**	**2.18**	**0.000579**	**0.655 J**	**0.000174 J**	**1.16**	**0.000308**
Ethylbenzene	1.9	**0.278 J**	**0.000064 J**	**1.12**	**0.000258**	0.868 U	0.0002 U	0.868 U	0.0002 U	**0.443 J**	**0.000102 J**
m,p-Xylene	3.1	**0.751 J**	**0.000173 J**	**3.64**	**0.000838**	**0.950 J**	**0.000219 J**	**0.772 J**	**0.000178 J**	**1.38 J**	**0.000318 J**
o-Xylene	2.5	**0.308 J**	**0.000071 J**	**1.41**	**0.000325**	**0.278 J**	**0.000064 J**	0.868 U	0.0002 U	**0.625 J**	**0.000144 J**
Total BTEX (ppmv)	NE	NA	**0.00092**	NA	**0.002544**	NA	**0.001064**	NA	**0.000352**	NA	**0.000945**
Other VOCs											
Acetaldehyde	NE	**4.68 J**	**0.002598 J**	**5.87**	**0.003258**	4.5 U	0.002498 U	**9.05**	**0.005023**	**26.7**	**0.01482**
Acetone	58	3.86 U	0.001625 U	**4.99**	**0.002101**	**2.04 J**	**0.000859 J**	**3.50**	**0.001473**	**11.1**	**0.004673**
Acrolein (propenal)	NE	1.14 U	0.000497 U	1.14 U	0.000497 U	1.14 U	0.000497 U	1.14 U	0.000497 U	**0.481 J**	**0.00021 J**
Allyl chloride (Chloropropene,3-)	NE	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U
Benzothiophene	NE	2.74 UJ	0.000499 UJ	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	**0.615 J**	**0.000112 J**
Bromodichloromethane	NE	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U
Bromoform	NE	2.06 U	0.000199 U	2.06 U	0.000199 U	2.06 U	0.000199 U	2.06 U	0.000199 U	2.07 U	0.0002 U
Bromomethane	0.9	0.776 U	0.0002 U	0.776 U	0.0002 U	0.776 U	0.0002 U	0.776 U	0.0002 U	0.777 U	0.0002 U
1,3-Butadiene	NE	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U
Butane	NE	**2**	**0.000841**	**0.273 J**	**0.000115 J**	**3.64**	**0.001531**	**2.12 J**	**0.000892 J**	**1.39**	**0.000585**
2-Butanone (Methyl ethyl ketone)	17	**0.433 J**	**0.000147 J**	**1.13**	**0.000383**	**0.436 J**	**0.000148 J**	**0.622**	**0.000211**	**2.14**	**0.000726**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U
Carbon disulfide	NE	0.622 U	0.0002 U	**0.264 J**	**0.000085 J**	**0.124 J**	**0.00004 J**	0.622 U	0.0002 U	**1.24**	**0.000398**
Carbon tetrachloride	1	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U
Chlorobenzene	<0.25	0.92 U	0.0002 U	0.92 U	0.0002 U	0.92 U	0.0002 U	0.920 U	0.0002 U	0.921 U	0.0002 U
Chloroethane	0.4	0.527 U	0.0002 U	0.527 U	0.0002 U	0.527 U	0.0002 U	0.527 U	0.0002 U	0.528 U	0.0002 U
Chloroform	0.5	0.976 U	0.0002 U	0.976 U	0.0002 U	0.976 U	0.0002 U	0.976 U	0.0002 U	0.977 U	0.0002 U
Chloromethane	4.6	**1.04**	**0.000504**	**0.908**	**0.00044**	**1.62**	**0.000784**	**1.31**	**0.000634**	**1.38**	**0.000668**
2-Chlorotoluene	NE	1.03 U	0.000199 U	1.03 U	0.000199 U	1.03 U	0.000199 U	1.03 U	0.000199 U	1.04 U	0.000201 U
Cryofluorane (Freon-114)	1.3	1.4 U	0.0002 U	1.4 U	0.0002 U	1.4 U	0.0002 U	1.40 U	0.0002 U	1.4 U	0.0002 U
Cyclohexane	3	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U
n-Decane	3.6	1.16 U	0.000199 U	**1.01 J**	**0.000174 J**	1.16 U	0.000199 U	**0.600 J**	**0.000103 J**	**0.378 J**	**0.000065 J**
Dibromochloromethane	NE	1.7 U	0.0002 U	1.7 U	0.0002 U	1.7 U	0.0002 U	1.70 U	0.0002 U	1.7 U	0.0002 U
1,2-Dibromoethane	<0.25	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U
1,2-Dichlorobenzene	0.9	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U
1,3-Dichlorobenzene	0.7	1.2 U	0.0002 U	1.2 U	0.0002 U	1.2 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U
1,4-Dichlorobenzene	0.8	1.2 U	0.0002 U	**0.198 J**	**0.000033 J**	1.2 U	0.0002 U	1.20 U	0.0002 U	**0.397 J**	**0.000066 J**
Dichlorodifluoromethane	11	**1.88**	**0.00038**	**3.48**	**0.000704**	**1.92**	**0.000388**	**2.14**	**0.000433**	**2.54**	**0.000514**
1,1-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U
1,2-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U
1,1-Dichloroethene	<0.25	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.793 U	0.0002 U
cis-1,2-Dichloroethene	<0.25	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.793 U	0.0002 U
trans-1,2-Dichloroethene	NE	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.792 U	0.0002 U	0.793 U	0.0002 U
1,2-Dichloropropane	<0.25	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U
cis-1,3-Dichloropropene	<0.25	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.908 U	0.0002 U
trans-1,3-Dichloropropene	<0.25	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.907 U	0.0002 U	0.908 U	0.0002 U
1,4-Dioxane	NE	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.720 U	0.0002 U	0.721 U	0.0002 U
n-Dodecane	7.6	1.39 UJ	0.0002 UJ	**0.766 J**	**0.00011 J**	1.39 U	0.0002 U	**4.58**	**0.000657**	**1.43**	**0.000205**
Ethanol	220	**16**	**0.008491**	**5.84**	**0.003099**	**2.76**	**0.001465**	**4.07 J**	**0.00216 J**	**15.4**	**0.008173**
2-Ethylthiophene	NE	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U
p-Ethyltoluene	NE	0.982 U	0.0002 U	**0.457 J**	**0.000093 J**	0.982 U	0.0002 U	0.982 U	0.0002 U	0.983 U	0.0002 U
n-Heptane	5.1	0.819 U	0.0002 U	**0.622 J**	**0.000152 J**	**0.287 J**	**0.00007 J**	0.819 U	0.0002 U	**0.287 J**	**0.00007 J**
Hexachlorobutadiene	7	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	**1.11 J**	**0.000104 J**
n-Hexane	3.6	**0.331 J**	**0.000094 J**	**0.292 J**	**0.000083 J**	**1.26**	**0.000358**	0.704 U	0.0002 U	0.705 U	0.0002 U

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-STACK 1/31/2011		OZ-STACK 2/24/2011		OZ-STACK 3/27/2011		OZ-STACK 4/27/2011		OZ-STACK 5/27/2011	
Sample Date:											
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	0.819 U	0.0002 U	0.819 U	0.0002 U	0.819 U	0.0002 U	0.819 U	0.0002 U	**0.463 J**	**0.000113 J**
Indane	NE	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U
Indene	NE	0.95 U	0.0002 U	0.95 U	0.0002 U	0.95 U	0.0002 U	0.950 U	0.0002 U	**0.428 J**	**0.00009 J**
Methyl tert-butyl ether	5.9	0.72 U	0.0002 U	0.72 U	0.0002 U	0.72 U	0.0002 U	0.720 U	0.0002 U	0.721 U	0.0002 U
4-Methyl-2-pentanone	2.9	0.819 U	0.0002 U	0.819 U	0.0002 U	0.819 U	0.0002 U	0.819 U	0.0002 U	0.82 U	0.0002 U
Methylene chloride	2.9	3.47 U	0.000999 U	3.47 U	0.000999 U	**1.24 JB**	**0.000357 JB**	**1.14 J**	**0.000328 J**	**1.85 J**	**0.000533 J**
1-Methylnaphthalene	NE	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 UJ	0.001001 UJ	5.82 U	0.001001 U
2-Methylnaphthalene	NE	14.5 U	0.002493 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 UJ	0.001001 UJ	5.82 U	0.001001 U
2-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U
3-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U
Naphthalene	10	1.05 UJ	0.0002 UJ	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	**0.64 J**	**0.000122 J**
Nonane	1.2	1.05 U	0.0002 U	**0.782 J**	**0.000149 J**	1.05 U	0.0002 U	1.05 U	0.0002 U	**0.33 J**	**0.000063 J**
n-Octane	2.1	0.934 U	0.0002 U	**0.369 J**	**0.000079 J**	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U
Pentane	NE	0.59 U	0.0002 U	**0.383 J**	**0.00013 J**	**2.12**	**0.000718**	0.590 UJ	0.0002 UJ	0.59 U	0.0002 U
2-Propanol (Isopropyl Alcohol)	NE	**0.766 J**	**0.000312 J**	**1.21 J**	**0.000492 J**	**0.292 J**	**0.000119 J**	**0.145 J**	**0.000059 J**	**0.678 J**	**0.000276 J**
Styrene	0.6	0.851 U	0.0002 U	0.851 U	0.0002 U	0.851 U	0.0002 U	0.851 U	0.0002 U	0.852 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U
Tetrachloroethene	1.6	1.36 U	0.0002 U	**0.718 J**	**0.000106 J**	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U
1,2,4,5-Tetramethylbenzene	NE	1.1 UJ	0.0002 UJ	1.1 U	0.0002 U	1.1 U	0.0002 U	1.10 U	0.0002 U	**0.543 J**	**0.000099 J**
Thiophene	NE	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U
1,2,4-Trichlorobenzene	4.8	1.48 UJ	0.000199 UJ	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	**0.965 J**	**0.00013 J**
1,1,1-Trichloroethane	0.7	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U
1,1,2-Trichloroethane	<0.25	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U
Trichloroethene	0.5	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U
Trichlorofluoromethane	6.1	**0.932 J**	**0.000166 J**	1.12 U	0.000199 U	**0.500 J**	**0.000089 J**	**1.37**	**0.000244**	**1.98**	**0.000352**
1,2,3-Trimethylbenzene	0.6	0.983 U	0.0002 U	**0.531 J**	**0.000108 J**	**0.187 J**	**0.000038 J**	0.983 U	0.0002 U	**0.477 J**	**0.000097 J**
1,2,4-Trimethylbenzene	2.5	**0.354 J**	**0.000072 J**	**1.89**	**0.000384**	0.982 U	0.0002 U	**0.472 J**	**0.000096 J**	**0.85 J**	**0.000173 J**
1,3,5-Trimethylbenzene	1	0.982 U	0.0002 U	**0.535 J**	**0.000109 J**	0.982 U	0.0002 U	0.982 U	0.0002 U	**0.378 J**	**0.000077 J**
2,2,4-Trimethylpentane	2	**0.308 J**	**0.000066 J**	**0.42 J**	**0.00009 J**	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U
n-Undecane	2.3	**0.384 J**	**0.00006 J**	**1.09 J**	**0.00017 J**	1.28 U	0.0002 U	**2.95**	**0.000461**	**0.62 J**	**0.000097 J**
Vinyl bromide	NE	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U
Vinyl chloride	<0.25	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U
Total VOCs (ppmv)	NE	NA	**0.014651**	NA	**0.015191**	NA	**0.008028**	NA	**0.013126**	NA	**0.034556**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-STACK 6/22/2011		OZ-STACK 07/26/2011		OZ-STACK 08/25/2011		OZ-STACK 09/15/2011		OZ-STACK 10/25/2011	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	1.28 U	0.000401 U	**0.185 J**	**0.000058 J**	0.639 U	0.0002 U	**0.259 J**	**0.000081 J**	1.28 U	0.000401 U
Toluene	21	**1.71**	**0.000454**	**1.72**	**0.000456**	**0.448 J**	**0.000119 J**	**1.36**	**0.000361**	**0.927 J**	**0.000246 J**
Ethylbenzene	1.9	1.74 U	0.000401 U	**0.443 J**	**0.000102 J**	0.869 U	0.0002 U	**0.269 J**	**0.000062 J**	1.74 U	0.000401 U
m,p-Xylene	3.1	**2.00 J**	**0.000461 J**	**1.49 J**	**0.000343 J**	**0.704 J**	**0.000162 J**	**0.912 J**	**0.00021 J**	3.47 U	0.000799 U
o-Xylene	2.5	**0.643 J**	**0.000148 J**	**0.708 J**	**0.000163 J**	**0.339 J**	**0.000078 J**	**0.343 J**	**0.000079 J**	1.74 U	0.000401 U
Total BTEX (ppmv)	NE	NA	**0.001063**	NA	**0.001122**	NA	**0.000359**	NA	**0.000793**	NA	**0.000246**
Other VOCs											
Acetaldehyde	NE	**36.8**	**0.020426**	**24.1**	**0.013377**	**580**	**0.32193**	**142**	**0.078817**	**10.6**	**0.005884**
Acetone	58	16.0 U	0.006736 U	**39.2**	**0.016502**	**12.4 J**	**0.00522 J**	**8**	**0.003368**	**9.48**	**0.003991**
Acrolein (propenal)	NE	**0.555 J**	**0.000242 J**	**0.399 J**	**0.000174 J**	**0.851 J**	**0.000371 J**	**0.708 J**	**0.000309 J**	2.29 U	0.000999 U
Allyl chloride (Chloropropene,3-)	NE	1.25 U	0.000399 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	1.25 U	0.000399 U
Benzothiophene	NE	5.49 U	0.001 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	5.49 U	0.001 U
Bromodichloromethane	NE	2.68 U	0.000401 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	2.68 U	0.000401 U
Bromoform	NE	4.14 U	0.0004 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	4.14 U	0.0004 U
Bromomethane	0.9	1.55 U	0.000399 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	1.55 U	0.000399 U
1,3-Butadiene	NE	0.885 U	0.0004 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.885 U	0.0004 U
Butane	NE	**1.33**	**0.00056**	**1.14**	**0.00048**	**0.799**	**0.000336**	**0.896**	**0.000377**	**1.15**	**0.000484**
2-Butanone (Methyl ethyl ketone)	17	**2.22**	**0.000753**	**3.42**	**0.00116**	**2.72**	**0.000922**	**4.28**	**0.001451**	**0.661 J**	**0.000224 J**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	1.21 U	0.000399 U	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	1.21 U	0.000399 U
Carbon disulfide	NE	**2.19**	**0.000703**	**2.66**	**0.000854**	**1.60**	**0.000514**	**1.89**	**0.000607**	**0.424 J**	**0.000136 J**
Carbon tetrachloride	1	2.52 U	0.000401 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	2.52 U	0.000401 U
Chlorobenzene	<0.25	1.84 U	0.0004 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	1.84 U	0.0004 U
Chloroethane	0.4	1.06 U	0.000402 U	**1.07**	**0.000405**	**0.354 J**	**0.000134 J**	0.528 U	0.0002 U	1.06 U	0.000402 U
Chloroform	0.5	1.95 U	0.000399 U	**0.259 J**	**0.000053 J**	**0.249 J**	**0.000051 J**	0.977 U	0.0002 U	1.95 U	0.000399 U
Chloromethane	4.6	**1.68**	**0.000814**	0.413 U	0.0002 U	**1.20**	**0.000581**	**1.2**	**0.000581**	**1.25**	**0.000605**
2-Chlorotoluene	NE	2.07 U	0.0004 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	2.07 U	0.0004 U
Cryofluorane (Freon-114)	1.3	2.80 U	0.000401 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.4 U	0.0002 U	2.8 U	0.000401 U
Cyclohexane	3	1.38 U	0.000401 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	1.38 U	0.000401 U
n-Decane	3.6	**0.978 J**	**0.000168 J**	**1.51**	**0.000259**	**0.786 J**	**0.000135 J**	**0.576 J**	**0.000099 J**	2.33 U	0.0004 U
Dibromochloromethane	NE	3.41 U	0.0004 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.7 U	0.0002 U	3.41 U	0.0004 U
1,2-Dibromoethane	<0.25	3.07 U	0.0004 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	3.07 U	0.0004 U
1,2-Dichlorobenzene	0.9	2.40 U	0.000399 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U
1,3-Dichlorobenzene	0.7	2.40 U	0.000399 U	**0.469 J**	**0.000078 J**	1.20 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U
1,4-Dichlorobenzene	0.8	2.40 U	0.000399 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.2 U	0.0002 U	2.4 U	0.000399 U
Dichlorodifluoromethane	11	**2.54**	**0.000514**	**2.83**	**0.000572**	**2.68**	**0.000542**	**2.31**	**0.000467**	**2.36**	**0.000477**
1,1-Dichloroethane	<0.25	1.62 U	0.0004 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U
1,2-Dichloroethane	<0.25	1.62 U	0.0004 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U
1,1-Dichloroethene	<0.25	1.58 U	0.000398 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U
cis-1,2-Dichloroethene	<0.25	1.58 U	0.000399 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U
trans-1,2-Dichloroethene	NE	1.58 U	0.000399 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000398 U
1,2-Dichloropropane	<0.25	1.85 U	0.0004 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	1.85 U	0.0004 U
cis-1,3-Dichloropropene	<0.25	1.82 U	0.000401 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U
trans-1,3-Dichloropropene	<0.25	1.82 U	0.000401 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U
1,4-Dioxane	NE	1.44 UJ	0.0004 UJ	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 UJ	0.0002 UJ	1.44 U	0.0004 U
n-Dodecane	7.6	**2.05 J**	**0.000294 J**	**1.84**	**0.000264**	**1.76 J**	**0.000253 J**	**2.2 J**	**0.000316 J**	6.96 U	0.000999 U
Ethanol	220	**26.2**	**0.013905**	**6.39**	**0.003391**	**13900**	**7.376926**	**4180**	**2.218385**	**3.9**	**0.00207**
2-Ethylthiophene	NE	1.84 U	0.000401 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	1.84 U	0.000401 U
p-Ethyltoluene	NE	1.97 U	0.000401 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U
n-Heptane	5.1	1.64 U	0.0004 U	**0.574 J**	**0.00014 J**	**0.774 J**	**0.000189 J**	**0.414 J**	**0.000101 J**	1.64 U	0.0004 U
Hexachlorobutadiene	7	4.27 U	0.0004 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	4.27 U	0.0004 U
n-Hexane	3.6	**0.768 J**	**0.000218 J**	**0.296 J**	**0.000084 J**	0.705 U	0.0002 U	0.705 U	0.0002 U	1.41 U	0.0004 U

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-STACK		OZ-STACK		OZ-STACK		OZ-STACK		OZ-STACK	
Sample Date:		6/22/2011		07/26/2011		08/25/2011		09/15/2011		10/25/2011	
Result Unit:	($\mu g/m^3$)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)	($\mu g/m^3$)	(ppmv)
2-Hexanone	NE	1.64 U	0.0004 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.82 U	0.0002 U	1.64 U	0.0004 U
Indane	NE	1.93 U	0.000399 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	1.93 U	0.000399 U
Indene	NE	1.90 U	0.0004 U	0.950 U	0.0002 U	0.950 U	0.0002 U	0.95 U	0.0002 U	1.9 U	0.0004 U
Methyl tert-butyl ether	5.9	1.44 U	0.000399 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	1.44 U	0.000399 U
4-Methyl-2-pentanone	2.9	1.64 U	0.0004 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.82 U	0.0002 U	1.64 U	0.0004 U
Methylene chloride	2.9	**4.03 J**	**0.00116 J**	**1.22 J**	**0.000351 J**	**3.11 J**	**0.000895 J**	**9.52**	**0.00274**	6.95 U	0.002001 U
1-Methylnaphthalene	NE	11.6 U	0.001995 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U
2-Methylnaphthalene	NE	11.6 U	0.001995 U	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U
2-Methylthiophene	NE	1.61 U	0.000401 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	1.61 U	0.000401 U
3-Methylthiophene	NE	1.61 U	0.000401 U	0.803 U	0.0002 U	**0.534 J**	**0.000133 J**	0.803 U	0.0002 U	1.61 U	0.000401 U
Naphthalene	10	2.10 U	0.000401 U	**0.409 J**	**0.000078 J**	1.05 U	0.0002 U	1.05 U	0.0002 U	2.1 U	0.000401 U
Nonane	1.2	2.10 U	0.0004 U	**0.451 J**	**0.000086 J**	**0.556 J**	**0.000106 J**	1.05 U	0.0002 U	2.1 U	0.0004 U
n-Octane	2.1	1.87 U	0.0004 U	**0.280 J**	**0.00006 J**	0.934 U	0.0002 U	0.934 U	0.0002 U	1.87 U	0.0004 U
Pentane	NE	**0.655 J**	**0.000222 J**	**0.422 J**	**0.000143 J**	0.590 U	0.0002 U	**0.31 J**	**0.000105 J**	1.18 U	0.0004 U
2-Propanol (Isopropyl Alcohol)	NE	2.46 U	0.001001 U	1.23 U	0.0005 U	**3.02 J**	**0.001229 J**	**2.83**	**0.001151**	2.46 U	0.001001 U
Styrene	0.6	1.70 U	0.000399 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	1.7 U	0.000399 U
1,1,2,2-Tetrachloroethane	<0.25	2.75 U	0.000401 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	2.75 U	0.000401 U
Tetrachloroethene	1.6	2.71 U	0.0004 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	2.71 U	0.0004 U
1,2,4,5-Tetramethylbenzene	NE	2.20 UJ	0.000401 UJ	1.10 U	0.0002 U	1.10 U	0.0002 U	1.1 UJ	0.0002 UJ	5.49 U	0.001 U
Thiophene	NE	1.38 U	0.000401 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	1.38 U	0.000401 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	3.06 U	0.000399 U	1.53 U	0.0002 U	1.53 U	0.0002 U	**0.498 J**	**0.000065 J**	3.06 U	0.000399 U
1,2,4-Trichlorobenzene	4.8	2.97 U	0.0004 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	2.97 U	0.0004 U
1,1,1-Trichloroethane	0.7	2.18 U	0.000399 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U
1,1,2-Trichloroethane	<0.25	2.18 U	0.000399 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U
Trichloroethene	0.5	2.15 U	0.0004 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	2.15 U	0.0004 U
Trichlorofluoromethane	6.1	**1.70 J**	**0.000303 J**	**2.02**	**0.00036**	**1.31**	**0.000233**	**1.67**	**0.000297**	**1.04 J**	**0.000185 J**
1,2,3-Trimethylbenzene	0.6	1.97 U	0.000401 U	**0.521 J**	**0.000106 J**	0.983 U	0.0002 U	**0.6 J**	**0.000122 J**	1.97 U	0.000401 U
1,2,4-Trimethylbenzene	2.5	**1.15 J**	**0.000234 J**	**1.57**	**0.000319**	**0.560 J**	**0.000114 J**	**1.19**	**0.000242**	1.97 U	0.000401 U
1,3,5-Trimethylbenzene	1	1.97 U	0.000401 U	**0.305 J**	**0.000062 J**	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U
2,2,4-Trimethylpentane	2	1.87 U	0.0004 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	1.87 U	0.0004 U
n-Undecane	2.3	**1.75 J**	**0.000274 J**	**3.41**	**0.000533**	**1.67**	**0.000261**	**1.16 J**	**0.000181 J**	2.56 U	0.0004 U
Vinyl bromide	NE	1.75 U	0.0004 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	1.75 U	0.0004 U
Vinyl chloride	<0.25	1.02 U	0.000399 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	1.02 U	0.000399 U
Total VOCs (ppmv)	NE	NA	**0.041853**	NA	**0.041013**	NA	**7.711434**	NA	**2.310574**	NA	**0.014302**

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-STACK 11/29/2011		OZ-STACK 12/15/2011		OZ-STACK 1/25/2012		OZ-STACK 3/5/2012		OZ-STACK 3/26/2012	
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
BTEX											
Benzene	5.8	0.639 U	0.0002 U	0.639 U	0.0002 U	**0.208 J**	**0.000065 J**	1.28 U	0.000401 U	**0.185 J**	**0.000058 J**
Toluene	21	**1.13**	**0.0003**	**0.392 J**	**0.000104 J**	**0.697 J**	**0.000185 J**	**0.814 J**	**0.000216 J**	**0.524 J**	**0.000139 J**
Ethylbenzene	1.9	**0.304 J**	**0.00007 J**	0.869 U	0.0002 U	0.869 U	0.0002 U	1.74 U	0.000401 U	0.869 U	0.0002 U
m,p-Xylene	3.1	**0.769 J**	**0.000177 J**	1.74 U	0.000401 U	1.74 U	0.000401 U	3.47 U	0.000799 U	1.74 U	0.000401 U
o-Xylene	2.5	**0.317 J**	**0.000073 J**	0.869 U	0.0002 U	0.869 U	0.0002 U	1.74 U	0.000401 U	0.869 U	0.0002 U
Total BTEX (ppmv)	NE	NA	**0.00062**	NA	**0.000104**	NA	**0.00025**	NA	**0.000216**	NA	**0.000197**
Other VOCs											
Acetaldehyde	NE	**7.96**	**0.004418**	**11.2**	**0.006217**	**5.98**	**0.003319**	**7.04 J**	**0.003908 J**	**7.58**	**0.004207**
Acetone	58	**8.79**	**0.0037**	**9.17**	**0.00386**	**3.54**	**0.00149**	**5.58**	**0.002349**	**5.01**	**0.002109**
Acrolein (propenal)	NE	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 UJ	0.000502 UJ	2.29 U	0.000999 U	1.15 U	0.000502 U
Allyl chloride (Chloropropene,3-)	NE	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	1.25 U	0.000399 U	0.626 U	0.0002 U
Benzothiophene	NE	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 UJ	0.000499 UJ	5.49 U	0.001 U	2.74 U	0.000499 U
Bromodichloromethane	NE	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	2.68 U	0.000401 U	1.34 U	0.0002 U
Bromoform	NE	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	4.14 U	0.0004 U	2.07 U	0.0002 U
Bromomethane	0.9	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	1.55 U	0.000399 U	0.777 U	0.0002 U
1,3-Butadiene	NE	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.885 U	0.0004 U	0.442 U	0.0002 U
Butane	NE	**3.28**	**0.00138**	**2.07**	**0.000871**	**1.99**	**0.000837**	**0.300 J**	**0.000126 J**	**1.44**	**0.000606**
2-Butanone (Methyl ethyl ketone)	17	**0.463 J**	**0.000157 J**	**0.755**	**0.000256**	**0.560 J**	**0.00019 J**	**1.00 J**	**0.000339 J**	**0.540 J**	**0.000183 J**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.606 U	0.0002 U	**0.355 J**	**0.000117 J**	0.606 U	0.0002 U	1.21 U	0.000399 U	0.606 U	0.0002 U
Carbon disulfide	NE	0.623 U	0.0002 U	**0.243 J**	**0.000078 J**	**0.143 J**	**0.000046 J**	**0.262 JB**	**0.000084 JB**	**0.246 J**	**0.000079 J**
Carbon tetrachloride	1	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	2.52 U	0.000401 U	1.26 U	0.0002 U
Chlorobenzene	<0.25	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	1.84 U	0.0004 U	0.921 U	0.0002 U
Chloroethane	0.4	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	1.06 U	0.000402 U	0.528 U	0.0002 U
Chloroform	0.5	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	1.95 U	0.000399 U	0.977 U	0.0002 U
Chloromethane	4.6	**0.865**	**0.000419**	**1.26**	**0.00061**	**0.799**	**0.000387**	**1.07**	**0.000518**	**1.18**	**0.000571**
2-Chlorotoluene	NE	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	2.07 U	0.0004 U	1.04 U	0.000201 U
Cryofluorane (Freon-114)	1.3	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	2.80 U	0.000401 U	1.40 U	0.0002 U
Cyclohexane	3	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	1.38 U	0.000401 U	0.688 U	0.0002 U
n-Decane	3.6	1.16 U	0.000199 U	**1.00 J**	**0.000172 J**	1.16 U	0.000199 U	2.33 U	0.0004 U	1.16 U	0.000199 U
Dibromochloromethane	NE	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	3.41 U	0.0004 U	1.70 U	0.0002 U
1,2-Dibromoethane	<0.25	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	3.07 U	0.0004 U	1.54 U	0.0002 U
1,2-Dichlorobenzene	0.9	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	2.40 U	0.000399 U	1.20 U	0.0002 U
1,3-Dichlorobenzene	0.7	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	2.40 U	0.000399 U	1.20 U	0.0002 U
1,4-Dichlorobenzene	0.8	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	2.40 U	0.000399 U	1.20 U	0.0002 U
Dichlorodifluoromethane	11	**1.94**	**0.000392**	**2.24**	**0.000453**	**2.10**	**0.000425**	**2.78**	**0.000562**	**1.91**	**0.000386**
1,1-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U	0.809 U	0.0002 U
1,2-Dichloroethane	<0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	1.62 U	0.0004 U	0.809 U	0.0002 U
1,1-Dichloroethene	<0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000398 U	0.793 U	0.0002 U
cis-1,2-Dichloroethene	<0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U	0.793 U	0.0002 U
trans-1,2-Dichloroethene	NE	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	1.58 U	0.000399 U	0.793 U	0.0002 U
1,2-Dichloropropane	<0.25	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	1.85 U	0.0004 U	0.924 U	0.0002 U
cis-1,3-Dichloropropene	<0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U	0.908 U	0.0002 U
trans-1,3-Dichloropropene	<0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	1.82 U	0.000401 U	0.908 U	0.0002 U
1,4-Dioxane	NE	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	1.44 U	0.0004 U	0.721 U	0.0002 U
n-Dodecane	7.6	1.39 U	0.0002 U	**0.926 J**	**0.000133 J**	1.39 U	0.0002 U	**1.85 J**	**0.000266 J**	3.48 U	0.0005 U
Ethanol	220	**13.5**	**0.007165**	**3.45**	**0.001831**	**1.72 J**	**0.000913 J**	**4.18**	**0.002218**	**2.24**	**0.001189**
2-Ethylthiophene	NE	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	1.84 U	0.000401 U	0.918 U	0.0002 U
p-Ethyltoluene	NE	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U	0.983 U	0.0002 U
n-Heptane	5.1	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	1.64 U	0.0004 U	0.820 U	0.0002 U
Hexachlorobutadiene	7	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	4.27 U	0.0004 U	2.13 U	0.0002 U
n-Hexane	3.6	0.705 U	0.0002 U	0.705 U	0.0002 U	0.705 U	0.0002 U	1.41 U	0.0004 U	0.705 U	0.0002 U

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OZ-STACK 11/29/2011		OZ-STACK 12/15/2011		OZ-STACK 1/25/2012		OZ-STACK 3/5/2012		OZ-STACK 3/26/2012	
Sample Date:											
Result Unit:	(µg/m^3)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)	(µg/m^3)	(ppmv)
2-Hexanone	NE	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	1.64 U	0.0004 U	0.820 U	0.0002 U
Indane	NE	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	1.93 U	0.000399 U	0.967 U	0.0002 U
Indene	NE	0.950 U	0.0002 U	0.950 U	0.0002 U	0.950 U	0.0002 U	1.90 U	0.0004 U	0.950 U	0.0002 U
Methyl tert-butyl ether	5.9	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	1.44 U	0.000399 U	0.721 U	0.0002 U
4-Methyl-2-pentanone	2.9	**0.426 J**	**0.000104 J**	0.820 U	0.0002 U	0.820 U	0.0002 U	1.64 U	0.0004 U	0.820 U	0.0002 U
Methylene chloride	2.9	**0.900 J**	**0.000259 J**	**1.02 J**	**0.000294 J**	3.47 U	0.000999 U	**2.32 J**	**0.000668 J**	3.47 U	0.000999 U
1-Methylnaphthalene	NE	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U	5.82 U	0.001001 U
2-Methylnaphthalene	NE	5.82 U	0.001001 U	5.82 U	0.001001 U	5.82 U	0.001001 U	11.6 U	0.001995 U	5.82 U	0.001001 U
2-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	1.61 U	0.000401 U	0.803 U	0.0002 U
3-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	1.61 U	0.000401 U	0.803 U	0.0002 U
Naphthalene	10	**0.414 J**	**0.000079 J**	1.05 U	0.0002 U	1.05 U	0.0002 U	2.10 U	0.000401 U	1.05 U	0.0002 U
Nonane	1.2	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	2.10 U	0.0004 U	1.05 U	0.0002 U
n-Octane	2.1	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	1.87 U	0.0004 U	0.934 U	0.0002 U
Pentane	NE	0.590 U	0.0002 U	0.590 U	0.0002 U	0.590 U	0.0002 U	1.18 U	0.0004 U	0.590 U	0.0002 U
2-Propanol (Isopropyl Alcohol)	NE	**1.75 J**	**0.000712 J**	1.23 U	0.0005 U	1.23 U	0.0005 U	2.46 U	0.001001 U	**0.307 J**	**0.000125 J**
Styrene	0.6	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	1.70 U	0.000399 U	0.852 U	0.0002 U
1,1,2,2-Tetrachloroethane	<0.25	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	2.75 U	0.000401 U	1.37 U	0.0002 U
Tetrachloroethene	1.6	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	2.71 U	0.0004 U	1.36 U	0.0002 U
1,2,4,5-Tetramethylbenzene	NE	1.10 U	0.0002 U	2.74 U	0.000499 U	1.10 UJ	0.0002 UJ	2.20 U	0.000401 U	2.74 U	0.000499 U
Thiophene	NE	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	1.38 U	0.000401 U	0.688 U	0.0002 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freor	3.6	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	3.06 U	0.000399 U	1.53 U	0.0002 U
1,2,4-Trichlorobenzene	4.8	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	2.97 U	0.0004 U	1.48 U	0.000199 U
1,1,1-Trichloroethane	0.7	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U	1.09 U	0.0002 U
1,1,2-Trichloroethane	<0.25	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	2.18 U	0.000399 U	1.09 U	0.0002 U
Trichloroethene	0.5	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	2.15 U	0.0004 U	1.07 U	0.000199 U
Trichlorofluoromethane	6.1	**1.11 J**	**0.000198 J**	**1.08 J**	**0.000192 J**	**0.933 J**	**0.000166 J**	2.25 U	0.0004 U	**0.753 J**	**0.000134 J**
1,2,3-Trimethylbenzene	0.6	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U	0.983 U	0.0002 U
1,2,4-Trimethylbenzene	2.5	**0.393 J**	**0.00008 J**	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U	0.983 U	0.0002 U
1,3,5-Trimethylbenzene	1	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	1.97 U	0.000401 U	0.983 U	0.0002 U
2,2,4-Trimethylpentane	2	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	1.87 U	0.0004 U	0.934 U	0.0002 U
n-Undecane	2.3	1.28 U	0.0002 U	1.28 U	0.0002 U	1.28 U	0.0002 U	2.56 U	0.0004 U	1.28 U	0.0002 U
Vinyl bromide	NE	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	1.75 U	0.0004 U	0.874 U	0.0002 U
Vinyl chloride	<0.25	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	1.02 U	0.000399 U	0.511 U	0.0002 U
Total VOCs (ppmv)	NE	NA	**0.019683**	NA	**0.015188**	NA	**0.008023**	NA	**0.011254**	NA	**0.009786**

Notes:

ppmv - parts per million by volume
$\mu g/m^3$ - micrograms per cubic meter
BTEX - benzene, toluene, ethylbenzene, and xylene
VOCs - volatile organic compounds
BTEX and Total VOCs are calculated using detects only.

[1] Source: New York State Department of Health (NYSDOH), October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within sampled homes in NYS, 1997-2003. Background values for naphthalene are from the NYSDOH 1997 Control Home Database presented in Table C3 of the NYSDOH 2006 Guidance.

Bolding indicates a detected result value

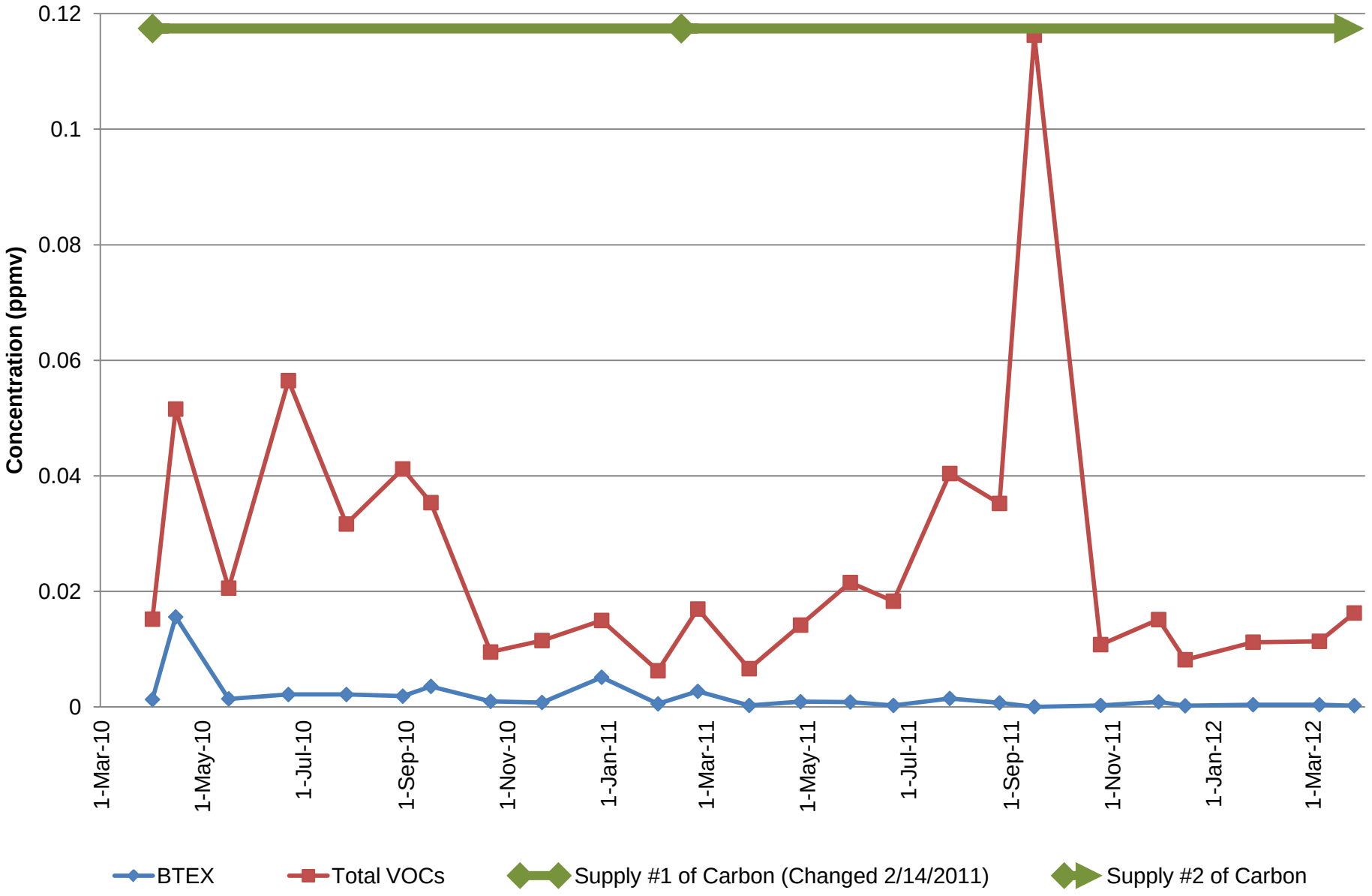
NA - not analyzed
NE - not established
ND - not detected

J - estimated value
U - indicates not detected to the reporting limit for organic analysis

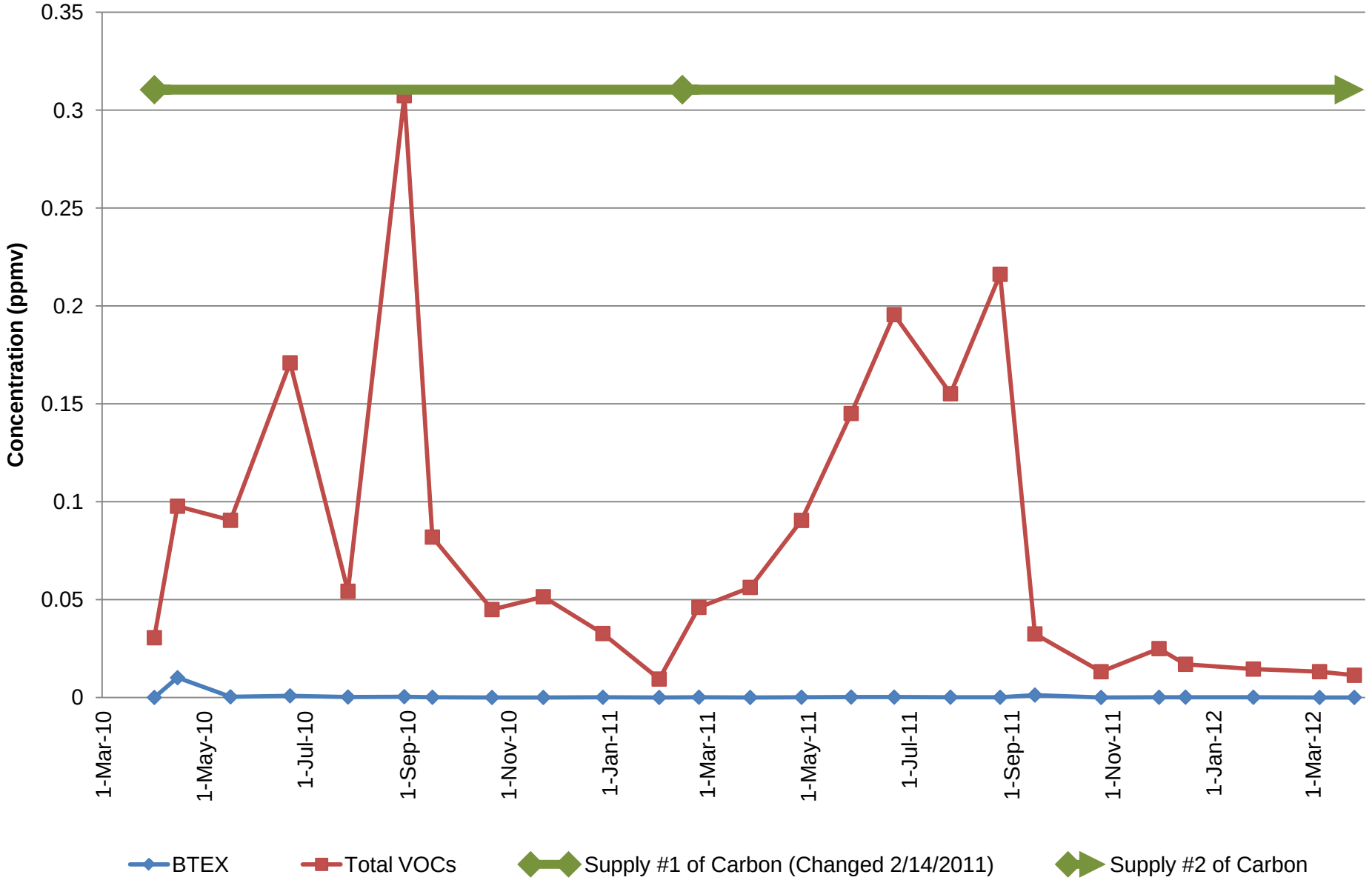
Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Figure A-1

OZ-PREGAC



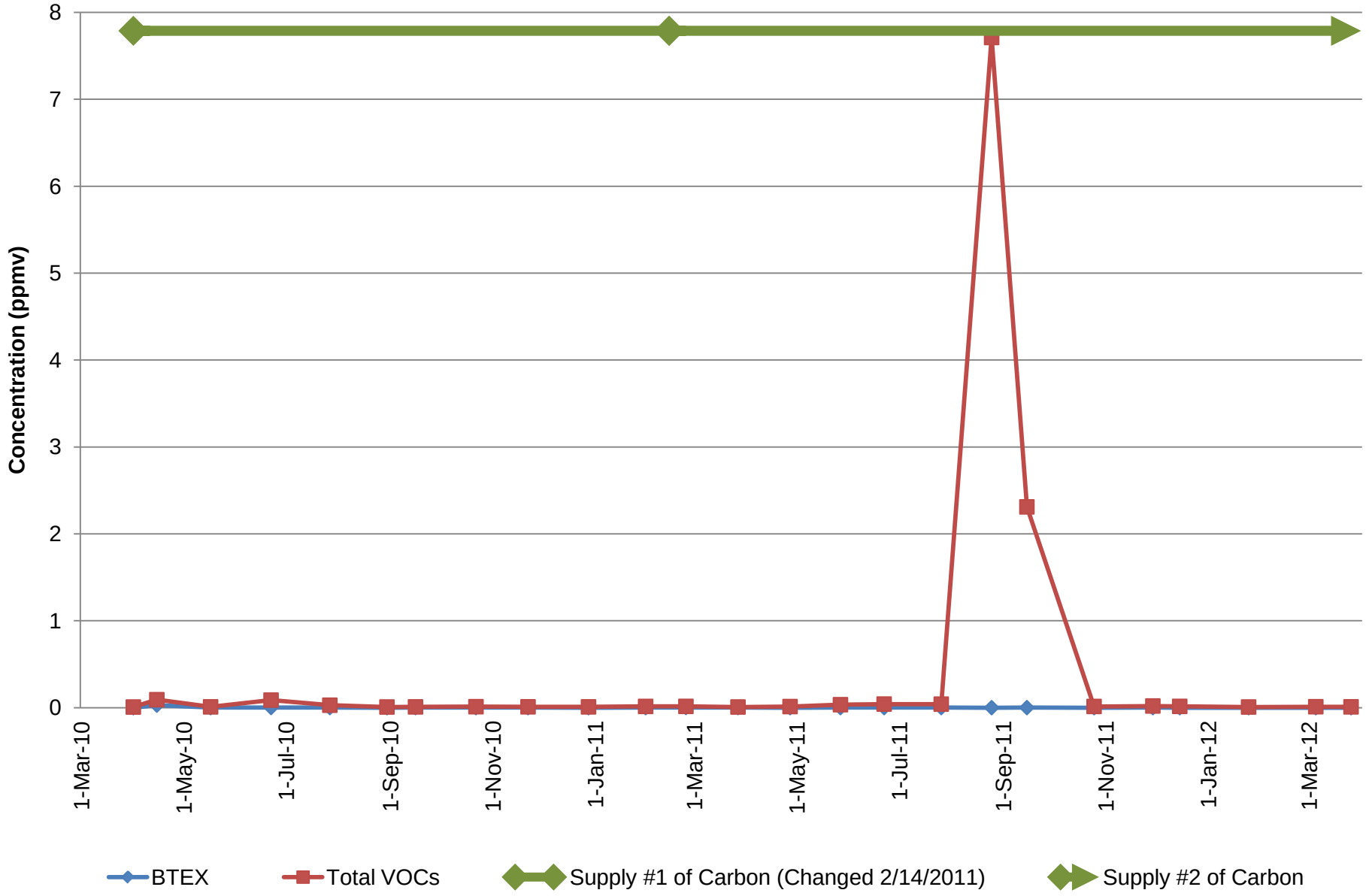
OZ-MGAC


Concentration (ppmv)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
BTEX
Total VOCs
Supply #1 of Carbon (Changed 2/14/2011)
Supply #2 of Carbon

Appendix A
Soil Vapor Extraction Effluent Analytical Data
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Figure A-3

OZ-STACK



Appendix B - Table B-1
Operational Data - OU-1 Union Boulevard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Weight of Oxygen Injected through Q4 2011: 186,464 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-12	28	5,255
Month 2	Feb-12	29	6,079
Month 3	Mar-12	30	5,441
Total Operational Days in Q1 2012			87
Total Oxygen in Q1 2012 (lbs)			16,774.37
Running Total for Oxygen to OU-1 Union Boulevard after Extension Completion Through Q1 2012 (lbs)			**203,238.04**

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 = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

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 3 starts injection at 700AM
Bank 3 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 4 starts injection at 800AM
Bank 4 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 5 starts injection at 900AM
Bank 5 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 6 starts injection at 1000AM
Bank 6 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 7 starts injection at 1100AM
Bank 7 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 8 starts injection at 1200PM
Bank 8 finishes injection at 12113M
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

Injection Banks 1 and 2 are not in operation.
The banks can be used for further expansion, if needed at a later date.

			1/11/2012						2/13/2012						3/14/2012					
	O_2%		90.0						92.8						91.6					
	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 3*	Point 1	41	24	31.858	27.610	14.0	28.7	0.125	32	42.477	36.814	14.0	28.7	0.172	28	37.168	32.212	14.0	28.7	0.149
	Point 4	26	20	22.273	19.303	5.5	20.2	0.062	34	37.863	32.815	5.5	20.2	0.108	20	21.995	19.063	5.0	19.7	0.060
	Point 5	41	22	28.690	24.864	13.0	27.7	0.109	34	44.339	38.427	13.0	27.7	0.174	22	28.690	24.864	13.0	27.7	0.111
	Point 8	26	32	36.936	32.011	7.0	21.7	0.110	30	34.226	29.662	6.5	21.2	0.103	26	30.010	26.009	7.0	21.7	0.091
	Point 9	41	26	33.906	29.385	13.0	27.7	0.129	30	39.122	33.906	13.0	27.7	0.153	26	33.906	29.385	13.0	27.7	0.131
	Point 12	26	24	27.702	24.008	7.0	21.7	0.082	36	41.553	36.012	7.0	21.7	0.128	22	25.099	21.752	6.5	21.2	0.074
	Point 13	41	30	39.822	34.513	14.0	28.7	0.157	30	39.822	34.513	14.0	28.7	0.162	30	39.822	34.513	14.0	28.7	0.160
	Point 16	25	28	33.055	28.648	8.0	22.7	0.103	32	37.777	32.740	8.0	22.7	0.121	30	35.416	30.694	8.0	22.7	0.112
	Total Oxygen Injected Per Day (lb)		**28.064**						**35.859**						**28.429**					
		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 4*	Point 2	26	22	25.099	21.752	6.5	21.2	0.073	32	36.508	31.640	6.5	21.2	0.109	28	31.565	27.356	6.0	20.7	0.091
	Point 3	41	24	31.014	26.879	12.5	27.2	0.116	34	44.339	38.427	13.0	27.7	0.174	26	33.599	29.119	12.5	27.2	0.128
	Point 6	26	28	36.514	31.646	13.0	27.7	0.139	32	41.731	36.167	13.0	27.7	0.163	28	36.514	31.646	13.0	27.7	0.141
	Point 7	41	26	30.354	26.307	7.5	22.2	0.092	32	37.359	32.378	7.5	22.2	0.117	26	30.354	26.307	7.5	22.2	0.094
	Point 10	26	30	35.416	30.694	8.0	22.7	0.110	30	35.416	30.694	8.0	22.7	0.114	30	35.416	30.694	8.0	22.7	0.112
	Point 11	41	26	34.513	29.911	14.0	28.7	0.136	34	45.132	39.114	14.0	28.7	0.183	30	39.822	34.513	14.0	28.7	0.160
	Point 14	26	24	28.333	24.555	8.0	22.7	0.088	34	40.138	34.786	8.0	22.7	0.129	28	32.689	28.330	7.5	22.2	0.101
	Point 15	41	32	42.477	36.814	14.0	28.7	0.167	30	39.822	34.513	14.0	28.7	0.162	30	39.822	34.513	14.0	28.7	0.160
	Total Oxygen Injected Per Day (lb)		**29.484**						**36.841**						**31.573**					
		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 5	Point 17	62	28	42.598	36.919	23.0	37.7	0.220	32	48.684	42.193	23.0	37.7	0.260	40	61.657	53.436	24.0	38.7	0.333
	Point 18	41	28	35.171	30.482	11.0	25.7	0.124	30	37.684	32.659	11.0	25.7	0.137	34	42.708	37.014	11.0	25.7	0.153
	Point 19	26	28	31.565	27.356	6.0	20.7	0.090	30	33.820	29.311	6.0	20.7	0.099	26	29.311	25.402	6.0	20.7	0.085
	Point 22	22	30	33.820	29.311	6.0	20.7	0.096	30	33.820	29.311	6.0	20.7	0.099	24	27.056	23.448	6.0	20.7	0.078
	Point 24	37	30	38.410	33.288	12.0	26.7	0.141	30	38.410	33.288	12.0	26.7	0.145	30	38.410	33.288	12.0	26.7	0.143
	Point 25	22	26	29.311	25.402	6.0	20.7	0.083	30	33.820	29.311	6.0	20.7	0.099	24	27.056	23.448	6.0	20.7	0.078
	Point 42	17	26	27.859	24.144	4.0	18.7	0.071	26	27.859	24.144	4.0	18.7	0.074	22	23.573	20.430	4.0	18.7	0.062
	Point 43	17	26	27.484	23.819	3.5	18.2	0.069	28	29.598	25.651	3.5	18.2	0.076	22	23.255	20.155	3.5	18.2	0.059
	Total Oxygen Injected Per Day (lb)		**28.602**						**31.630**						**31.717**					
		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 6	Point 20	61	32	48.034	41.629	22.0	36.7	0.242	30	45.032	39.028	22.0	36.7	0.234	30	45.032	39.028	22.0	36.7	0.231
	Point 26	57	32	46.707	40.479	20.0	34.7	0.222	30	43.788	37.949	20.0	34.7	0.215	34	49.982	43.318	20.5	35.2	0.246
	Point 27	37	30	37.684	32.659	11.0	25.7	0.133	28	35.171	30.482	11.0	25.7	0.128	26	32.659	28.305	11.0	25.7	0.117
	Point 28	22	30	33.820	29.311	6.0	20.7	0.096	30	33.820	29.311	6.0	20.7	0.099	26	28.954	25.094	5.5	20.2	0.082
	Point 30	22	32	35.636	30.885	5.5	20.2	0.099	32	35.636	30.885	5.5	20.2	0.102	30	33.409	28.954	5.5	20.2	0.094
	Point 32	22	30	32.993	28.594	5.0	19.7	0.089	30	32.993	28.594	5.0	19.7	0.092	22	24.195	20.969	5.0	19.7	0.067
	Point 40	17	32	33.826	29.316	3.5	18.2	0.084	32	33.826	29.316	3.5	18.2	0.087	22	23.573	20.430	4.0	18.7	0.062
	Point 41	17	32	34.287	29.716	4.0	18.7	0.088	34	36.430	31.573	4.0	18.7	0.096	22	23.573	20.430	4.0	18.7	0.062
	Total Oxygen Injected Per Day (lb)		**33.702**						**33.683**						**30.686**					
		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 7	Point 21	37	26	33.288	28.850	12.0	26.7	0.122	30	38.410	33.288	12.0	26.7	0.145	30	38.410	33.288	12.0	26.7	0.143
	Point 31	22	30	33.820	29.311	6.0	20.7	0.096	32	36.074	31.265	6.0	20.7	0.106	26	29.311	25.402	6.0	20.7	0.085
	Point 33	22	32	36.074	31.265	6.0	20.7	0.102	34	38.329	33.219	6.0	20.7	0.112	28	31.565	27.356	6.0	20.7	0.091
	Point 34	22	30	33.409	28.954	5.5	20.2	0.093	32	35.636	30.885	5.5	20.2	0.102	30	32.993	28.594	5.0	19.7	0.091
	Point 35	22	32	36.074	31.265	6.0	20.7	0.102	30	33.820	29.311	6.0	20.7	0.099	26	29.311	25.402	6.0	20.7	0.085
	Point 36	22	32	36.074	31.265	6.0	20.7	0.102	30	33.820	29.311	6.0	20.7	0.099	28	31.565	27.356	6.0	20.7	0.091
	Point 36a	62	32	48.684	42.193	23.0	37.7	0.252	32	48.684	42.193	23.0	37.7	0.260	26	39.556	34.282	23.0	37.7	0.208
	Point 36b	41	32	42.846	37.133	14.5	29.2	0.172	32	42.477	36.814	14.0	28.7	0.172	32	42.477	36.814	14.0	28.7	0.170
	Total Oxygen Injected Per Day (lb)		**33.315**						**35.029**						**30.850**					
		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 8	Point 23	56	32	47.706	41.345	21.5	36.2	0.237	32	47.706	41.345	21.5	36.2	0.244	28	41.742	36.177	21.5	36.2	0.211
	Point 29	34	28	35.171	30.482	11.0	25.7	0.124	28	35.171	30.482	11.0	25.7	0.128	24	30.147	26.127	11.0	25.7	0.108
	Point 37	22	30	34.627	30.010	7.0	21.7	0.103	34	39.244	34.012	7.0	21.7	0.120	20	23.085	20.007	7.0	21.7	0.070
	Point 37a	62	30	46.836	40.591	25.0	39.7	0.255	30	46.836	40.591	25.0	39.7	0.263	24	37.469	32.473	25.0	39.7	0.208
	Point 37b	41	30	39.822	34.513	14.0	28.7	0.157	32	42.477	36.814	14.0	28.7	0.172	26	34.513	29.911	14.0	28.7	0.138
	Point 38	22	34	38.789	33.617	6.5	21.2	0.113	38	43.353	37.572	6.5	21.2	0.130	20	22.547	19.540	6.0	20.7	0.065
	Point 39	17	34	35.940	31.148	3.5	18.2	0.090	32	33.546	29.073	3.2	17.9	0.085	28	30.002	26.001	4.0	18.7	0.078
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**34.502**						**36.569**						**28.109**					
	System Total Per Day (lb)		**187.67**						**209.61**						**181.36**					

Appendix B - Table B-2
Operational Data - 66 North Clinton Avenue Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Total Weight of Oxygen Injected through Q4 2011	131,885	lbs
Weight of Oxygen Injected through Q4 2011 (OU-1)	62,972	lbs
Weight of Oxygen Injected through Q4 2011 (OU-3)	68,914	lbs

Oxygen to OU-1 (60/66 N. Clinton)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-12	23	2,599
Month 2	Feb-12	24	2,792
Month 3	Mar-12	0	0
Total Operational Days In Jan and Feb 2012			47
Total Oxygen in OU-1 in Jan and Feb 2012 (lbs)			5,390.98
Running Total for Oxygen to OU-1 Through Feb 2012 (lbs)			68,362.57

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-12	23	3,593
Month 2	Feb-12	24	3,559
Month 3	Mar-12	0	0
Total Operational Days In Jan and Feb 2012			47
Total Oxygen in OU-3 in Jan and Feb 2012 (lbs)			7,152.83
Running Total for Oxygen to OU-3 Through Feb 2012 (lbs)			76,066.73

Running Total for Oxygen System (OU-1 and OU-3) Through Feb 2012 (lbs)	**144,429.31**

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 = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (0.73)
NA* - System Not Operational

The Brightwaters System was abandoned in June of 2009 in support of the OU-3 LIRR Track Relocation.

System Operating Specs
Total of 5 injection banks
Oxygen is injected for 16 minutes during each injection cycle
Each Injection bank operates for 4.8 injection cycles per day
Each injection point injects oxygen for 76.8 min per day (16 min per cycle * 4.8 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 716AM
System is recharging 716AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 816AM
System is recharging 816AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 916AM
System is recharging from 916AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 Finishes injection at 1016AM
System is recharging from 1016AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1116AM
System is recharging from 1116AM to 1200PM
(Keep repeating cycle for course of day)

		1/9/2012	2/14/2012
	O_2%	92.3	90.1
	R	10.73	10.73
	Temp R (T)	530	530

Oxygen Going to OU-1 (60/66 N. Clinton)

		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
Injection Bank 1	Point 1A	25	30	35.416	45.332	8.0	22.7	0.167	32	37.777	48.355	8.0	22.7	0.174
	Point 1B	35	30	37.684	48.235	11.0	25.7	0.201	30	37.684	48.235	11.0	25.7	0.196
	Point 2A	25	30	35.416	45.332	8.0	22.7	0.167	30	35.416	45.332	8.0	22.7	0.163
	Point 2B	35	30	38.768	49.623	12.5	27.2	0.219	30	38.768	49.623	12.5	27.2	0.214
	Point 3A	25	30	34.627	44.323	7.0	21.7	0.156	30	34.627	44.323	7.0	21.7	0.152
	Point 3B	35	30	38.768	49.623	12.5	27.2	0.219	30	38.768	49.623	12.5	27.2	0.214
	Point 4A	25	30	35.804	45.829	8.5	23.2	0.173	30	35.804	45.829	8.5	23.2	0.168
	Point 4B	35	30	39.122	50.077	13.0	27.7	0.225	30	39.122	50.077	13.0	27.7	0.220
	Point 5A	25	30	36.188	46.320	9.0	23.7	0.178	30	36.188	46.320	9.0	23.7	0.174
	Point 5B	35	30	39.122	50.077	13.0	27.7	0.225	30	39.122	50.077	13.0	27.7	0.220
	Total Oxygen Injected Per Day (lb)		**61.775**						**60.651**					
Injection Bank 2	Point 6	25	28	34.480	44.135	10.0	24.7	0.177	32	39.406	50.440	10.0	24.7	0.197
	Point 7	25	28	33.417	42.774	8.5	23.2	0.161	36	42.965	54.995	8.5	23.2	0.202
	Point 8	25	30	36.567	46.806	9.5	24.2	0.184	32	39.005	49.927	9.5	24.2	0.191
	Point 9	25	28	33.417	42.774	8.5	23.2	0.161	32	38.191	48.884	8.5	23.2	0.180
	Point 10	25	30	36.567	46.806	9.5	24.2	0.184	32	39.005	49.927	9.5	24.2	0.191
	Point 11	25	28	34.480	44.135	10.0	24.7	0.177	32	39.406	50.440	10.0	24.7	0.197
	Point 12	25	30	36.567	46.806	9.5	24.2	0.184	32	39.005	49.927	9.5	24.2	0.191
	Point 13	25	30	36.188	46.320	9.0	23.7	0.178	32	38.600	49.408	9.0	23.7	0.186
	Point 14	25	30	37.315	47.764	10.5	25.2	0.195	32	39.803	50.948	10.5	25.2	0.203
	Total Oxygen Injected Per Day (lb)		**51.233**						**55.674**					
	System Total Per Day (lb)		**113.01**						**116.32**					

Oxygen Going to OU-3 (Community Road)

		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
Injection Bank 2	Point 15	21	30	35.416	45.332	8.0	22.7	0.167	32	37.777	48.355	8.0	22.7	0.174
	Total Oxygen Injected Per Day (lb)		**5.345**						**5.565**					
Injection Bank 3	Point 16	21	32	37.777	48.355	8.0	22.7	0.178	30	35.416	45.332	8.0	22.7	0.163
	Point 17	21	32	38.191	48.884	8.5	23.2	0.184	24	28.643	36.663	8.5	23.2	0.135
	Point 18	21	32	37.359	47.819	7.5	22.2	0.172	24	28.019	35.864	7.5	22.2	0.126
	Point 19A	16	42	46.772	59.869	5.5	20.2	0.196	36	40.091	51.316	5.5	20.2	0.164
	Point 19B	27	28	35.171	45.019	11.0	25.7	0.188	26	32.659	41.804	11.0	25.7	0.170
	Point 20A	16	42	48.478	62.052	7.0	21.7	0.219	36	41.553	53.187	7.0	21.7	0.183
	Point 20B	27	28	34.828	44.579	10.5	25.2	0.182	26	32.340	41.395	10.5	25.2	0.165
	Point 21A	16	40	45.093	57.719	6.0	20.7	0.194	36	40.584	51.947	6.0	20.7	0.170
	Point 21B	27	30	37.684	48.235	11.0	25.7	0.201	22	27.635	35.372	11.0	25.7	0.144
	Point 22A	16	38	43.353	55.491	6.5	21.2	0.191	36	41.071	52.571	6.5	21.2	0.177
	Total Oxygen Injected Per Day (lb)		**60.976**						**51.120**					
Injection Bank 4	Point 22B	27	26	32.975	42.208	11.5	26.2	0.179	28	35.512	45.455	11.5	26.2	0.189
	Point 23A	16	36	40.584	51.947	6.0	20.7	0.175	38	42.838	54.833	6.0	20.7	0.180
	Point 23B	27	26	32.659	41.804	11.0	25.7	0.174	30	37.684	48.235	11.0	25.7	0.196
	Point 24B	27	26	32.659	41.804	11.0	25.7	0.174	28	35.171	45.019	11.0	25.7	0.183
	Point 24A	16	36	40.584	51.947	6.0	20.7	0.175	40	45.093	57.719	6.0	20.7	0.189
	Point 25B	27	28	35.171	45.019	11.0	25.7	0.188	38	41.791	53.492	5.0	19.7	0.167
	Point 25A	16	36	41.553	53.187	7.0	21.7	0.187	40	46.169	59.097	7.0	21.7	0.203
	Point 26B	27	26	32.340	41.395	10.5	25.2	0.169	32	39.803	50.948	10.5	25.2	0.203
	Point 26A	16	38	43.861	56.142	7.0	21.7	0.198	40	46.169	59.097	7.0	21.7	0.203
	Point 27A	16	38	42.838	54.833	6.0	20.7	0.184	38	42.838	54.833	6.0	20.7	0.180
	Total Oxygen Injected Per Day (lb)		**57.717**						**60.610**					
Injection Bank 5	Point 27B	27	30	37.684	48.235	11.0	25.7	0.201	28	35.171	45.019	11.0	25.7	0.183
	Point 28A	16	38	43.353	55.491	6.5	21.2	0.191	38	43.353	55.491	6.5	21.2	0.186
	Point 28B	27	28	34.480	44.135	10.0	24.7	0.177	28	34.480	44.135	10.0	24.7	0.173
	Point 29	21	38	45.352	58.050	8.5	23.2	0.219	38	45.352	58.050	8.5	23.2	0.213
	Point 30	21	38	45.352	58.050	8.5	23.2	0.219	38	45.352	58.050	8.5	23.2	0.213
	Point 31	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 32	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**32.199**						**31.013**					
	System Total Per Day (lb)		**156.24**						**148.31**					

Appendix B - Table B-2
Operational Data - 66 North Clinton Avenue Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Total Weight of Oxygen Injected through Feb 2012	144,429	lbs
Weight of Oxygen Injected through Feb 2012 (OU-1)	68,363	lbs
Weight of Oxygen Injected through Feb 2012 (OU-3)	76,067	lbs

Oxygen to OU-1 (60/66 N. Clinton)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-12	0	0
Month 2	Feb-12	0	0
Month 3	Mar-12	23	2,757
Total Operational Days In March 2012			23
Total Oxygen in OU-1 in March 2012 (lbs)			2,756.70
Running Total for Oxygen to OU-1 Through Q1 2012 (lbs)			71,119.27

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-12	0	0
Month 2	Feb-12	0	0
Month 3	Mar-12	23	4,301
Total Operational Days In March 2012			23
Total Oxygen in OU-3 in March 2012 (lbs)			4,300.99
Running Total for Oxygen to OU-3 Through Q1 2012 (lbs)			80,367.72

Running Total for Oxygen System (OU-1 and OU-3) Through Q1 2012 (lbs)	**151,486.99**

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 = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (0.73)
NA* - System Not Operational

The Brightwaters System was abandoned in June of 2009 in support of the OU-3 LIRR Track Relocation.

System Operating Specs
The 60/66 N Clinton injection line was reconfigured beginning on March 3, and began operation on March 9, 2012.
Total of 5 injection banks
Banks 1 & 2: Oxygen is injected for 8 minutes during each injection cycle
Each Injection bank operates for 9.6 injection cycles per day
Each injection point injects oxygen for 76.8 min per day (8 min per cycle * 9.6 cycles)
Banks 3, 4 & 5: Oxygen is injected for 10 minutes during each injection cycle
Each Injection bank operates for 9.6 injection cycles per day
Each injection point injects oxygen for 96 min per day (10 min per cycle * 9.6 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 708AM
System is recharging 708AM to 730AM
Bank 2 starts injection at 730AM
Bank 2 finishes injection at 738AM
System is recharging 738AM to 800AM
Bank 3 starts injection at 800AM
Bank 3 finishes injection at 810AM
System is recharging from 910AM to 930AM
Bank 4 starts injection at 930AM
Bank 4 Finishes injection at 940AM
System is recharging from 940AM to 1000AM
Bank 5 starts injection at 1000AM
Bank 5 finishes injection at 1010AM
System is recharging from 1010AM to 1030PM
(Keep repeating cycle for course of day)

	3/15/2012
O_2%	94.3
R	10.73
Temp R (T)	530

Oxygen Going to OU-1 (60/66 N. Clinton)

		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	25	30	35.416	45.332	8.0	22.7	0.171
	Point 1B	35	30	37.684	48.235	11.0	25.7	0.206
	Point 2A	25	30	35.416	45.332	8.0	22.7	0.171
	Point 2B	35	30	38.768	49.623	12.5	27.2	0.224
	Point 3A	25	30	34.627	44.323	7.0	21.7	0.159
	Point 3B	35	30	38.768	49.623	12.5	27.2	0.224
	Point 4A	25	30	35.804	45.829	8.5	23.2	0.176
	Point 4B	35	32	41.731	53.415	13.0	27.7	0.245
	Point 5A	25	30	36.188	46.320	9.0	23.7	0.182
	Point 5B	35	32	41.731	53.415	13.0	27.7	0.245
Total Oxygen Injected Per Day (lb)			**64.095**					
Injection Bank 2	Point 6	25	32	39.406	50.440	10.0	24.7	0.207
	Point 7	25	30	35.804	45.829	8.5	23.2	0.176
	Point 8	25	30	36.567	46.806	9.5	24.2	0.188
	Point 9	25	30	35.804	45.829	8.5	23.2	0.176
	Point 10	25	30	36.567	46.806	9.5	24.2	0.188
	Point 11	25	32	39.406	50.440	10.0	24.7	0.207
	Point 12	25	32	39.005	49.927	9.5	24.2	0.200
	Point 13	25	32	38.600	49.408	9.0	23.7	0.194
	Point 14	25	32	39.406	50.440	10.0	24.7	0.207
Total Oxygen Injected Per Day (lb)			**55.761**					
System Total Per Day (lb)			**119.86**					

Oxygen Going to OU-3 (Community Road)

		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 15	21	30	35.416	45.332	8.0	22.7	0.171
Total Oxygen Injected Per Day (lb)			**5.460**					
Injection Bank 3	Point 16	21	28	31.944	51.111	6.5	21.2	0.180
	Point 17	21	28	33.417	53.467	8.5	23.2	0.206
	Point 18	21	28	32.689	52.302	7.5	22.2	0.193
	Point 19A	16	28	31.182	49.891	5.5	20.2	0.167
	Point 19B	27	26	32.659	52.255	11.0	25.7	0.223
	Point 20A	16	26	30.010	48.016	7.0	21.7	0.173
	Point 20B	27	28	34.828	55.724	10.5	25.2	0.233
	Point 21A	16	28	31.565	50.504	6.0	20.7	0.173
	Point 21B	27	28	26.600	42.560	0.0	14.7	0.104
	Point 22A	16	30	34.226	54.761	6.5	21.2	0.193
Total Oxygen Injected Per Day (lb)			**58.974**					
Injection Bank 4	Point 22B	27	32	40.585	64.936	11.5	26.2	0.282
	Point 23A	16	30	33.820	54.112	6.0	20.7	0.186
	Point 23B	27	30	38.410	61.456	12.0	26.7	0.272
	Point 24B	27	32	41.352	66.164	12.5	27.2	0.298
	Point 24A	16	30	33.820	54.112	6.0	20.7	0.186
	Point 23C	27	40	43.429	69.486	4.5	19.2	0.221
	Point 25A	16	32	36.936	59.097	7.0	21.7	0.213
	Point 31A	21	40	42.859	68.575	4.0	18.7	0.213
	Point 32B	21	40	47.739	76.382	8.5	23.2	0.294
	Point 33B	21	32	34.287	54.860	4.0	18.7	0.170
Total Oxygen Injected Per Day (lb)			**74.706**					
Injection Bank 5	Point 27B	27	32	40.196	64.313	11.0	25.7	0.274
	Point 28A	16	32	36.508	58.412	6.5	21.2	0.205
	Point 28B	27	30	36.943	59.109	10.0	24.7	0.242
	Point 29	21	30	35.804	57.286	8.5	23.2	0.220
	Point 30	21	32	38.191	61.105	8.5	23.2	0.235
	Point 31B	33	20	26.082	41.731	13.0	27.7	0.192
	Point 32A	11	0	0.000	0.000	4.0	18.7	0.000
	Point 32C	33	0	0.000	0.000	13.0	27.7	0.000
	Point 33A	11	0	0.000	0.000	7.5	22.2	0.000
	Point 33C	33	14	17.925	28.679	12.0	26.7	0.127
Total Oxygen Injected Per Day (lb)			**47.860**					
System Total Per Day (lb)			**187.00**					

Appendix C - Table C-1
Operational Data - Garner Lane Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Weight of Oxygen Injected through Q4 2011: 603,354 lbs

Oxygen to OU-2 - Garner Lane

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-12	31	9,317
Month 2	Feb-12	29	8,590
Month 3	Mar-12	22	6,576
Total Operational Days in Q2 2012			82
Total Oxygen in Q1 2012 (lbs)			24,482.34
Running Total for Oxygen to Garner Lane Through Q1 2012 (lbs)			**627,836.00**

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 = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 16 minutes during each injection cycle
Each injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 64 min per day (16 min per cycle * 4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 716AM
System is recharging 716AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 816AM
System is recharging 816AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 916AM
System is recharging from 916AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1016AM
System is recharging from 1016AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1116AM
System is recharging from 1116AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1216PM
System is recharging from 1216PM to 100PM
(Keep repeating cycle for course of day)

			1/19/2012						2/15/2012						3/23/2012					
	O_2%		87.1						86.9						83.9					
	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
MID PLUME Injection Bank 1	Point 1	25	28	33.775	36.027	9.0	23.7	0.131	26	31.363	33.453	9.0	23.7	0.121	26	31.363	33.453	9.0	23.7	0.117
	Point 2	25	26	30.354	32.378	7.5	22.2	0.110	26	30.354	32.378	7.5	22.2	0.110	26	30.354	32.378	7.5	22.2	0.106
	Point 3	25	26	30.354	32.378	7.5	22.2	0.110	26	30.354	32.378	7.5	22.2	0.110	26	30.354	32.378	7.5	22.2	0.106
	Point 4	25	26	30.010	32.011	7.0	21.7	0.106	26	30.010	32.011	7.0	21.7	0.106	26	30.010	32.011	7.0	21.7	0.102
	Point 5	25	26	30.354	32.378	7.5	22.2	0.110	26	30.010	32.011	7.0	21.7	0.106	26	30.354	32.378	7.5	22.2	0.106
	Point 6	25	26	30.694	32.740	8.0	22.7	0.114	26	30.694	32.740	8.0	22.7	0.114	24	28.333	30.222	8.0	22.7	0.101
	Point 7	25	26	30.010	32.011	7.0	21.7	0.106	26	30.010	32.011	7.0	21.7	0.106	26	30.010	32.011	7.0	21.7	0.102
	Point 8	25	26	30.354	32.378	7.5	22.2	0.110	26	30.354	32.378	7.5	22.2	0.110	24	28.019	29.887	7.5	22.2	0.098
	Point 9	50	32	46.029	49.097	19.0	33.7	0.253	34	48.906	52.166	19.0	33.7	0.269	30	43.152	46.029	19.0	33.7	0.229
	Point 10	25	24	28.019	29.887	7.5	22.2	0.102	24	27.702	29.548	7.0	21.7	0.098	24	26.727	28.509	5.5	20.2	0.085
	Total Oxygen Injected Per Day (lb)		**40.088**						**39.977**						**36.895**					
		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
MID PLUME Injection Bank 2	Point 11	25	22	25.972	27.703	8.0	22.7	0.096	22	25.684	27.396	7.5	22.2	0.093	22	25.684	27.396	7.5	22.2	0.090
	Point 12	50	32	46.369	49.460	19.5	34.2	0.259	34	48.906	52.166	19.0	33.7	0.269	32	45.686	48.732	18.5	33.2	0.239
	Point 13	25	22	25.684	27.396	7.5	22.2	0.093	20	23.085	24.624	7.0	21.7	0.082	18	21.014	22.415	7.5	22.2	0.073
	Point 14	68	34	54.402	58.028	27.0	41.7	0.371	26	41.099	43.839	26.0	40.7	0.273	60	96.003	102.403	27.0	41.7	0.630
	Point 15	25	20	23.611	25.185	8.0	22.7	0.088	22	25.972	27.703	8.0	22.7	0.096	18	21.250	22.666	8.0	22.7	0.076
	Point 16	50	28	40.275	42.960	19.0	33.7	0.222	32	46.029	49.097	19.0	33.7	0.253	34	48.906	52.166	19.0	33.7	0.259
	Point 17	25	20	23.611	25.185	8.0	22.7	0.088	20	23.611	25.185	8.0	22.7	0.087	20	23.611	25.185	8.0	22.7	0.084
	Point 18	66	38	60.802	64.855	27.0	41.7	0.414	30	47.422	50.584	26.0	40.7	0.315	36	57.602	61.442	27.0	41.7	0.378
	Point 19	25	20	23.085	24.624	7.0	21.7	0.082	20	23.085	24.624	7.0	21.7	0.082	20	23.085	24.624	7.0	21.7	0.079
	Point 20	50	32	45.686	48.732	18.5	33.2	0.248	32	45.686	48.732	18.5	33.2	0.247	38	54.252	57.869	18.5	33.2	0.283
	Total Oxygen Injected Per Day (lb)		**62.715**						**57.460**						**70.135**					
		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
MID PLUME Injection Bank 3	Point 21	27	24	28.643	30.553	8.5	23.2	0.109	24	28.643	30.553	8.5	23.2	0.108	28	33.417	35.645	8.5	23.2	0.122
	Point 22	65.5	28	45.863	48.921	29.0	43.7	0.327	20	32.759	34.943	29.0	43.7	0.233	42	69.577	74.216	30.0	44.7	0.489
	Point 23	25	24	28.333	30.222	8.0	22.7	0.105	24	28.019	29.887	7.5	22.2	0.101	24	28.333	30.222	8.0	22.7	0.101
	Point 24	50	30	43.152	46.029	19.0	33.7	0.238	30	43.152	46.029	19.0	33.7	0.237	42	60.413	64.440	19.0	33.7	0.320
	Point 25	25	22	25.684	27.396	7.5	22.2	0.093	24	28.019	29.887	7.5	22.2	0.101	26	30.694	32.740	8.0	22.7	0.110
	Point 26	25	22	25.684	27.396	7.5	22.2	0.093	22	25.684	27.396	7.5	22.2	0.093	26	30.354	32.378	7.5	22.2	0.106
	Point 27	25	24	27.702	29.548	7.0	21.7	0.098	24	27.702	29.548	7.0	21.7	0.098	26	30.010	32.011	7.0	21.7	0.102
	Point 28	25	22	25.393	27.086	7.0	21.7	0.090	22	25.393	27.086	7.0	21.7	0.090	26	29.662	31.640	6.5	21.2	0.099
	Point 29	25	24	28.333	30.222	8.0	22.7	0.105	22	25.972	27.703	8.0	22.7	0.096	26	30.694	32.740	8.0	22.7	0.110
	Point 30	25	22	25.393	27.086	7.0	21.7	0.090	22	25.393	27.086	7.0	21.7	0.090	26	29.662	31.640	6.5	21.2	0.099
	Total Oxygen Injected Per Day (lb)		**43.144**						**39.939**						**53.080**					
		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
TAIL PLUME Injection Bank 4	Point 1	25	26	31.692	33.805	9.5	24.2	0.125	32	39.005	41.606	9.5	24.2	0.154	26	31.692	33.805	9.5	24.2	0.121
	Point 2	27	26	32.017	34.152	10.0	24.7	0.129	32	39.406	42.033	10.0	24.7	0.159	26	32.017	34.152	10.0	24.7	0.124
	Point 3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4	35	28	36.514	38.949	13.0	27.7	0.165	30	39.122	41.731	13.0	27.7	0.177	28	36.514	38.949	13.0	27.7	0.159
	Point 5	35	28	36.183	38.595	12.5	27.2	0.161	30	38.768	41.352	12.5	27.2	0.172	26	33.599	35.839	12.5	27.2	0.144
	Point 6	40	28	38.441	41.003	16.0	30.7	0.193	30	41.187	43.932	16.0	30.7	0.206	28	38.441	41.003	16.0	30.7	0.186
	Point 7	45	26	36.839	39.295	18.0	32.7	0.197	32	45.341	48.363	18.0	32.7	0.242	28	39.673	42.318	18.0	32.7	0.204
	Point 8	45	30	42.507	45.341	18.0	32.7	0.227	32	45.341	48.363	18.0	32.7	0.242	30	42.507	45.341	18.0	32.7	0.219
	Point 9	45	30	42.181	44.993	17.5	32.2	0.222	32	44.993	47.992	17.5	32.2	0.236	30	42.181	44.993	17.5	32.2	0.214
	Point 10	45	28	39.673	42.318	18.0	32.7	0.212	32	45.341	48.363	18.0	32.7	0.242	32	45.341	48.363	18.0	32.7	0.233
	Total Oxygen Injected Per Day (lb)		**52.193**						**58.504**						**51.321**					
		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
TAIL PLUME Injection Bank 5	Point 11	45	30	42.831	45.686	18.5	33.2	0.232	30	43.152	46.029	19.0	33.7	0.237	32	46.029	49.097	19.0	33.7	0.244
	Point 12	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 13	45	30	42.507	45.341	18.0	32.7	0.227	30	42.507	45.341	18.0	32.7	0.227	32	45.686	48.732	18.5	33.2	0.239
	Point 14	40	28	38.441	41.003	16.0	30.7	0.193	30	41.187	43.932	16.0	30.7	0.206	30	41.187	43.932	16.0	30.7	0.199
	Point 15	35	28	36.842	39.299	13.5	28.2	0.170	32	42.106	44.913	13.5	28.2	0.194	28	36.842	39.299	13.5	28.2	0.163
	Point 16	35	30	40.510	43.211	15.0	29.7	0.197	30	40.510	43.211	15.0	29.7	0.196	32	43.211	46.092	15.0	29.7	0.202
	Point 17	35	30	39.474	42.106	13.5	28.2	0.182	34	44.339	47.295	13.0	27.7	0.200	30	39.474	42.106	13.5	28.2	0.175
	Point 18	35	28	36.514	38.949	13.0	27.7	0.165	32	41.352	44.109	12.5	27.2	0.183	28	36.514	38.949	13.0	27.7	0.159
	Point 19	35	30	39.122	41.731	13.0	27.7	0.177	32	41.352	44.109	12.5	27.2	0.183	30	39.474	42.106	13.5	28.2	0.175
	Point 20	30	30	37.684	40.196	11.0	25.7	0.158	30	37.684	40.196	11.0	25.7	0.158	28	35.171	37.516	11.0	25.7	0.142
	Total Oxygen Injected Per Day (lb)		**54.427**						**57.089**						**54.368**					
		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
TAIL PLUME Injection Bank 6	Point 21	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 22	30	30	37.315	39.803	10.5	25.2	0.154	30	37.684	40.196	11.0	25.7	0.158	26	32.340	34.496	10.5	25.2	0.128
	Point 23	30	30	37.315	39.803	10.5	25.2	0.154	32	39.803	42.456	10.5	25.2	0.163	28	34.828	37.149	10.5	25.2	0.138
	Point 24	25	30	35.804	38.191	8.5	23.2	0.136	34	37.863	40.388	5.5	20.2	0.125	26	29.662	31.640	6.5	21.2	0.099
	Point 25	25	30	41.852	44.642	17.0	31.7	0.217	34	44.737	47.720	13.5	28.2	0.206	26	33.599	35.839	12.5	27.2	0.144
	Point 26	25	26	31.692	33.805	9.5	24.2	0.125	34	38.329	40.884	6.0	20.7	0.129	28	32.319	34.473	7.0	21.7	0.110
	Point 27	25	28	33.775	36.027	9.0	23.7	0.131	32	35.636	38.012	5.5	20.2	0.117	26	29.662	31.640	6.5	21.2	0.099
	Point 27A	26	30	37.684	40.196	11.0	25.7	0.158	34	39.244	41.860	7.0	21.7	0.139	24	27.702	29.548	7.0	21.7	0.095
	Point 27B	35	32	41.731	44.513	13.0	27.7	0.189	30	39.122	41.731	13.0	27.7	0.177	28	33.775	36.027	9.0	23.7	0.126
	Point 27C	35	38	50.442	53.804	14.0	28.7	0.237	36	40.584	43.289	6.0	20.7	0.137	26	29.311	31.265	6.0	20.7	0.095
	Total Oxygen Injected Per Day (lb)		**47.979**						**43.221**						**33.104**					
	System Total Per Day (lb)		**300.55**						**296.19**						**298.90**					

Appendix C - Table C-2
Operational Data - 9 North Clinton Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Weight of Oxygen Injected through Q4 2011: 159,690 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-12	30	7,125
Month 2	Feb-12	29	4,525
Month 3	Mar-12	30	3,675
Total Operational Days in Q1 2012			89
Total Oxygen in Q1 2012 (lbs)			15,325.46
Running Total for Oxygen to 9 North Clinton Through Q1 2012 (lbs)			**175,015.23**

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 = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

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 injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
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 1100AM
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
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM 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 800AM and 830AM and 1100AM and 400PM (September only).
The oxygen weights have been adjusted to incorporate this schedule.

			1/16/2012						2/22/2012						3/22/2012					
		O_2%	90.1						94.5						85.5					
		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 1A	30	30	37.684	32.659	11.0	25.7	0.133	18	22.610	19.595	11.0	25.7	0.084	30	37.684	32.659	11.0	25.7	0.126
	Point 7A	30	32	39.406	34.152	10.0	24.7	0.134	16	19.703	17.076	10.0	24.7	0.070	30	36.943	32.017	10.0	24.7	0.119
	Point 7B	64	32	50.272	43.569	25.5	40.2	0.277	22	34.562	29.954	25.5	40.2	0.200	34	53.745	46.579	26.0	40.7	0.285
	Point 13A	25	32	36.936	32.011	7.0	21.7	0.110	20	23.085	20.007	7.0	21.7	0.072	30	34.627	30.010	7.0	21.7	0.098
	Point 13B	52	30	43.788	37.949	20.0	34.7	0.209	26	37.949	32.889	20.0	34.7	0.190	30	43.788	37.949	20.0	34.7	0.198
	Point 19A	25	28	33.417	28.961	8.5	23.2	0.106	22	25.972	22.509	8.0	22.7	0.085	30	35.416	30.694	8.0	22.7	0.105
	Point 19B	44	32	44.642	38.690	17.0	31.7	0.194	20	27.901	24.181	17.0	31.7	0.127	30	41.852	36.272	17.0	31.7	0.173
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**37.234**						**26.494**						**35.316**					
		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 2	Point 2A	32	30	38.410	33.288	12.0	26.7	0.141	20	25.607	22.192	12.0	26.7	0.098	32	40.585	35.174	11.5	26.2	0.139
	Point 8A	45	30	41.852	36.272	17.0	31.7	0.182	20	27.901	24.181	17.0	31.7	0.127	34	47.432	41.108	17.0	31.7	0.196
	Point 8B	64	30	46.540	40.335	24.5	39.2	0.251	24	37.469	32.473	25.0	39.7	0.214	38	59.326	51.416	25.0	39.7	0.307
	Point 8C	25	32	37.359	32.378	7.5	22.2	0.114	18	20.776	18.006	7.0	21.7	0.065	32	37.359	32.378	7.5	22.2	0.108
	Point 14A	25	32	38.191	33.099	8.5	23.2	0.122	18	21.250	18.416	8.0	22.7	0.069	32	37.777	32.740	8.0	22.7	0.112
	Point 14B	52	30	43.471	37.675	19.5	34.2	0.204	20	28.981	25.117	19.5	34.2	0.143	32	46.029	39.892	19.0	33.7	0.202
	Point 20A	25	30	35.416	30.694	8.0	22.7	0.110	22	25.684	22.260	7.5	22.2	0.082	30	35.024	30.354	7.5	22.2	0.101
	Point 20B	42	32	43.932	38.075	16.0	30.7	0.185	20	27.458	23.797	16.0	30.7	0.121	30	41.187	35.695	16.0	30.7	0.165
	Total Oxygen Injected Per Day (lb)		**41.880**						**29.463**						**42.539**					
		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 3	Point 3A	25	28	32.689	28.330	7.5	22.2	0.100	28	32.689	28.330	7.5	22.2	0.105	34	39.694	34.401	7.5	22.2	0.115
	Point 3B	35	28	35.849	31.069	12.0	26.7	0.131	26	32.975	28.579	11.5	26.2	0.124	28	35.849	31.069	12.0	26.7	0.125
	Point 9A	45	32	44.289	38.383	16.5	31.2	0.190	26	35.695	30.936	16.0	30.7	0.158	24	32.949	28.556	16.0	30.7	0.132
	Point 9B	64	30	45.338	39.293	22.5	37.2	0.232	28	42.315	36.673	22.5	37.2	0.227	24	36.270	31.434	22.5	37.2	0.176
	Point 9C	25	30	35.024	30.354	7.5	22.2	0.107	26	30.354	26.307	7.5	22.2	0.097	28	32.689	28.330	7.5	22.2	0.095
	Point 15A	25	26	30.694	26.601	8.0	22.7	0.096	26	30.694	26.601	8.0	22.7	0.100	26	30.694	26.601	8.0	22.7	0.091
	Point 15B	44	34	46.678	40.454	16.0	30.7	0.197	26	35.403	30.683	15.5	30.2	0.154	26	35.403	30.683	15.5	30.2	0.139
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**33.651**						**30.874**						**27.898**					
		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 4	Point 4A	25	30	35.416	30.694	8.0	22.7	0.110	24	28.333	24.555	8.0	22.7	0.093	20	23.611	20.463	8.0	22.7	0.070
	Point 4B	39	32	42.477	36.814	14.0	28.7	0.167	24	31.858	27.610	14.0	28.7	0.132	20	26.548	23.008	14.0	28.7	0.099
	Point 10A	45	30	41.521	35.985	16.5	31.2	0.178	22	30.448	26.389	16.5	31.2	0.137	20	27.680	23.990	16.5	31.2	0.113
	Point 10B	64	32	50.272	43.569	25.5	40.2	0.277	26	40.846	35.400	25.5	40.2	0.236	24	37.704	32.677	25.5	40.2	0.197
	Point 10C	25	34	40.138	34.786	8.0	22.7	0.125	20	23.611	20.463	8.0	22.7	0.077	18	21.250	18.416	8.0	22.7	0.063
	Point 16A	25	34	40.138	34.786	8.0	22.7	0.125	22	25.684	22.260	7.5	22.2	0.082	18	21.014	18.212	7.5	22.2	0.061
	Point 16B	47	32	45.341	39.295	18.0	32.7	0.204	20	28.338	24.560	18.0	32.7	0.133	18	25.504	22.104	18.0	32.7	0.109
	Total Oxygen Injected Per Day (lb)		**37.982**						**28.491**						**22.766**					
		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 5	Point 5A	25	42	49.033	42.495	7.5	22.2	0.149	0	0.000	0.000	7.0	21.7	0.000	10	11.675	10.118	7.5	22.2	0.034
	Point 5B	42	38	50.879	44.095	14.5	29.2	0.204	12	16.067	13.925	14.5	29.2	0.068	10	13.389	11.604	14.5	29.2	0.051
	Point 11A	45	38	52.593	45.580	16.5	31.2	0.225	16	22.144	19.192	16.5	31.2	0.100	10	13.840	11.995	16.5	31.2	0.056
	Point 11B	64	38	58.194	50.435	23.5	38.2	0.305	16	24.503	21.236	23.5	38.2	0.135	10	15.314	13.272	23.5	38.2	0.076
	Point 17A	25	42	49.582	42.971	8.0	22.7	0.155	0	0.000	0.000	7.5	22.2	0.000	10	11.805	10.231	8.0	22.7	0.035
	Point 17B	45	40	56.241	48.742	17.5	32.2	0.249	14	19.220	16.658	16.0	30.7	0.085	10	14.060	12.186	17.5	32.2	0.059
	Point 21A	25	42	50.125	43.442	8.5	23.2	0.160	0	0.000	0.000	8.0	22.7	0.000	10	11.805	10.231	8.0	22.7	0.035
	Total Oxygen Injected Per Day (lb)		**46.301**						**12.379**						**11.073**					
		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 6	Point 6A	30	34	40.138	34.786	8.0	22.7	0.125	24	28.333	24.555	8.0	22.7	0.093	24	28.333	24.555	8.0	22.7	0.084
	Point 6B	52	34	49.267	42.698	19.5	34.2	0.231	24	34.777	30.140	19.5	34.2	0.171	26	37.675	32.652	19.5	34.2	0.168
	Point 12A	25	34	40.138	34.786	8.0	22.7	0.125	20	23.349	20.236	7.5	22.2	0.075	22	25.684	22.260	7.5	22.2	0.074
	Point 12B	54	34	50.336	43.624	21.0	35.7	0.247	22	32.570	28.228	21.0	35.7	0.167	24	35.531	30.794	21.0	35.7	0.165
	Point 18A	25	36	42.499	36.833	8.0	22.7	0.132	22	25.972	22.509	8.0	22.7	0.085	26	30.694	26.601	8.0	22.7	0.091
	Point 18B	45	34	47.432	41.108	17.0	31.7	0.206	24	33.482	29.017	17.0	31.7	0.153	26	36.272	31.435	17.0	31.7	0.150
	Point 21B	42	34	46.678	40.454	16.0	30.7	0.197	24	32.680	28.323	15.5	30.2	0.142	28	38.126	33.043	15.5	30.2	0.150
	Total Oxygen Injected Per Day (lb)		**40.448**						**28.349**						**28.221**					
	System Total Per Day (lb)		**237.50**						**156.05**						**167.81**					

Appendix C - Table C-3
Operational Data - 34 North Clinton Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Weight of Oxygen Injected through Q4 2011: 209,409 lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-12	30	6,785
Month 2	Feb-12	29	6,030
Month 3	Mar-12	29	4,943
Total Operational Days in Q1 2012			88
Total Oxygen in Q1 2012 (lbs)			17,757.31
Running Total for Oxygen to 34 North Clinton Through Q1 2012 (lbs)			**227,165.97**

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 = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

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 injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
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 1100AM
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
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

Injection Bank 1 had low flow rates on 4/28/2011. Celenoid malfunctioning.
Injection Bank 1 had a low flow rate at Point 1A. Flow moves to almost zero 4 minutes into injection cycle. Flow back to 26 SCFH when booster pump turns on. Pressure higher at Point 25A than previously observed.

		1/18/2012						2/16/2012						3/28/2012					
	O_2%	90.1						81.5						85.8					
	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 1A	65	26	41.601	36.054	27.0	41.7	0.238	25	40.001	34.668	27.0	41.7	0.207	28	44.801	38.828	27.0	41.7	0.244
	Point 1B	45	28	39.369	34.120	17.5	32.2	0.174	26	36.272	31.435	17.0	31.7	0.143	26	36.557	31.682	17.5	32.2	0.154
	Point 2	30	26	33.906	29.385	13.0	27.7	0.129	29	37.818	32.776	13.0	27.7	0.130	20	26.082	22.604	13.0	27.7	0.094
	Point 13A	65	26	40.077	34.733	24.0	38.7	0.213	26	40.077	34.733	24.0	38.7	0.193	20	31.027	26.890	24.5	39.2	0.159
	Point 13B	45	28	38.441	33.315	16.0	30.7	0.162	27	37.068	32.126	16.0	30.7	0.141	22	30.203	26.176	16.0	30.7	0.121
	Point 14	30	28	34.480	29.883	10.0	24.7	0.117	28	34.480	29.883	10.0	24.7	0.106	20	24.629	21.345	10.0	24.7	0.080
	Point 25A	45	28	35.512	30.777	11.5	26.2	0.128	27	35.210	30.516	13.0	27.7	0.121	30	41.521	35.985	16.5	31.2	0.169
	Point 25B	30	28	34.828	30.184	10.5	25.2	0.121	29	36.071	31.262	10.5	25.2	0.113	24	29.852	25.872	10.5	25.2	0.098
	Total Oxygen Injected Per Day (lb)		**41.006**						**36.925**						**35.848**					
		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 2	Point 3A	65	30	47.130	40.846	25.5	40.2	0.260	27	42.153	36.532	25.0	39.7	0.208	32	50.272	43.569	25.5	40.2	0.264
	Point 3B	45	26	35.109	30.428	15.0	29.7	0.143	29	39.160	33.939	15.0	29.7	0.144	20	27.007	23.406	15.0	29.7	0.105
	Point 4	30	26	32.017	27.748	10.0	24.7	0.109	27	33.249	28.816	10.0	24.7	0.102	20	24.629	21.345	10.5	25.2	0.081
	Point 15A	65	26	40.077	34.733	24.0	38.7	0.213	25	38.535	33.397	24.0	38.7	0.185	20	30.828	26.718	24.0	38.7	0.156
	Point 15B	45	28	38.753	33.586	16.5	31.2	0.166	30	41.521	35.985	16.5	31.2	0.161	24	33.216	28.788	16.5	31.2	0.136
	Point 16	30	26	31.692	27.466	9.5	24.2	0.105	34	46.678	40.454	16.0	30.7	0.178	20	24.378	21.128	9.5	24.2	0.077
	Point 26A	45	30	41.521	35.985	16.5	31.2	0.178	34	47.057	40.782	16.5	31.2	0.182	26	35.985	31.187	16.5	31.2	0.147
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**37.571**						**37.145**						**30.904**					
		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 3	Point 5A	65	32	51.508	44.640	27.5	42.2	0.298	33	53.117	46.035	27.5	42.2	0.278	30	48.288	41.850	27.5	42.2	0.266
	Point 5B	45	30	41.521	35.985	16.5	31.2	0.178	32	44.289	38.383	16.5	31.2	0.172	24	33.216	28.788	16.5	31.2	0.136
	Point 6	30	32	38.191	33.099	8.5	23.2	0.122	35	41.771	36.202	8.5	23.2	0.120	24	28.643	24.824	8.5	23.2	0.087
	Point 17A	65	34	52.746	45.713	24.5	39.2	0.284	27	41.618	36.069	24.0	38.7	0.200	32	49.325	42.749	24.0	38.7	0.250
	Point 17B	45	32	44.289	38.383	16.5	31.2	0.190	34	47.057	40.782	16.5	31.2	0.182	22	30.448	26.389	16.5	31.2	0.124
	Point 18	30	32	39.406	34.152	10.0	24.7	0.134	34	41.869	36.286	10.0	24.7	0.128	22	27.092	23.479	10.0	24.7	0.087
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**38.569**						**34.600**						**30.405**					
		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 4	Point 7A	65	38	60.436	52.378	26.5	41.2	0.342	36	57.255	49.621	26.5	41.2	0.293	22	34.989	30.324	26.5	41.2	0.188
	Point 7B	45	28	39.062	33.854	17.0	31.7	0.170	29	40.457	35.063	17.0	31.7	0.159	22	30.691	26.599	17.0	31.7	0.127
	Point 8	30	34	42.708	37.014	11.0	25.7	0.151	32	39.803	34.496	10.5	25.2	0.125	22	27.365	23.716	10.5	25.2	0.090
	Point 19A	65	30	47.422	41.099	26.0	40.7	0.265	28	43.988	38.123	25.5	40.2	0.220	22	34.776	30.140	26.0	40.7	0.185
	Point 19B	45	30	41.852	36.272	17.0	31.7	0.182	28	39.062	33.854	17.0	31.7	0.154	20	27.901	24.181	17.0	31.7	0.116
	Point 20	30	32	39.803	34.496	10.5	25.2	0.138	32	39.803	34.496	10.5	25.2	0.125	22	27.092	23.479	10.0	24.7	0.087
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**39.922**						**34.396**						**25.411**					
		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 5	Point 9A	65	32	51.202	44.375	27.0	41.7	0.293	32	51.202	44.375	27.0	41.7	0.265	24	38.401	33.281	27.0	41.7	0.209
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	32	39.406	34.152	10.0	24.7	0.134	33	40.638	35.219	10.0	24.7	0.125	24	29.555	25.614	10.0	24.7	0.095
	Point 21A	65	32	50.272	43.569	25.5	40.2	0.277	31	48.701	42.208	25.5	40.2	0.243	24	37.704	32.677	25.5	40.2	0.198
	Point 21B	45	30	41.521	35.985	16.5	31.2	0.178	30	41.521	35.985	16.5	31.2	0.161	22	30.448	26.389	16.5	31.2	0.124
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**28.230**						**25.405**						**20.072**					
		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 6	Point 11A	65	40	63.230	54.799	26.0	40.7	0.353	36	56.907	49.319	26.0	40.7	0.288	22	34.562	29.954	25.5	40.2	0.182
	Point 11B	45	30	41.521	35.985	16.5	31.2	0.178	34	47.057	40.782	16.5	31.2	0.182	24	33.216	28.788	16.5	31.2	0.136
	Point 12	30	32	39.803	34.496	10.5	25.2	0.138	34	41.869	36.286	10.0	24.7	0.128	22	27.092	23.479	10.0	24.7	0.087
	Point 23	65	30	47.422	41.099	26.0	40.7	0.265	35	55.665	48.243	26.5	41.2	0.285	26	41.099	35.619	26.0	40.7	0.219
	Point 24A	55	30	44.724	38.761	21.5	36.2	0.222	33	49.196	42.637	21.5	36.2	0.221	22	32.798	28.425	21.5	36.2	0.155
	Point 24B	30	28	34.828	30.184	10.5	25.2	0.121	33	41.047	35.574	10.5	25.2	0.128	22	27.365	23.716	10.5	25.2	0.090
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**40.858**						**39.455**						**27.802**					
	System Total Per Day (lb)		**226.16**						**207.93**						**170.44**					

Appendix C - Table C-4
Operational Data - 33 North Clinton Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Weight of Oxygen Injected through Q4 2011: 222,862 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-12	31	8,706
Month 2	Feb-12	28	8,393
Month 3	Mar-12	28	6,631
Total Operational Days in Q1 2012			87
Total Oxygen in Q1 2012 (lbs)			23,730.50
Running Total for Oxygen to 33 North Clinton Through Q1 2012 (lbs)			**246,592.33**

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 = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

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)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
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 1100AM
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
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113PM
System is recharging from 113PM to 200PM
Bank 8 starts injection at 200PM
Bank 8 finishes injection at 213PM
System is recharging from 213PM to 300PM
(Keep repeating cycle for course of day)

			1/10/2012						2/8/2012						3/21/2012					
		O_2%	95.2						92.7						95.4					
		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 1A	62	28	42.598	27.689	23.0	37.7	0.175	34	51.727	33.622	23.0	37.7	0.207	24	36.513	23.733	23.0	37.7	0.150
	Point 1B	46	28	38.441	24.987	16.0	30.7	0.128	32	43.932	28.556	16.0	30.7	0.143	24	32.949	21.417	16.0	30.7	0.110
	Point 6A	65	26	40.591	26.384	25.0	39.7	0.175	30	46.540	30.251	24.5	39.2	0.193	26	40.335	26.218	24.5	39.2	0.172
	Point 6B	46	28	39.062	25.390	17.0	31.7	0.135	28	39.062	25.390	17.0	31.7	0.131	26	35.985	23.390	16.5	31.2	0.122
	Point 11	46	30	41.521	26.988	16.5	31.2	0.141	30	41.187	26.771	16.0	30.7	0.134	24	33.216	21.591	16.5	31.2	0.113
	Point 35	41	28	36.842	23.948	13.5	28.2	0.113	34	45.132	29.336	14.0	28.7	0.137	24	31.579	20.526	13.5	28.2	0.097
	Point 40	41	30	39.822	25.885	14.0	28.7	0.124	30	39.822	25.885	14.0	28.7	0.121	22	29.203	18.982	14.0	28.7	0.091
	Point 45	31	30	36.567	23.769	9.5	24.2	0.096	32	39.005	25.353	9.5	24.2	0.100	22	26.538	17.249	9.0	23.7	0.069
	Total Oxygen Injected Per Day (lb)				**34.813**						**37.323**						**29.610**			
Injection Bank 2	Point 2A	67	28	43.988	28.592	25.5	40.2	0.192	36	56.556	36.762	25.5	40.2	0.241	28	43.988	28.592	25.5	40.2	0.193
	Point 2B	46	32	44.289	28.788	16.5	31.2	0.150	30	41.521	26.988	16.5	31.2	0.137	24	33.216	21.591	16.5	31.2	0.113
	Point 7A	65	34	52.746	34.285	24.5	39.2	0.225	36	55.848	36.301	24.5	39.2	0.232	24	37.232	24.201	24.5	39.2	0.159
	Point 7B	46	32	44.642	29.017	17.0	31.7	0.154	34	47.432	30.831	17.0	31.7	0.159	26	36.272	23.577	17.0	31.7	0.125
	Point 12	46	30	41.521	26.988	16.5	31.2	0.141	30	41.852	27.204	17.0	31.7	0.141	26	35.985	23.390	16.5	31.2	0.122
	Point 36	36	28	35.171	22.861	11.0	25.7	0.098	28	35.171	22.861	11.0	25.7	0.096	22	27.635	17.963	11.0	25.7	0.077
	Point 41	41	32	42.477	27.610	14.0	28.7	0.133	36	47.369	30.790	13.5	28.2	0.142	26	34.513	22.433	14.0	28.7	0.108
	Point 46	36	28	35.512	23.083	11.5	26.2	0.101	28	35.512	23.083	11.5	26.2	0.099	28	35.512	23.083	11.5	26.2	0.101
	Total Oxygen Injected Per Day (lb)				**38.238**						**39.868**						**31.989**			
Injection Bank 3	Point 3A	24.75	28	43.714	28.414	25.0	39.7	0.189	36	56.203	36.532	25.0	39.7	0.236	26	40.591	26.384	25.0	39.7	0.176
	Point 3B	16.5	30	41.521	26.988	16.5	31.2	0.141	32	44.289	28.788	16.5	31.2	0.146	22	30.203	19.632	16.0	30.7	0.101
	Point 8A	28.5	28	45.600	29.640	28.5	43.2	0.214	28	45.335	29.468	28.0	42.7	0.205	30	48.857	31.757	28.5	43.2	0.230
	Point 8B	16.5	28	38.753	25.189	16.5	31.2	0.132	34	47.057	30.587	16.5	31.2	0.156	24	33.216	21.591	16.5	31.2	0.113
	Point 32A	24.25	30	46.243	30.058	24.0	38.7	0.195	32	49.006	31.854	23.5	38.2	0.198	28	42.880	27.872	23.5	38.2	0.179
	Point 32B	11.5	28	35.171	22.861	11.0	25.7	0.098	34	43.122	28.029	11.5	26.2	0.120	22	27.635	17.963	11.0	25.7	0.077
	Point 37	13.5	28	36.842	23.948	13.5	28.2	0.113	32	42.106	27.369	13.5	28.2	0.126	26	34.211	22.237	13.5	28.2	0.105
	Point 42	11.75	30	38.048	24.731	11.5	26.2	0.108	36	45.658	29.678	11.5	26.2	0.127	22	27.902	18.136	11.5	26.2	0.080
	Total Oxygen Injected Per Day (lb)				**38.090**						**42.051**						**33.950**			
Injection Bank 4	Point 4A	69	30	47.713	31.013	26.5	41.2	0.214	38	60.436	39.284	26.5	41.2	0.264	24	38.170	24.811	26.5	41.2	0.171
	Point 4B	46	28	39.062	25.390	17.0	31.7	0.135	38	52.593	34.185	16.5	31.2	0.174	20	27.680	17.992	16.5	31.2	0.094
	Point 9A	71	26	41.850	27.202	27.5	42.2	0.192	28	45.069	29.295	27.5	42.2	0.202	22	35.411	23.017	27.5	42.2	0.163
	Point 9B	46	26	36.272	23.577	17.0	31.7	0.125	34	47.432	30.831	17.0	31.7	0.159	18	24.912	16.193	16.5	31.2	0.085
	Point 33	42	28	37.168	24.159	14.0	28.7	0.116	36	47.787	31.061	14.0	28.7	0.145	18	23.893	15.531	14.0	28.7	0.075
	Point 38	36	28	35.512	23.083	11.5	26.2	0.101	40	50.731	32.975	11.5	26.2	0.141	18	22.829	14.839	11.5	26.2	0.065
	Point 43	31	28	34.130	22.184	9.5	24.2	0.090	36	43.881	28.523	9.5	24.2	0.113	38	45.838	29.794	9.0	23.7	0.118
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)				**31.139**						**38.309**						**24.697**			
Injection Bank 5	Point 5A	65	26	40.591	26.384	25.0	39.7	0.175	40	62.448	40.591	25.0	39.7	0.263	24	37.704	24.508	25.5	40.2	0.165
	Point 5B	46	28	38.753	25.189	16.5	31.2	0.132	34	47.057	30.587	16.5	31.2	0.156	24	32.949	21.417	16.0	30.7	0.110
	Point 10	56	28	41.162	26.755	20.5	35.2	0.158	38	55.862	36.311	20.5	35.2	0.208	24	35.030	22.770	20.0	34.7	0.133
	Point 34	41	28	36.514	23.734	13.0	27.7	0.110	36	46.947	30.516	13.0	27.7	0.138	20	26.548	17.256	14.0	28.7	0.083
	Point 39	26	28	32.319	21.007	7.0	21.7	0.076	38	43.861	28.510	7.0	21.7	0.101	20	23.085	15.005	7.0	21.7	0.055
	Point 44	36	30	38.048	24.731	11.5	26.2	0.108	40	50.731	32.975	11.5	26.2	0.141	20	25.366	16.488	11.5	26.2	0.072
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)				**24.301**						**32.193**						**19.785**			
Injection Bank 6	Point 16	40	32	43.211	28.087	15.0	29.7	0.140	32	43.573	28.323	15.5	30.2	0.139	30	40.850	26.552	15.5	30.2	0.135
	Point 19	40	32	43.211	28.087	15.0	29.7	0.140	34	45.523	29.590	14.5	29.2	0.141	24	32.134	20.887	14.5	29.2	0.102
	Point 22	40	32	42.846	27.850	14.5	29.2	0.136	34	45.523	29.590	14.5	29.2	0.141	24	32.134	20.887	14.5	29.2	0.102
	Point 25A	60	30	45.641	29.667	23.0	37.7	0.187	26	39.556	25.711	23.0	37.7	0.158	38	58.194	37.826	23.5	38.2	0.242
	Point 25B	29	36	44.332	28.816	10.0	24.7	0.119	30	36.943	24.013	10.0	24.7	0.097	18	22.166	14.408	10.0	24.7	0.060
	Point 28	50	34	48.906	31.789	19.0	33.7	0.179	30	43.152	28.049	19.0	33.7	0.154	20	28.768	18.699	19.0	33.7	0.106
	Point 31A	69	26	41.850	27.202	27.5	42.2	0.192	32	51.508	33.480	27.5	42.2	0.230	42	67.604	43.942	27.5	42.2	0.311
	Point 31B	40	34	45.523	29.590	14.5	29.2	0.145	30	40.168	26.109	14.5	29.2	0.124	20	26.779	17.406	14.5	29.2	0.085
	Total Oxygen Injected Per Day (lb)				**39.614**						**37.903**						**36.586**			
Injection Bank 7	Point 14	39	30	40.850	26.552	15.5	30.2	0.134	32	43.573	28.323	15.5	30.2	0.139	26	35.403	23.012	15.5	30.2	0.117
	Point 17	40	30	38.768	25.199	12.5	27.2	0.115	32	41.731	27.125	13.0	27.7	0.122	28	36.183	23.519	12.5	27.2	0.107
	Point 20	40	34	45.912	29.843	15.0	29.7	0.148	34	45.912	29.843	15.0	29.7	0.144	20	27.007	17.554	15.0	29.7	0.087
	Point 23	40	30	40.168	26.109	14.5	29.2	0.128	32	42.846	27.850	14.5	29.2	0.133	24	31.858	20.708	14.0	28.7	0.100
	Point 26A	60	32	48.684	31.645	23.0	37.7	0.200	30	45.641	29.667	23.0	37.7	0.182	24	36.513	23.733	23.0	37.7	0.150
	Point 26B	29	32	41.731	27.125	13.0	27.7	0.126	34	44.339	28.820	13.0	27.7	0.130	24	31.014	20.159	12.5	27.2	0.092
	Point 29A	66	28	43.988	28.592	25.5	40.2	0.192	30	47.130	30.635	25.5	40.2	0.201	24	37.704	24.508	25.5	40.2	0.165
	Point 29B	40	32	43.211	28.087	15.0	29.7	0.140	34	45.912	29.843	15.0	29.7	0.144	20	26.779	17.406	14.5	29.2	0.085
	Total Oxygen Injected Per Day (lb)				**37.841**						**38.291**						**28.918**			
Injection Bank 8	Point 13	40	32	43.573	28.323	15.5	30.2	0.143	30	40.850	26.552	15.5	30.2	0.131	60	81.700	53.105	15.5	30.2	0.269
	Point 15	40	32	43.211	28.087	15.0	29.7	0.140	32	43.573	28.323	15.5	30.2	0.139	26	35.109	22.821	15.0	29.7	0.114
	Point 18	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 21	40	34	45.132	29.336	14.0	28.7	0.141	32	42.477	27.610	14.0	28.7	0.129	24	31.858	20.708	14.0	28.7	0.100
	Point 24	55	34	49.982	32.488	20.5	35.2	0.191	36	52.922	34.399	20.5	35.2	0.197	24	35.282	22.933	20.5	35.2	0.135
	Point 27A	65	34	53.414	34.719	25.5	40.2	0.234	26	40.846	26.550	25.5	40.2	0.174	20	31.420	20.423	25.5	40.2	0.138
	Point 27B	33	32	41.352	26.879	12.5	27.2	0.122	30	38.768	25.199	12.5	27.2	0.112	22	28.430	18.479	12.5	27.2	0.084
	Point 30	50	34	48.906	31.789	19.0	33.7	0.179	34	48.906	31.789	19.0	33.7	0.175	26	37.398	24.309	19.0	33.7	0.137
	Total Oxygen Injected Per Day (lb)				**36.819**						**33.824**						**31.274**			
	System Total Per Day (lb)				**280.85**						**299.76**						**236.81**			

Appendix C - Table C-5
Operational Data - Plume Tail Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Weight of Oxygen Injected through Q4 2011: 70,014 lbs

Oxygen to OU-2 - Plume Tail

		Operational Days	Oxygen Injected Per Month (lbs)
Month 1	Jan-12	16	1,397
Month 2	Feb-12	0	0
Month 3	Mar-12	2	175
Total Operational Days in Q1 2012			18
Total Oxygen in Q1 2012 (lbs)			1,571.78
Running Total for Oxygen to Plume Tail Through Q1 2012 (lbs)			**71,585.50**

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 = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

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 injection 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 1000AM
Bank 2 finishes injection at 1010AM
System is recharging 1010AM to 1100AM
(Keep repeating cycle for course of day)

			12/7/2011						-						4/13/2012					
		O_2%	92.6						-						89.8					
		R	10.73						-						10.73					
		Temp R (T)	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	39	14	19.376	38.753	16.5	31.2	0.191	-	-	-	-	-	-	10	13.840	27.680	16.5	31.2	0.136
	Point 2	19	24	28.333	56.666	8.0	22.7	0.203	-	-	-	-	-	-	14	16.344	32.689	7.5	22.2	0.115
	Point 3	39	14	19.376	38.753	16.5	31.2	0.191	-	-	-	-	-	-	10	13.840	27.680	16.5	31.2	0.136
	Point 4	19	18	21.014	42.029	7.5	22.2	0.147	-	-	-	-	-	-	18	21.014	42.029	7.5	22.2	0.147
	Point 5	44	14	19.988	39.975	18.5	33.2	0.210	-	-	-	-	-	-	10	14.169	28.338	18.0	32.7	0.146
	Point 6	19	24	27.702	55.403	7.0	21.7	0.190	-	-	-	-	-	-	14	16.159	32.319	7.0	21.7	0.111
	Point 7	44	16	23.014	46.029	19.0	33.7	0.245	-	-	-	-	-	-	12	17.261	34.522	19.0	33.7	0.184
	Point 8	19	16	17.596	35.192	5.0	19.7	0.109	-	-	-	-	-	-	12	13.197	26.394	5.0	19.7	0.082
	Total Oxygen Injected Per Day (lb)				**47.556**						**-**						**33.842**			
		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 2	Point 9	44	14	19.988	39.975	18.5	33.2	0.210	-	-	-	-	-	-	16	22.843	45.686	18.5	33.2	0.240
	Point 10	19	10	11.675	23.349	7.5	22.2	0.082	-	-	-	-	-	-	24	28.019	56.038	7.5	22.2	0.196
	Point 11	44	14	19.988	39.975	18.5	33.2	0.210	-	-	-	-	-	-	18	25.698	51.397	18.5	33.2	0.269
	Point 12	19	12	14.010	28.019	7.5	22.2	0.098	-	-	-	-	-	-	24	28.019	56.038	7.5	22.2	0.196
	Point 13	44	16	23.014	46.029	19.0	33.7	0.245	-	-	-	-	-	-	12	17.261	34.522	19.0	33.7	0.184
	Point 14	19	10	11.273	22.547	6.0	20.7	0.074	-	-	-	-	-	-	24	27.056	54.112	6.0	20.7	0.177
	Point 15	44	14	19.988	39.975	18.5	33.2	0.210	-	-	-	-	-	-	20	28.554	57.108	18.5	33.2	0.299
	Point 16	19	14	16.344	32.689	7.5	22.2	0.115	-	-	-	-	-	-	14	16.344	32.689	7.5	22.2	0.115
	Total Oxygen Injected Per Day (lb)				**39.744**						**-**						**53.645**			
	System Total Per Day (lb)				**87.30**						**-**						**87.49**			

December 2011 data used for January 2012.

April 2012 data used for March 2012

Appendix C - Table C-6
Operational Data - 29 Community Road Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Weight of Oxygen Injected through Q4 2011: 33,507 lbs

Oxygen to OU-2 - 29 Community Road

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-12	25	3,610
Month 2	Feb-12	30	4,430
Month 3	Mar-12	28	5,330
Total Operational Days in Q1 2012			83
Total Oxygen in Q1 2012 (lbs)			13,370.04
Running Total for Oxygen to 29 Community Road Through Q1 2012 (lbs)			**46,877.11**

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 = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 4 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 6 injection cycles per day
Each injection point injects oxygen for 78 min per day (13 min per cycle * 6 cycles)

Example
Bank 1 starts injection at 7AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 10AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging 1013AM to 1100AM
(Keep repeating cycle for course of day)

			1/24/2012						2/23/2012						3/14/2012					
	O_2%		88						92.6						94.3					
	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	66	30	46.836	60.887	25.0	39.7	0.374	26	40.591	52.769	25.0	39.7	0.341	26	40.591	52.769	25.0	39.7	0.347
	Point 2	51	24	34.006	44.207	18.0	32.7	0.224	26	36.839	47.891	18.0	32.7	0.255	30	42.181	54.835	17.5	32.2	0.293
	Point 3	21	24	26.394	34.313	5.0	19.7	0.105	10	10.998	14.297	5.0	19.7	0.046	24	26.394	34.313	5.0	19.7	0.112
	Point 4	62.5	26	39.556	51.422	23.0	37.7	0.300	20	30.427	39.556	23.0	37.7	0.243	26	39.556	51.422	23.0	37.7	0.321
	Point 5	51	28	40.275	52.358	19.0	33.7	0.273	14	20.138	26.179	19.0	33.7	0.144	30	43.152	56.098	19.0	33.7	0.313
	Point 6	21	22	23.886	31.051	4.5	19.2	0.092	14	15.200	19.760	4.5	19.2	0.062	34	36.914	47.989	4.5	19.2	0.153
	Total Oxygen Injected Per Day (lb)		**43.763**						**34.887**						**49.279**					
		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 2	Point 7	66	0	0.000	0.000	26.0	40.7	0.000	30	47.422	61.649	26.0	40.7	0.409	34	46.678	60.682	16.0	30.7	0.309
	Point 8	51	30	43.788	56.924	20.0	34.7	0.306	18	26.273	34.154	20.0	34.7	0.193	30	43.788	56.924	20.0	34.7	0.328
	Point 9	32	28	35.171	45.723	11.0	25.7	0.182	0	0.000	0.000	11.0	25.7	0.000	20	25.122	32.659	11.0	25.7	0.139
	Point 10	66	0	0.000	0.000	24.5	39.2	0.000	30	46.836	60.887	25.0	39.7	0.394	32	49.325	64.123	24.0	38.7	0.411
	Point 11	51	30	43.152	56.098	19.0	33.7	0.293	18	25.891	33.659	19.0	33.7	0.185	30	43.152	56.098	19.0	33.7	0.313
	Point 12	21	30	32.993	42.891	5.0	19.7	0.131	0	0.000	0.000	5.0	19.7	0.000	28	30.793	40.031	5.0	19.7	0.131
	Total Oxygen Injected Per Day (lb)		**29.145**						**37.755**						**52.204**					
		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 3	Point 13	65	16	24.821	32.268	24.5	39.2	0.196	36	55.491	72.138	24.0	38.7	0.455	26	40.077	52.100	24.0	38.7	0.334
	Point 14	56	26	37.949	49.334	20.0	34.7	0.265	26	37.949	49.334	20.0	34.7	0.279	26	37.949	49.334	20.0	34.7	0.284
	Point 15	32	24	29.555	38.421	10.0	24.7	0.147	10	12.314	16.009	10.0	24.7	0.064	18	22.166	28.816	10.0	24.7	0.118
	Point 16	65	16	24.979	32.473	25.0	39.7	0.199	36	56.203	73.064	25.0	39.7	0.472	22	34.347	44.650	25.0	39.7	0.294
	Point 17	55	30	44.414	57.738	21.0	35.7	0.319	24	35.531	46.191	21.0	35.7	0.269	28	41.453	53.889	21.0	35.7	0.319
	Point 18	21	28	30.793	40.031	5.0	19.7	0.122	10	10.998	14.297	5.0	19.7	0.046	18	19.796	25.734	5.0	19.7	0.084
	Total Oxygen Injected Per Day (lb)		**39.935**						**50.701**						**45.864**					
		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 4	Point 19	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 20	45	26	35.403	46.024	15.5	30.2	0.215	22	29.707	38.620	15.0	29.7	0.187	32	43.211	56.174	15.0	29.7	0.277
	Point 21	21	32	34.287	44.574	4.0	18.7	0.129	12	12.858	16.715	4.0	18.7	0.051	32	34.287	44.574	4.0	18.7	0.138
	Point 22	65	20	31.224	40.591	25.0	39.7	0.249	20	31.224	40.591	25.0	39.7	0.262	32	50.272	65.354	25.5	40.2	0.436
	Point 23	55	26	37.398	48.618	19.0	33.7	0.254	20	28.768	37.398	19.0	33.7	0.205	32	46.029	59.837	19.0	33.7	0.334
	Point 24	21	32	35.192	45.750	5.0	19.7	0.139	12	13.197	17.156	5.0	19.7	0.055	34	37.392	48.609	5.0	19.7	0.159
	Total Oxygen Injected Per Day (lb)		**31.565**						**24.330**						**42.998**					
	System Total Per Day (lb)		**144.41**						**147.67**						**190.34**					

Appendix D - Table D-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
Conductivity (mS/cm)																
OU2MW-48S	66 North Clinton	--	--	0.413	--	0.220	--	--	0.219	--	--	0.475	--	--	0.317	--
OU2MW-48I	66 North Clinton	--	--	0.404	--	0.190	--	--	0.232	--	--	0.530	--	--	0.370	--
OU2MW-48I2	66 North Clinton	--	--	0.472	--	0.457	--	--	0.344	--	0.436	--	--	--	0.518	--
OU2MW-48D	66 North Clinton	--	--	0.101	--	0.092	--	--	0.147	--	0.920	--	--	--	0.118	--
OU2MW-49S	66 North Clinton	0.291	0.230	0.159	0.235	0.375	0.277	0.292	0.128	0.158	0.371	0.360	0.273	0.288	0.282	0.374
OU2MW-49I	66 North Clinton	0.461	0.380	0.454	0.362	0.638	0.436	0.451	0.443	0.958	0.775	0.501	0.372	0.475	0.723	0.857
OU2MW-49I2	66 North Clinton	0.356	0.294	0.595	0.313	0.108	0.449	0.410	0.322	0.502	0.526	0.373	0.261	0.241	0.273	0.333
OU2MW-49D	66 North Clinton	0.108	0.074	0.272	0.072	0.490	0.104	0.385	0.360	0.338	0.170	0.152	0.110	0.130	0.139	0.133
OU2MW-54S	66 North Clinton	--	--	0.557	--	0.399	--	--	0.390	--	0.485	--	--	--	--	0.446
OU2MW-54I	66 North Clinton	--	--	0.593	--	0.569	--	--	0.509	--	0.481	--	--	--	--	0.358
OU2MW-54I2	66 North Clinton	--	--	0.552	--	0.476	--	--	0.493	--	0.629	--	--	--	--	0.466
OU2MW-54D	66 North Clinton	--	--	0.339	--	0.178	--	--	0.281	--	0.382	--	--	--	--	0.340
OU2MW-57S	66 North Clinton	--	0.896	--	--	0.385	--	--	0.453	--	0.662	--	--	--	--	0.469
OU2MW-57I	66 North Clinton	--	0.417	--	--	0.240	--	--	0.412	--	0.807	--	--	--	--	0.510
OU2MW-57I2	66 North Clinton	--	0.432	--	--	0.538	--	--	1.040	--	0.837	--	--	--	--	0.582
OZMW-16S	OU-1 Union Boulevard	0.348	--	--	--	0.600	--	--	0.497	--	--	--	0.394	--	--	0.435
OZMW-16I	OU-1 Union Boulevard	0.740	--	--	--	0.673	--	--	0.717	--	--	--	0.763	--	--	0.788
OZMW-16I2	OU-1 Union Boulevard	0.459	--	--	--	0.558	--	--	0.482	--	--	--	0.299	--	--	0.487
OZMW-16D	OU-1 Union Boulevard	0.209	--	--	--	0.229	--	--	0.579	--	--	--	0.299	--	--	0.280
OZMW-17S	OU-1 Union Boulevard	0.690	0.680	1.320	0.877	1.505	0.565	0.580	0.478	0.593	0.703	0.589	0.495	0.457	0.499	0.465
OZMW-17I	OU-1 Union Boulevard	0.628	0.556	0.944	0.730	0.629	0.602	0.659	0.510	0.729	0.837	0.698	0.700	0.580	0.635	0.630
OZMW-17I2	OU-1 Union Boulevard	0.428	0.359	0.787	0.528	0.430	0.377	0.307	0.396	0.490	0.635	0.526	0.496	0.405	0.422	0.396
OZMW-17D	OU-1 Union Boulevard	0.465	0.322	0.555	0.451	0.872	0.363	0.522	0.221	0.315	0.323	0.280	0.269	0.225	0.284	0.328
OZMW-18S	OU-1 Union Boulevard	0.497	--	--	--	0.467	--	--	0.613	--	--	--	0.602	--	--	0.462
OZMW-18I	OU-1 Union Boulevard	0.696	--	--	--	0.718	--	--	0.676	--	--	--	0.674	--	--	0.750
OZMW-18I2	OU-1 Union Boulevard	0.332	--	--	--	0.400	--	--	0.548	--	--	--	0.570	--	--	0.430
OZMW-18D	OU-1 Union Boulevard	0.743	--	--	--	0.878	--	--	0.547	--	--	--	0.593	--	--	0.745
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	0.275	--	0.204	--	--	0.215	--	0.260	--	--	--	--	0.424
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	0.390	--	0.595	--	--	0.555	--	0.717	--	--	--	--	0.540
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	0.334	--	0.204	--	--	0.525	--	0.468	--	--	--	--	0.301
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	0.510	--	0.500	--	--	0.386	--	0.363	--	--	--	--	0.422
OU2MW-51S	OU-1 Union Boulevard (Ext.)	--	--	0.443	--	0.300	--	--	0.396	--	0.352	--	--	--	--	0.425
OU2MW-51I	OU-1 Union Boulevard (Ext.)	--	--	0.435	--	0.376	--	--	0.461	--	0.514	--	--	--	--	0.406
OU2MW-51I2	OU-1 Union Boulevard (Ext.)	--	--	0.375	--	0.167	--	--	0.360	--	0.283	--	--	--	--	0.416
OU2MW-51D	OU-1 Union Boulevard (Ext.)	--	--	0.219	--	0.108	--	--	0.115	--	0.124	--	--	--	--	0.126
Dissolved Oxygen (mg/L)																
OU2MW-48S	66 North Clinton	--	--	15.5	--	22.0	--	--	14.1	--	--	12.6	--	--	11.4	--
OU2MW-48I	66 North Clinton	--	--	0.0	--	0.0	--	--	0.0	--	--	1.6	--	--	2.3	--
OU2MW-48I2	66 North Clinton	--	--	0.6	--	0.6	--	--	0.0	--	1.7	--	--	--	4.3	--
OU2MW-48D	66 North Clinton	--	--	0.0	--	0.5	--	--	0.0	--	1.8	--	--	--	2.2	--
OU2MW-49S	66 North Clinton	28.0	26.0	0.0	28.0	28.0	27.0	20.0	0.0	0.0	14.0	22.0	18.0	19.0	29.0	29.0
OU2MW-49I	66 North Clinton	20.0	21.0	10.0	28.0	29.0	27.0	24.0	22.0	29.0	22	23.3	16.0	24.0	28.0	24.0
OU2MW-49I2	66 North Clinton	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	0.0	0.0	2.0
OU2MW-49D	66 North Clinton	0.0	0.0	9.0	1.0	0.0	0.0	0.0	23.0	18.0	2.0	3.0	0.0	0.0	0.0	0.4
OU2MW-54S	66 North Clinton	--	--	0.8	--	0.0	--	--	0.0	--	1.6	--	--	--	--	8.2
OU2MW-54I	66 North Clinton	--	--	0.0	--	3.8	--	--	2.1	--	1.9	--	--	--	--	2.1
OU2MW-54I2	66 North Clinton	--	--	0.6	--	0.4	--	--	1.7	--	1.8	--	--	--	--	1.4
OU2MW-54D	66 North Clinton	--	--	0.0	--	0.0	--	--	0.0	--	2.0	--	--	--	--	2.0
OU2MW-57S	66 North Clinton	--	0.0	--	--	0.4	--	--	1.9	--	1.6	--	--	--	--	6.3
OU2MW-57I	66 North Clinton	--	9.1	--	--	2.8	--	--	0.0	--	6.9	--	--	--	--	5.8
OU2MW-57I2	66 North Clinton	--	1.8	--	--	0.4	--	--	3.1	--	2.7	--	--	--	--	2.1
OZMW-16S	OU-1 Union Boulevard	26.0	--	--	--	25.0	--	--	26.0	--	--	--	25.0	--	--	39.0
OZMW-16I	OU-1 Union Boulevard	29.0	--	--	--	24.0	--	--	37.0	--	--	--	34.0	--	--	36.0
OZMW-16I2	OU-1 Union Boulevard	0.0	--	--	--	0.6	--	--	0.0	--	--	--	1.6	--	--	0.8
OZMW-16D	OU-1 Union Boulevard	0.0	--	--	--	0.0	--	--	0.0	--	--	--	5.0	--	--	1.8

Appendix D - Table D-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
OZMW-17S	OU-1 Union Boulevard	17.0	23.0	11.0	13.0	38.9	19.0	22.0	20.0	23.0	18.0	18.0	17.0	21.0	20.0	26.0
OZMW-17I	OU-1 Union Boulevard	22.0	32.0	28.0	47.0	24.0	22.0	31.0	24.0	32.0	26.0	22.0	24.0	24.0	30.0	27.0
OZMW-17I2	OU-1 Union Boulevard	7.0	7.0	5.0	14.0	5.0	5.0	12.0	9.0	6.0	8.0	7.0	7.0	5.0	2.0	2.0
OZMW-17D	OU-1 Union Boulevard	0.0	0.0	0.0	1.0	6.8	1.0	1.0	0.0	1.0	2.0	3.0	2.0	0.0	0.0	1.0
OZMW-18S	OU-1 Union Boulevard	22.0	--	--	--	27.0	--	--	30.0	--	--	--	30.0	--	--	36.0
OZMW-18I	OU-1 Union Boulevard	24.0	--	--	--	15.8	--	--	19.0	--	--	--	17.8	--	--	23.0
OZMW-18I2	OU-1 Union Boulevard	5.0	--	--	--	11.2	--	--	9.8	--	--	--	7.2	--	--	11.4
OZMW-18D	OU-1 Union Boulevard	0.0	--	--	--	11.0	--	--	0.0	--	--	--	1.4	--	--	3.8
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	0.7	--	0.0	--	--	17.6	--	38.0	--	--	--	--	29.0
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	0.0	--	0.4	--	--	0.0	--	2.6	--	--	--	--	1.9
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	3.6	--	6.6	--	--	0.0	--	0.0	--	--	--	--	0.6
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	0.1	--	0.4	--	--	1.7	--	0.0	--	--	--	--	7.5
OU2MW-51S	OU-1 Union Boulevard (Ext.)	--	--	1.1	--	1.4	--	--	21.0	--	32.0	--	--	--	--	36.0
OU2MW-51I	OU-1 Union Boulevard (Ext.)	--	--	0.3	--	0.0	--	--	30.0	--	36.0	--	--	--	--	20.0
OU2MW-51I2	OU-1 Union Boulevard (Ext.)	--	--	0.1	--	0.0	--	--	33.0	--	40.0	--	--	--	--	39.0
OU2MW-51D	OU-1 Union Boulevard (Ext.)	--	--	0.0	--	0.4	--	--	13.9	--	14.9	--	--	--	--	17.1
Oxidation Reduction Potential (mV)																
OU2MW-48S	66 North Clinton	--	--	133	--	213	--	--	145	--	--	193	--	--	150	--
OU2MW-48I	66 North Clinton	--	--	132	--	200	--	--	80	--	--	83	--	--	128	--
OU2MW-48I2	66 North Clinton	--	--	133	--	168	--	--	146	--	105	--	--	--	118	--
OU2MW-48D	66 North Clinton	--	--	98	--	80	--	--	21	--	63	--	--	--	118	--
OU2MW-49S	66 North Clinton	217	205	84	248	206	183	199	-7	27	140	229	183	220	243	330
OU2MW-49I	66 North Clinton	251	198	144	284	224	195	238	200	247	204	240	115	224	215	344
OU2MW-49I2	66 North Clinton	224	161	75	71	58	172	153	48	105	136	107	159	210	222	122
OU2MW-49D	66 North Clinton	73	49	147	59	118	41	30	173	230	26	43	4	38	47	40
OU2MW-54S	66 North Clinton	--	--	-86	--	-35	--	--	140	--	-59	--	--	--	--	51
OU2MW-54I	66 North Clinton	--	--	178	--	187	--	--	134	--	115	--	--	--	--	200
OU2MW-54I2	66 North Clinton	--	--	85	--	117	--	--	68	--	74	--	--	--	--	62
OU2MW-54D	66 North Clinton	--	--	217	--	200	--	--	162	--	168	--	--	--	--	193
OU2MW-57S	66 North Clinton	--	-86	--	--	-79	--	--	-45	--	-69	--	--	--	--	-20
OU2MW-57I	66 North Clinton	--	129	--	--	179	--	--	110	--	90	--	--	--	--	167
OU2MW-57I2	66 North Clinton	--	143	--	--	156	--	--	103	--	177	--	--	--	--	229
OZMW-16S	OU-1 Union Boulevard	167	--	--	--	187	--	--	-38	--	--	--	191	--	--	128
OZMW-16I	OU-1 Union Boulevard	140	--	--	--	183	--	--	68	--	--	--	181	--	--	258
OZMW-16I2	OU-1 Union Boulevard	-18	--	--	--	-60	--	--	-100	--	--	--	30	--	--	-15
OZMW-16D	OU-1 Union Boulevard	135	--	--	--	137	--	--	70	--	--	--	152	--	--	134
OZMW-17S	OU-1 Union Boulevard	219	116	91	180	177	85	33	107	25	59	140	170	138	118	134
OZMW-17I	OU-1 Union Boulevard	141	157	93	200	125	158	124	121	136	97	206	152	187	140	99
OZMW-17I2	OU-1 Union Boulevard	257	144	88	212	178	154	118	90	130	101	120	122	214	103	104
OZMW-17D	OU-1 Union Boulevard	51	74	58	52	123	68	25	56	52	46	87	107	56	78	70
OZMW-18S	OU-1 Union Boulevard	110	--	--	--	208	--	--	86	--	--	--	185	--	--	146
OZMW-18I	OU-1 Union Boulevard	88	--	--	--	108	--	--	143	--	--	--	245	--	--	135
OZMW-18I2	OU-1 Union Boulevard	69	--	--	--	180	--	--	155	--	--	--	66	--	--	154
OZMW-18D	OU-1 Union Boulevard	-2	--	--	--	-33	--	--	-31	--	--	--	-5	--	--	-58
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	-85	--	-66	--	--	93	--	123	--	--	--	--	292
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	97	--	155	--	--	60	--	41	--	--	--	--	120
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	39	--	108	--	--	190	--	142	--	--	--	--	98
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	-77	--	-15	--	--	-31	--	-57	--	--	--	--	48
OU2MW-51S	OU-1 Union Boulevard (Ext.)	--	--	-123	--	-72	--	--	-17	--	92	--	--	--	--	249
OU2MW-51I	OU-1 Union Boulevard (Ext.)	--	--	150	--	164	--	--	183	--	224	--	--	--	--	240
OU2MW-51I2	OU-1 Union Boulevard (Ext.)	--	--	-16	--	156	--	--	194	--	230	--	--	--	--	336
OU2MW-51D	OU-1 Union Boulevard (Ext.)	--	--	-208	--	10	--	--	118	--	160	--	--	--	--	275

Appendix D - Table D-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
pH (SU)																
OU2MW-48S	66 North Clinton	--	--	5.70	--	5.60	--	--	7.15	--	--	5.91	--	--	5.55	--
OU2MW-48I	66 North Clinton	--	--	5.59	--	5.20	--	--	7.00	--	--	5.77	--	--	5.26	--
OU2MW-48I2	66 North Clinton	--	--	5.54	--	5.51	--	--	6.39	--	5.46	--	--	--	5.26	--
OU2MW-48D	66 North Clinton	--	--	4.58	--	4.71	--	--	5.90	--	5.10	--	--	--	4.70	--
OU2MW-49S	66 North Clinton	5.73	6.74	4.81	5.70	5.69	5.90	6.20	5.37	6.76	5.56	5.85	6.38	6.22	5.46	5.69
OU2MW-49I	66 North Clinton	6.20	6.61	ER	5.52	5.38	5.53	5.99	5.74	5.46	5.31	5.74	6.22	5.94	5.94	5.40
OU2MW-49I2	66 North Clinton	6.13	6.51	5.42	5.61	6.52	5.69	6.14	5.67	6.11	5.55	5.58	6.23	6.18	5.74	5.91
OU2MW-49D	66 North Clinton	6.02	6.06	ER	5.26	6.42	5.98	6.00	5.97	5.72	4.91	4.93	5.68	6.02	6.59	5.54
OU2MW-54S	66 North Clinton	--	--	5.67	--	5.50	--	--	6.35	--	5.56	--	--	--	--	5.59
OU2MW-54I	66 North Clinton	--	--	5.61	--	5.58	--	--	5.71	--	5.44	--	--	--	--	5.22
OU2MW-54I2	66 North Clinton	--	--	5.63	--	5.87	--	--	5.96	--	5.65	--	--	--	--	6.28
OU2MW-54D	66 North Clinton	--	--	5.16	--	4.79	--	--	5.05	--	4.91	--	--	--	--	4.83
OU2MW-57S	66 North Clinton	--	6.11	--	--	5.75	--	--	5.60	--	5.75	--	--	--	--	6.30
OU2MW-57I	66 North Clinton	--	5.93	--	--	5.35	--	--	5.92	--	5.62	--	--	--	--	6.09
OU2MW-57I2	66 North Clinton	--	6.02	--	--	5.50	--	--	5.70	--	5.40	--	--	--	--	5.43
OZMW-16S	OU-1 Union Boulevard	7.12	--	--	--	6.03	--	--	6.59	--	--	--	6.00	--	--	6.80
OZMW-16I	OU-1 Union Boulevard	6.64	--	--	--	6.84	--	--	6.75	--	--	--	6.15	--	--	6.32
OZMW-16I2	OU-1 Union Boulevard	7.20	--	--	--	5.70	--	--	7.30	--	--	--	5.34	--	--	6.24
OZMW-16D	OU-1 Union Boulevard	4.69	--	--	--	5.95	--	--	5.15	--	--	--	4.55	--	--	4.37
OZMW-17S	OU-1 Union Boulevard	6.57	7.29	ER	6.26	12.22	6.74	6.65	7.14	6.25	6.17	6.11	6.25	6.74	7.00	6.76
OZMW-17I	OU-1 Union Boulevard	6.73	7.86	6.46	5.97	7.09	6.61	6.97	7.57	6.44	6.52	6.18	6.50	7.08	7.30	7.17
OZMW-17I2	OU-1 Union Boulevard	6.31	6.77	ER	5.91	7.18	6.10	6.35	6.51	5.45	5.31	4.97	5.44	5.72	5.96	5.75
OZMW-17D	OU-1 Union Boulevard	5.23	5.53	5.04	5.07	11.06	5.55	5.45	5.25	6.21	4.64	4.69	4.80	5.62	5.50	5.29
OZMW-18S	OU-1 Union Boulevard	7.18	--	--	--	6.47	--	--	6.86	--	--	--	6.44	--	--	6.90
OZMW-18I	OU-1 Union Boulevard	6.79	--	--	--	6.17	--	--	6.94	--	--	--	6.63	--	--	6.39
OZMW-18I2	OU-1 Union Boulevard	6.78	--	--	--	6.95	--	--	6.42	--	--	--	5.85	--	--	6.61
OZMW-18D	OU-1 Union Boulevard	5.73	--	--	--	5.26	--	--	7.77	--	--	--	5.37	--	--	5.37
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	ER	--	5.87	--	--	5.83	--	5.72	--	--	--	--	5.65
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	ER	--	5.49	--	--	6.00	--	5.84	--	--	--	--	5.35
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	ER	--	4.85	--	--	5.10	--	3.50	--	--	--	--	5.50
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	ER	--	5.35	--	--	5.46	--	7.00	--	--	--	--	5.72
OU2MW-51S	OU-1 Union Boulevard (Ext.)	--	--	ER	--	5.64	--	--	6.08	--	5.02	--	--	--	--	5.26
OU2MW-51I	OU-1 Union Boulevard (Ext.)	--	--	ER	--	5.21	--	--	5.19	--	5.25	--	--	--	--	5.59
OU2MW-51I2	OU-1 Union Boulevard (Ext.)	--	--	5.97	--	5.28	--	--	4.92	--	5.04	--	--	--	--	4.72
OU2MW-51D	OU-1 Union Boulevard (Ext.)	--	--	6.61	--	5.47	--	--	4.92	--	5.46	--	--	--	--	4.60
Temperature (degrees Celcius)																
OU2MW-48S	66 North Clinton	--	--	7.9	--	10.4	--	--	18.8	--	--	16.4	--	--	11.0	--
OU2MW-48I	66 North Clinton	--	--	12.8	--	12.3	--	--	16.2	--	--	15.3	--	--	12.6	--
OU2MW-48I2	66 North Clinton	--	--	11.9	--	12.6	--	--	15.8	--	15.2	--	--	--	11.6	--
OU2MW-48D	66 North Clinton	--	--	12.2	--	12.5	--	--	16.3	--	14.8	--	--	--	11.3	--
OU2MW-49S	66 North Clinton	10.8	9.7	13.3	13.3	14.3	18.1	20.2	15.2	15.2	20.1	15.4	14.5	12.3	11.8	13.2
OU2MW-49I	66 North Clinton	13.2	12.3	13.1	13.2	13.5	15.2	15.1	16.4	16.4	16.6	15.1	14.9	13.4	13.7	14.1
OU2MW-49I2	66 North Clinton	12.7	12.3	12.6	14.2	15.6	15.7	15.4	15.9	17.4	15.8	14.5	14.4	12.9	13.1	18.0
OU2MW-49D	66 North Clinton	12.5	12.1	12.1	13.5	14.3	15.3	15.0	21.3	20.8	15.7	13.9	14.3	13.2	13.5	14.0
OU2MW-54S	66 North Clinton	--	--	9.1	--	13.2	--	--	19.5	--	18.6	--	--	--	--	11.1
OU2MW-54I	66 North Clinton	--	--	14.1	--	13.0	--	--	15.6	--	15.1	--	--	--	--	13.6
OU2MW-54I2	66 North Clinton	--	--	12.3	--	13.7	--	--	15.6	--	13.9	--	--	--	--	13.2
OU2MW-54D	66 North Clinton	--	--	13.5	--	14.0	--	--	15.0	--	13.8	--	--	--	--	12.6
OU2MW-57S	66 North Clinton	--	11.2	--	--	12.5	--	--	22.7	--	20.3	--	--	--	--	12.7
OU2MW-57I	66 North Clinton	--	13.0	--	--	13.6	--	--	16.6	--	17.2	--	--	--	--	13.6
OU2MW-57I2	66 North Clinton	--	13.6	--	--	13.5	--	--	16.1	--	16.4	--	--	--	--	13.3
OZMW-16S	OU-1 Union Boulevard	12.1	--	--	--	13.4	--	--	17.9	--	--	--	14.6	--	--	11.6
OZMW-16I	OU-1 Union Boulevard	13.2	--	--	--	14.3	--	--	18.0	--	--	--	14.3	--	--	12.3
OZMW-16I2	OU-1 Union Boulevard	12.1	--	--	--	13.7	--	--	15.1	--	--	--	13.5	--	--	12.5
OZMW-16D	OU-1 Union Boulevard	11.9	--	--	--	16.3	--	--	15.1	--	--	--	12.9	--	--	11.9

Appendix D - Table D-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
OZMW-17S	OU-1 Union Boulevard	10.2	9.7	10.9	13.5	27.6	16.6	17.6	20.0	18.5	17.9	15.7	14.6	12.3	12.3	12.6
OZMW-17I	OU-1 Union Boulevard	12.6	12.1	13.0	12.0	15.5	15.3	16.1	16.4	15.4	15.4	14.7	14.3	13.2	13.7	13.8
OZMW-17I2	OU-1 Union Boulevard	12.0	12.0	12.7	14.3	15.4	15.4	15.1	16.3	10.4	14.5	14.2	12.3	13.0	13.3	13.4
OZMW-17D	OU-1 Union Boulevard	11.9	11.6	12.7	13.6	29.6	16.2	14.0	16.4	16.0	14.2	14.1	12.8	12.3	12.9	13.1
OZMW-18S	OU-1 Union Boulevard	12.1	--	--	--	14.5	--	--	18.6	--	--	--	15.5	--	--	12.0
OZMW-18I	OU-1 Union Boulevard	13.8	--	--	--	14.8	--	--	22.1	--	--	--	14.9	--	--	12.7
OZMW-18I2	OU-1 Union Boulevard	13.2	--	--	--	15.0	--	--	17.3	--	--	--	14.1	--	--	13.5
OZMW-18D	OU-1 Union Boulevard	13.4	--	--	--	16.8	--	--	17.4	--	--	--	13.6	--	--	12.6
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	8.9	--	11.9	--	--	21.6	--	17.7	--	--	--	--	13.5
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	11.7	--	13.2	--	--	19.1	--	16.5	--	--	--	--	15.5
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	12.7	--	13.5	--	--	15.6	--	15.0	--	--	--	--	16.2
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	11.6	--	12.7	--	--	ER	--	14.3	--	--	--	--	15.4
OU2MW-51S	OU-1 Union Boulevard (Ext.)	--	--	10.5	--	12.2	--	--	19.4	--	18.2	--	--	--	--	13.5
OU2MW-51I	OU-1 Union Boulevard (Ext.)	--	--	13.3	--	14.0	--	--	18.4	--	15.3	--	--	--	--	16.4
OU2MW-51I2	OU-1 Union Boulevard (Ext.)	--	--	14.6	--	14.0	--	--	15.3	--	14.4	--	--	--	--	14.5
OU2MW-51D	OU-1 Union Boulevard (Ext.)	--	--	13.3	--	13.3	--	--	17.4	--	14.4	--	--	--	--	15.0

Appendix D - Table D-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
Conductivity (mS/cm)				
OU2MW-48S	66 North Clinton	**0.287**	**0.293**	**0.317**
OU2MW-48I	66 North Clinton	**0.323**	**0.338**	**0.370**
OU2MW-48I2	66 North Clinton	**0.386**	**0.443**	**0.518**
OU2MW-48D	66 North Clinton	**0.178**	**0.207**	**0.118**
OU2MW-49S	66 North Clinton	**0.313**	**0.241**	**0.315**
OU2MW-49I	66 North Clinton	**0.449**	**0.472**	**0.685**
OU2MW-49I2	66 North Clinton	**0.433**	**0.327**	**0.282**
OU2MW-49D	66 North Clinton	**0.081**	**0.163**	**0.134**
OU2MW-54S	66 North Clinton	**NS**	**0.441**	**0.446**
OU2MW-54I	66 North Clinton	**NS**	**0.429**	**0.358**
OU2MW-54I2	66 North Clinton	**NS**	**0.476**	**0.466**
OU2MW-54D	66 North Clinton	**NS**	**0.273**	**0.340**
OU2MW-57S	66 North Clinton	**NS**	**0.518**	**0.469**
OU2MW-57I	66 North Clinton	**NS**	**0.430**	**0.510**
OU2MW-57I2	66 North Clinton	**NS**	**0.594**	**0.582**
OZMW-16S	OU-1 Union Boulevard	**0.440**	**0.569**	**0.435**
OZMW-16I	OU-1 Union Boulevard	**NS**	**0.690**	**0.788**
OZMW-16I2	OU-1 Union Boulevard	**0.296**	**0.585**	**0.487**
OZMW-16D	OU-1 Union Boulevard	**NS**	**1.158**	**0.280**
OZMW-17S	OU-1 Union Boulevard	**0.587**	**0.716**	**0.474**
OZMW-17I	OU-1 Union Boulevard	**0.689**	**0.603**	**0.615**
OZMW-17I2	OU-1 Union Boulevard	**0.237**	**0.415**	**0.408**
OZMW-17D	OU-1 Union Boulevard	**NS**	**0.766**	**0.279**
OZMW-18S	OU-1 Union Boulevard	**0.405**	**0.669**	**0.462**
OZMW-18I	OU-1 Union Boulevard	**0.496**	**0.645**	**0.750**
OZMW-18I2	OU-1 Union Boulevard	**0.482**	**0.542**	**0.430**
OZMW-18D	OU-1 Union Boulevard	**NS**	**1.386**	**0.745**
OU2MW-50S	OU-1 Union Boulevard (Ext.)	**0.240**	**0.238**	**0.424**
OU2MW-50I	OU-1 Union Boulevard (Ext.)	**0.493**	**0.636**	**0.540**
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	**0.269**	**0.497**	**0.301**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	**0.505**	**0.375**	**0.422**
OU2MW-51S	OU-1 Union Boulevard (Ext.)	**0.372**	**0.374**	**0.425**
OU2MW-51I	OU-1 Union Boulevard (Ext.)	**0.406**	**0.488**	**0.406**
OU2MW-51I2	OU-1 Union Boulevard (Ext.)	**0.271**	**0.322**	**0.416**
OU2MW-51D	OU-1 Union Boulevard (Ext.)	**0.164**	**0.120**	**0.126**
Dissolved Oxygen (mg/L)				
OU2MW-48S	66 North Clinton	**0.4**	**13.2**	**11.4**
OU2MW-48I	66 North Clinton	**0.0**	**0.2**	**2.3**
OU2MW-48I2	66 North Clinton	**0.0**	**0.4**	**4.3**
OU2MW-48D	66 North Clinton	**0.0**	**0.3**	**2.2**
OU2MW-49S	66 North Clinton	**0.0**	**17.2**	**25.7**
OU2MW-49I	66 North Clinton	**0.0**	**23.5**	**25.3**
OU2MW-49I2	66 North Clinton	**0.0**	**0.4**	**0.7**
OU2MW-49D	66 North Clinton	**0.0**	**3.1**	**0.1**
OU2MW-54S	66 North Clinton	**NS**	**0.3**	**8.2**
OU2MW-54I	66 North Clinton	**NS**	**1.7**	**2.1**
OU2MW-54I2	66 North Clinton	**NS**	**0.6**	**1.4**
OU2MW-54D	66 North Clinton	**NS**	**0.5**	**2.0**
OU2MW-57S	66 North Clinton	**NS**	**0.6**	**6.3**
OU2MW-57I	66 North Clinton	**NS**	**4.5**	**5.8**
OU2MW-57I2	66 North Clinton	**NS**	**1.3**	**2.1**
OZMW-16S	OU-1 Union Boulevard	**0.0**	**24.3**	**39.0**
OZMW-16I	OU-1 Union Boulevard	**NS**	**28.9**	**36.0**
OZMW-16I2	OU-1 Union Boulevard	**0.0**	**0.6**	**0.8**
OZMW-16D	OU-1 Union Boulevard	**NS**	**0.3**	**1.8**

Appendix D - Table D-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
OZMW-17S	OU-1 Union Boulevard	**0.0**	**15.9**	**22.3**
OZMW-17I	OU-1 Union Boulevard	**0.0**	**22.4**	**27.0**
OZMW-17I2	OU-1 Union Boulevard	**0.0**	**5.4**	**3.0**
OZMW-17D	OU-1 Union Boulevard	**NS**	**0.5**	**0.3**
OZMW-18S	OU-1 Union Boulevard	**0.0**	**23.3**	**36.0**
OZMW-18I	OU-1 Union Boulevard	**0.0**	**13.3**	**23.0**
OZMW-18I2	OU-1 Union Boulevard	**0.0**	**5.0**	**11.4**
OZMW-18D	OU-1 Union Boulevard	**NS**	**0.6**	**3.8**
OU2MW-50S	OU-1 Union Boulevard (Ext.)	**0.3**	**27.8**	**29.0**
OU2MW-50I	OU-1 Union Boulevard (Ext.)	**0.2**	**1.3**	**1.9**
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	**5.1**	**0.0**	**0.6**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	**0.3**	**0.9**	**7.5**
OU2MW-51S	OU-1 Union Boulevard (Ext.)	**1.3**	**26.5**	**36.0**
OU2MW-51I	OU-1 Union Boulevard (Ext.)	**0.2**	**33.0**	**20.0**
OU2MW-51I2	OU-1 Union Boulevard (Ext.)	**0.0**	**36.5**	**39.0**
OU2MW-51D	OU-1 Union Boulevard (Ext.)	**0.2**	**14.4**	**17.1**
Oxidation Reduction Potential (mV)				
OU2MW-48S	66 North Clinton	**-15**	**160**	**150**
OU2MW-48I	66 North Clinton	**-10**	**156**	**128**
OU2MW-48I2	66 North Clinton	**47**	**128**	**118**
OU2MW-48D	66 North Clinton	**87**	**85**	**118**
OU2MW-49S	66 North Clinton	**-6**	**166**	**264**
OU2MW-49I	66 North Clinton	**77**	**217**	**261**
OU2MW-49I2	66 North Clinton	**128**	**141**	**185**
OU2MW-49D	66 North Clinton	**36**	**76**	**42**
OU2MW-54S	66 North Clinton	**NS**	**-58**	**51**
OU2MW-54I	66 North Clinton	**NS**	**139**	**200**
OU2MW-54I2	66 North Clinton	**NS**	**67**	**62**
OU2MW-54D	66 North Clinton	**NS**	**160**	**193**
OU2MW-57S	66 North Clinton	**NS**	**-83**	**-20**
OU2MW-57I	66 North Clinton	**NS**	**104**	**167**
OU2MW-57I2	66 North Clinton	**NS**	**119**	**229**
OZMW-16S	OU-1 Union Boulevard	**-108**	**140**	**128**
OZMW-16I	OU-1 Union Boulevard	**NS**	**167**	**258**
OZMW-16I2	OU-1 Union Boulevard	**86**	**31**	**-15**
OZMW-16D	OU-1 Union Boulevard	**NS**	**84**	**134**
OZMW-17S	OU-1 Union Boulevard	**-137**	**68**	**130**
OZMW-17I	OU-1 Union Boulevard	**-144**	**107**	**142**
OZMW-17I2	OU-1 Union Boulevard	**110**	**122**	**140**
OZMW-17D	OU-1 Union Boulevard	**NS**	**53**	**68**
OZMW-18S	OU-1 Union Boulevard	**-112**	**108**	**146**
OZMW-18I	OU-1 Union Boulevard	**-168**	**57**	**135**
OZMW-18I2	OU-1 Union Boulevard	**-54**	**37**	**154**
OZMW-18D	OU-1 Union Boulevard	**NS**	**-31**	**-58**
OU2MW-50S	OU-1 Union Boulevard (Ext.)	**-76**	**108**	**292**
OU2MW-50I	OU-1 Union Boulevard (Ext.)	**126**	**51**	**120**
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	**74**	**166**	**98**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	**-46**	**-44**	**48**
OU2MW-51S	OU-1 Union Boulevard (Ext.)	**-98**	**38**	**249**
OU2MW-51I	OU-1 Union Boulevard (Ext.)	**157**	**204**	**240**
OU2MW-51I2	OU-1 Union Boulevard (Ext.)	**70**	**212**	**336**
OU2MW-51D	OU-1 Union Boulevard (Ext.)	**-99**	**139**	**275**

Appendix D - Table D-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
pH (SU)				
OU2MW-48S	66 North Clinton	**6.29**	**6.11**	**5.55**
OU2MW-48I	66 North Clinton	**5.82**	**5.66**	**5.26**
OU2MW-48I2	66 North Clinton	**6.00**	**5.90**	**5.26**
OU2MW-48D	66 North Clinton	**5.50**	**5.11**	**4.70**
OU2MW-49S	66 North Clinton	**6.03**	**5.93**	**5.79**
OU2MW-49I	66 North Clinton	**5.92**	**5.76**	**5.76**
OU2MW-49I2	66 North Clinton	**5.92**	**5.89**	**5.94**
OU2MW-49D	66 North Clinton	**5.63**	**5.73**	**6.05**
OU2MW-54S	66 North Clinton	**NS**	**6.35**	**5.59**
OU2MW-54I	66 North Clinton	**NS**	**5.67**	**5.22**
OU2MW-54I2	66 North Clinton	**NS**	**5.95**	**6.28**
OU2MW-54D	66 North Clinton	**NS**	**5.24**	**4.83**
OU2MW-57S	66 North Clinton	**NS**	**5.94**	**6.30**
OU2MW-57I	66 North Clinton	**NS**	**5.72**	**6.09**
OU2MW-57I2	66 North Clinton	**NS**	**5.70**	**5.43**
OZMW-16S	OU-1 Union Boulevard	**6.23**	**6.32**	**6.80**
OZMW-16I	OU-1 Union Boulevard	**NS**	**6.29**	**6.32**
OZMW-16I2	OU-1 Union Boulevard	**5.25**	**5.78**	**6.24**
OZMW-16D	OU-1 Union Boulevard	**NS**	**5.07**	**4.37**
OZMW-17S	OU-1 Union Boulevard	**6.42**	**6.71**	**6.83**
OZMW-17I	OU-1 Union Boulevard	**6.69**	**6.60**	**7.18**
OZMW-17I2	OU-1 Union Boulevard	**6.09**	**5.88**	**5.81**
OZMW-17D	OU-1 Union Boulevard	**NS**	**5.49**	**5.47**
OZMW-18S	OU-1 Union Boulevard	**6.34**	**6.20**	**6.90**
OZMW-18I	OU-1 Union Boulevard	**6.55**	**6.55**	**6.39**
OZMW-18I2	OU-1 Union Boulevard	**6.35**	**6.21**	**6.61**
OZMW-18D	OU-1 Union Boulevard	**NS**	**5.74**	**5.37**
OU2MW-50S	OU-1 Union Boulevard (Ext.)	**5.87**	**5.78**	**5.65**
OU2MW-50I	OU-1 Union Boulevard (Ext.)	**5.49**	**5.92**	**5.35**
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	**4.85**	**4.30**	**5.50**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	**5.35**	**6.23**	**5.72**
OU2MW-51S	OU-1 Union Boulevard (Ext.)	**5.64**	**5.55**	**5.26**
OU2MW-51I	OU-1 Union Boulevard (Ext.)	**5.21**	**5.22**	**5.59**
OU2MW-51I2	OU-1 Union Boulevard (Ext.)	**5.63**	**4.98**	**4.72**
OU2MW-51D	OU-1 Union Boulevard (Ext.)	**6.04**	**5.19**	**4.60**
Temperature (degrees Celcius)				
OU2MW-48S	66 North Clinton	**17.4**	**13.7**	**11.0**
OU2MW-48I	66 North Clinton	**15.7**	**14.2**	**12.6**
OU2MW-48I2	66 North Clinton	**15.3**	**14.1**	**11.6**
OU2MW-48D	66 North Clinton	**15.4**	**13.8**	**11.3**
OU2MW-49S	66 North Clinton	**19.4**	**16.6**	**12.4**
OU2MW-49I	66 North Clinton	**16.6**	**15.2**	**13.7**
OU2MW-49I2	66 North Clinton	**15.4**	**15.2**	**14.7**
OU2MW-49D	66 North Clinton	**15.7**	**15.2**	**13.6**
OU2MW-54S	66 North Clinton	**NS**	**14.9**	**11.1**
OU2MW-54I	66 North Clinton	**NS**	**14.4**	**13.6**
OU2MW-54I2	66 North Clinton	**NS**	**13.9**	**13.2**
OU2MW-54D	66 North Clinton	**NS**	**13.9**	**12.6**
OU2MW-57S	66 North Clinton	**NS**	**17.8**	**12.7**
OU2MW-57I	66 North Clinton	**NS**	**15.9**	**13.6**
OU2MW-57I2	66 North Clinton	**NS**	**16.2**	**13.3**
OZMW-16S	OU-1 Union Boulevard	**11.0**	**14.5**	**11.6**
OZMW-16I	OU-1 Union Boulevard	**NS**	**14.5**	**12.3**
OZMW-16I2	OU-1 Union Boulevard	**12.7**	**14.0**	**12.5**
OZMW-16D	OU-1 Union Boulevard	**NS**	**13.9**	**11.9**

Appendix D - Table D-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
OZMW-17S	OU-1 Union Boulevard	**10.9**	**15.1**	**12.4**
OZMW-17I	OU-1 Union Boulevard	**13.0**	**14.5**	**13.6**
OZMW-17I2	OU-1 Union Boulevard	**12.9**	**14.1**	**13.2**
OZMW-17D	OU-1 Union Boulevard	**NS**	**14.5**	**12.7**
OZMW-18S	OU-1 Union Boulevard	**9.4**	**14.7**	**12.0**
OZMW-18I	OU-1 Union Boulevard	**11.9**	**14.9**	**12.7**
OZMW-18I2	OU-1 Union Boulevard	**12.5**	**14.8**	**13.5**
OZMW-18D	OU-1 Union Boulevard	**NS**	**14.3**	**12.6**
OU2MW-50S	OU-1 Union Boulevard (Ext.)	**10.4**	**19.6**	**13.5**
OU2MW-50I	OU-1 Union Boulevard (Ext.)	**12.4**	**17.8**	**15.5**
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	**13.1**	**15.3**	**16.2**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	**12.1**	**14.3**	**15.4**
OU2MW-51S	OU-1 Union Boulevard (Ext.)	**11.4**	**18.8**	**13.5**
OU2MW-51I	OU-1 Union Boulevard (Ext.)	**13.7**	**16.8**	**16.4**
OU2MW-51I2	OU-1 Union Boulevard (Ext.)	**14.3**	**14.8**	**14.5**
OU2MW-51D	OU-1 Union Boulevard (Ext.)	**13.3**	**15.9**	**15.0**

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
Conductivity (mS/cm)																
OU2MW-28S	9 North Clinton	--	0.700	--	0.202	--	--	0.311	--	--	0.255	--	--	--	0.460	--
OU2MW-28I	9 North Clinton	--	0.391	--	0.303	--	--	0.341	--	--	0.542	--	--	--	0.804	--
OU2MW-28I2	9 North Clinton	--	0.363	--	0.246	--	--	0.340	--	--	0.300	--	--	--	0.326	--
OU2MW-29I	9 North Clinton	--	0.433	--	0.457	--	--	0.623	--	--	0.717	--	--	--	0.870	--
OU2MW-29I2	9 North Clinton	--	0.340	--	0.276	--	--	0.619	--	--	0.559	--	--	--	0.671	--
OU2MW-29D	9 North Clinton	--	0.297	--	0.244	--	--	0.565	--	--	0.563	--	--	--	0.833	--
OU2MW-30S	9 North Clinton	0.431	0.431	0.442	0.545	0.587	0.418	0.386	0.369	0.430	0.467	0.582	0.558	0.324	--	0.581
OU2MW-30I	9 North Clinton	0.323	0.340	0.512	0.419	0.686	0.584	0.628	0.635	0.695	0.664	0.665	0.580	0.487	--	0.610
OU2MW-30I2	9 North Clinton	0.279	0.318	0.491	0.586	0.554	0.465	0.538	0.602	0.623	0.640	0.612	0.552	0.442	--	0.519
OU2MW-30I3	9 North Clinton	0.411	0.411	0.392	0.485	0.390	0.330	0.362	0.297	0.302	0.325	0.429	0.990	0.385	--	0.496
OU2MW-30D	9 North Clinton	0.368	0.323	0.471	0.354	0.468	0.252	0.260	0.265	0.260	0.270	0.334	0.347	0.279	--	0.366
OU2MW-30D2	9 North Clinton	0.323	0.319	0.472	0.385	0.470	0.318	0.320	0.291	0.280	0.009	0.333	0.352	0.300	--	0.373
OU2MW-31I	9 North Clinton	--	ER	--	0.554	--	--	0.930	--	--	0.766	--	--	--	0.820	--
OU2MW-31I2	9 North Clinton	--	0.530	--	0.621	--	--	0.769	--	--	0.527	--	--	--	0.612	--
OU2MW-32S	9 North Clinton	--	ER	--	1.300	--	--	0.415	--	--	0.339	--	--	--	0.281	--
OU2MW-32I	9 North Clinton	--	0.857	--	0.720	--	--	0.659	--	--	0.757	--	--	--	0.686	--
OU2MW-32I2	9 North Clinton	--	0.855	--	0.485	--	--	0.700	--	--	0.525	--	--	--	0.696	--
OU2MW-32D	9 North Clinton	--	0.183	--	0.620	--	--	0.538	--	--	0.556	--	--	--	0.515	--
OU2MW-35S	33 North Clinton	--	0.789	--	--	0.354	--	--	0.255	--	--	0.268	--	--	0.384	--
OU2MW-35I	33 North Clinton	--	0.526	--	--	0.323	--	--	0.517	--	--	0.641	--	--	0.332	--
OU2MW-35I2	33 North Clinton	--	ER	--	--	0.246	--	--	0.293	--	--	0.365	--	--	0.206	--
OU2MW-35D	33 North Clinton	--	ER	--	--	0.520	--	--	0.680	--	--	0.405	--	--	0.421	--
OU2MW-36S	33 North Clinton	--	1.510	--	--	0.819	--	0.330	--	--	--	0.172	--	--	0.347	--
OU2MW-36I	33 North Clinton	--	0.557	--	--	0.339	--	0.544	--	--	--	0.575	--	--	0.610	--
OU2MW-36I2	33 North Clinton	--	0.325	--	--	0.189	--	0.375	--	--	--	0.421	--	--	0.301	--
OU2MW-36D	33 North Clinton	--	0.661	--	--	0.678	--	0.916	--	--	--	0.912	--	--	0.914	--
OU2MW-37S	33 North Clinton	--	0.361	--	--	0.398	--	--	0.427	--	--	0.523	--	--	0.457	--
OU2MW-37I	33 North Clinton	--	0.586	--	--	0.562	--	--	0.452	--	--	0.492	--	--	0.696	--
OU2MW-37I2	33 North Clinton	--	ER	--	--	0.449	--	--	0.374	--	--	0.657	--	--	0.370	--
OU2MW-37D	33 North Clinton	--	ER	--	--	0.506	--	--	0.445	--	--	0.230	--	--	0.355	--
OU2MW-39S	33 North Clinton	0.610	0.410	0.529	0.202	0.271	0.287	0.392	0.305	0.385	0.475	0.322	0.439	0.266	0.260	0.231
OU2MW-39I	33 North Clinton	0.612	0.584	0.493	0.379	0.570	0.520	0.536	0.788	0.643	0.842	0.714	0.808	0.552	0.302	0.630
OU2MW-39I2	33 North Clinton	0.198	0.272	0.615	0.271	0.449	0.343	0.360	0.387	0.410	0.461	0.307	0.383	0.352	--	0.424
OU2MW-39D	33 North Clinton	0.196	0.400	0.369	0.286	0.267	0.180	0.223	0.231	0.242	0.263	0.217	0.228	0.211	0.213	0.221
OU2MW-42S	33 North Clinton	--	0.531	--	--	0.254	--	--	0.420	--	--	0.630	--	--	0.592	--
OU2MW-42I	33 North Clinton	--	0.553	--	--	0.589	--	--	0.590	--	--	0.566	--	--	0.659	--
OU2MW-42I2	33 North Clinton	--	ER	--	--	0.224	--	--	0.343	--	--	0.370	--	--	0.467	--
OU2MW-42D	33 North Clinton	--	ER	--	--	1.390	--	--	1.110	--	--	1.450	--	--	1.600	--
OU2MW-45S	34 North Clinton	--	--	0.429	--	0.170	--	--	0.335	--	--	0.401	--	--	0.332	--
OU2MW-45I	34 North Clinton	--	--	0.911	0.495	--	--	--	0.429	--	--	0.636	--	--	0.612	--
OU2MW-45I2	34 North Clinton	--	--	0.725	--	0.453	--	--	0.310	--	--	0.480	--	--	0.510	--
OU2MW-45D	34 North Clinton	--	--	0.222	0.161	--	--	--	0.151	--	--	0.152	--	--	0.127	--
OU2MW-46S	34 North Clinton	--	1.750	--	0.879	--	--	--	1.200	--	--	0.607	--	--	0.572	--
OU2MW-46I	34 North Clinton	--	0.794	--	0.698	--	--	--	0.507	--	--	0.656	--	--	0.557	--
OU2MW-46I2	34 North Clinton	--	0.415	--	0.440	--	--	--	0.404	--	--	0.315	--	--	0.355	--
OU2MW-47S	34 North Clinton	0.338	0.393	0.252	0.292	0.222	0.271	0.730	0.361	0.556	0.374	0.405	0.310	0.353	0.347	0.370
OU2MW-47I	34 North Clinton	0.768	0.747	0.662	0.870	0.686	0.605	1.300	0.699	0.899	0.741	0.908	0.940	0.599	0.675	0.657
OU2MW-47I2	34 North Clinton	0.367	0.425	0.419	0.784	0.662	0.775	1.130	0.956	1.230	0.826	0.905	0.930	0.513	0.537	0.540
OU2MW-47D	34 North Clinton	0.664	0.660	0.472	0.661	0.565	0.414	0.411	0.366	0.752	0.899	1.240	1.210	0.729	0.620	0.639
OU2MW-19I	Cooper Lane	--	0.571	--	0.755	--	--	--	0.675	--	--	--	0.804	--	--	0.900
OU2MW-19I2	Cooper Lane	--	0.443	--	0.357	--	--	--	1.130	--	--	--	0.684	--	--	0.729
OU2MW-19D	Cooper Lane	--	0.574	--	0.342	--	--	--	0.435	--	--	--	0.413	--	--	0.568
OU2MW-20S	Cooper Lane	0.232	0.861	1.230	0.230	0.270	0.188	0.197	0.170	0.219	0.254	0.270	0.325	0.261	0.286	0.304
OU2MW-20I	Cooper Lane	0.513	0.527	1.520	0.662	0.644	0.469	0.525	0.630	0.680	0.705	0.607	0.670	0.648	0.600	0.702
OU2MW-20I2	Cooper Lane	0.356	0.310	0.713	0.308	0.515	0.419	0.656	0.425	0.614	0.683	0.559	0.528	0.453	0.577	0.467
OU2MW-20D	Cooper Lane	0.164	0.182	0.421	0.250	0.258	0.189	0.201	0.203	0.192	0.217	0.193	0.172	0.118	0.137	0.140

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
OU2MW-43S	Cooper Lane	--	--	0.740	--	0.385	--	0.822	--	--	--	0.798	--	--	--	0.657
OU2MW-43I	Cooper Lane	--	ER	--	--	0.372	--	0.640	--	--	--	0.708	--	--	--	0.722
OU2MW-43I2	Cooper Lane	--	ER	--	--	0.289	--	0.419	--	--	--	0.732	--	--	--	0.488
OU2MW-43D	Cooper Lane	--	0.125	--	--	0.612	--	0.936	--	--	--	0.460	--	--	--	1.040
OU2MW-44S	Cooper Lane	--	--	0.266	--	0.194	--	0.269	--	--	--	--	0.222	--	--	0.310
OU2MW-44I	Cooper Lane	--	--	0.254	--	0.198	--	0.263	--	--	--	--	0.394	--	--	0.336
OU2MW-44I2	Cooper Lane	--	--	0.413	--	0.315	--	0.407	--	--	--	--	0.519	--	--	0.474
OU2MW-44D	Cooper Lane	--	--	0.263	--	0.224	--	0.360	--	--	--	--	0.279	--	--	0.350
GMP-01	Manatuck Lane	0.349	--	--	0.505	--	--	--	--	0.488	--	--	0.623	--	--	0.613
GMP-02	Manatuck Lane	0.407	--	--	0.362	--	--	--	--	0.577	--	--	0.654	--	--	0.486
GMP-04	Manatuck Lane	0.391	--	--	--	0.391	--	--	--	0.633	--	--	0.681	--	--	0.688
OU2MW-06S	Manatuck Lane	0.155	0.156	0.192	0.190	0.323	0.692	0.301	0.230	0.359	0.384	0.251	0.319	0.288	0.287	0.259
OU2MW-06	Manatuck Lane	0.189	0.221	0.250	0.123	0.129	0.174	0.086	0.059	0.195	0.195	0.110	0.138	0.100	0.074	0.160
OU2MW-07S	Manatuck Lane	0.156	0.175	0.172	0.238	0.499	0.287	0.389	0.168	0.234	0.303	0.184	0.211	0.232	0.294	0.295
OU2MW-07	Manatuck Lane	0.392	0.329	0.527	0.396	0.558	0.563	0.192	0.407	0.451	0.523	0.401	0.394	0.349	0.424	0.582
OU2MW-52S	Manatuck Lane	--	0.053	--	--	0.090	--	--	0.162	--	0.097	--	--	--	--	0.046
OU2MW-52I	Manatuck Lane	--	0.399	--	--	0.619	--	--	0.709	--	0.661	--	--	--	--	0.369
OU2MW-52D	Manatuck Lane	--	0.076	--	--	0.275	--	--	0.102	--	0.187	--	--	--	--	0.143
OU2MW-53S	Manatuck Lane	--	--	0.130	--	0.263	--	--	--	0.193	0.111	--	--	--	--	0.141
OU2MW-53I	Manatuck Lane	--	--	0.438	--	0.609	--	--	--	0.468	0.272	--	--	--	--	0.440
OU2MW-53D	Manatuck Lane	--	--	0.202	--	0.176	--	--	--	0.114	0.062	--	--	--	--	0.048
BBMW-25S	Montauk Highway	0.209	0.229	0.496	0.244	0.416	0.290	0.270	0.318	0.280	0.424	0.296	0.274	0.212	0.306	0.319
BBMW-25I	Montauk Highway	0.480	0.454	0.795	0.348	0.563	0.333	0.415	0.440	0.609	0.794	0.601	0.633	0.483	0.527	0.656
BBMW-25D	Montauk Highway	0.066	0.076	0.232	0.080	0.162	0.061	0.052	0.136	0.086	0.121	0.076	0.072	0.082	0.088	0.080
OU2MW-01WT	Montauk Highway	0.595	0.869	3.240	1.460	1.760	0.980	0.565	0.610	1.010	0.723	0.627	0.636	0.607	0.577	0.694
OU2MW-01S	Montauk Highway	0.773	0.669	1.110	0.584	0.715	--	--	0.720	0.942	1.090	0.711	0.743	0.784	0.781	0.765
OU2MW-01I	Montauk Highway	0.518	0.481	0.879	0.516	0.660	--	--	0.549	0.532	0.697	0.511	0.538	0.387	0.387	0.499
OU2MW-01I2	Montauk Highway	0.077	0.050	0.109	0.043	0.080	--	--	0.064	0.073	0.081	0.069	0.070	0.078	0.078	0.085
OU2MW-01D	Montauk Highway	0.027	0.030	0.084	0.032	0.065	--	--	0.065	0.067	0.083	0.060	0.059	0.045	0.051	0.065
OU2MW-02S	Montauk Highway	--	0.537	--	0.381	--	--	--	--	0.658	--	0.688	--	--	--	--
OU2MW-02I	Montauk Highway	--	0.271	--	0.166	--	--	--	--	0.310	--	0.412	--	--	0.462	--
OU2MW-02I2	Montauk Highway	--	0.084	--	0.056	--	--	--	--	0.177	--	0.095	--	--	0.095	--
OU2MW-02D	Montauk Highway	--	0.053	--	0.036	--	--	--	--	0.051	--	0.056	--	--	0.052	--
OU2MW-03S	Montauk Highway	--	--	0.933	0.424	--	--	--	--	0.885	--	0.585	--	--	0.629	--
OU2MW-03I	Montauk Highway	--	--	0.461	0.206	--	--	--	--	0.272	--	0.236	--	--	0.241	--
OU2MW-03I2	Montauk Highway	--	--	0.206	0.107	--	--	--	--	0.107	--	0.126	--	--	0.100	--
OU2MW-03D	Montauk Highway	--	--	0.060	0.033	--	--	--	--	0.055	--	0.050	--	--	0.057	--
OU2MW-04WT	Montauk Highway	--	--	0.250	0.156	--	--	--	--	0.181	--	0.208	--	--	0.265	--
OU2MW-04S	Montauk Highway	--	--	0.871	0.512	--	--	--	--	0.958	--	0.927	--	--	0.797	--
OU2MW-04I	Montauk Highway	--	--	0.630	0.368	--	--	--	--	0.450	--	0.426	--	--	0.450	--
OU2MW-04I2	Montauk Highway	--	--	0.074	0.039	--	--	--	--	0.600	--	0.069	--	--	0.066	--
OU2MW-04D	Montauk Highway	--	--	0.075	0.047	--	--	--	--	0.870	--	0.072	--	--	0.075	--
OU2MW-08WT	Montauk Highway	--	0.857	--	0.460	--	--	0.565	--	--	--	0.505	--	--	0.597	--
OU2MW-08S	Montauk Highway	--	ER	--	1.040	--	--	0.819	--	--	--	0.760	--	--	0.800	--
OU2MW-08I	Montauk Highway	--	0.539	--	0.605	--	--	0.450	--	--	--	0.365	--	--	0.397	--
OU2MW-08I2	Montauk Highway	--	ER	--	0.491	--	--	0.910	--	--	--	0.678	--	--	0.805	--
OU2MW-08D	Montauk Highway	--	ER	--	0.054	--	--	0.092	--	--	--	0.057	--	--	0.057	--
OU2MW-55S	29 Community	--	0.321	--	--	--	0.227	--	0.369	--	0.402	--	--	--	--	0.376
OU2MW-55I	29 Community	--	0.457	--	--	--	0.620	--	0.520	--	0.549	--	--	--	--	0.488
OU2MW-55I2	29 Community	--	0.263	--	--	--	0.408	--	0.487	--	0.309	--	--	--	--	0.313
OU2MW-55D	29 Community	--	0.000	--	--	--	0.128	--	0.242	--	0.250	--	--	--	--	0.271
OU2MW-56S	29 Community	--	0.253	--	--	0.364	--	--	0.270	--	0.269	--	--	--	--	0.338
OU2MW-56I	29 Community	--	0.368	--	--	0.447	--	--	0.659	--	0.687	--	--	--	--	0.540
OU2MW-56I2	29 Community	--	0.257	--	--	0.286	--	--	0.488	--	0.390	--	--	--	--	0.328
OU2MW-56D	29 Community	--	0.283	--	--	0.320	--	--	0.368	--	0.316	--	--	--	--	0.383

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
Dissolved Oxygen (mg/L)																
OU2MW-28S	9 North Clinton	--	25.0	--	28.0	--	--	22.0	--	--	19.9	--	--	--	32.0	--
OU2MW-28I	9 North Clinton	--	28.0	--	29.0	--	--	28.0	--	--	26.0	--	--	--	37.0	--
OU2MW-28I2	9 North Clinton	--	29.0	--	32.0	--	--	25.0	--	--	20.0	--	--	--	33.0	--
OU2MW-29I	9 North Clinton	--	16.1	--	10.8	--	--	21.0	--	--	18.0	--	--	--	18.7	--
OU2MW-29I2	9 North Clinton	--	26.0	--	26.0	--	--	29.0	--	--	25.0	--	--	--	35.0	--
OU2MW-29D	9 North Clinton	--	0.0	--	0.5	--	--	0.0	--	--	2.4	--	--	--	2.0	--
OU2MW-30S	9 North Clinton	23.0	23.0	22.0	30.0	28.0	26.0	27.0	31.0	23.0	28.0	18.0	22.0	24.0	--	31.0
OU2MW-30I	9 North Clinton	24.0	31.0	21.0	41.2	34.1	29.0	35.0	37.0	33.0	34.0	23.0	26.0	37.0	--	40.0
OU2MW-30I2	9 North Clinton	25.0	28.0	24.0	29.0	32.0	31.0	31.0	40.0	32.0	42.0	26.0	28.0	37.0	--	36.0
OU2MW-30I3	9 North Clinton	20.0	33.0	26.0	29.0	28.0	29.0	30.0	32.0	29.0	20.0	29.0	38.0	36.0	--	34.0
OU2MW-30D	9 North Clinton	27.0	29.0	29.0	37.0	35.0	32.0	32.0	40.0	30.0	39.0	30.0	31.0	41.0	--	39.0
OU2MW-30D2	9 North Clinton	6.0	5.0	1.0	20.0	4.0	18.0	19.0	39.0	15.0	15.0	13.0	26.0	30.0	--	14.0
OU2MW-31I	9 North Clinton	--	19.0	--	37.0	--	--	27.0	--	--	23.0	--	--	--	25.0	--
OU2MW-31I2	9 North Clinton	--	19.0	--	32.0	--	--	23.0	--	--	28.0	--	--	--	30.0	--
OU2MW-32S	9 North Clinton	--	3.2	--	4.4	--	--	4.5	--	--	4.5	--	--	--	4.0	--
OU2MW-32I	9 North Clinton	--	1.3	--	0.6	--	--	0.0	--	--	1.9	--	--	--	1.7	--
OU2MW-32I2	9 North Clinton	--	10.2	--	0.0	--	--	0.0	--	--	0.0	--	--	--	1.7	--
OU2MW-32D	9 North Clinton	--	0.0	--	4.6	--	--	1.2	--	--	2.0	--	--	--	2.0	--
OU2MW-35S	33 North Clinton	--	35.0	--	--	34.0	--	--	24.0	--	--	27.0	--	--	32.0	--
OU2MW-35I	33 North Clinton	--	33.0	--	--	44.0	--	--	31.0	--	--	40.0	--	--	24.0	--
OU2MW-35I2	33 North Clinton	--	18.0	--	--	37.0	--	--	40.0	--	--	37.0	--	--	28.0	--
OU2MW-35D	33 North Clinton	--	22.0	--	--	37.0	--	--	22.0	--	--	13.1	--	--	31.0	--
OU2MW-36S	33 North Clinton	--	28.0	--	--	20.0	--	27.0	--	--	--	17.1	--	--	27.0	--
OU2MW-36I	33 North Clinton	--	4.8	--	--	48.0	--	36.0	--	--	--	37.0	--	--	33.0	--
OU2MW-36I2	33 North Clinton	--	10.5	--	--	11.4	--	8.7	--	--	--	4.8	--	--	10.0	--
OU2MW-36D	33 North Clinton	--	0.0	--	--	6.5	--	2.2	--	--	--	0.0	--	--	1.4	--
OU2MW-37S	33 North Clinton	--	27.0	--	--	18.2	--	--	29.8	--	--	24.0	--	--	24.0	--
OU2MW-37I	33 North Clinton	--	36.0	--	--	26.0	--	--	38.0	--	--	38.0	--	--	32.0	--
OU2MW-37I2	33 North Clinton	--	0.0	--	--	0.5	--	--	1.9	--	--	0.0	--	--	1.3	--
OU2MW-37D	33 North Clinton	--	0.7	--	--	0.7	--	--	2.1	--	--	0.0	--	--	1.5	--
OU2MW-39S	33 North Clinton	16.0	19.6	19.0	17.0	32.0	30.0	20.0	23.0	20.0	23.0	20.0	13.0	21.0	22.0	22.0
OU2MW-39I	33 North Clinton	25.0	24.0	12.0	30.0	29.0	28.0	32.0	27.0	26.0	33.0	42.0	30.0	26.0	2.0	34.0
OU2MW-39I2	33 North Clinton	1.0	0.0	1.0	2.0	1.0	1.0	2.0	2.0	3.0	2.0	1.0	2.0	1.0	--	2.0
OU2MW-39D	33 North Clinton	0.0	0.0	0.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
OU2MW-42S	33 North Clinton	--	0.0	--	--	2.5	--	--	2.3	--	--	1.0	--	--	5.5	--
OU2MW-42I	33 North Clinton	--	18.9	--	--	26.0	--	--	27.0	--	--	32.0	--	--	23.2	--
OU2MW-42I2	33 North Clinton	--	18.0	--	--	49.0	--	--	26.0	--	--	40.0	--	--	22.0	--
OU2MW-42D	33 North Clinton	--	13.0	--	--	28.0	--	--	27.0	--	--	42.0	--	--	28.0	--
OU2MW-45S	34 North Clinton	--	--	3.1	--	2.0	--	--	4.2	--	--	4.0	--	--	6.1	--
OU2MW-45I	34 North Clinton	--	--	21.0	23.0	--	--	--	25.0	--	--	16.0	--	--	17.2	--
OU2MW-45I2	34 North Clinton	--	--	24.0	--	9.6	--	--	20.0	--	--	22.0	--	--	19.6	--
OU2MW-45D	34 North Clinton	--	--	22.0	17.0	--	--	--	19.0	--	--	20.0	--	--	19.4	--
OU2MW-46S	34 North Clinton	--	27.0	--	29.0	--	--	--	29.0	--	--	31.0	--	--	36.0	--
OU2MW-46I	34 North Clinton	--	17.0	--	34.0	--	--	--	33.0	--	--	28.0	--	--	32.0	--
OU2MW-46I2	34 North Clinton	--	28.0	--	32.0	--	--	--	37.0	--	--	34.0	--	--	40.0	--
OU2MW-47S	34 North Clinton	20.0	21.0	22.0	26.0	24.0	26.0	29.0	22.0	38.0	24.0	22.0	21.0	24.0	20.0	30.0
OU2MW-47I	34 North Clinton	21.0	22.0	22.0	40.0	21.0	23.0	31.0	25.0	38.0	25.0	27.0	22.0	22.0	30.0	32.0
OU2MW-47I2	34 North Clinton	18.0	26.0	21.0	33.0	25.0	25.0	27.0	24.0	41.0	27.0	26.0	20.0	25.0	42.0	34.0
OU2MW-47D	34 North Clinton	29.0	26.0	25.0	27.0	27.0	28.0	29.0	33.0	31.0	27.0	36.0	20.0	22.0	33.0	33.0
OU2MW-19I	Cooper Lane	--	13.2	--	21.0	--	--	--	29.0	--	--	--	26.0	--	--	24.0
OU2MW-19I2	Cooper Lane	--	22.0	--	27.0	--	--	--	33.0	--	--	--	35.0	--	--	36.0
OU2MW-19D	Cooper Lane	--	2.0	--	1.7	--	--	--	10.3	--	--	--	17.0	--	--	15.8
OU2MW-20S	Cooper Lane	4.0	13.0	18.0	11.8	14.0	16.0	14.1	12.0	11.0	17.0	12.0	17.0	21.0	20.0	19.0
OU2MW-20I	Cooper Lane	22.0	20.0	22.0	20.0	23.0	24.0	25.0	34.0	26.0	33.0	23.0	24.0	20.0	32.0	22.0
OU2MW-20I2	Cooper Lane	2.0	0.6	1.0	1.5	2.0	0.0	2.1	1.0	0.0	2.0	5.0	2.0	0.6	2.0	1.0
OU2MW-20D	Cooper Lane	3.4	0.6	1.0	0.0	1.0	0.0	0.0	2.0	1.0	2.0	3.0	2.0	0.0	1.0	1.0

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OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
OU2MW-43S	Cooper Lane	--	--	14.6	--	18.0	--	18.9	--	--	--	27.0	--	--	--	29.0
OU2MW-43I	Cooper Lane	--	20.0	--	--	22.0	--	20.0	--	--	--	22.0	--	--	--	33.0
OU2MW-43I2	Cooper Lane	--	1.0	--	--	11.2	--	14.3	--	--	--	25.0	--	--	--	9.6
OU2MW-43D	Cooper Lane	--	10.1	--	--	28.0	--	23.0	--	--	--	6.9	--	--	--	20.0
OU2MW-44S	Cooper Lane	--	--	0.0	--	0.7	--	1.7	--	--	--	--	0.2	--	--	4.6
OU2MW-44I	Cooper Lane	--	--	0.0	--	10.7	--	0.0	--	--	--	--	3.3	--	--	2.8
OU2MW-44I2	Cooper Lane	--	--	0.0	--	0.5	--	0.0	--	--	--	--	2.8	--	--	1.5
OU2MW-44D	Cooper Lane	--	--	0.0	--	0.6	--	3.3	--	--	--	--	0.0	--	--	2.0
GMP-01	Manatuck Lane	0.0	--	--	0.0	--	--	--	--	0.4	--	--	1.9	--	--	0.0
GMP-02	Manatuck Lane	22.0	--	--	22.0	--	--	--	--	20.0	--	--	26.0	--	--	21.9
GMP-04	Manatuck Lane	6.7	--	--	--	17.8	--	--	--	10.8	--	--	20.0	--	--	16.3
OU2MW-06S	Manatuck Lane	9.0	11.0	14.0	17.0	13.0	9.0	9.0	6.0	7.0	10.0	12.0	14.0	17.0	16.0	20.0
OU2MW-06	Manatuck Lane	18.0	28.0	22.0	25.0	23.0	22.0	24.0	19.0	22.0	25.0	21.0	17.0	18.0	26.0	28.0
OU2MW-07S	Manatuck Lane	16.0	17.0	19.0	20.0	7.0	12.0	28.0	13.0	11.0	18.0	8.0	12.0	17.0	28.0	25.0
OU2MW-07	Manatuck Lane	17.0	28.0	28.0	22.0	26.0	27.0	22.0	25.0	32.0	37.0	38.0	18.0	20.0	36.0	30.0
OU2MW-52S	Manatuck Lane	--	7.3	--	--	3.0	--	--	1.8	--	1.6	--	--	--	--	0.0
OU2MW-52I	Manatuck Lane	--	14.1	--	--	16.9	--	--	27.0	--	22.0	--	--	--	--	24.0
OU2MW-52D	Manatuck Lane	--	23.0	--	--	25.0	--	--	10.3	--	27.0	--	--	--	--	34.0
OU2MW-53S	Manatuck Lane	--	--	6.2	--	4.2	--	--	--	3.6	4.6	--	--	--	--	0.0
OU2MW-53I	Manatuck Lane	--	--	24.0	--	21.0	--	--	--	35.0	19.9	--	--	--	--	20.0
OU2MW-53D	Manatuck Lane	--	--	3.9	--	0.6	--	--	--	3.1	2.0	--	--	--	--	0.0
BBMW-25S	Montauk Highway	21.0	41.0	20.0	27.0	16.1	46.0	34.0	26.0	34.0	24.0	15.0	28.0	37.0	29.0	35.0
BBMW-25I	Montauk Highway	23.0	34.0	22.0	24.0	53.0	41.0	36.0	30.0	39.0	38.0	23.0	33.0	30.0	39.0	29.0
BBMW-25D	Montauk Highway	24.0	24.0	11.0	15.0	31.0	17.0	13.0	34.0	10.0	20.0	19.0	16.0	24.0	20.0	21.0
OU2MW-01WT	Montauk Highway	15.0	11.0	13.0	18.0	33.0	15.0	20.0	10.0	15.0	15.0	15.0	9.0	19.0	20.0	28.0
OU2MW-01S	Montauk Highway	12.0	16.0	23.0	26.0	29.0	--	--	20.0	28.0	25.0	28.0	31.0	25.0	21.0	26.0
OU2MW-01I	Montauk Highway	37.0	37.0	24.0	24.0	28.0	--	--	21.0	20.0	29.0	24.0	36.0	33.0	30.0	33.0
OU2MW-01I2	Montauk Highway	3.0	8.0	11.0	16.0	15.0	--	--	3.3	5.0	2.0	2.0	2.0	11.0	15.0	10.0
OU2MW-01D	Montauk Highway	0.0	1.0	1.0	0.4	1.0	--	--	1.7	14.0	3.0	6.0	2.0	1.0	3.0	1.0
OU2MW-02S	Montauk Highway	--	9.2	--	28.0	--	--	--	--	30.0	--	10.9	--	--	--	--
OU2MW-02I	Montauk Highway	--	9.1	--	3.3	--	--	--	--	0.0	--	4.5	--	--	1.6	--
OU2MW-02I2	Montauk Highway	--	0.7	--	0.5	--	--	--	--	0.0	--	2.1	--	--	0.0	--
OU2MW-02D	Montauk Highway	--	1.0	--	0.5	--	--	--	--	2.1	--	3.0	--	--	2.0	--
OU2MW-03S	Montauk Highway	--	--	0.6	0.0	--	--	--	--	2.0	--	2.4	--	--	12.8	--
OU2MW-03I	Montauk Highway	--	--	21.0	16.7	--	--	--	--	37.0	--	29.0	--	--	37.1	--
OU2MW-03I2	Montauk Highway	--	--	23.0	24.0	--	--	--	--	0.0	--	37.0	--	--	28.0	--
OU2MW-03D	Montauk Highway	--	--	0.0	0.7	--	--	--	--	0.0	--	4.1	--	--	2.1	--
OU2MW-04WT	Montauk Highway	--	--	6.3	7.7	--	--	--	--	3.3	--	3.4	--	--	4.9	--
OU2MW-04S	Montauk Highway	--	--	0.8	0.7	--	--	--	--	2.3	--	8.7	--	--	2.1	--
OU2MW-04I	Montauk Highway	--	--	1.2	2.0	--	--	--	--	1.2	--	8.7	--	--	5.2	--
OU2MW-04I2	Montauk Highway	--	--	0.0	1.3	--	--	--	--	0.0	--	2.4	--	--	2.7	--
OU2MW-04D	Montauk Highway	--	--	0.0	0.0	--	--	--	--	0.0	--	2.3	--	--	2.0	--
OU2MW-08WT	Montauk Highway	--	9.2	--	6.1	--	--	6.0	--	--	--	6.8	--	--	9.6	--
OU2MW-08S	Montauk Highway	--	0.0	--	0.0	--	--	0.0	--	--	--	0.0	--	--	26.0	--
OU2MW-08I	Montauk Highway	--	24.0	--	32.0	--	--	18.5	--	--	--	10.4	--	--	22.0	--
OU2MW-08I2	Montauk Highway	--	0.0	--	5.1	--	--	0.0	--	--	--	2.6	--	--	1.9	--
OU2MW-08D	Montauk Highway	--	0.0	--	0.0	--	--	0.0	--	--	--	0.0	--	--	1.9	--
OU2MW-55S	29 Community	--	13.6	--	--	--	33.0	--	18.0	--	23.0	--	--	--	--	6.0
OU2MW-55I	29 Community	--	10.0	--	--	--	29.0	--	20.0	--	34.0	--	--	--	--	13.3
OU2MW-55I2	29 Community	--	14.0	--	--	--	33.0	--	30.0	--	37.0	--	--	--	--	6.8
OU2MW-55D	29 Community	--	11.0	--	--	--	12.5	--	15.2	--	34.0	--	--	--	--	17.9
OU2MW-56S	29 Community	--	0.0	--	--	0.8	--	--	24.0	--	26.0	--	--	--	--	19.2
OU2MW-56I	29 Community	--	10.4	--	--	10.3	--	--	18.4	--	28.0	--	--	--	--	25.0
OU2MW-56I2	29 Community	--	5.9	--	--	5.3	--	--	29.0	--	24.0	--	--	--	--	34.0
OU2MW-56D	29 Community	--	18.0	--	--	10.9	--	--	8.9	--	15.2	--	--	--	--	15.0

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
Oxidation Reduction Potential (mV)																
OU2MW-28S	9 North Clinton	--	215	--	284	--	--	175	--	--	196	--	--	--	341	--
OU2MW-28I	9 North Clinton	--	219	--	287	--	--	220	--	--	195	--	--	--	319	--
OU2MW-28I2	9 North Clinton	--	145	--	261	--	--	163	--	--	206	--	--	--	311	--
OU2MW-29I	9 North Clinton	--	239	--	234	--	--	199	--	--	213	--	--	--	250	--
OU2MW-29I2	9 North Clinton	--	229	--	238	--	--	193	--	--	235	--	--	--	356	--
OU2MW-29D	9 North Clinton	--	-117	--	-108	--	--	-117	--	--	-92	--	--	--	-127	--
OU2MW-30S	9 North Clinton	217	224	187	219	158	178	184	189	176	209	260	269	220	--	285
OU2MW-30I	9 North Clinton	213	235	206	246	168	194	168	174	160	186	260	247	2	--	261
OU2MW-30I2	9 North Clinton	208	246	194	296	166	208	201	187	173	202	266	245	155	--	275
OU2MW-30I3	9 North Clinton	208	217	182	229	230	216	184	136	193	193	268	252	218	--	309
OU2MW-30D	9 North Clinton	200	236	212	260	206	213	200	143	194	208	280	260	203	--	325
OU2MW-30D2	9 North Clinton	175	174	161	180	153	172	180	123	202	178	261	245	215	--	301
OU2MW-31I	9 North Clinton	--	221	--	224	--	--	202	--	--	194	--	--	--	270	--
OU2MW-31I2	9 North Clinton	--	199	--	247	--	--	213	--	--	182	--	--	--	248	--
OU2MW-32S	9 North Clinton	--	183	--	95	--	--	110	--	--	84	--	--	--	305	--
OU2MW-32I	9 North Clinton	--	-104	--	-83	--	--	-107	--	--	-130	--	--	--	-122	--
OU2MW-32I2	9 North Clinton	--	-91	--	-40	--	--	-90	--	--	-67	--	--	--	-57	--
OU2MW-32D	9 North Clinton	--	78	--	285	--	--	142	--	--	66	--	--	--	145	--
OU2MW-35S	33 North Clinton	--	205	--	--	237	--	--	125	--	--	140	--	--	200	--
OU2MW-35I	33 North Clinton	--	212	--	--	194	--	--	142	--	--	256	--	--	195	--
OU2MW-35I2	33 North Clinton	--	291	--	--	301	--	--	317	--	--	326	--	--	347	--
OU2MW-35D	33 North Clinton	--	345	--	--	264	--	--	327	--	--	240	--	--	343	--
OU2MW-36S	33 North Clinton	--	229	--	--	227	--	150	--	--	--	150	--	--	307	--
OU2MW-36I	33 North Clinton	--	235	--	--	235	--	204	--	--	--	278	--	--	289	--
OU2MW-36I2	33 North Clinton	--	343	--	--	285	--	265	--	--	--	340	--	--	151	--
OU2MW-36D	33 North Clinton	--	6	--	--	-43	--	-12	--	--	--	-19	--	--	51	--
OU2MW-37S	33 North Clinton	--	182	--	--	190	--	--	201	--	--	267	--	--	254	--
OU2MW-37I	33 North Clinton	--	122	--	--	222	--	--	232	--	--	280	--	--	291	--
OU2MW-37I2	33 North Clinton	--	189	--	--	111	--	--	221	--	--	184	--	--	112	--
OU2MW-37D	33 North Clinton	--	92	--	--	128	--	--	84	--	--	82	--	--	145	--
OU2MW-39S	33 North Clinton	177	225	157	257	197	171	170	140	130	149	140	180	177	187	160
OU2MW-39I	33 North Clinton	164	191	105	135	155	133	120	130	140	129	203	175	164	182	120
OU2MW-39I2	33 North Clinton	211	246	175	203	182	130	199	166	140	100	117	135	145	--	157
OU2MW-39D	33 North Clinton	100	76	30	129	94	50	54	54	86	73	86	108	111	103	113
OU2MW-42S	33 North Clinton	--	-14	--	--	24	--	--	-45	--	--	-54	--	--	18	--
OU2MW-42I	33 North Clinton	--	76	--	--	166	--	--	152	--	--	84	--	--	88	--
OU2MW-42I2	33 North Clinton	--	297	--	--	222	--	--	263	--	--	291	--	--	320	--
OU2MW-42D	33 North Clinton	--	439	--	--	391	--	--	401	--	--	372	--	--	395	--
OU2MW-45S	34 North Clinton	--	--	7	--	39	--	--	40	--	--	35	--	--	71	--
OU2MW-45I	34 North Clinton	--	--	38	125	--	--	--	99	--	--	111	--	--	178	--
OU2MW-45I2	34 North Clinton	--	--	204	--	194	--	--	185	--	--	274	--	--	151	--
OU2MW-45D	34 North Clinton	--	--	210	279	--	--	--	102	--	--	239	--	--	250	--
OU2MW-46S	34 North Clinton	--	254	--	243	--	--	--	182	--	--	277	--	--	220	--
OU2MW-46I	34 North Clinton	--	224	--	239	--	--	--	177	--	--	254	--	--	220	--
OU2MW-46I2	34 North Clinton	--	254	--	243	--	--	--	234	--	--	276	--	--	248	--
OU2MW-47S	34 North Clinton	266	273	216	284	196	193	215	205	137	213	244	188	261	266	203
OU2MW-47I	34 North Clinton	424	261	205	236	171	164	160	183	114	205	222	176	231	238	333
OU2MW-47I2	34 North Clinton	223	239	195	256	188	164	220	206	73	218	256	187	241	235	168
OU2MW-47D	34 North Clinton	379	262	189	240	183	152	208	188	153	217	241	179	240	248	347
OU2MW-19I	Cooper Lane	--	73	--	95	--	--	--	106	--	--	--	263	--	--	233
OU2MW-19I2	Cooper Lane	--	184	--	271	--	--	--	123	--	--	--	279	--	--	289
OU2MW-19D	Cooper Lane	--	40	--	114	--	--	--	110	--	--	--	223	--	--	269
OU2MW-20S	Cooper Lane	193	199	152	220	199	127	152	90	138	198	255	220	199	355	320
OU2MW-20I	Cooper Lane	234	99	180	198	151	103	150	178	158	221	265	218	142	337	294
OU2MW-20I2	Cooper Lane	182	118	96	196	118	98	124	61	72	115	133	172	102	205	70
OU2MW-20D	Cooper Lane	180	181	80	215	186	140	102	127	94	123	158	153	133	217	198

Appendix D - Table D-2
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OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
OU2MW-43S	Cooper Lane	--	--	-12	--	146	--	51	--	--	--	125	--	--	--	176
OU2MW-43I	Cooper Lane	--	182	--	--	210	--	117	--	--	--	210	--	--	--	257
OU2MW-43I2	Cooper Lane	--	61	--	--	219	--	40	--	--	--	213	--	--	--	203
OU2MW-43D	Cooper Lane	--	105	--	--	248	--	105	--	--	--	153	--	--	--	100
OU2MW-44S	Cooper Lane	--	--	68	--	78	--	-25	--	--	--	--	-19	--	--	18
OU2MW-44I	Cooper Lane	--	--	108	--	231	--	110	--	--	--	--	163	--	--	216
OU2MW-44I2	Cooper Lane	--	--	112	--	115	--	-60	--	--	--	--	88	--	--	78
OU2MW-44D	Cooper Lane	--	--	178	--	153	--	129	--	--	--	--	147	--	--	202
GMP-01	Manatuck Lane	-132	--	--	-140	--	--	--	--	-195	--	--	-167	--	--	-100
GMP-02	Manatuck Lane	188	--	--	188	--	--	--	--	132	--	--	292	--	--	162
GMP-04	Manatuck Lane	145	--	--	--	231	--	--	--	132	--	--	211	--	--	125
OU2MW-06S	Manatuck Lane	233	206	172	239	169	149	128	130	113	176	157	148	265	225	185
OU2MW-06	Manatuck Lane	241	218	192	306	186	165	166	185	175	211	177	182	309	230	217
OU2MW-07S	Manatuck Lane	228	206	207	299	77	159	205	194	157	202	160	174	293	355	357
OU2MW-07	Manatuck Lane	225	209	171	315	177	170	199	201	169	211	136	183	323	345	212
OU2MW-52S	Manatuck Lane	--	197	--	--	272	--	--	164	--	150	--	--	--	--	245
OU2MW-52I	Manatuck Lane	--	171	--	--	260	--	--	141	--	183	--	--	--	--	209
OU2MW-52D	Manatuck Lane	--	139	--	--	290	--	--	90	--	236	--	--	--	--	241
OU2MW-53S	Manatuck Lane	--	--	133	--	138	--	--	--	63	147	--	--	--	--	202
OU2MW-53I	Manatuck Lane	--	--	135	--	278	--	--	--	163	180	--	--	--	--	226
OU2MW-53D	Manatuck Lane	--	--	44	--	49	--	--	--	30	38	--	--	--	--	35
BBMW-25S	Montauk Highway	220	185	195	279	279	162	144	209	183	177	270	268	200	318	375
BBMW-25I	Montauk Highway	99	82	141	228	246	140	133	142	110	166	252	295	196	229	343
BBMW-25D	Montauk Highway	211	227	188	258	288	160	187	119	217	207	266	304	340	326	385
OU2MW-01WT	Montauk Highway	112	121	101	83	193	-28	122	-2	10	46	83	154	229	212	339
OU2MW-01S	Montauk Highway	162	195	206	198	297	--	--	271	205	222	277	324	349	338	359
OU2MW-01I	Montauk Highway	188	187	169	169	255	--	--	169	152	177	220	262	209	230	292
OU2MW-01I2	Montauk Highway	212	184	161	167	277	--	--	148	162	150	199	180	313	320	311
OU2MW-01D	Montauk Highway	219	217	235	123	157	--	--	65	60	41	107	121	105	240	172
OU2MW-02S	Montauk Highway	--	163	--	206	--	--	--	--	211	--	169	--	--	--	--
OU2MW-02I	Montauk Highway	--	-87	--	-55	--	--	--	--	-76	--	-32	--	--	-74	--
OU2MW-02I2	Montauk Highway	--	-17	--	16	--	--	--	--	-10	--	13	--	--	9	--
OU2MW-02D	Montauk Highway	--	54	--	84	--	--	--	--	80	--	114	--	--	78	--
OU2MW-03S	Montauk Highway	--	--	-106	-80	--	--	--	--	-102	--	-97	--	--	119	--
OU2MW-03I	Montauk Highway	--	--	195	230	--	--	--	--	224	--	236	--	--	259	--
OU2MW-03I2	Montauk Highway	--	--	139	246	--	--	--	--	160	--	178	--	--	261	--
OU2MW-03D	Montauk Highway	--	--	96	105	--	--	--	--	47	--	68	--	--	75	--
OU2MW-04WT	Montauk Highway	--	--	195	246	--	--	--	--	2	--	40	--	--	253	--
OU2MW-04S	Montauk Highway	--	--	-145	-96	--	--	--	--	-130	--	-32	--	--	-63	--
OU2MW-04I	Montauk Highway	--	--	0	18	--	--	--	--	17	--	80	--	--	101	--
OU2MW-04I2	Montauk Highway	--	--	180	79	--	--	--	--	-10	--	-79	--	--	-50	--
OU2MW-04D	Montauk Highway	--	--	64	16	--	--	--	--	-33	--	0	--	--	5	--
OU2MW-08WT	Montauk Highway	--	212	--	36	--	--	87	--	--	--	157	--	--	220	--
OU2MW-08S	Montauk Highway	--	-82	--	-69	--	--	-84	--	--	--	-82	--	--	204	--
OU2MW-08I	Montauk Highway	--	134	--	212	--	--	123	--	--	--	94	--	--	234	--
OU2MW-08I2	Montauk Highway	--	-100	--	-113	--	--	-112	--	--	--	-131	--	--	-161	--
OU2MW-08D	Montauk Highway	--	64	--	130	--	--	68	--	--	--	40	--	--	18	--
OU2MW-55S	29 Community	--	105	--	--	--	196	--	104	--	124	--	--	--	--	140
OU2MW-55I	29 Community	--	220	--	--	--	197	--	150	--	240	--	--	--	--	142
OU2MW-55I2	29 Community	--	190	--	--	--	223	--	162	--	257	--	--	--	--	285
OU2MW-55D	29 Community	--	135	--	--	--	249	--	208	--	285	--	--	--	--	339
OU2MW-56S	29 Community	--	208	--	--	55	--	--	70	--	169	--	--	--	--	112
OU2MW-56I	29 Community	--	13	--	--	39	--	--	5	--	55	--	--	--	--	60
OU2MW-56I2	29 Community	--	141	--	--	178	--	--	210	--	232	--	--	--	--	313
OU2MW-56D	29 Community	--	236	--	--	194	--	--	184	--	241	--	--	--	--	326

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OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
pH (SU)																
OU2MW-28S	9 North Clinton	--	5.78	--	5.66	--	--	6.00	--	--	6.59	--	--	--	5.39	--
OU2MW-28I	9 North Clinton	--	5.63	--	5.39	--	--	5.82	--	--	6.47	--	--	--	5.50	--
OU2MW-28I2	9 North Clinton	--	5.79	--	5.45	--	--	5.26	--	--	6.05	--	--	--	5.05	--
OU2MW-29I	9 North Clinton	--	5.08	--	5.14	--	--	5.02	--	--	5.49	--	--	--	5.16	--
OU2MW-29I2	9 North Clinton	--	5.57	--	5.19	--	--	5.56	--	--	5.49	--	--	--	4.94	--
OU2MW-29D	9 North Clinton	--	6.10	--	6.11	--	--	6.61	--	--	6.28	--	--	--	5.71	--
OU2MW-30S	9 North Clinton	6.55	5.99	6.39	5.60	5.21	5.60	5.35	5.70	5.54	6.02	5.70	5.49	5.35	--	5.39
OU2MW-30I	9 North Clinton	6.40	5.61	5.73	5.55	5.38	5.44	5.33	5.93	5.87	6.27	5.95	5.75	5.60	--	5.65
OU2MW-30I2	9 North Clinton	6.71	5.59	5.91	5.44	5.32	5.29	5.17	5.86	5.71	6.12	5.98	5.69	5.65	--	5.55
OU2MW-30I3	9 North Clinton	6.75	5.89	6.40	5.53	6.19	5.27	5.95	5.45	5.85	2.85	5.86	4.91	5.31	--	5.22
OU2MW-30D	9 North Clinton	6.46	5.66	5.54	5.16	5.52	5.06	5.85	5.43	5.67	5.49	5.64	4.60	5.23	--	5.20
OU2MW-30D2	9 North Clinton	6.78	5.95	5.94	5.49	5.71	5.50	5.92	5.32	5.50	5.09	5.00	4.78	5.24	--	5.02
OU2MW-31I	9 North Clinton	--	5.72	--	6.01	--	--	5.95	--	--	6.23	--	--	--	5.04	--
OU2MW-31I2	9 North Clinton	--	5.73	--	5.60	--	--	4.97	--	--	5.07	--	--	--	5.47	--
OU2MW-32S	9 North Clinton	--	5.98	--	5.90	--	--	6.30	--	--	5.00	--	--	--	5.37	--
OU2MW-32I	9 North Clinton	--	6.05	--	5.83	--	--	7.90	--	--	6.68	--	--	--	5.92	--
OU2MW-32I2	9 North Clinton	--	5.89	--	6.67	--	--	6.65	--	--	7.90	--	--	--	5.52	--
OU2MW-32D	9 North Clinton	--	6.95	--	4.97	--	--	5.02	--	--	5.89	--	--	--	4.94	--
OU2MW-35S	33 North Clinton	--	6.01	--	--	5.18	--	--	5.60	--	--	5.72	--	--	5.48	--
OU2MW-35I	33 North Clinton	--	5.96	--	--	5.57	--	--	5.88	--	--	6.26	--	--	5.84	--
OU2MW-35I2	33 North Clinton	--	5.01	--	--	4.32	--	--	5.25	--	--	5.01	--	--	4.63	--
OU2MW-35D	33 North Clinton	--	4.47	--	--	4.45	--	--	4.84	--	--	3.91	--	--	4.30	--
OU2MW-36S	33 North Clinton	--	5.49	--	--	5.58	--	6.35	--	--	--	5.64	--	--	5.65	--
OU2MW-36I	33 North Clinton	--	5.78	--	--	5.50	--	6.16	--	--	--	5.85	--	--	5.70	--
OU2MW-36I2	33 North Clinton	--	4.35	--	--	4.35	--	4.73	--	--	--	4.48	--	--	4.30	--
OU2MW-36D	33 North Clinton	--	5.78	--	--	5.30	--	5.64	--	--	--	7.05	--	--	5.02	--
OU2MW-37S	33 North Clinton	--	5.48	--	--	5.79	--	--	6.06	--	--	5.71	--	--	5.66	--
OU2MW-37I	33 North Clinton	--	6.30	--	--	5.60	--	--	6.14	--	--	5.81	--	--	5.62	--
OU2MW-37I2	33 North Clinton	--	5.53	--	--	4.93	--	--	5.60	--	--	5.08	--	--	5.06	--
OU2MW-37D	33 North Clinton	--	5.23	--	--	4.56	--	--	5.10	--	--	6.98	--	--	4.74	--
OU2MW-39S	33 North Clinton	5.75	4.43	5.41	5.38	5.00	5.80	6.05	5.60	5.43	5.48	5.94	5.80	6.23	5.40	5.99
OU2MW-39I	33 North Clinton	6.16	6.68	ER	6.14	5.80	6.36	6.60	6.48	5.50	6.22	6.26	6.29	6.98	4.52	6.68
OU2MW-39I2	33 North Clinton	5.09	3.68	4.54	4.57	4.21	4.74	4.87	4.64	4.91	4.93	6.20	4.64	4.71	--	4.36
OU2MW-39D	33 North Clinton	5.41	5.93	5.84	4.92	4.56	5.16	5.22	4.86	4.75	4.69	4.76	4.53	4.66	4.46	4.52
OU2MW-42S	33 North Clinton	--	6.12	--	--	5.68	--	--	6.25	--	--	7.87	--	--	5.80	--
OU2MW-42I	33 North Clinton	--	6.01	--	--	6.03	--	--	6.02	--	--	7.05	--	--	6.08	--
OU2MW-42I2	33 North Clinton	--	5.64	--	--	5.05	--	--	5.83	--	--	5.60	--	--	4.94	--
OU2MW-42D	33 North Clinton	--	3.12	--	--	2.91	--	--	4.62	--	--	3.13	--	--	2.74	--
OU2MW-45S	34 North Clinton	--	--	5.69	--	5.20	--	--	6.83	--	--	5.82	--	--	5.34	--
OU2MW-45I	34 North Clinton	--	--	5.65	5.60	--	--	--	5.95	--	--	5.46	--	--	5.00	--
OU2MW-45I2	34 North Clinton	--	--	5.64	--	5.49	--	--	5.77	--	--	5.71	--	--	5.33	--
OU2MW-45D	34 North Clinton	--	--	5.50	5.30	--	--	--	5.90	--	--	5.17	--	--	5.15	--
OU2MW-46S	34 North Clinton	--	5.86	--	5.76	--	--	--	5.93	--	--	5.87	--	--	5.72	--
OU2MW-46I	34 North Clinton	--	6.28	--	5.90	--	--	--	6.35	--	--	6.25	--	--	6.18	--
OU2MW-46I2	34 North Clinton	--	6.12	--	5.63	--	--	--	6.04	--	--	5.36	--	--	5.55	--
OU2MW-47S	34 North Clinton	5.66	5.60	6.01	5.14	5.80	5.32	5.40	5.71	5.37	6.29	5.59	5.62	5.50	5.10	5.55
OU2MW-47I	34 North Clinton	5.90	5.75	6.39	5.85	6.53	6.03	6.18	6.49	5.97	6.93	5.99	6.50	6.21	5.52	5.45
OU2MW-47I2	34 North Clinton	6.75	6.08	6.61	5.62	6.43	5.80	6.04	6.47	5.90	6.83	5.82	6.36	6.14	5.70	6.17
OU2MW-47D	34 North Clinton	5.83	5.60	6.20	5.32	6.15	5.83	5.92	6.20	5.65	6.32	5.58	5.87	5.85	5.40	5.39
OU2MW-19I	Cooper Lane	--	6.25	--	6.60	--	--	--	6.27	--	--	--	5.96	--	--	6.44
OU2MW-19I2	Cooper Lane	--	4.65	--	5.99	--	--	--	6.31	--	--	--	6.23	--	--	5.95
OU2MW-19D	Cooper Lane	--	5.86	--	5.73	--	--	--	5.39	--	--	--	5.26	--	--	5.13
OU2MW-20S	Cooper Lane	3.88	6.28	5.11	5.92	6.25	6.17	5.95	5.62	5.58	5.40	5.02	5.70	5.88	5.36	5.38
OU2MW-20I	Cooper Lane	6.25	6.61	5.03	6.21	6.13	6.15	5.70	5.71	5.35	5.52	5.08	5.60	6.12	5.41	5.35
OU2MW-20I2	Cooper Lane	6.23	6.64	ER	5.89	5.62	6.30	6.00	5.70	6.45	5.59	5.23	5.65	6.09	5.42	5.96
OU2MW-20D	Cooper Lane	4.29	6.00	ER	5.70	4.98	5.56	5.32	5.34	5.17	5.00	4.74	4.72	5.64	4.80	4.69

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
OU2MW-43S	Cooper Lane	--	--	5.94	--	5.92	--	6.33	--	--	--	5.98	--	--	--	6.53
OU2MW-43I	Cooper Lane	--	6.49	--	--	6.19	--	6.45	--	--	--	6.38	--	--	--	6.17
OU2MW-43I2	Cooper Lane	--	5.99	--	--	5.42	--	5.79	--	--	--	6.31	--	--	--	5.00
OU2MW-43D	Cooper Lane	--	5.59	--	--	4.97	--	5.40	--	--	--	5.17	--	--	--	5.66
OU2MW-44S	Cooper Lane	--	--	5.29	--	5.74	--	6.01	--	--	--	--	8.35	--	--	6.08
OU2MW-44I	Cooper Lane	--	--	5.22	--	5.54	--	5.70	--	--	--	--	5.49	--	--	5.19
OU2MW-44I2	Cooper Lane	--	--	5.51	--	5.92	--	6.55	--	--	--	--	5.81	--	--	6.32
OU2MW-44D	Cooper Lane	--	--	4.92	--	4.97	--	5.57	--	--	--	--	5.72	--	--	4.91
GMP-01	Manatuck Lane	7.16	--	--	6.51	--	--	--	--	7.05	--	--	6.26	--	--	6.46
GMP-02	Manatuck Lane	6.35	--	--	5.84	--	--	--	--	5.97	--	--	5.27	--	--	5.83
GMP-04	Manatuck Lane	6.32	--	--	--	5.74	--	--	--	5.59	--	--	5.41	--	--	5.90
OU2MW-06S	Manatuck Lane	6.35	6.57	ER	6.08	6.49	6.34	6.04	6.44	5.72	5.56	6.24	6.27	6.06	5.82	6.04
OU2MW-06	Manatuck Lane	6.19	6.25	ER	5.72	6.09	5.83	5.51	5.77	4.95	5.09	5.84	5.75	5.72	5.77	5.60
OU2MW-07S	Manatuck Lane	6.10	6.34	6.20	5.80	5.13	5.75	5.18	5.71	5.45	5.38	5.67	5.94	5.69	5.40	5.19
OU2MW-07	Manatuck Lane	6.52	6.58	ER	5.81	6.19	6.03	5.29	6.15	5.48	5.31	6.05	6.07	5.76	5.34	5.72
OU2MW-52S	Manatuck Lane	--	5.35	--	--	4.57	--	--	4.30	--	4.59	--	--	--	--	5.16
OU2MW-52I	Manatuck Lane	--	6.10	--	--	5.74	--	--	6.25	--	5.66	--	--	--	--	5.85
OU2MW-52D	Manatuck Lane	--	5.98	--	--	5.45	--	--	7.01	--	5.17	--	--	--	--	5.99
OU2MW-53S	Manatuck Lane	--	--	6.35	--	5.46	--	--	--	5.70	6.03	--	--	--	--	5.54
OU2MW-53I	Manatuck Lane	--	--	6.51	--	5.69	--	--	--	5.25	6.35	--	--	--	--	6.05
OU2MW-53D	Manatuck Lane	--	--	5.91	--	5.06	--	--	--	4.97	5.70	--	--	--	--	5.89
BBMW-25S	Montauk Highway	5.74	6.50	5.50	5.04	5.47	5.89	5.85	5.48	5.02	5.27	5.65	5.27	6.03	5.02	5.23
BBMW-25I	Montauk Highway	6.44	6.70	5.36	5.94	5.80	6.16	6.27	5.85	5.78	5.56	5.78	5.53	6.25	5.25	5.58
BBMW-25D	Montauk Highway	5.70	5.90	4.77	5.25	4.94	5.41	5.07	6.28	3.90	4.69	4.72	4.50	4.59	4.42	4.48
OU2MW-01WT	Montauk Highway	6.10	7.11	6.16	6.94	5.97	6.57	6.41	5.92	5.98	5.73	5.80	5.87	5.83	5.56	5.81
OU2MW-01S	Montauk Highway	6.12	6.11	5.31	5.50	4.92	--	--	5.08	5.10	4.89	4.81	4.80	4.73	4.72	4.93
OU2MW-01I	Montauk Highway	6.65	6.75	5.71	6.29	5.65	--	--	5.90	5.37	5.54	5.75	5.59	6.13	5.30	5.22
OU2MW-01I2	Montauk Highway	5.20	6.42	5.36	5.81	4.99	--	--	4.99	5.16	4.95	5.07	5.09	4.84	4.72	4.91
OU2MW-01D	Montauk Highway	5.06	6.04	4.45	5.77	4.92	--	--	5.15	6.70	5.38	5.91	4.76	5.48	4.65	4.64
OU2MW-02S	Montauk Highway	--	6.70	--	5.57	--	--	--	--	5.28	--	5.88	--	--	--	--
OU2MW-02I	Montauk Highway	--	6.25	--	6.19	--	--	--	--	7.00	--	6.12	--	--	6.71	--
OU2MW-02I2	Montauk Highway	--	5.85	--	5.87	--	--	--	--	6.55	--	5.34	--	--	6.18	--
OU2MW-02D	Montauk Highway	--	3.12	--	5.34	--	--	--	--	4.84	--	5.60	--	--	5.54	--
OU2MW-03S	Montauk Highway	--	--	6.16	6.21	--	--	--	--	5.95	--	5.85	--	--	5.24	--
OU2MW-03I	Montauk Highway	--	--	5.75	5.56	--	--	--	--	5.35	--	6.02	--	--	5.21	--
OU2MW-03I2	Montauk Highway	--	--	5.18	5.64	--	--	--	--	5.75	--	5.27	--	--	4.95	--
OU2MW-03D	Montauk Highway	--	--	4.85	5.68	--	--	--	--	6.21	--	5.88	--	--	4.80	--
OU2MW-04WT	Montauk Highway	--	--	5.38	5.73	--	--	--	--	5.42	--	5.50	--	--	5.34	--
OU2MW-04S	Montauk Highway	--	--	6.23	6.21	--	--	--	--	6.12	--	6.08	--	--	5.80	--
OU2MW-04I	Montauk Highway	--	--	5.27	5.70	--	--	--	--	6.52	--	5.82	--	--	5.40	--
OU2MW-04I2	Montauk Highway	--	--	5.11	5.82	--	--	--	--	6.70	--	5.61	--	--	5.82	--
OU2MW-04D	Montauk Highway	--	--	4.69	5.99	--	--	--	--	7.00	--	6.00	--	--	5.20	--
OU2MW-08WT	Montauk Highway	--	6.24	--	6.01	--	--	6.38	--	--	--	6.02	--	--	5.73	--
OU2MW-08S	Montauk Highway	--	6.60	--	5.91	--	--	7.79	--	--	--	10.42	--	--	4.80	--
OU2MW-08I	Montauk Highway	--	5.72	--	5.46	--	--	6.09	--	--	--	5.35	--	--	5.30	--
OU2MW-08I2	Montauk Highway	--	6.90	--	5.92	--	--	6.65	--	--	--	5.98	--	--	5.84	--
OU2MW-08D	Montauk Highway	--	5.78	--	4.80	--	--	5.89	--	--	--	7.92	--	--	4.79	--
OU2MW-55S	29 Community	--	5.83	--	--	--	6.06	--	5.15	--	5.63	--	--	--	--	6.04
OU2MW-55I	29 Community	--	5.93	--	--	--	5.15	--	6.03	--	5.51	--	--	--	--	6.06
OU2MW-55I2	29 Community	--	5.50	--	--	--	4.71	--	5.59	--	5.30	--	--	--	--	5.99
OU2MW-55D	29 Community	--	5.00	--	--	--	5.70	--	5.03	--	5.01	--	--	--	--	4.88
OU2MW-56S	29 Community	--	5.32	--	--	5.20	--	--	6.25	--	5.43	--	--	--	--	6.10
OU2MW-56I	29 Community	--	6.75	--	--	6.40	--	--	6.17	--	5.30	--	--	--	--	5.30
OU2MW-56I2	29 Community	--	5.59	--	--	5.32	--	--	5.31	--	5.21	--	--	--	--	5.13
OU2MW-56D	29 Community	--	5.45	--	--	5.52	--	--	5.47	--	5.00	--	--	--	--	5.20

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
Temperature (degrees Celcius)																
OU2MW-28S	9 North Clinton	--	9.4	--	12.6	--	--	20.8	--	--	18.4	--	--	--	11.39	--
OU2MW-28I	9 North Clinton	--	10.2	--	13.6	--	--	14.7	--	--	14.9	--	--	--	12.04	--
OU2MW-28I2	9 North Clinton	--	11.6	--	13.9	--	--	16.7	--	--	14.7	--	--	--	12.05	--
OU2MW-29I	9 North Clinton	--	12.8	--	12.6	--	--	17.1	--	--	16.6	--	--	--	13.42	--
OU2MW-29I2	9 North Clinton	--	13.2	--	13.4	--	--	16.2	--	--	15.1	--	--	--	13.49	--
OU2MW-29D	9 North Clinton	--	12.9	--	13.3	--	--	14.9	--	--	15.2	--	--	--	13.45	--
OU2MW-30S	9 North Clinton	10.8	11.7	10.9	19.7	14.9	18.6	19.6	20.3	19.5	17.8	17.0	15.8	13.6	--	14.4
OU2MW-30I	9 North Clinton	9.0	11.6	13.6	15.7	15.2	16.1	17.8	17.2	15.8	14.6	15.0	14.2	13.9	--	15.2
OU2MW-30I2	9 North Clinton	9.4	12.7	12.9	15.5	15.8	16.4	17.5	17.0	15.9	14.1	14.7	13.7	13.8	--	15.1
OU2MW-30I3	9 North Clinton	8.0	11.6	12.5	14.0	15.2	16.0	15.1	16.3	15.8	14.2	16.2	13.6	13.2	--	14.5
OU2MW-30D	9 North Clinton	8.8	10.9	13.4	14.5	15.6	16.2	15.4	17.5	10.3	14.5	14.3	12.8	12.6	--	14.7
OU2MW-30D2	9 North Clinton	11.9	11.6	13.7	15.5	15.6	16.0	14.7	16.0	15.7	13.3	14.8	13.2	13.0	--	14.5
OU2MW-31I	9 North Clinton	--	13.0	--	16.6	--	--	15.2	--	--	16.3	--	--	--	14.3	--
OU2MW-31I2	9 North Clinton	--	11.7	--	14.4	--	--	17.2	--	--	15.1	--	--	--	14.7	--
OU2MW-32S	9 North Clinton	--	8.3	--	15.3	--	--	19.4	--	--	17.0	--	--	--	11.3	--
OU2MW-32I	9 North Clinton	--	10.9	--	13.0	--	--	17.9	--	--	16.4	--	--	--	13.4	--
OU2MW-32I2	9 North Clinton	--	ER	--	17.1	--	--	15.9	--	--	15.0	--	--	--	13.2	--
OU2MW-32D	9 North Clinton	--	18.0	--	13.6	--	--	19.4	--	--	15.3	--	--	--	12.2	--
OU2MW-35S	33 North Clinton	--	11.1	--	--	12.6	--	--	17.2	--	--	17.0	--	--	11.4	--
OU2MW-35I	33 North Clinton	--	12.8	--	--	14.2	--	--	14.6	--	--	15.6	--	--	13.4	--
OU2MW-35I2	33 North Clinton	--	11.5	--	--	13.9	--	--	15.2	--	--	15.3	--	--	12.9	--
OU2MW-35D	33 North Clinton	--	12.6	--	--	14.0	--	--	21.8	--	--	14.0	--	--	13.4	--
OU2MW-36S	33 North Clinton	--	6.8	--	--	11.9	--	18.8	--	--	--	17.1	--	--	10.8	--
OU2MW-36I	33 North Clinton	--	7.2	--	--	13.6	--	16.1	--	--	--	15.2	--	--	11.2	--
OU2MW-36I2	33 North Clinton	--	9.1	--	--	14.6	--	16.1	--	--	--	14.6	--	--	11.2	--
OU2MW-36D	33 North Clinton	--	8.8	--	--	13.3	--	15.4	--	--	--	14.7	--	--	11.5	--
OU2MW-37S	33 North Clinton	--	12.7	--	--	14.2	--	--	17.0	--	--	16.0	--	--	13.2	--
OU2MW-37I	33 North Clinton	--	14.1	--	--	14.9	--	--	14.7	--	--	15.3	--	--	14.3	--
OU2MW-37I2	33 North Clinton	--	13.8	--	--	14.3	--	--	14.8	--	--	13.8	--	--	13.6	--
OU2MW-37D	33 North Clinton	--	12.4	--	--	13.9	--	--	14.5	--	--	13.7	--	--	13.2	--
OU2MW-39S	33 North Clinton	10.3	11.6	9.9	10.7	13.8	14.5	17.0	16.7	18.0	16.5	15.7	13.6	12.6	10.5	11.9
OU2MW-39I	33 North Clinton	11.8	13.0	12.6	13.2	14.7	14.2	15.5	15.4	15.2	14.9	14.9	14.0	14.0	12.1	13.7
OU2MW-39I2	33 North Clinton	12.1	12.6	12.4	13.8	15.1	13.7	15.3	14.6	14.7	13.8	13.6	13.3	12.6	--	13.4
OU2MW-39D	33 North Clinton	11.9	12.1	12.0	12.8	14.0	13.7	16.7	14.2	14.6	14.2	13.7	13.0	12.2	11.9	12.9
OU2MW-42S	33 North Clinton	--	10.7	--	--	12.0	--	--	16.2	--	--	16.9	--	--	12.1	--
OU2MW-42I	33 North Clinton	--	13.6	--	--	13.0	--	--	19.3	--	--	15.0	--	--	13.2	--
OU2MW-42I2	33 North Clinton	--	12.8	--	--	13.9	--	--	18.4	--	--	14.3	--	--	13.1	--
OU2MW-42D	33 North Clinton	--	12.9	--	--	13.3	--	--	17.0	--	--	13.8	--	--	12.8	--
OU2MW-45S	34 North Clinton	--	--	10.2	--	13.1	--	--	18.3	--	--	14.9	--	--	11.3	--
OU2MW-45I	34 North Clinton	--	--	12.9	15.3	--	--	--	16.4	--	--	14.9	--	--	13.1	--
OU2MW-45I2	34 North Clinton	--	--	12.4	--	14.7	--	--	16.2	--	--	13.7	--	--	12.3	--
OU2MW-45D	34 North Clinton	--	--	12.3	13.4	--	--	--	16.4	--	--	13.6	--	--	12.7	--
OU2MW-46S	34 North Clinton	--	7.7	--	12.3	--	--	--	19.5	--	--	15.5	--	--	10.4	--
OU2MW-46I	34 North Clinton	--	11.1	--	13.2	--	--	--	15.7	--	--	14.8	--	--	13.1	--
OU2MW-46I2	34 North Clinton	--	10.5	--	15.2	--	--	--	15.5	--	--	13.6	--	--	12.5	--
OU2MW-47S	34 North Clinton	9.6	11.0	10.8	12.6	13.1	15.2	17.0	19.1	17.8	17.3	15.9	14.7	13.0	12.3	12.6
OU2MW-47I	34 North Clinton	12.1	11.7	12.5	16.7	13.8	13.9	14.5	16.6	15.6	15.1	14.9	14.2	13.5	13.7	12.8
OU2MW-47I2	34 North Clinton	11.6	12.5	12.8	14.1	14.7	15.2	17.0	17.1	15.1	14.5	14.2	13.6	13.3	13.4	14.0
OU2MW-47D	34 North Clinton	11.7	12.2	12.5	16.3	14.6	14.8	16.4	17.2	15.1	14.5	14.3	13.6	13.4	12.6	13.4
OU2MW-19I	Cooper Lane	--	11.7	--	12.1	--	--	--	16.2	--	--	--	15.5	--	--	12.4
OU2MW-19I2	Cooper Lane	--	11.5	--	13.2	--	--	--	16.1	--	--	--	14.3	--	--	12.2
OU2MW-19D	Cooper Lane	--	11.8	--	12.9	--	--	--	15.7	--	--	--	13.7	--	--	12.4
OU2MW-20S	Cooper Lane	7.9	8.2	9.1	10.2	13.7	15.0	20.9	19.2	18.7	17.7	14.9	13.0	11.1	10.7	12.9
OU2MW-20I	Cooper Lane	10.6	11.7	10.0	11.2	13.0	13.2	15.8	16.2	10.9	15.9	15.9	14.9	14.3	12.7	15.4
OU2MW-20I2	Cooper Lane	11.5	12.1	13.2	12.6	13.4	14.7	15.6	15.3	16.0	14.7	14.6	14.5	14.2	12.8	15.2
OU2MW-20D	Cooper Lane	9.0	11.8	12.4	12.5	13.4	14.0	15.5	14.8	15.2	15.1	16.2	13.7	13.3	13.0	13.3

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Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	2011												2012		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
OU2MW-43S	Cooper Lane	--	--	10.5	--	13.0	--	17.8	--	--	--	15.7	--	--	--	11.4
OU2MW-43I	Cooper Lane	--	13.8	--	--	14.3	--	20.0	--	--	--	13.8	--	--	--	12.7
OU2MW-43I2	Cooper Lane	--	13.6	--	--	13.5	--	14.8	--	--	--	14.0	--	--	--	13.2
OU2MW-43D	Cooper Lane	--	10.2	--	--	14.0	--	15.6	--	--	--	13.2	--	--	--	13.0
OU2MW-44S	Cooper Lane	--	--	9.6	--	12.9	--	17.2	--	--	--	--	14.4	--	--	11.8
OU2MW-44I	Cooper Lane	--	--	12.9	--	13.5	--	13.8	--	--	--	--	14.2	--	--	13.3
OU2MW-44I2	Cooper Lane	--	--	13.0	--	13.5	--	15.3	--	--	--	--	13.0	--	--	13.7
OU2MW-44D	Cooper Lane	--	--	13.1	--	13.7	--	14.8	--	--	--	--	13.6	--	--	13.2
GMP-01	Manatuck Lane	13.4	--	--	12.6	--	--	--	--	17.4	--	--	15.2	--	--	13.8
GMP-02	Manatuck Lane	11.2	--	--	12.9	--	--	--	--	16.7	--	--	13.9	--	--	12.2
GMP-04	Manatuck Lane	13.1	--	--	--	12.0	--	--	--	17.3	--	--	15.7	--	--	13.3
OU2MW-06S	Manatuck Lane	6.2	7.1	6.7	8.5	12.8	18.5	21.2	21.6	21.0	18.1	11.0	10.3	8.8	8.6	10.7
OU2MW-06	Manatuck Lane	9.9	10.4	10.5	10.6	14.0	17.4	19.8	19.2	17.8	16.0	10.7	11.7	11.0	10.5	12.7
OU2MW-07S	Manatuck Lane	7.9	8.6	12.5	8.9	14.1	16.4	16.5	21.1	20.0	18.8	15.1	13.1	10.4	9.2	10.1
OU2MW-07	Manatuck Lane	12.6	11.7	10.9	11.1	12.7	14.5	20.7	17.2	18.1	16.8	14.5	14.6	13.1	12.3	12.1
OU2MW-52S	Manatuck Lane	--	7.4	--	--	10.5	--	--	21.5	--	18.1	--	--	--	--	9.9
OU2MW-52I	Manatuck Lane	--	11.0	--	--	11.3	--	--	15.9	--	15.6	--	--	--	--	11.7
OU2MW-52D	Manatuck Lane	--	10.4	--	--	12.5	--	--	20.4	--	14.0	--	--	--	--	13.1
OU2MW-53S	Manatuck Lane	--	--	5.6	--	11.1	--	--	--	20.7	15.8	--	--	--	--	9.7
OU2MW-53I	Manatuck Lane	--	--	11.4	--	11.7	--	--	--	14.9	15.1	--	--	--	--	13.3
OU2MW-53D	Manatuck Lane	--	--	11.7	--	12.5	--	--	--	14.3	13.9	--	--	--	--	13.3
BBMW-25S	Montauk Highway	6.0	9.9	14.1	12.7	16.1	17.7	19.7	20.6	22.7	18.6	16.6	13.9	13.1	10.6	13.1
BBMW-25I	Montauk Highway	10.1	12.3	16.5	15.4	15.2	16.5	17.2	17.6	20.2	15.5	16.7	10.5	14.1	11.8	14.7
BBMW-25D	Montauk Highway	8.8	11.8	16.4	15.6	15.4	15.9	16.8	12.3	19.0	15.3	16.8	12.0	12.6	13.0	16.3
OU2MW-01WT	Montauk Highway	6.7	8.6	10.9	11.9	16.3	18.8	20.4	21.5	21.0	18.7	16.1	14.3	10.2	9.7	12.7
OU2MW-01S	Montauk Highway	7.7	11.6	13.0	14.0	14.6	--	--	18.6	19.4	17.5	16.7	14.1	12.3	13.3	14.4
OU2MW-01I	Montauk Highway	7.7	12.6	8.9	13.7	14.2	--	--	18.2	21.5	16.8	15.8	13.3	12.0	13.4	13.9
OU2MW-01I2	Montauk Highway	4.1	10.1	12.3	13.1	14.5	--	--	17.5	18.7	16.2	16.6	13.1	12.7	13.2	17.8
OU2MW-01D	Montauk Highway	3.1	8.0	11.5	12.6	15.6	--	--	16.4	21.8	17.3	15.3	13.2	11.7	12.7	18.0
OU2MW-02S	Montauk Highway	--	10.1	--	12.2	--	--	--	--	17.5	--	15.0	--	--	--	--
OU2MW-02I	Montauk Highway	--	13.4	--	12.7	--	--	--	--	17.5	--	13.8	--	--	10.2	--
OU2MW-02I2	Montauk Highway	--	11.9	--	12.5	--	--	--	--	16.9	--	13.8	--	--	9.1	--
OU2MW-02D	Montauk Highway	--	11.3	--	13.6	--	--	--	--	17.2	--	13.5	--	--	9.6	--
OU2MW-03S	Montauk Highway	--	--	12.2	13.1	--	--	--	--	15.7	--	15.3	--	--	13.8	--
OU2MW-03I	Montauk Highway	--	--	12.8	13.7	--	--	--	--	15.0	--	14.0	--	--	13.4	--
OU2MW-03I2	Montauk Highway	--	--	12.4	12.2	--	--	--	--	14.8	--	13.8	--	--	13.0	--
OU2MW-03D	Montauk Highway	--	--	12.2	11.9	--	--	--	--	15.6	--	13.3	--	--	12.4	--
OU2MW-04WT	Montauk Highway	--	--	7.0	9.4	--	--	--	--	19.8	--	14.4	--	--	8.0	--
OU2MW-04S	Montauk Highway	--	--	11.8	12.4	--	--	--	--	15.9	--	14.9	--	--	10.4	--
OU2MW-04I	Montauk Highway	--	--	12.2	13.1	--	--	--	--	14.8	--	13.7	--	--	12.0	--
OU2MW-04I2	Montauk Highway	--	--	11.7	12.8	--	--	--	--	15.0	--	13.8	--	--	12.4	--
OU2MW-04D	Montauk Highway	--	--	11.9	12.5	--	--	--	--	10.4	--	13.7	--	--	11.8	--
OU2MW-08WT	Montauk Highway	--	8.4	--	18.4	--	--	21.1	--	--	--	16.9	--	--	13.2	--
OU2MW-08S	Montauk Highway	--	14.4	--	17.1	--	--	16.9	--	--	--	15.4	--	--	15.9	--
OU2MW-08I	Montauk Highway	--	12.3	--	15.3	--	--	15.4	--	--	--	14.3	--	--	14.5	--
OU2MW-08I2	Montauk Highway	--	12.2	--	14.7	--	--	14.8	--	--	--	13.8	--	--	14.4	--
OU2MW-08D	Montauk Highway	--	12.1	--	18.6	--	--	14.4	--	--	--	14.1	--	--	14.2	--
OU2MW-55S	29 Community	--	9.3	--	--	--	13.43	--	20.3	--	16.6	--	--	--	--	15.7
OU2MW-55I	29 Community	--	10.3	--	--	--	13.83	--	16.8	--	14.5	--	--	--	--	16.5
OU2MW-55I2	29 Community	--	10.4	--	--	--	13.97	--	18.1	--	12.6	--	--	--	--	18.5
OU2MW-55D	29 Community	--	10.8	--	--	--	14.60	--	21.0	--	12.9	--	--	--	--	16.9
OU2MW-56S	29 Community	--	10.3	--	--	12.46	--	--	19.1	--	16.3	--	--	--	--	14.8
OU2MW-56I	29 Community	--	13.6	--	--	14.42	--	--	15.5	--	14.3	--	--	--	--	15.4
OU2MW-56I2	29 Community	--	12.8	--	--	14.29	--	--	16.3	--	14.4	--	--	--	--	15.9
OU2MW-56D	29 Community	--	12.3	--	--	15.19	--	--	15.1	--	13.8	--	--	--	--	15.0

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
Conductivity (mS/cm)				
OU2MW-28S	9 North Clinton	**0.164**	**0.331**	**0.460**
OU2MW-28I	9 North Clinton	**0.722**	**0.518**	**0.804**
OU2MW-28I2	9 North Clinton	**0.314**	**0.417**	**0.326**
OU2MW-29I	9 North Clinton	**0.532**	**0.608**	**0.870**
OU2MW-29I2	9 North Clinton	**0.469**	**0.550**	**0.671**
OU2MW-29D	9 North Clinton	**0.247**	**0.355**	**0.833**
OU2MW-30S	9 North Clinton	**0.485**	**0.361**	**0.453**
OU2MW-30I	9 North Clinton	**0.646**	**0.564**	**0.549**
OU2MW-30I2	9 North Clinton	**0.424**	**0.503**	**0.481**
OU2MW-30I3	9 North Clinton	**0.727**	**0.480**	**0.441**
OU2MW-30D	9 North Clinton	**0.521**	**0.451**	**0.323**
OU2MW-30D2	9 North Clinton	**0.561**	**0.376**	**0.337**
OU2MW-31I	9 North Clinton	**0.504**	**0.648**	**0.820**
OU2MW-31I2	9 North Clinton	**0.264**	**0.560**	**0.612**
OU2MW-32S	9 North Clinton	**0.321**	**0.782**	**0.281**
OU2MW-32I	9 North Clinton	**0.778**	**0.687**	**0.686**
OU2MW-32I2	9 North Clinton	**0.811**	**0.597**	**0.696**
OU2MW-32D	9 North Clinton	**0.424**	**0.415**	**0.515**
OU2MW-35S	33 North Clinton	**0.231**	**0.423**	**0.384**
OU2MW-35I	33 North Clinton	**0.593**	**0.662**	**0.332**
OU2MW-35I2	33 North Clinton	**0.263**	**0.223**	**0.206**
OU2MW-35D	33 North Clinton	**0.313**	**0.445**	**0.421**
OU2MW-36S	33 North Clinton	**1.070**	**0.623**	**0.347**
OU2MW-36I	33 North Clinton	**0.363**	**0.558**	**0.610**
OU2MW-36I2	33 North Clinton	**0.173**	**0.270**	**0.301**
OU2MW-36D	33 North Clinton	**0.228**	**0.690**	**0.914**
OU2MW-37S	33 North Clinton	**0.262**	**0.346**	**0.457**
OU2MW-37I	33 North Clinton	**0.419**	**0.540**	**0.696**
OU2MW-37I2	33 North Clinton	**0.386**	**0.446**	**0.370**
OU2MW-37D	33 North Clinton	**0.872**	**0.639**	**0.355**
OU2MW-39S	33 North Clinton	**0.211**	**0.329**	**0.252**
OU2MW-39I	33 North Clinton	**0.408**	**0.645**	**0.495**
OU2MW-39I2	33 North Clinton	**0.233**	**0.378**	**0.388**
OU2MW-39D	33 North Clinton	**0.133**	**0.485**	**0.215**
OU2MW-42S	33 North Clinton	**NS**	**0.537**	**0.592**
OU2MW-42I	33 North Clinton	**NS**	**0.661**	**0.659**
OU2MW-42I2	33 North Clinton	**NS**	**0.355**	**0.467**
OU2MW-42D	33 North Clinton	**NS**	**1.425**	**1.600**
OU2MW-45S	34 North Clinton	**0.198**	**0.279**	**0.332**
OU2MW-45I	34 North Clinton	**0.462**	**0.490**	**0.612**
OU2MW-45I2	34 North Clinton	**0.379**	**0.405**	**0.510**
OU2MW-45D	34 North Clinton	**0.324**	**0.227**	**0.127**
OU2MW-46S	34 North Clinton	**0.579**	**0.812**	**0.572**
OU2MW-46I	34 North Clinton	**0.553**	**0.757**	**0.557**
OU2MW-46I2	34 North Clinton	**0.320**	**0.386**	**0.355**
OU2MW-47S	34 North Clinton	**0.303**	**0.339**	**0.357**
OU2MW-47I	34 North Clinton	**0.640**	**0.706**	**0.644**
OU2MW-47I2	34 North Clinton	**0.490**	**0.607**	**0.530**
OU2MW-47D	34 North Clinton	**0.341**	**0.510**	**0.663**
OU2MW-19I	Cooper Lane	**0.631**	**0.679**	**0.900**
OU2MW-19I2	Cooper Lane	**0.553**	**0.604**	**0.729**
OU2MW-19D	Cooper Lane	**1.310**	**0.963**	**0.568**
OU2MW-20S	Cooper Lane	**0.293**	**0.329**	**0.284**
OU2MW-20I	Cooper Lane	**0.397**	**0.560**	**0.650**
OU2MW-20I2	Cooper Lane	**0.366**	**0.426**	**0.499**
OU2MW-20D	Cooper Lane	**0.110**	**0.194**	**0.132**

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
OU2MW-43S	Cooper Lane	**0.684**	**0.845**	**0.657**
OU2MW-43I	Cooper Lane	**0.433**	**0.570**	**0.722**
OU2MW-43I2	Cooper Lane	**0.518**	**0.517**	**0.488**
OU2MW-43D	Cooper Lane	**1.880**	**1.235**	**1.040**
OU2MW-44S	Cooper Lane	**0.229**	**0.260**	**0.310**
OU2MW-44I	Cooper Lane	**0.222**	**0.257**	**0.336**
OU2MW-44I2	Cooper Lane	**0.391**	**0.447**	**0.474**
OU2MW-44D	Cooper Lane	**0.343**	**0.307**	**0.350**
GMP-01	Manatuck Lane	**0.527**	**0.629**	**0.613**
GMP-02	Manatuck Lane	**0.536**	**0.555**	**0.486**
GMP-04	Manatuck Lane	**0.482**	**0.455**	**0.688**
OU2MW-06S	Manatuck Lane	**NS**	**0.289**	**0.278**
OU2MW-06	Manatuck Lane	**0.214**	**0.267**	**0.111**
OU2MW-07S	Manatuck Lane	**NS**	**0.247**	**0.274**
OU2MW-07	Manatuck Lane	**NS**	**0.410**	**0.452**
OU2MW-52S	Manatuck Lane	**NS**	**0.134**	**0.046**
OU2MW-52I	Manatuck Lane	**NS**	**0.530**	**0.369**
OU2MW-52D	Manatuck Lane	**NS**	**0.181**	**0.143**
OU2MW-53S	Manatuck Lane	**NS**	**0.157**	**0.141**
OU2MW-53I	Manatuck Lane	**NS**	**0.432**	**0.440**
OU2MW-53D	Manatuck Lane	**NS**	**0.290**	**0.048**
BBMW-25S	Montauk Highway	**0.502**	**0.342**	**0.279**
BBMW-25I	Montauk Highway	**0.563**	**0.556**	**0.555**
BBMW-25D	Montauk Highway	**0.057**	**0.092**	**0.083**
OU2MW-01WT	Montauk Highway	**NS**	**0.878**	**0.626**
OU2MW-01S	Montauk Highway	**0.579**	**0.631**	**0.777**
OU2MW-01I	Montauk Highway	**0.463**	**0.566**	**0.424**
OU2MW-01I2	Montauk Highway	**0.187**	**0.168**	**0.080**
OU2MW-01D	Montauk Highway	**NS**	**0.095**	**0.054**
OU2MW-02S	Montauk Highway	**0.405**	**0.577**	**NS**
OU2MW-02I	Montauk Highway	**0.178**	**0.283**	**0.462**
OU2MW-02I2	Montauk Highway	**0.122**	**0.123**	**0.095**
OU2MW-02D	Montauk Highway	**0.037**	**0.049**	**0.052**
OU2MW-03S	Montauk Highway	**0.452**	**0.625**	**0.629**
OU2MW-03I	Montauk Highway	**NS**	**0.425**	**0.241**
OU2MW-03I2	Montauk Highway	**0.073**	**0.137**	**0.100**
OU2MW-03D	Montauk Highway	**0.036**	**0.049**	**0.057**
OU2MW-04WT	Montauk Highway	**NS**	**0.193**	**0.265**
OU2MW-04S	Montauk Highway	**0.554**	**0.693**	**0.797**
OU2MW-04I	Montauk Highway	**0.416**	**0.459**	**0.450**
OU2MW-04I2	Montauk Highway	**0.213**	**0.135**	**0.066**
OU2MW-04D	Montauk Highway	**0.066**	**0.093**	**0.075**
OU2MW-08WT	Montauk Highway	**NS**	**0.589**	**0.597**
OU2MW-08S	Montauk Highway	**0.549**	**0.691**	**0.800**
OU2MW-08I	Montauk Highway	**0.364**	**0.476**	**0.397**
OU2MW-08I2	Montauk Highway	**0.409**	**0.566**	**0.805**
OU2MW-08D	Montauk Highway	**0.036**	**0.053**	**0.057**
OU2MW-55S	29 Community	**0.288**	**0.386**	**0.376**
OU2MW-55I	29 Community	**0.471**	**0.535**	**0.488**
OU2MW-55I2	29 Community	**0.265**	**0.398**	**0.313**
OU2MW-55D	29 Community	**0.144**	**0.246**	**0.271**
OU2MW-56S	29 Community	**0.254**	**0.270**	**0.338**
OU2MW-56I	29 Community	**0.432**	**0.673**	**0.540**
OU2MW-56I2	29 Community	**0.254**	**0.439**	**0.328**
OU2MW-56D	29 Community	**0.323**	**0.342**	**0.383**

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
Dissolved Oxygen (mg/L)				
OU2MW-28S	9 North Clinton	**2.0**	**25.4**	**32.0**
OU2MW-28I	9 North Clinton	**0.8**	**21.6**	**37.0**
OU2MW-28I2	9 North Clinton	**0.5**	**6.4**	**33.0**
OU2MW-29I	9 North Clinton	**1.6**	**10.5**	**18.7**
OU2MW-29I2	9 North Clinton	**1.5**	**29.3**	**35.0**
OU2MW-29D	9 North Clinton	**1.3**	**0.4**	**2.0**
OU2MW-30S	9 North Clinton	**0.0**	**22.6**	**27.5**
OU2MW-30I	9 North Clinton	**0.0**	**27.3**	**38.5**
OU2MW-30I2	9 North Clinton	**0.7**	**30.3**	**36.5**
OU2MW-30I3	9 North Clinton	**0.0**	**29.3**	**35.0**
OU2MW-30D	9 North Clinton	**0.5**	**31.1**	**40.0**
OU2MW-30D2	9 North Clinton	**0.0**	**17.0**	**22.0**
OU2MW-31I	9 North Clinton	**1.3**	**23.0**	**25.0**
OU2MW-31I2	9 North Clinton	**1.2**	**25.3**	**30.0**
OU2MW-32S	9 North Clinton	**0.1**	**2.6**	**4.0**
OU2MW-32I	9 North Clinton	**0.0**	**0.4**	**1.7**
OU2MW-32I2	9 North Clinton	**0.0**	**0.9**	**1.7**
OU2MW-32D	9 North Clinton	**0.0**	**0.8**	**2.0**
OU2MW-35S	33 North Clinton	**5.5**	**31.4**	**32.0**
OU2MW-35I	33 North Clinton	**0.0**	**33.1**	**24.0**
OU2MW-35I2	33 North Clinton	**0.0**	**36.3**	**28.0**
OU2MW-35D	33 North Clinton	**0.0**	**26.4**	**31.0**
OU2MW-36S	33 North Clinton	**5.0**	**15.1**	**27.0**
OU2MW-36I	33 North Clinton	**0.0**	**24.0**	**33.0**
OU2MW-36I2	33 North Clinton	**0.0**	**5.0**	**10.0**
OU2MW-36D	33 North Clinton	**0.0**	**0.8**	**1.4**
OU2MW-37S	33 North Clinton	**0.0**	**22.8**	**24.0**
OU2MW-37I	33 North Clinton	**0.0**	**30.0**	**32.0**
OU2MW-37I2	33 North Clinton	**0.0**	**0.6**	**1.3**
OU2MW-37D	33 North Clinton	**0.0**	**0.5**	**1.5**
OU2MW-39S	33 North Clinton	**1.8**	**21.4**	**21.7**
OU2MW-39I	33 North Clinton	**7.2**	**27.6**	**20.7**
OU2MW-39I2	33 North Clinton	**0.0**	**1.0**	**1.5**
OU2MW-39D	33 North Clinton	**0.0**	**0.8**	**1.0**
OU2MW-42S	33 North Clinton	**NS**	**2.3**	**5.5**
OU2MW-42I	33 North Clinton	**NS**	**18.8**	**23.2**
OU2MW-42I2	33 North Clinton	**NS**	**29.1**	**22.0**
OU2MW-42D	33 North Clinton	**NS**	**29.3**	**28.0**
OU2MW-45S	34 North Clinton	**0.0**	**4.8**	**6.1**
OU2MW-45I	34 North Clinton	**0.0**	**18.5**	**17.2**
OU2MW-45I2	34 North Clinton	**0.0**	**24.1**	**19.6**
OU2MW-45D	34 North Clinton	**NS**	**18.2**	**19.4**
OU2MW-46S	34 North Clinton	**0.3**	**27.4**	**36.0**
OU2MW-46I	34 North Clinton	**0.0**	**32.7**	**32.0**
OU2MW-46I2	34 North Clinton	**0.0**	**32.5**	**40.0**
OU2MW-47S	34 North Clinton	**0.0**	**25.6**	**24.7**
OU2MW-47I	34 North Clinton	**0.0**	**27.9**	**28.0**
OU2MW-47I2	34 North Clinton	**0.0**	**28.9**	**33.7**
OU2MW-47D	34 North Clinton	**0.0**	**25.1**	**29.3**
OU2MW-19I	Cooper Lane	**0.0**	**10.4**	**24.0**
OU2MW-19I2	Cooper Lane	**0.0**	**27.3**	**36.0**
OU2MW-19D	Cooper Lane	**0.0**	**9.1**	**15.8**
OU2MW-20S	Cooper Lane	**0.0**	**12.3**	**20.0**
OU2MW-20I	Cooper Lane	**0.0**	**18.6**	**24.7**
OU2MW-20I2	Cooper Lane	**0.0**	**1.1**	**1.2**
OU2MW-20D	Cooper Lane	**0.0**	**1.0**	**0.7**

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
OU2MW-43S	Cooper Lane	**0.0**	**7.3**	**29.0**
OU2MW-43I	Cooper Lane	**0.0**	**25.9**	**33.0**
OU2MW-43I2	Cooper Lane	**0.0**	**9.8**	**9.6**
OU2MW-43D	Cooper Lane	**0.0**	**20.1**	**20.0**
OU2MW-44S	Cooper Lane	**0.0**	**0.9**	**4.6**
OU2MW-44I	Cooper Lane	**0.0**	**1.5**	**2.8**
OU2MW-44I2	Cooper Lane	**0.0**	**0.6**	**1.5**
OU2MW-44D	Cooper Lane	**0.0**	**0.8**	**2.0**
GMP-01	Manatuck Lane	**0.1**	**0.5**	**0.0**
GMP-02	Manatuck Lane	**0.0**	**20.3**	**21.9**
GMP-04	Manatuck Lane	**0.0**	**8.9**	**16.3**
OU2MW-06S	Manatuck Lane	**NS**	**11.2**	**17.7**
OU2MW-06	Manatuck Lane	**0.0**	**24.3**	**24.0**
OU2MW-07S	Manatuck Lane	**NS**	**14.2**	**23.3**
OU2MW-07	Manatuck Lane	**NS**	**26.8**	**28.7**
OU2MW-52S	Manatuck Lane	**NS**	**7.1**	**0.0**
OU2MW-52I	Manatuck Lane	**NS**	**19.8**	**24.0**
OU2MW-52D	Manatuck Lane	**NS**	**22.0**	**34.0**
OU2MW-53S	Manatuck Lane	**NS**	**4.5**	**0.0**
OU2MW-53I	Manatuck Lane	**NS**	**23.3**	**20.0**
OU2MW-53D	Manatuck Lane	**NS**	**1.0**	**0.0**
BBMW-25S	Montauk Highway	**3.2**	**26.6**	**33.7**
BBMW-25I	Montauk Highway	**3.0**	**17.6**	**32.7**
BBMW-25D	Montauk Highway	**0.1**	**22.5**	**21.7**
OU2MW-01WT	Montauk Highway	**NS**	**13.2**	**22.3**
OU2MW-01S	Montauk Highway	**1.7**	**8.7**	**24.0**
OU2MW-01I	Montauk Highway	**1.4**	**29.7**	**32.0**
OU2MW-01I2	Montauk Highway	**0.4**	**11.5**	**12.0**
OU2MW-01D	Montauk Highway	**NS**	**1.2**	**1.7**
OU2MW-02S	Montauk Highway	**1.8**	**7.1**	**NS**
OU2MW-02I	Montauk Highway	**0.4**	**1.2**	**1.6**
OU2MW-02I2	Montauk Highway	**0.5**	**0.4**	**0.0**
OU2MW-02D	Montauk Highway	**0.9**	**0.6**	**2.0**
OU2MW-03S	Montauk Highway	**0.0**	**0.5**	**12.8**
OU2MW-03I	Montauk Highway	**NS**	**10.3**	**37.1**
OU2MW-03I2	Montauk Highway	**0.0**	**9.6**	**28.0**
OU2MW-03D	Montauk Highway	**0.0**	**0.5**	**2.1**
OU2MW-04WT	Montauk Highway	**NS**	**3.9**	**4.9**
OU2MW-04S	Montauk Highway	**5.3**	**0.8**	**2.1**
OU2MW-04I	Montauk Highway	**4.7**	**4.7**	**5.2**
OU2MW-04I2	Montauk Highway	**2.0**	**0.6**	**2.7**
OU2MW-04D	Montauk Highway	**0.3**	**0.5**	**2.0**
OU2MW-08WT	Montauk Highway	**NS**	**4.2**	**9.6**
OU2MW-08S	Montauk Highway	**0.0**	**0.2**	**26.0**
OU2MW-08I	Montauk Highway	**0.0**	**7.5**	**22.0**
OU2MW-08I2	Montauk Highway	**0.0**	**0.6**	**1.9**
OU2MW-08D	Montauk Highway	**0.0**	**0.2**	**1.9**
OU2MW-55S	29 Community	**19.8**	**20.5**	**6.0**
OU2MW-55I	29 Community	**26.4**	**27.0**	**13.3**
OU2MW-55I2	29 Community	**24.2**	**33.5**	**6.8**
OU2MW-55D	29 Community	**18.8**	**24.6**	**17.9**
OU2MW-56S	29 Community	**0.9**	**25.0**	**19.2**
OU2MW-56I	29 Community	**5.7**	**23.2**	**25.0**
OU2MW-56I2	29 Community	**12.6**	**26.5**	**34.0**
OU2MW-56D	29 Community	**20.6**	**12.0**	**15.0**

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
Oxidation Reduction Potential (mV)				
OU2MW-28S	9 North Clinton	**88**	**189**	**341**
OU2MW-28I	9 North Clinton	**-159**	**175**	**319**
OU2MW-28I2	9 North Clinton	**111**	**137**	**311**
OU2MW-29I	9 North Clinton	**-149**	**61**	**250**
OU2MW-29I2	9 North Clinton	**-140**	**196**	**356**
OU2MW-29D	9 North Clinton	**-128**	**-110**	**-127**
OU2MW-30S	9 North Clinton	**11**	**210**	**253**
OU2MW-30I	9 North Clinton	**-119**	**177**	**132**
OU2MW-30I2	9 North Clinton	**-53**	**210**	**215**
OU2MW-30I3	9 North Clinton	**19**	**193**	**264**
OU2MW-30D	9 North Clinton	**87**	**206**	**264**
OU2MW-30D2	9 North Clinton	**-96**	**135**	**258**
OU2MW-31I	9 North Clinton	**-129**	**168**	**270**
OU2MW-31I2	9 North Clinton	**-24**	**211**	**248**
OU2MW-32S	9 North Clinton	**106**	**122**	**305**
OU2MW-32I	9 North Clinton	**-155**	**-117**	**-122**
OU2MW-32I2	9 North Clinton	**-137**	**-92**	**-57**
OU2MW-32D	9 North Clinton	**-8**	**122**	**145**
OU2MW-35S	33 North Clinton	**-3**	**209**	**200**
OU2MW-35I	33 North Clinton	**-103**	**199**	**195**
OU2MW-35I2	33 North Clinton	**162**	**308**	**347**
OU2MW-35D	33 North Clinton	**40**	**275**	**343**
OU2MW-36S	33 North Clinton	**148**	**216**	**307**
OU2MW-36I	33 North Clinton	**-8**	**212**	**289**
OU2MW-36I2	33 North Clinton	**199**	**231**	**151**
OU2MW-36D	33 North Clinton	**-2**	**5**	**51**
OU2MW-37S	33 North Clinton	**96**	**219**	**254**
OU2MW-37I	33 North Clinton	**68**	**217**	**291**
OU2MW-37I2	33 North Clinton	**222**	**190**	**112**
OU2MW-37D	33 North Clinton	**93**	**95**	**145**
OU2MW-39S	33 North Clinton	**147**	**209**	**175**
OU2MW-39I	33 North Clinton	**17**	**178**	**155**
OU2MW-39I2	33 North Clinton	**128**	**179**	**151**
OU2MW-39D	33 North Clinton	**38**	**81**	**109**
OU2MW-42S	33 North Clinton	**NS**	**-41**	**18**
OU2MW-42I	33 North Clinton	**NS**	**69**	**88**
OU2MW-42I2	33 North Clinton	**NS**	**258**	**320**
OU2MW-42D	33 North Clinton	**NS**	**376**	**395**
OU2MW-45S	34 North Clinton	**-69**	**18**	**71**
OU2MW-45I	34 North Clinton	**-105**	**54**	**178**
OU2MW-45I2	34 North Clinton	**107**	**189**	**151**
OU2MW-45D	34 North Clinton	**122**	**203**	**250**
OU2MW-46S	34 North Clinton	**-45**	**245**	**220**
OU2MW-46I	34 North Clinton	**-78**	**201**	**220**
OU2MW-46I2	34 North Clinton	**85**	**237**	**248**
OU2MW-47S	34 North Clinton	**-62**	**209**	**243**
OU2MW-47I	34 North Clinton	**-104**	**191**	**267**
OU2MW-47I2	34 North Clinton	**75**	**220**	**215**
OU2MW-47D	34 North Clinton	**79**	**186**	**278**
OU2MW-19I	Cooper Lane	**-102**	**5**	**233**
OU2MW-19I2	Cooper Lane	**54**	**187**	**289**
OU2MW-19D	Cooper Lane	**-118**	**65**	**269**
OU2MW-20S	Cooper Lane	**83**	**181**	**291**
OU2MW-20I	Cooper Lane	**-115**	**122**	**258**
OU2MW-20I2	Cooper Lane	**127**	**149**	**126**
OU2MW-20D	Cooper Lane	**-32**	**163**	**183**

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
OU2MW-43S	Cooper Lane	**-135**	**-31**	**176**
OU2MW-43I	Cooper Lane	**-45**	**170**	**257**
OU2MW-43I2	Cooper Lane	**0**	**102**	**203**
OU2MW-43D	Cooper Lane	**-111**	**161**	**100**
OU2MW-44S	Cooper Lane	**-65**	**6**	**18**
OU2MW-44I	Cooper Lane	**90**	**125**	**216**
OU2MW-44I2	Cooper Lane	**37**	**47**	**78**
OU2MW-44D	Cooper Lane	**49**	**133**	**202**
GMP-01	Manatuck Lane	**-153**	**-160**	**-100**
GMP-02	Manatuck Lane	**-108**	**167**	**162**
GMP-04	Manatuck Lane	**-130**	**84**	**125**
OU2MW-06S	Manatuck Lane	**NS**	**174**	**225**
OU2MW-06	Manatuck Lane	**-344**	**182**	**252**
OU2MW-07S	Manatuck Lane	**NS**	**199**	**335**
OU2MW-07	Manatuck Lane	**NS**	**172**	**293**
OU2MW-52S	Manatuck Lane	**NS**	**186**	**245**
OU2MW-52I	Manatuck Lane	**NS**	**196**	**209**
OU2MW-52D	Manatuck Lane	**NS**	**194**	**241**
OU2MW-53S	Manatuck Lane	**NS**	**153**	**202**
OU2MW-53I	Manatuck Lane	**NS**	**189**	**226**
OU2MW-53D	Manatuck Lane	**NS**	**-2**	**35**
BBMW-25S	Montauk Highway	**77**	**193**	**298**
BBMW-25I	Montauk Highway	**-37**	**57**	**256**
BBMW-25D	Montauk Highway	**63**	**213**	**350**
OU2MW-01WT	Montauk Highway	**NS**	**75**	**260**
OU2MW-01S	Montauk Highway	**-289**	**55**	**349**
OU2MW-01I	Montauk Highway	**-231**	**189**	**244**
OU2MW-01I2	Montauk Highway	**-480**	**144**	**315**
OU2MW-01D	Montauk Highway	**NS**	**115**	**172**
OU2MW-02S	Montauk Highway	**-183**	**9**	**NS**
OU2MW-02I	Montauk Highway	**101**	**-6**	**-74**
OU2MW-02I2	Montauk Highway	**-6**	**3**	**9**
OU2MW-02D	Montauk Highway	**69**	**95**	**78**
OU2MW-03S	Montauk Highway	**-158**	**-106**	**119**
OU2MW-03I	Montauk Highway	**NS**	**175**	**259**
OU2MW-03I2	Montauk Highway	**-61**	**63**	**261**
OU2MW-03D	Montauk Highway	**-19**	**65**	**75**
OU2MW-04WT	Montauk Highway	**NS**	**144**	**253**
OU2MW-04S	Montauk Highway	**-157**	**-122**	**-63**
OU2MW-04I	Montauk Highway	**-120**	**28**	**101**
OU2MW-04I2	Montauk Highway	**-23**	**3**	**-50**
OU2MW-04D	Montauk Highway	**-104**	**-3**	**5**
OU2MW-08WT	Montauk Highway	**NS**	**123**	**220**
OU2MW-08S	Montauk Highway	**-142**	**-115**	**204**
OU2MW-08I	Montauk Highway	**-44**	**32**	**234**
OU2MW-08I2	Montauk Highway	**-102**	**-109**	**-161**
OU2MW-08D	Montauk Highway	**60**	**60**	**18**
OU2MW-55S	29 Community	**107**	**114**	**140**
OU2MW-55I	29 Community	**208**	**195**	**142**
OU2MW-55I2	29 Community	**214**	**210**	**285**
OU2MW-55D	29 Community	**183**	**247**	**339**
OU2MW-56S	29 Community	**156**	**120**	**112**
OU2MW-56I	29 Community	**-3**	**30**	**60**
OU2MW-56I2	29 Community	**194**	**221**	**313**
OU2MW-56D	29 Community	**210**	**213**	**326**

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
pH (SU)				
OU2MW-28S	9 North Clinton	**6.25**	**6.04**	**5.39**
OU2MW-28I	9 North Clinton	**6.98**	**5.90**	**5.50**
OU2MW-28I2	9 North Clinton	**6.26**	**5.80**	**5.05**
OU2MW-29I	9 North Clinton	**6.98**	**6.09**	**5.16**
OU2MW-29I2	9 North Clinton	**7.03**	**5.80**	**4.94**
OU2MW-29D	9 North Clinton	**6.73**	**6.69**	**5.71**
OU2MW-30S	9 North Clinton	**6.28**	**5.80**	**5.37**
OU2MW-30I	9 North Clinton	**6.64**	**5.87**	**5.63**
OU2MW-30I2	9 North Clinton	**6.54**	**5.88**	**5.60**
OU2MW-30I3	9 North Clinton	**6.10**	**5.64**	**5.27**
OU2MW-30D	9 North Clinton	**5.99**	**5.59**	**5.22**
OU2MW-30D2	9 North Clinton	**6.15**	**5.67**	**5.13**
OU2MW-31I	9 North Clinton	**7.96**	**6.11**	**5.04**
OU2MW-31I2	9 North Clinton	**7.06**	**5.71**	**5.47**
OU2MW-32S	9 North Clinton	**5.90**	**5.93**	**5.37**
OU2MW-32I	9 North Clinton	**7.88**	**6.78**	**5.92**
OU2MW-32I2	9 North Clinton	**7.86**	**6.68**	**5.52**
OU2MW-32D	9 North Clinton	**6.89**	**5.85**	**4.94**
OU2MW-35S	33 North Clinton	**6.56**	**5.90**	**5.48**
OU2MW-35I	33 North Clinton	**6.71**	**6.23**	**5.84**
OU2MW-35I2	33 North Clinton	**5.34**	**5.24**	**4.63**
OU2MW-35D	33 North Clinton	**5.69**	**4.88**	**4.30**
OU2MW-36S	33 North Clinton	**6.44**	**6.01**	**5.65**
OU2MW-36I	33 North Clinton	**6.42**	**6.03**	**5.70**
OU2MW-36I2	33 North Clinton	**5.28**	**4.98**	**4.30**
OU2MW-36D	33 North Clinton	**5.92**	**5.83**	**5.02**
OU2MW-37S	33 North Clinton	**6.58**	**6.03**	**5.66**
OU2MW-37I	33 North Clinton	**6.31**	**6.17**	**5.62**
OU2MW-37I2	33 North Clinton	**5.56**	**5.52**	**5.06**
OU2MW-37D	33 North Clinton	**5.08**	**5.17**	**4.74**
OU2MW-39S	33 North Clinton	**5.67**	**5.65**	**5.87**
OU2MW-39I	33 North Clinton	**7.49**	**6.04**	**6.06**
OU2MW-39I2	33 North Clinton	**5.60**	**4.80**	**4.54**
OU2MW-39D	33 North Clinton	**6.97**	**5.13**	**4.55**
OU2MW-42S	33 North Clinton	**NS**	**6.45**	**5.80**
OU2MW-42I	33 North Clinton	**NS**	**6.48**	**6.08**
OU2MW-42I2	33 North Clinton	**NS**	**5.62**	**4.94**
OU2MW-42D	33 North Clinton	**NS**	**3.50**	**2.74**
OU2MW-45S	34 North Clinton	**6.22**	**6.01**	**5.34**
OU2MW-45I	34 North Clinton	**6.56**	**5.99**	**5.00**
OU2MW-45I2	34 North Clinton	**6.18**	**5.86**	**5.33**
OU2MW-45D	34 North Clinton	**6.03**	**5.64**	**5.15**
OU2MW-46S	34 North Clinton	**6.42**	**5.90**	**5.72**
OU2MW-46I	34 North Clinton	**6.26**	**6.29**	**6.18**
OU2MW-46I2	34 North Clinton	**6.00**	**5.77**	**5.55**
OU2MW-47S	34 North Clinton	**6.33**	**5.61**	**5.38**
OU2MW-47I	34 North Clinton	**6.55**	**6.10**	**5.73**
OU2MW-47I2	34 North Clinton	**6.28**	**6.09**	**6.00**
OU2MW-47D	34 North Clinton	**5.55**	**5.61**	**5.55**
OU2MW-19I	Cooper Lane	**7.51**	**6.27**	**6.44**
OU2MW-19I2	Cooper Lane	**5.94**	**5.73**	**5.95**
OU2MW-19D	Cooper Lane	**7.09**	**5.70**	**5.13**
OU2MW-20S	Cooper Lane	**6.17**	**5.74**	**5.54**
OU2MW-20I	Cooper Lane	**6.62**	**5.89**	**5.63**
OU2MW-20I2	Cooper Lane	**6.19**	**5.91**	**5.82**
OU2MW-20D	Cooper Lane	**7.05**	**5.16**	**5.04**

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
OU2MW-43S	Cooper Lane	**11.35**	**6.16**	**6.53**
OU2MW-43I	Cooper Lane	**9.79**	**6.26**	**6.17**
OU2MW-43I2	Cooper Lane	**8.91**	**5.91**	**5.00**
OU2MW-43D	Cooper Lane	**10.86**	**5.33**	**5.66**
OU2MW-44S	Cooper Lane	**10.40**	**6.01**	**6.08**
OU2MW-44I	Cooper Lane	**7.54**	**5.76**	**5.19**
OU2MW-44I2	Cooper Lane	**8.63**	**6.05**	**6.32**
OU2MW-44D	Cooper Lane	**8.24**	**5.48**	**4.91**
GMP-01	Manatuck Lane	**6.81**	**6.94**	**6.46**
GMP-02	Manatuck Lane	**6.61**	**5.90**	**5.83**
GMP-04	Manatuck Lane	**6.76**	**6.12**	**5.90**
OU2MW-06S	Manatuck Lane	**NS**	**6.07**	**5.97**
OU2MW-06	Manatuck Lane	**7.68**	**5.80**	**5.70**
OU2MW-07S	Manatuck Lane	**NS**	**5.71**	**5.43**
OU2MW-07	Manatuck Lane	**NS**	**5.99**	**5.61**
OU2MW-52S	Manatuck Lane	**NS**	**4.99**	**5.16**
OU2MW-52I	Manatuck Lane	**NS**	**6.03**	**5.85**
OU2MW-52D	Manatuck Lane	**NS**	**5.98**	**5.99**
OU2MW-53S	Manatuck Lane	**NS**	**5.74**	**5.54**
OU2MW-53I	Manatuck Lane	**NS**	**6.04**	**6.05**
OU2MW-53D	Manatuck Lane	**NS**	**6.13**	**5.89**
BBMW-25S	Montauk Highway	**6.22**	**5.98**	**5.43**
BBMW-25I	Montauk Highway	**6.47**	**6.19**	**5.69**
BBMW-25D	Montauk Highway	**5.68**	**5.22**	**4.50**
OU2MW-01WT	Montauk Highway	**NS**	**6.36**	**5.73**
OU2MW-01S	Montauk Highway	**6.85**	**6.04**	**4.79**
OU2MW-01I	Montauk Highway	**6.63**	**5.92**	**5.55**
OU2MW-01I2	Montauk Highway	**7.05**	**5.80**	**4.82**
OU2MW-01D	Montauk Highway	**NS**	**5.45**	**4.92**
OU2MW-02S	Montauk Highway	**6.88**	**6.24**	**NS**
OU2MW-02I	Montauk Highway	**6.12**	**6.25**	**6.71**
OU2MW-02I2	Montauk Highway	**6.14**	**6.01**	**6.18**
OU2MW-02D	Montauk Highway	**5.74**	**5.25**	**5.54**
OU2MW-03S	Montauk Highway	**6.85**	**6.62**	**5.24**
OU2MW-03I	Montauk Highway	**NS**	**5.68**	**5.21**
OU2MW-03I2	Montauk Highway	**6.43**	**5.87**	**4.95**
OU2MW-03D	Montauk Highway	**5.83**	**5.76**	**4.80**
OU2MW-04WT	Montauk Highway	**NS**	**5.70**	**5.34**
OU2MW-04S	Montauk Highway	**6.83**	**6.59**	**5.80**
OU2MW-04I	Montauk Highway	**6.66**	**5.89**	**5.40**
OU2MW-04I2	Montauk Highway	**6.25**	**6.24**	**5.82**
OU2MW-04D	Montauk Highway	**7.06**	**6.17**	**5.20**
OU2MW-08WT	Montauk Highway	**NS**	**6.21**	**5.73**
OU2MW-08S	Montauk Highway	**7.18**	**6.89**	**4.80**
OU2MW-08I	Montauk Highway	**6.68**	**6.02**	**5.30**
OU2MW-08I2	Montauk Highway	**6.89**	**6.48**	**5.84**
OU2MW-08D	Montauk Highway	**5.75**	**5.67**	**4.79**
OU2MW-55S	29 Community	**6.28**	**5.39**	**6.04**
OU2MW-55I	29 Community	**5.53**	**5.77**	**6.06**
OU2MW-55I2	29 Community	**5.10**	**5.45**	**5.99**
OU2MW-55D	29 Community	**5.13**	**5.02**	**4.88**
OU2MW-56S	29 Community	**5.38**	**5.84**	**6.10**
OU2MW-56I	29 Community	**6.14**	**5.74**	**5.30**
OU2MW-56I2	29 Community	**5.32**	**5.26**	**5.13**
OU2MW-56D	29 Community	**5.65**	**5.24**	**5.20**

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
Temperature (degrees Celcius)				
OU2MW-28S	9 North Clinton	**15.9**	**15.4**	**11.4**
OU2MW-28I	9 North Clinton	**14.4**	**14.2**	**12.0**
OU2MW-28I2	9 North Clinton	**14.2**	**14.2**	**12.1**
OU2MW-29I	9 North Clinton	**15.7**	**14.8**	**13.4**
OU2MW-29I2	9 North Clinton	**15.0**	**14.4**	**13.5**
OU2MW-29D	9 North Clinton	**14.4**	**14.2**	**13.5**
OU2MW-30S	9 North Clinton	**15.0**	**16.2**	**14.0**
OU2MW-30I	9 North Clinton	**14.3**	**15.0**	**14.5**
OU2MW-30I2	9 North Clinton	**14.5**	**14.9**	**14.4**
OU2MW-30I3	9 North Clinton	**14.3**	**14.8**	**13.8**
OU2MW-30D	9 North Clinton	**14.0**	**14.4**	**13.6**
OU2MW-30D2	9 North Clinton	**14.2**	**14.8**	**13.7**
OU2MW-31I	9 North Clinton	**16.6**	**14.7**	**14.3**
OU2MW-31I2	9 North Clinton	**15.3**	**15.0**	**14.7**
OU2MW-32S	9 North Clinton	**15.7**	**14.5**	**11.3**
OU2MW-32I	9 North Clinton	**15.6**	**14.0**	**13.4**
OU2MW-32I2	9 North Clinton	**14.4**	**14.6**	**13.2**
OU2MW-32D	9 North Clinton	**14.3**	**14.1**	**12.2**
OU2MW-35S	33 North Clinton	**12.7**	**14.0**	**11.4**
OU2MW-35I	33 North Clinton	**12.4**	**14.2**	**13.4**
OU2MW-35I2	33 North Clinton	**12.2**	**13.8**	**12.9**
OU2MW-35D	33 North Clinton	**12.1**	**14.2**	**13.4**
OU2MW-36S	33 North Clinton	**7.3**	**14.2**	**10.8**
OU2MW-36I	33 North Clinton	**10.5**	**13.9**	**11.2**
OU2MW-36I2	33 North Clinton	**10.9**	**14.3**	**11.2**
OU2MW-36D	33 North Clinton	**11.2**	**14.0**	**11.5**
OU2MW-37S	33 North Clinton	**11.1**	**14.6**	**13.2**
OU2MW-37I	33 North Clinton	**13.0**	**14.5**	**14.3**
OU2MW-37I2	33 North Clinton	**13.2**	**14.2**	**13.6**
OU2MW-37D	33 North Clinton	**12.4**	**13.9**	**13.2**
OU2MW-39S	33 North Clinton	**9.2**	**14.1**	**11.7**
OU2MW-39I	33 North Clinton	**12.9**	**14.0**	**13.2**
OU2MW-39I2	33 North Clinton	**12.0**	**13.9**	**13.0**
OU2MW-39D	33 North Clinton	**11.9**	**13.7**	**12.4**
OU2MW-42S	33 North Clinton	**NS**	**13.9**	**12.1**
OU2MW-42I	33 North Clinton	**NS**	**14.2**	**13.2**
OU2MW-42I2	33 North Clinton	**NS**	**14.0**	**13.1**
OU2MW-42D	33 North Clinton	**NS**	**13.7**	**12.8**
OU2MW-45S	34 North Clinton	**12.4**	**13.2**	**11.3**
OU2MW-45I	34 North Clinton	**13.1**	**13.8**	**13.1**
OU2MW-45I2	34 North Clinton	**13.3**	**13.4**	**12.3**
OU2MW-45D	34 North Clinton	**13.2**	**13.5**	**12.7**
OU2MW-46S	34 North Clinton	**11.3**	**13.5**	**10.4**
OU2MW-46I	34 North Clinton	**13.4**	**14.1**	**13.1**
OU2MW-46I2	34 North Clinton	**12.7**	**13.3**	**12.5**
OU2MW-47S	34 North Clinton	**12.6**	**14.7**	**12.6**
OU2MW-47I	34 North Clinton	**13.8**	**14.4**	**13.3**
OU2MW-47I2	34 North Clinton	**13.1**	**14.7**	**13.6**
OU2MW-47D	34 North Clinton	**13.4**	**14.4**	**13.1**
OU2MW-19I	Cooper Lane	**17.7**	**13.7**	**12.4**
OU2MW-19I2	Cooper Lane	**15.3**	**13.9**	**12.2**
OU2MW-19D	Cooper Lane	**15.2**	**13.7**	**12.4**
OU2MW-20S	Cooper Lane	**16.5**	**14.3**	**11.6**
OU2MW-20I	Cooper Lane	**16.2**	**14.0**	**14.1**
OU2MW-20I2	Cooper Lane	**15.8**	**14.3**	**14.1**
OU2MW-20D	Cooper Lane	**14.5**	**14.1**	**13.2**

Appendix D - Table D-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Oxygen Injection System	Baseline Average	Historical Average	Current Average
OU2MW-43S	Cooper Lane	**15.6**	**13.3**	**11.4**
OU2MW-43I	Cooper Lane	**15.0**	**14.6**	**12.7**
OU2MW-43I2	Cooper Lane	**14.2**	**13.9**	**13.2**
OU2MW-43D	Cooper Lane	**13.8**	**13.5**	**13.0**
OU2MW-44S	Cooper Lane	**14.8**	**12.9**	**11.8**
OU2MW-44I	Cooper Lane	**13.5**	**13.4**	**13.3**
OU2MW-44I2	Cooper Lane	**13.5**	**13.5**	**13.7**
OU2MW-44D	Cooper Lane	**13.6**	**13.4**	**13.2**
GMP-01	Manatuck Lane	**14.22**	**14.35**	**13.8**
GMP-02	Manatuck Lane	**13.24**	**13.50**	**12.2**
GMP-04	Manatuck Lane	**13.90**	**14.80**	**13.3**
OU2MW-06S	Manatuck Lane	**NS**	**14.66**	**9.4**
OU2MW-06	Manatuck Lane	**14.70**	**14.26**	**11.4**
OU2MW-07S	Manatuck Lane	**NS**	**14.76**	**9.9**
OU2MW-07	Manatuck Lane	**NS**	**14.59**	**12.5**
OU2MW-52S	Manatuck Lane	**NS**	**14.68**	**9.9**
OU2MW-52I	Manatuck Lane	**NS**	**13.91**	**11.7**
OU2MW-52D	Manatuck Lane	**NS**	**13.64**	**13.1**
OU2MW-53S	Manatuck Lane	**NS**	**13.79**	**9.7**
OU2MW-53I	Manatuck Lane	**NS**	**13.62**	**13.3**
OU2MW-53D	Manatuck Lane	**NS**	**12.81**	**13.3**
BBMW-25S	Montauk Highway	**15.0**	**16.0**	**12.3**
BBMW-25I	Montauk Highway	**15.4**	**15.5**	**13.5**
BBMW-25D	Montauk Highway	**14.0**	**14.4**	**14.0**
OU2MW-01WT	Montauk Highway	**NS**	**15.2**	**10.8**
OU2MW-01S	Montauk Highway	**16.7**	**15.0**	**13.4**
OU2MW-01I	Montauk Highway	**15.9**	**14.8**	**13.1**
OU2MW-01I2	Montauk Highway	**12.8**	**14.5**	**14.5**
OU2MW-01D	Montauk Highway	**NS**	**14.4**	**14.1**
OU2MW-02S	Montauk Highway	**16.7**	**15.0**	**NS**
OU2MW-02I	Montauk Highway	**18.0**	**14.8**	**10.2**
OU2MW-02I2	Montauk Highway	**16.0**	**14.5**	**9.1**
OU2MW-02D	Montauk Highway	**17.2**	**14.4**	**9.6**
OU2MW-03S	Montauk Highway	**16.5**	**14.3**	**13.8**
OU2MW-03I	Montauk Highway	**NS**	**14.0**	**13.4**
OU2MW-03I2	Montauk Highway	**15.7**	**13.5**	**13.0**
OU2MW-03D	Montauk Highway	**15.0**	**13.2**	**12.4**
OU2MW-04WT	Montauk Highway	**NS**	**13.1**	**8.0**
OU2MW-04S	Montauk Highway	**15.5**	**13.5**	**10.4**
OU2MW-04I	Montauk Highway	**16.0**	**13.3**	**12.0**
OU2MW-04I2	Montauk Highway	**15.2**	**13.1**	**12.4**
OU2MW-04D	Montauk Highway	**14.7**	**12.9**	**11.8**
OU2MW-08WT	Montauk Highway	**NS**	**16.7**	**13.2**
OU2MW-08S	Montauk Highway	**17.6**	**16.0**	**15.9**
OU2MW-08I	Montauk Highway	**16.8**	**14.6**	**14.5**
OU2MW-08I2	Montauk Highway	**17.0**	**14.3**	**14.4**
OU2MW-08D	Montauk Highway	**16.2**	**14.1**	**14.2**
OU2MW-55S	29 Community	**12.9**	**18.5**	**15.7**
OU2MW-55I	29 Community	**15.1**	**15.7**	**16.5**
OU2MW-55I2	29 Community	**14.8**	**15.3**	**18.5**
OU2MW-55D	29 Community	**14.8**	**17.0**	**16.9**
OU2MW-56S	29 Community	**14.1**	**17.7**	**14.8**
OU2MW-56I	29 Community	**14.9**	**14.9**	**15.4**
OU2MW-56I2	29 Community	**14.5**	**15.4**	**15.9**
OU2MW-56D	29 Community	**12.5**	**14.4**	**15.0**

Appendix D - Table D-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	2011												2012		
	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-11	Feb-11	Mar-11
Conductivity (mS/cm)															
IO-10	--	0.544	1.490	0.573	0.900	0.432	0.447	0.460	0.510	0.421	0.424	0.496	0.432	0.485	0.417
MW-11W	--	--	0.300	--	--	0.508	--	--	0.331	--	0.389	--	0.227	--	--
MW-30WR	0.808	--	--	--	--	1.310	--	--	0.689	0.998	--	--	0.918	--	--
MW-32WR	--	--	1.44	--	--	1.440	--	0.678	--	1.060	--	--	0.777	--	--
MW-34S	0.783	0.667	0.490	0.481	0.537	0.447	0.920	0.503	1.100	0.808	0.484	0.444	0.394	0.411	0.595
MW-34I	0.261	0.255	1.100	1.290	0.299	0.591	0.999	0.387	0.450	0.375	0.385	0.416	0.425	0.428	0.362
MW-34D	0.320	0.251	0.782	0.261	0.759	0.291	0.925	0.257	0.380	0.299	0.323	0.330	0.298	0.317	0.302
MW-46WR	--	0.739	3.670	1.210	1.050	0.664	1.500	0.700	0.869	0.570	0.417	0.401	0.695	0.093	0.619
MW-70/70S	0.401	0.462	0.340	0.433	0.598	0.576	0.503	0.413	0.501	0.571	0.388	0.345	0.374	0.385	0.374
MWBS-02S	0.264	--	--	--	--	0.563	--	--	0.430	0.621	--	--	0.486	--	--
MWBS-02I	--	--	0.327	0.237	--	--	--	--	0.365	0.555	--	--	0.370	--	--
MWBS-02D	--	--	0.275	0.265	--	--	--	--	0.340	0.487	--	--	0.371	--	--
OU3MW-01S	--	--	4.190	--	--	0.624	--	--	0.569	0.679	--	--	0.582	--	--
OU3MW-02S	--	--	0.818	--	0.597	0.391	1.230	0.501	0.405	0.500	--	--	0.343	--	--
OU3MW-02I	--	--	0.358	--	0.200	0.340	0.332	0.264	0.337	0.321	--	--	0.199	--	--
OU3MW-03S	--	--	0.998	--	0.359	0.535	0.685	0.620	0.785	0.951	0.640	0.699	0.714	--	--
OU3MW-03I	--	--	0.335	--	0.000	0.526	0.522	0.412	0.462	0.610	0.445	0.492	0.517	--	--
OU3MW-04S	--	--	1.38	--	0.821	0.659	0.867	0.718	0.672	0.861	0.834	0.678	0.813	0.780	--
OU3MW-04I	--	--	0.488	--	0.226	0.385	0.541	0.681	1.080	1.200	0.386	0.366	0.453	0.408	--
OU3MW-04D	--	--	0.517	--	0.185	0.278	0.333	0.266	0.363	0.434	0.353	0.353	0.410	0.324	--
OU3MW-04D2	--	--	--	--	--	--	--	--	--	--	--	--	--	0.366	--
OU3MW-04D3	--	--	--	--	--	--	--	--	--	--	--	--	--	0.346	--
OU3MW-05S	--	--	0.700	--	--	0.640	0.990	0.389	0.924	--	0.543	--	0.562	--	--
OU3MW-05I	--	--	0.464	--	--	0.382	0.677	0.480	0.576	--	0.701	--	0.346	--	--
OU3MW-06S	--	--	0.762	--	0.473	--	--	--	0.437	--	--	0.498	0.610	--	--
OU3MW-07S	0.486	0.362	0.380	0.269	0.499	0.320	0.370	0.327	0.423	0.319	0.343	0.341	0.353	0.358	0.439
OU3MW-07I	0.368	0.377	0.417	0.252	0.347	0.322	0.343	0.321	0.347	0.350	0.394	0.414	0.376	0.416	0.531
OU3MW-07I2	0.274	0.244	0.418	0.323	0.466	0.369	0.427	0.368	0.397	0.391	0.436	0.451	0.456	0.447	0.414
OU3MW-07I3	--	--	--	--	--	--	--	--	--	--	--	--	--	0.439	--
OU3MW-07I4	--	--	--	--	--	--	--	--	--	--	--	--	--	0.352	--
OU3MW-08S	--	0.432	--	0.437	0.813	0.430	0.424	0.473	0.490	0.408	0.457	0.519	0.597	--	--
OU3MW-08I	--	0.196	--	0.202	1.890	0.900	0.172	0.518	0.151	0.154	--	--	0.245	--	--
OU3MW-09S	--	--	0.608	0.477	0.579	0.578	0.650	0.694	0.570	0.583	0.420	0.568	0.640	--	--
OU3MW-09I	--	--	--[1]	--[1]	0.490	65.600	0.582	0.653	0.496	0.504	0.564	0.557	0.660	--	--
OU3MW-09I2	--	--	--	--	--	--	0.389	0.441	0.303	0.295	0.305	0.320	0.393	--	--
OU3MW-10S	--	0.418	--	0.382	0.470	0.456	0.465	0.482	0.358	0.385	0.423	0.415	0.527	--	--
OU3MW-10I	--	0.259	--	0.191	0.250	0.900	0.279	0.256	0.169	0.264	0.334	0.354	0.490	--	--
OU3MW-11S	--	0.663	--	0.667	1.030	0.751	0.746	0.920	0.652	--	0.480	--	0.606	--	--
OU3MW-11I	--	0.240	--	0.249	0.310	0.900	0.292	0.263	0.218	--	0.366	--	0.360	--	--
OU3MW-12S	--	0.257	--	0.290	0.345	--	--	0.313	--	0.328	--	--	0.332	--	--
OU3MW-12I	--	0.328	--	0.218	0.900	--	--	0.286	--	--	--	0.279	0.362	--	--

Appendix D - Table D-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	2011												2012		
	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-11	Feb-11	Mar-11
Dissolved Oxygen (mg/L)															
IO-10	--	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
MW-11W	--	--	0.8	--	--	0.0	--	--	0.3	--	3.2	--	1.8	--	--
MW-30WR	0.0	--	--	--	--	0.4	--	--	0.0	1.7	--	--	4.8	--	--
MW-32WR	--	--	0.0	--	--	0.6	--	0.6	--	2.0	--	--	2.0	--	--
MW-34S	0.0	0.0	3.0	0.0	1.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-34I	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-34D	0.0	0.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-46WR	--	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-70/70S	0.0	0.0	1.4	0.0	5.0	0.0	0.0	0.0	2.0	2.0	2.5	0.0	0.0	0.0	0.0
MWBS-02S	0.0	--	--	--	--	0.3	--	--	0.7	1.9	--	--	1.5	--	--
MWBS-02I	--	--	0.0	0.0	--	--	--	--	2.2	1.9	--	--	1.9	--	--
MWBS-02D	--	--	0.0	0.0	--	--	--	--	0.0	2.0	--	--	2.1	--	--
OU3MW-01S	--	--	0.0	--	--	0.0	--	--	1.8	1.8	--	--	4.0	--	--
OU3MW-02S	--	--	23.0	--	18.5	20.0	24.0	24.0	30.0	24.0	--	--	23.0	--	--
OU3MW-02I	--	--	21.0	--	42.0	40.0	31.0	18.2	39.0	28.0	--	--	30.0	--	--
OU3MW-03S	--	--	0.0	--	0.0	0.0	0.0	0.4	0.4	2.1	2.4	3.2	0.0	--	--
OU3MW-03I	--	--	5.1	--	11.0	0.0	0.0	0.4	0.3	2.1	2.4	3.2	2.4	--	--
OU3MW-04S	--	--	0.0	--	9.7	0.0	0.0	0.4	0.7	2.2	2.5	3.0	2.6	0.0	--
OU3MW-04I	--	--	26.0	--	2.2	0.0	0.0	0.1	2.6	2.6	9.6	14.6	16.5	20.0	--
OU3MW-04D	--	--	0.0	--	0.0	0.0	0.0	0.0	2.4	1.7	2.1	2.8	2.4	0.0	--
OU3MW-04D2	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--
OU3MW-04D3	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--
OU3MW-05S	--	--	0.8	--	--	0.0	0.0	1.7	1.9	--	3.9	--	0.1	--	--
OU3MW-05I	--	--	14.3	--	--	0.0	1.8	10.6	6.5	--	4.8	--	20.0	--	--
OU3MW-06S	--	--	0.0	--	0.0	--	--	--	0.0	--	--	2.5	5.0	--	--
OU3MW-07S	0.0	0.0	1.0	4.0	7.0	1.1	1.0	5.0	11.0	10.0	8.6	10.0	11.0	20.0	20.0
OU3MW-07I	10.0	9.0	1.0	6.0	6.0	18.7	25.0	28.0	26.0	27.0	23.0	21.0	23.0	20.0	34.0
OU3MW-07I2	3.0	0.0	1.0	1.0	0.0	0.0	2.6	4.0	2.0	2.0	2.0	4.0	5.0	5.2	4.0
OU3MW-07I3	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--
OU3MW-07I4	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--
OU3MW-08S	--	0.0	--	0.0	0.0	0.0	0.0	0.0	0.8	0.6	2.6	2.7	2.2	--	--
OU3MW-08I	--	0.0	--	0.0	0.0	0.0	0.0	0.0	0.6	2.1	--	--	2.5	--	--
OU3MW-09S	--	--	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.3	2.6	3.0	3.4	--	--
OU3MW-09I	--	--	--[1]	--[1]	0.0	0.0	0.0	0.3	0.3	0.6	2.4	2.9	2.0	--	--
OU3MW-09I2	--	--	--	--	--	--	0.0	0.0	0.1	0.3	2.2	2.5	1.6	--	--
OU3MW-10S	--	0.0	--	0.6	0.0	0.0	0.0	0.6	0.9	0.6	2.5	4.2	2.8	--	--
OU3MW-10I	--	0.0	--	0.5	0.0	0.0	0.0	0.0	0.6	0.0	2.1	2.6	2.1	--	--
OU3MW-11S	--	4.2	--	2.2	0.0	0.0	0.0	0.0	0.7	--	2.7	--	2.2	--	--
OU3MW-11I	--	0.0	--	0.0	0.0	0.0	0.0	0.0	0.2	--	2.4	--	2.0	--	--
OU3MW-12S	--	0.0	--	0.6	0.0	--	--	0.7	--	2.3	--	--	2.0	--	--
OU3MW-12I	--	0.0	--	0.6	0.0	--	--	0.4	--	--	--	2.5	1.9	--	--

Appendix D - Table D-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	2011												2012		
	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-11	Feb-11	Mar-11
Oxidation Reduction Potential (mV)															
IO-10	--	-123	-160	-121	-101	-117	-129	-146	-110	-152	-144	-137	-111	-102	-98
MW-11W	--	--	35	--	--	-45	--	--	-34		-11		59	--	--
MW-30WR	-52	--	--	--	--	11	--	--	-45	-9			6	--	--
MW-32WR	--	--	-37	--	--	-76	--	-116	--	-89			-30	--	--
MW-34S	-68	-66	52	-103	-19	-138	-104	-71	-84	40	35	36	-53	-79	-88
MW-34I	58	67	-78	-117	220	-90	-89	-99	-94	-116	-109	-124	-85	-71	-93
MW-34D	94	181	259	118	-145	118	115	73	52	-126	-119	-96	45	44	-57
MW-46WR	--	-130	-93	-190	-100	-170	-169	-147	-100	-231	-188	-116	-107	-91	-161
MW-70/70S	-151	-98	-34	-144	-107	-177	-145	-137	-110	-113	-163	-124	-107	-79	-125
MWBS-02S	-98	--	--	--	--	-36	--	--	-171	21	--	--	-46	--	--
MWBS-02I	--	--	79	-57	--	--	--	--	-35	-33	--	--	28	--	--
MWBS-02D	--	--	61	83	--	--	--	--	8	-51	--	--	86	--	--
OU3MW-01S	--	--	-29	--	--	-142	--	--	-82	-63	--	--	-67	--	--
OU3MW-02S	--	--	91	--	136	168	125	99	153	270	--	--	209	--	--
OU3MW-02I	--	--	168	--	230	220	161	117	194	178	--	--	348	--	--
OU3MW-03S	--	--	46	--	20	-137	-108	-76	-142	-81	-136	-126	-99	--	--
OU3MW-03I	--	--	116	--	35	-130	-139	-134	-153	-72	-124	-96	-57	--	--
OU3MW-04S	--	--	48	--	-10	-95	-79	-30	-107	95	46	44	34	-40	--
OU3MW-04I	--	--	149	--	114	-45	18	-24	15	2	-11	31	131	70	--
OU3MW-04D	--	--	165	--	130	102	125	139	92	18	-133	-57	121	65	--
OU3MW-04D2	--	--	--	--	--	--	--	--	--	--	--	--	--	28	--
OU3MW-04D3	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--
OU3MW-05S	--	--	141	--	--	-6	32	71	47	--	167	--	106	--	--
OU3MW-05I	--	--	210	--	--	30	60	96	143	--	126	--	164	--	--
OU3MW-06S	--	--	68	--	43	--	--	--	-10	--	--	-37	26	--	--
OU3MW-07S	50	-18	8	134	77	-48	27	51	64	-76	-70	-74	23	62	232
OU3MW-07I	158	102	-35	97	84	64	65	71	67	30	-2	7	183	160	308
OU3MW-07I2	131	58	-58	-20	-38	-77	-39	-51	-72	77	106	121	-42	-35	-26
OU3MW-07I3	--	--	--	--	--	--	--	--	--	--	--	--	--	-47	--
OU3MW-07I4	--	--	--	--	--	--	--	--	--	--	--	--	--	-22	--
OU3MW-08S	--	-3	--	-104	-8	-121	-118	-111	-48	-180	-69	-159	-25	--	--
OU3MW-08I	--	188	--	118	139	127	110	108	75	142	--	--	124	--	--
OU3MW-09S	--	--	-106	-148	-128	-143	-175	-172	-126	-159	-110	-125	-60	--	--
OU3MW-09I	--	--	--[1]	--[1]	-121	-175	-196	-206	-215	-220	-215	-225	-204	--	--
OU3MW-09I2	--	--	--	--	--	--	52	22	2	-89	26	-34	63	--	--
OU3MW-10S	--	-109	--	-66	-83	-134	-154	-161	-60	31	8	28	-59	--	--
OU3MW-10I	--	144	--	163	80	123	63	88	78	-126	-97	-60	25	--	--
OU3MW-11S	--	61	--	24	-20	23	-38	-48	-28	--	151	--	-1	--	--
OU3MW-11I	--	122	--	164	210	166	103	117	111	--	-3	--	110	--	--
OU3MW-12S	--	18	--	-32	-35	--	--	-103	--	--	--	140	-67	--	--
OU3MW-12I	--	168	--	108	107	--	--	102	--	-111	--	--	139	--	--

Appendix D - Table D-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	2011												2012		
	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-11	Feb-11	Mar-11
pH (SU)															
IO-10	--	7.34	6.51	8.0	7.11	6.50	6.68	7.13	6.23	7.02	6.85	6.68	7.18	6.86	6.60
MW-11W	--	--	6.22	--	--	6.29	--	--	6.00	--	6.05	--	6.35	--	--
MW-30WR	6.59	--	--	--	--	5.21	--	--	6.09	5.43	--	--	5.53	--	--
MW-32WR	--	--	6.74	--	--	5.47	--	6.47	--	5.74	--	--	5.80	--	--
MW-34S	5.82	6.66	ER	7.34	5.74	6.57	6.18	6.58	5.72	6.55	6.47	6.21	6.62	6.72	6.22
MW-34I	5.62	6.38	ER	7.80	6.05	6.74	6.34	6.77	8.50	6.87	6.76	6.58	6.93	6.91	6.58
MW-34D	5.82	6.48	4.54	6.21	6.65	5.99	5.44	6.15	6.47	6.14	6.03	5.80	6.18	6.12	5.58
MW-46WR	--	6.66	5.28	7.46	7.55	7.54	6.16	6.46	5.74	6.28	6.12	5.91	6.70	6.64	6.03
MW-70/70S	5.82	6.64	6.55	7.73	5.54	8.06	6.43	6.62	5.87	5.71	6.41	6.24	6.92	6.61	6.19
MWBS-02S	6.64	--	--	6.56	--	--	--	--	6.29	5.39	--	--	5.88	--	--
MWBS-02I	--	--	4.90	6.77	--	--	--	--	5.43	5.19	--	--	5.14	--	--
MWBS-02D	--	--	5.33	--	--	5.41	--	--	6.47	5.33	--	--	5.27	--	--
OU3MW-01S	--	--	6.11	--	--	7.99	--	--	6.02	5.89	--	--	5.97	--	--
OU3MW-02S	--	--	5.92	--	5.05	5.54	5.71	6.19	5.55	5.40	--	--	5.96	--	--
OU3MW-02I	--	--	5.65	--	5.10	5.02	5.74	5.93	5.49	5.25	--	--	5.09	--	--
OU3MW-03S	--	--	5.34	--	5.50	7.64	6.18	6.52	7.40	5.90	6.65	6.38	6.36	--	--
OU3MW-03I	--	--	4.84	--	4.90	5.74	5.97	6.40	7.42	5.76	6.35	6.24	5.57	--	--
OU3MW-04S	--	--	5.64	--	5.24	7.41	6.02	6.39	7.16	5.66	6.32	6.17	5.47	6.36	--
OU3MW-04I	--	--	5.08	--	5.05	5.70	5.64	6.08	5.47	5.37	5.92	5.79	5.29	6.06	--
OU3MW-04D	--	--	5.17	--	5.14	5.61	5.79	6.12	5.33	5.25	5.92	5.95	5.29	6.05	--
OU3MW-04D2	--	--	--	--	--	--	--	--	--	--	--	--	--	6.29	--
OU3MW-04D3	--	--	--	--	--	--	--	--	--	--	--	--	--	6.35	--
OU3MW-05S	--	--	5.58	--	--	6.84	6.19	6.63	5.83	--	6.49	--	6.31	--	--
OU3MW-05I	--	--	4.98	--	--	5.72	5.62	5.78	5.06	--	5.14	--	5.81	--	--
OU3MW-06S	--	--	5.20	--	6.50	--	--	--	5.96	--	--	6.00	5.54	--	--
OU3MW-07S	5.13	5.48	5.50	4.88	5.13	5.92	5.27	5.74	5.05	5.87	5.84	5.71	5.88	5.78	5.08
OU3MW-07I	6.17	6.31	6.31	5.53	6.35	6.32	6.03	6.52	6.65	6.53	6.55	6.53	6.38	6.22	5.73
OU3MW-07I2	5.93	6.35	6.35	5.76	7.12	6.40	6.46	6.79	7.47	6.99	6.73	6.71	6.93	6.84	6.41
OU3MW-07I3	--	--	--	--	--	--	--	--	--	--	--	--	--	6.92	--
OU3MW-07I4	--	--	--	--	--	--	--	--	--	--	--	--	--	6.39	--
OU3MW-08S	--	6.81	--	7.21	5.75	7.32	6.10	5.84	6.32	6.38	6.71	6.30	5.52	--	--
OU3MW-08I	--	6.42	--	6.39	4.28	5.83	5.90	5.82	5.88	6.11	--	--	5.25	--	--
OU3MW-09S	--	--	6.75	8.40	7.50	7.84	7.18	6.98	7.49	7.52	7.87	7.30	6.25	--	--
OU3MW-09I	--	--	--[1]	--[1]	7.60	6.90	7.26	7.06	7.45	7.67	7.61	7.44	6.76	--	--
OU3MW-09I2	--	--	--	--	--	--	6.41	6.23	6.36	6.53	6.32	6.27	5.53	--	--
OU3MW-10S	--	7.51	--	5.66	7.00	7.57	6.72	6.57	7.28	7.17	7.16	6.87	6.24	--	--
OU3MW-10I	--	6.40	--	5.68	4.80	6.03	5.99	5.80	6.04	6.31	6.57	6.29	5.85	--	--
OU3MW-11S	--	7.08	--	5.31	7.10	6.34	6.02	5.91	6.42	--	6.25	--	5.59	--	--
OU3MW-11I	--	6.59	--	5.59	5.75	5.66	5.76	5.55	6.00	--	6.09	--	5.65	--	--
OU3MW-12S	--	5.58	--	5.39	6.10	--	--	6.60	--	6.83	--	--	5.98	--	--
OU3MW-12I	--	5.37	--	5.51	4.28	--	--	6.00	--	--	--	5.88	5.45	--	--

Appendix D - Table D-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	2011												2012		
	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-11	Feb-11	Mar-11
Temperature (degrees Celcius)															
IO-10	--	11.0	11.1	12.0	15.2	16.1	18.4	18.9	19.2	18.7	17.3	14.7	12.4	12.2	13.2
MW-11W	--	--	8.3	--	--	17.6	--	--	20.7	--	15.6	--	9.7	--	--
MW-30WR	7.3	--	--	--	--	16.2	--	--	20.1	18.5	--	--	10.5	--	--
MW-32WR	--	--	9.0	--	--	16.9	--	21.7	--	19.9	--	--	11.4	--	--
MW-34S	7.7	7.0	12.3	11.6	13.5	16.3	19.3	20.4	20.1	19.5	17.1	13.8	10.6	10.5	12.7
MW-34I	13.0	12.2	12.7	11.5	13.6	12.7	15.9	16.2	17.5	17.4	17.3	15.4	13.4	13.2	13.5
MW-34D	13.9	12.8	13.1	12.9	11.9	13.2	15.6	15.5	15.8	16.2	15.8	14.9	13.7	13.5	13.7
MW-46WR	--	7.0	10.1	13.7	17.5	20.4	23.9	25.0	22.5	21.4	16.9	13.3	10.2	10.8	14.0
MW-70/70S	9.1	7.8	13.0	11.5	17.5	16.6	19.5	22.5	20.8	19.4	17.1	13.1	10.2	10.8	12.3
MWBS-02S	12.9	--	--	11.9	--	--	--	--	17.8	16.5	--	--	13.6	--	--
MWBS-02I	--	--	10.4	9.7	--	--	--	--	17.9	17.2	--	--	12.5	--	--
MWBS-02D	--	--	12.7	--	--	13.4	--	--	16.8	14.8	--	--	13.9	--	--
OU3MW-01S	--	--	9.3	--	--	20.8	--	--	22.3	20.6	--	--	11.6	--	--
OU3MW-02S	--	--	9.2	--	13.0	18.4	21.8	22.0	19.5	18.4	--	--	9.6	--	--
OU3MW-02I	--	--	11.3	--	12.0	15.0	17.1	18.2	16.3	16.1	--	--	12.8	--	--
OU3MW-03S	--	--	9.1	--	13.7	18.6	20.1	21.6	14.3	20.0	16.0	13.1	11.2	--	--
OU3MW-03I	--	--	13.5	--	16.6	16.4	16.6	18.8	16.7	18.0	16.6	15.1	13.8	--	--
OU3MW-04S	--	--	9.4	--	12.3	17.7	19.7	21.4	19.7	18.8	15.6	13.6	11.7	10.0	--
OU3MW-04I	--	--	12.1	--	17.1	15.2	16.6	18.1	17.1	16.6	16.2	14.4	14.1	12.5	--
OU3MW-04D	--	--	13.6	--	14.9	16.3	16.7	17.2	15.1	15.6	15.6	14.4	13.3	13.9	--
OU3MW-04D2	--	--	--	--	--	--	--	--	--	--	--	--	--	13.8	--
OU3MW-04D3	--	--	--	--	--	--	--	--	--	--	--	--	--	13.5	--
OU3MW-05S	--	--	8.6	--	--	18.6	20.2	20.2	19.2	--	13.1	--	11.9	--	--
OU3MW-05I	--	--	10.9	--	--	15.4	16.4	16.0	16.4	--	13.9	--	14.5	--	--
OU3MW-06S	--	--	10.1	--	13.7	--	--	--	18.6	--	--	14.4	12.8	--	--
OU3MW-07S	8.1	7.5	8.8	11.7	14.1	17.1	20.2	21.0	19.1	19.8	14.9	13.9	10.4	9.8	11.5
OU3MW-07I	11.4	10.3	9.7	12.7	14.3	16.1	17.0	18.6	16.5	17.9	15.0	14.6	12.6	11.9	12.6
OU3MW-07I2	11.4	11.8	11.9	13.5	14.5	14.8	15.9	17.7	15.2	16.5	14.6	14.2	12.3	12.3	13.6
OU3MW-07I3	--	--	--	--	--	--	--	--	--	--	--	--	--	12.1	--
OU3MW-07I4	--	--	--	--	--	--	--	--	--	--	--	--	--	12.4	--
OU3MW-08S	--	6.7	--	9.9	16.2	16.2	18.5	18.2	21.8	18.4	16.0	14.6	12.1	--	--
OU3MW-08I	--	12.3	--	12.4	15.4	14.2	16.9	15.9	17.2	16.1	--	--	13.8	--	--
OU3MW-09S	--	--	8.3	10.6	17.3	21.1	23.9	24.5	23.3	21.2	12.6	11.8	6.9	--	--
OU3MW-09I	--	--	--[1]	--[1]	14.0	14.7	17.3	17.8	19.1	19.6	16.7	15.1	12.6	--	--
OU3MW-09I2	--	--	--	--	--	--	17.3	16.9	17.3	18.1	15.2	14.1	10.6	--	--
OU3MW-10S	--	8.2	--	11.8	16.6	18.2	21.1	22.0	23.6	19.3	13.5	10.6	10.7	--	--
OU3MW-10I	--	13.6	--	13.0	15.3	13.5	16.1	16.6	19.9	18.9	17.1	13.7	5.9	--	--
OU3MW-11S	--	7.3	--	15.0	14.2	16.7	18.5	19.2	21.1	--	15.8	--	13.4	--	--
OU3MW-11I	--	13.4	--	13.7	14.2	13.9	16.0	15.9	16.8	--	16.7	--	15.6	--	--
OU3MW-12S	--	9.4	--	10.1	14.2	--	--	22.2	--	20.6	--	--	12.6	--	--
OU3MW-12I	--	12.7	--	12.4	14.3	--	--	18.0	--	--	--	14.9	13.8	--	--

Appendix D - Table D-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Baseline Average	Historical Average	Current Average
Conductivity (mS/cm)			
IO-10	**0.421**	**0.462**	**0.445**
MW-11W	**0.334**	**0.377**	**0.227**
MW-30WR	**1.255**	**0.866**	**0.918**
MW-32WR	**1.338**	**1.057**	**0.777**
MW-34S	**0.640**	**0.623**	**0.467**
MW-34I	**0.418**	**0.443**	**0.405**
MW-34D	**0.294**	**0.373**	**0.306**
MW-46WR	**0.792**	**0.765**	**0.469**
MW-70/70S	**0.486**	**0.469**	**0.378**
MWBS-02S	**0.469**	**0.391**	**0.486**
MWBS-02I	**1.087**	**0.320**	**0.370**
MWBS-02D	**0.454**	**0.334**	**0.371**
OU3MW-01S	**1.510**	**1.181**	**0.582**
OU3MW-02S	**0.646**	**0.571**	**0.343**
OU3MW-02I	**0.220**	**0.273**	**0.199**
OU3MW-03S	**0.712**	**0.669**	**0.714**
OU3MW-03I	**0.426**	**0.410**	**0.517**
OU3MW-04S	**0.684**	**0.735**	**0.797**
OU3MW-04I	**0.389**	**0.533**	**0.431**
OU3MW-04D	**0.351**	**0.372**	**0.367**
OU3MW-04D2	**NS**	**NS**	**0.366**
OU3MW-04D3	**NS**	**NS**	**0.346**
OU3MW-05S	**0.633**	**0.633**	**0.562**
OU3MW-05I	**0.420**	**0.475**	**0.346**
OU3MW-06S	**0.489**	**0.467**	**0.610**
OU3MW-07S	**0.235**	**0.392**	**0.383**
OU3MW-07I	**0.355**	**0.312**	**0.441**
OU3MW-07I2	**0.275**	**0.335**	**0.439**
OU3MW-07I3	**NS**	**NS**	**0.439**
OU3MW-07I4	**NS**	**NS**	**0.352**
OU3MW-08S	**NS**	**0.501**	**0.597**
OU3MW-08I	**NS**	**0.494**	**0.245**
OU3MW-09S	**NS**	**0.588**	**0.640**
OU3MW-09I	**NS**	**7.804**	**0.660**
OU3MW-09I2	**NS**	**0.342**	**0.393**
OU3MW-10S	**NS**	**0.435**	**0.527**
OU3MW-10I	**NS**	**0.339**	**0.490**
OU3MW-11S	**NS**	**0.718**	**0.606**
OU3MW-11I	**NS**	**0.366**	**0.360**
OU3MW-12S	**NS**	**0.285**	**0.332**
OU3MW-12I	**NS**	**0.398**	**0.362**

Appendix D - Table D-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Baseline Average	Historical Average	Current Average
Dissolved Oxygen (mg/L)			
IO-10	**19.9**	**3.1**	**0.0**
MW-11W	**0.4**	**0.6**	**1.8**
MW-30WR	**0.5**	**0.4**	**4.8**
MW-32WR	**0.4**	**1.2**	**2.0**
MW-34S	**0.2**	**0.4**	**0.0**
MW-34I	**0.8**	**1.7**	**0.0**
MW-34D	**0.3**	**0.2**	**0.0**
MW-46WR	**8.7**	**0.8**	**0.0**
MW-70/70S	**21.1**	**1.9**	**0.0**
MWBS-02S	**0.2**	**0.7**	**1.5**
MWBS-02I	**0.3**	**0.7**	**1.9**
MWBS-02D	**0.3**	**0.3**	**2.1**
OU3MW-01S	**0.0**	**0.5**	**4.0**
OU3MW-02S	**22.0**	**24.6**	**23.0**
OU3MW-02I	**0.0**	**28.4**	**30.0**
OU3MW-03S	**0.3**	**1.1**	**0.0**
OU3MW-03I	**0.0**	**2.5**	**2.4**
OU3MW-04S	**0.0**	**1.7**	**1.3**
OU3MW-04I	**4.0**	**5.6**	**18.3**
OU3MW-04D	**0.0**	**0.9**	**1.2**
OU3MW-04D2	**NS**	**NS**	**0.0**
OU3MW-04D3	**NS**	**NS**	**0.0**
OU3MW-05S	**15.8**	**2.9**	**0.1**
OU3MW-05I	**9.9**	**8.3**	**20.0**
OU3MW-06S	**0.0**	**0.4**	**5.0**
OU3MW-07S	**3.0**	**3.0**	**17.0**
OU3MW-07I	**3.2**	**19.8**	**25.7**
OU3MW-07I2	**3.3**	**3.8**	**4.7**
OU3MW-07I3	**NS**	**NS**	**0.0**
OU3MW-07I4	**NS**	**NS**	**0.0**
OU3MW-08S	**NS**	**0.9**	**2.2**
OU3MW-08I	**NS**	**0.6**	**2.5**
OU3MW-09S	**NS**	**0.9**	**3.4**
OU3MW-09I	**NS**	**1.1**	**2.0**
OU3MW-09I2	**NS**	**0.9**	**1.6**
OU3MW-10S	**NS**	**1.0**	**2.8**
OU3MW-10I	**NS**	**0.8**	**2.1**
OU3MW-11S	**NS**	**1.4**	**2.2**
OU3MW-11I	**NS**	**0.6**	**2.0**
OU3MW-12S	**NS**	**0.9**	**2.0**
OU3MW-12I	**NS**	**0.9**	**1.9**

Appendix D - Table D-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Baseline Average	Historical Average	Current Average
Oxidation Reduction Potential (mV)			
IO-10	**44**	**-13**	**-104**
MW-11W	**-39**	**-30**	**59**
MW-30WR	**-114**	**-65**	**6**
MW-32WR	**-126**	**-96**	**-30**
MW-34S	**-117**	**-62**	**-73**
MW-34I	**-81**	**33**	**-83**
MW-34D	**85**	**80**	**11**
MW-46WR	**-65**	**-119**	**-120**
MW-70/70S	**-6**	**-90**	**-104**
MWBS-02S	**-91**	**-66**	**-46**
MWBS-02I	**-41**	**-33**	**28**
MWBS-02D	**-81**	**31**	**86**
OU3MW-01S	**-133**	**-87**	**-67**
OU3MW-02S	**240**	**163**	**209**
OU3MW-02I	**133**	**195**	**348**
OU3MW-03S	**-32**	**-66**	**-99**
OU3MW-03I	**-31**	**-69**	**-57**
OU3MW-04S	**-105**	**-32**	**-3**
OU3MW-04I	**-38**	**7**	**101**
OU3MW-04D	**146**	**99**	**93**
OU3MW-04D2	**NS**	**NS**	**28**
OU3MW-04D3	**NS**	**NS**	**2**
OU3MW-05S	**100**	**94**	**106**
OU3MW-05I	**113**	**116**	**164**
OU3MW-06S	**-26**	**5**	**26**
OU3MW-07S	**-139**	**-9**	**106**
OU3MW-07I	**-56**	**105**	**217**
OU3MW-07I2	**18**	**59**	**-34**
OU3MW-07I3	**NS**	**NS**	**-47**
OU3MW-07I4	**NS**	**NS**	**-22**
OU3MW-08S	**NS**	**-81**	**-25**
OU3MW-08I	**NS**	**131**	**124**
OU3MW-09S	**NS**	**-137**	**-60**
OU3MW-09I	**NS**	**-184**	**-204**
OU3MW-09I2	**NS**	**-4**	**63**
OU3MW-10S	**NS**	**-76**	**-59**
OU3MW-10I	**NS**	**59**	**25**
OU3MW-11S	**NS**	**14**	**-1**
OU3MW-11I	**NS**	**125**	**110**
OU3MW-12S	**NS**	**-3**	**-67**
OU3MW-12I	**NS**	**96**	**139**

Appendix D - Table D-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Baseline Average	Historical Average	Current Average
pH (SU)			
IO-10	**6.27**	**6.54**	**6.88**
MW-11W	**5.95**	**6.12**	**6.35**
MW-30WR	**6.20**	**6.06**	**5.53**
MW-32WR	**6.48**	**6.28**	**5.80**
MW-34S	**6.24**	**6.28**	**6.52**
MW-34I	**6.34**	**6.34**	**6.81**
MW-34D	**5.98**	**5.92**	**5.96**
MW-46WR	**6.03**	**6.16**	**6.46**
MW-70/70S	**6.07**	**6.30**	**6.57**
MWBS-02S	**6.05**	**6.40**	**5.88**
MWBS-02I	**5.93**	**6.24**	**5.14**
MWBS-02D	**6.29**	**5.63**	**5.27**
OU3MW-01S	**8.21**	**6.97**	**5.97**
OU3MW-02S	**5.80**	**5.69**	**5.96**
OU3MW-02I	**5.90**	**5.53**	**5.09**
OU3MW-03S	**6.34**	**6.37**	**6.36**
OU3MW-03I	**7.53**	**5.92**	**5.57**
OU3MW-04S	**7.31**	**6.19**	**5.92**
OU3MW-04I	**6.57**	**5.71**	**5.68**
OU3MW-04D	**5.92**	**5.69**	**5.67**
OU3MW-04D2	**NS**	**NS**	**6.29**
OU3MW-04D3	**NS**	**NS**	**6.35**
OU3MW-05S	**6.51**	**6.12**	**6.31**
OU3MW-05I	**5.58**	**5.40**	**5.81**
OU3MW-06S	**6.68**	**6.32**	**5.54**
OU3MW-07S	**5.60**	**5.50**	**5.58**
OU3MW-07I	**6.26**	**6.08**	**6.11**
OU3MW-07I2	**5.86**	**6.18**	**6.73**
OU3MW-07I3	**NS**	**NS**	**6.92**
OU3MW-07I4	**NS**	**NS**	**6.39**
OU3MW-08S	**NS**	**6.23**	**5.52**
OU3MW-08I	**NS**	**5.33**	**5.25**
OU3MW-09S	**NS**	**7.37**	**6.25**
OU3MW-09I	**NS**	**7.20**	**6.76**
OU3MW-09I2	**NS**	**6.35**	**5.53**
OU3MW-10S	**NS**	**6.87**	**6.24**
OU3MW-10I	**NS**	**5.93**	**5.85**
OU3MW-11S	**NS**	**6.21**	**5.59**
OU3MW-11I	**NS**	**5.88**	**5.65**
OU3MW-12S	**NS**	**5.83**	**5.98**
OU3MW-12I	**NS**	**4.83**	**5.45**

Appendix D - Table D-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection Systems
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Baseline Average	Historical Average	Current Average
Temperature (degrees Celcius)			
IO-10	**15.0**	**16.3**	**12.6**
MW-11W	**14.7**	**14.5**	**9.7**
MW-30WR	**13.8**	**15.8**	**10.5**
MW-32WR	**14.9**	**16.8**	**11.4**
MW-34S	**14.2**	**16.0**	**11.3**
MW-34I	**14.4**	**15.3**	**13.4**
MW-34D	**14.4**	**14.8**	**13.6**
MW-46WR	**15.5**	**18.4**	**11.7**
MW-70/70S	**14.1**	**16.7**	**11.1**
MWBS-02S	**13.2**	**15.0**	**13.6**
MWBS-02I	**13.2**	**14.0**	**12.5**
MWBS-02D	**13.5**	**14.6**	**13.9**
OU3MW-01S	**15.1**	**17.5**	**11.6**
OU3MW-02S	**13.9**	**16.1**	**9.6**
OU3MW-02I	**13.9**	**14.9**	**12.8**
OU3MW-03S	**13.6**	**16.0**	**11.2**
OU3MW-03I	**11.8**	**16.1**	**13.8**
OU3MW-04S	**13.2**	**16.3**	**10.8**
OU3MW-04I	**13.8**	**15.7**	**13.3**
OU3MW-04D	**9.9**	**15.4**	**13.6**
OU3MW-04D2	**NS**	**NS**	**13.8**
OU3MW-04D3	**NS**	**NS**	**13.5**
OU3MW-05S	**14.4**	**16.3**	**11.9**
OU3MW-05I	**14.9**	**15.1**	**14.5**
OU3MW-06S	**13.4**	**14.6**	**12.8**
OU3MW-07S	**9.7**	**15.6**	**10.6**
OU3MW-07I	**11.1**	**15.2**	**12.4**
OU3MW-07I2	**12.0**	**15.1**	**12.7**
OU3MW-07I3	**NS**	**NS**	**12.1**
OU3MW-07I4	**NS**	**NS**	**12.4**
OU3MW-08S	**NS**	**15.7**	**12.1**
OU3MW-08I	**NS**	**15.0**	**13.8**
OU3MW-09S	**NS**	**17.5**	**6.9**
OU3MW-09I	**NS**	**16.8**	**12.6**
OU3MW-09I2	**NS**	**16.5**	**10.6**
OU3MW-10S	**NS**	**16.5**	**10.7**
OU3MW-10I	**NS**	**15.8**	**5.9**
OU3MW-11S	**NS**	**16.0**	**13.4**
OU3MW-11I	**NS**	**15.1**	**15.6**
OU3MW-12S	**NS**	**15.3**	**12.6**
OU3MW-12I	**NS**	**14.5**	**13.8**

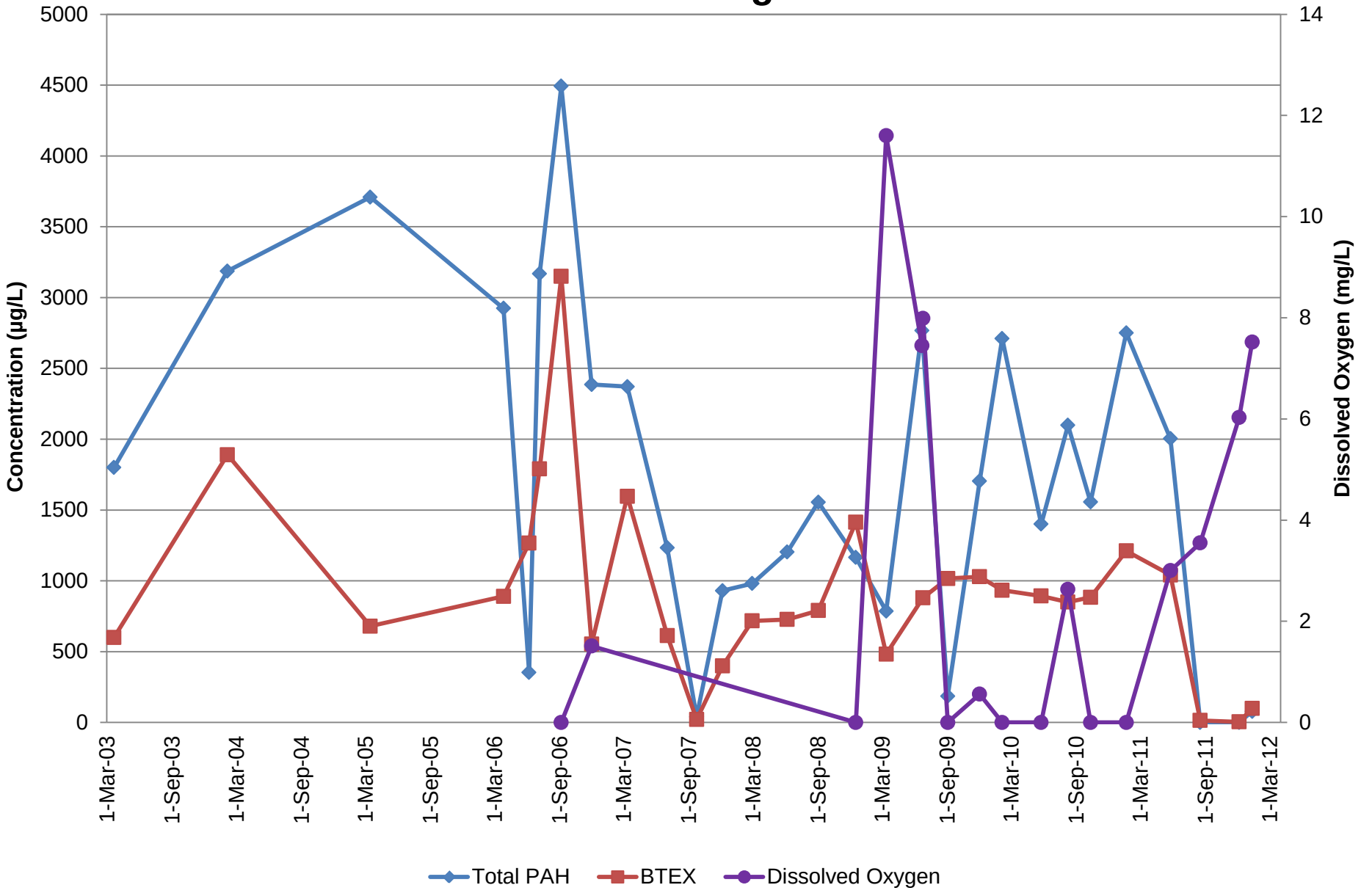
Note:
For wells IO-10 through MWBS-02D the baseline average does not reflect data from before a system was turned on, but data from when the OU-3 Union Boulevard System was in operation.

Appendix D - Notes
Summary of Groundwater Parameter Data
Bay Shore /Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

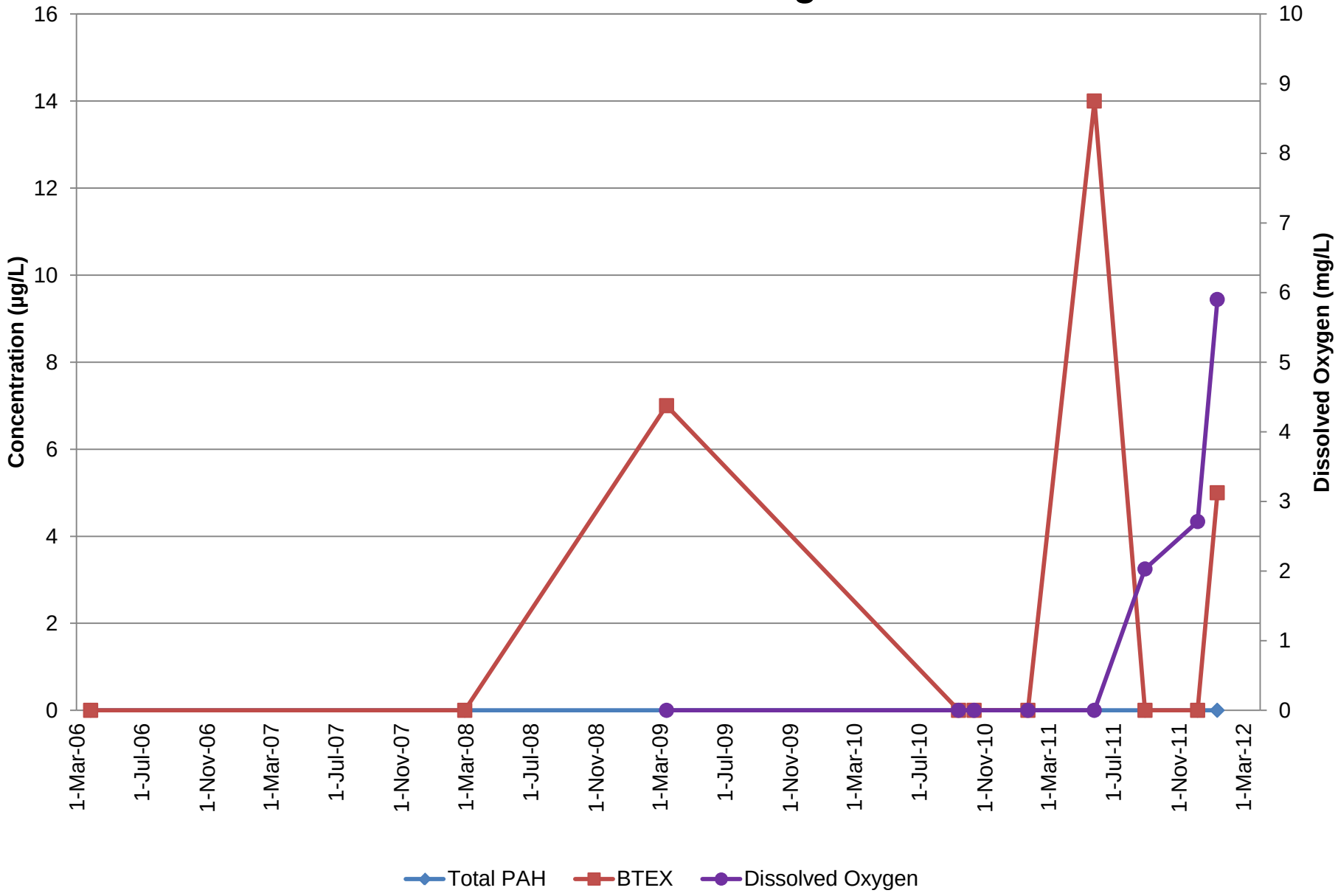
Notes:

Baseline Average - average of all parameter data measured before system start up.
Historical Average - average of all parameter data measured after system start up but not including the current quarter.
Current Average - average of all parameter data measured in the current quarter.
1 - Well was sampled without taking parameters due to possible impacts.
ER - Value not accurate due to sensor error.
mS/cm - milli-Siemens per centimeter
mg/L - milligrams/Liter
mV - milli-volt
SU - standard unit
-- Not Measured
NS - Not Sampled
Beginning in July 2009, all parameter values were taken from latest date sampled
Parameter data prior to January 2009 can be found in previous Quarterly OM&M reports. Historical averages have been updated in this table and include all data prior to 2009.

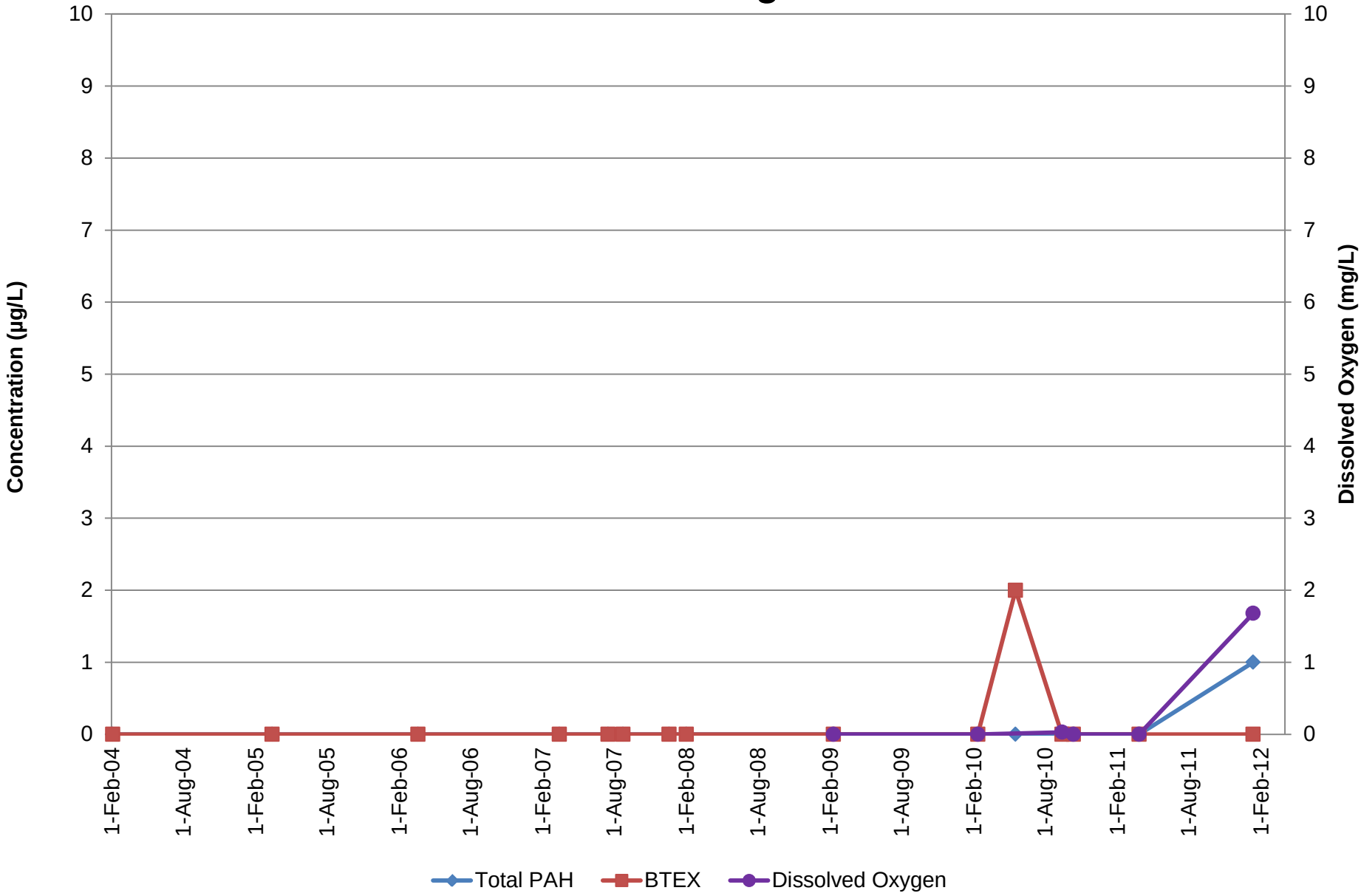
Monitoring Well BBMW-05D
64-74 ft bgs



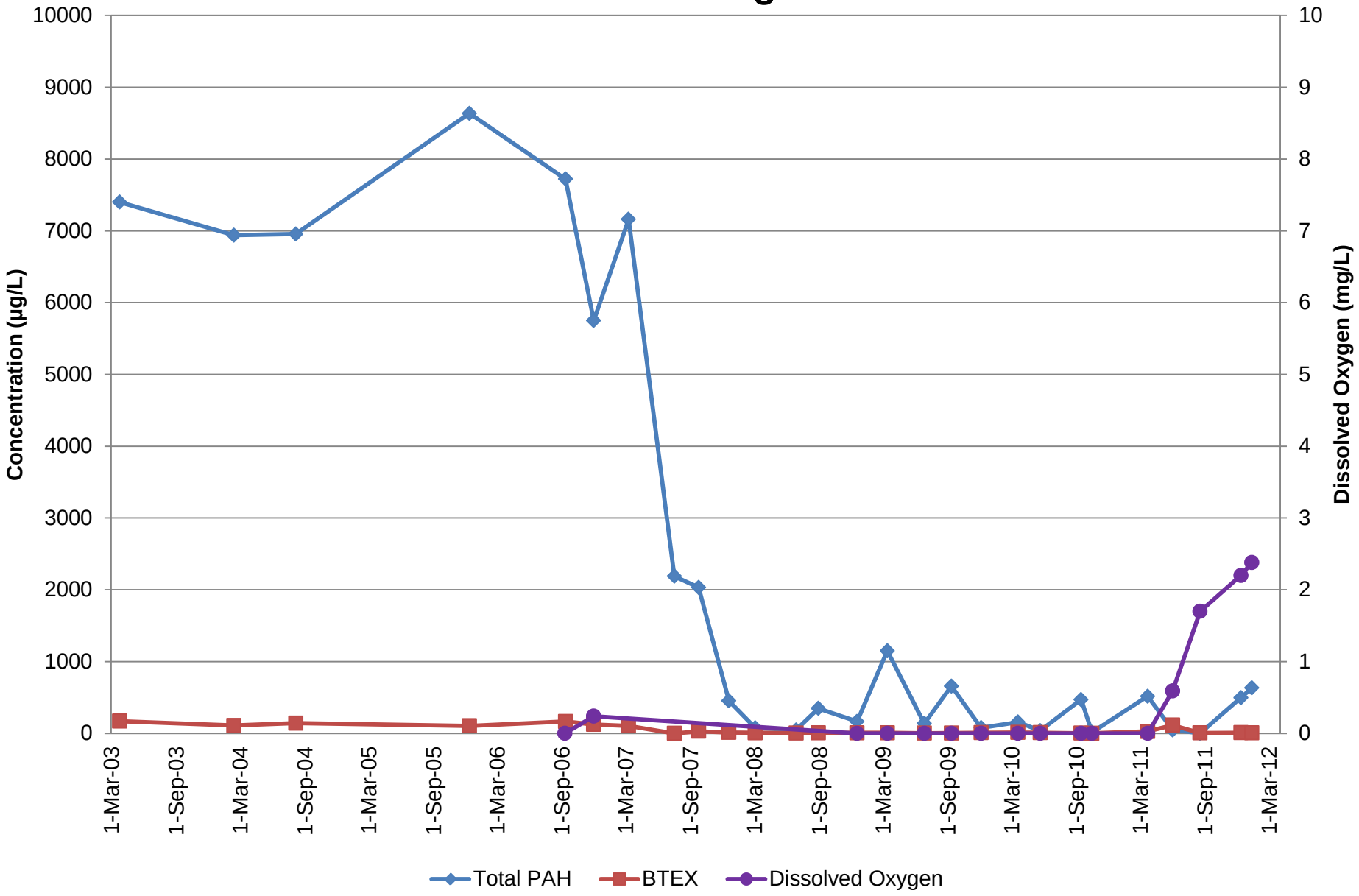
Monitoring Well BBMW-05D2/D2R
126.5-136.57 ft bgs



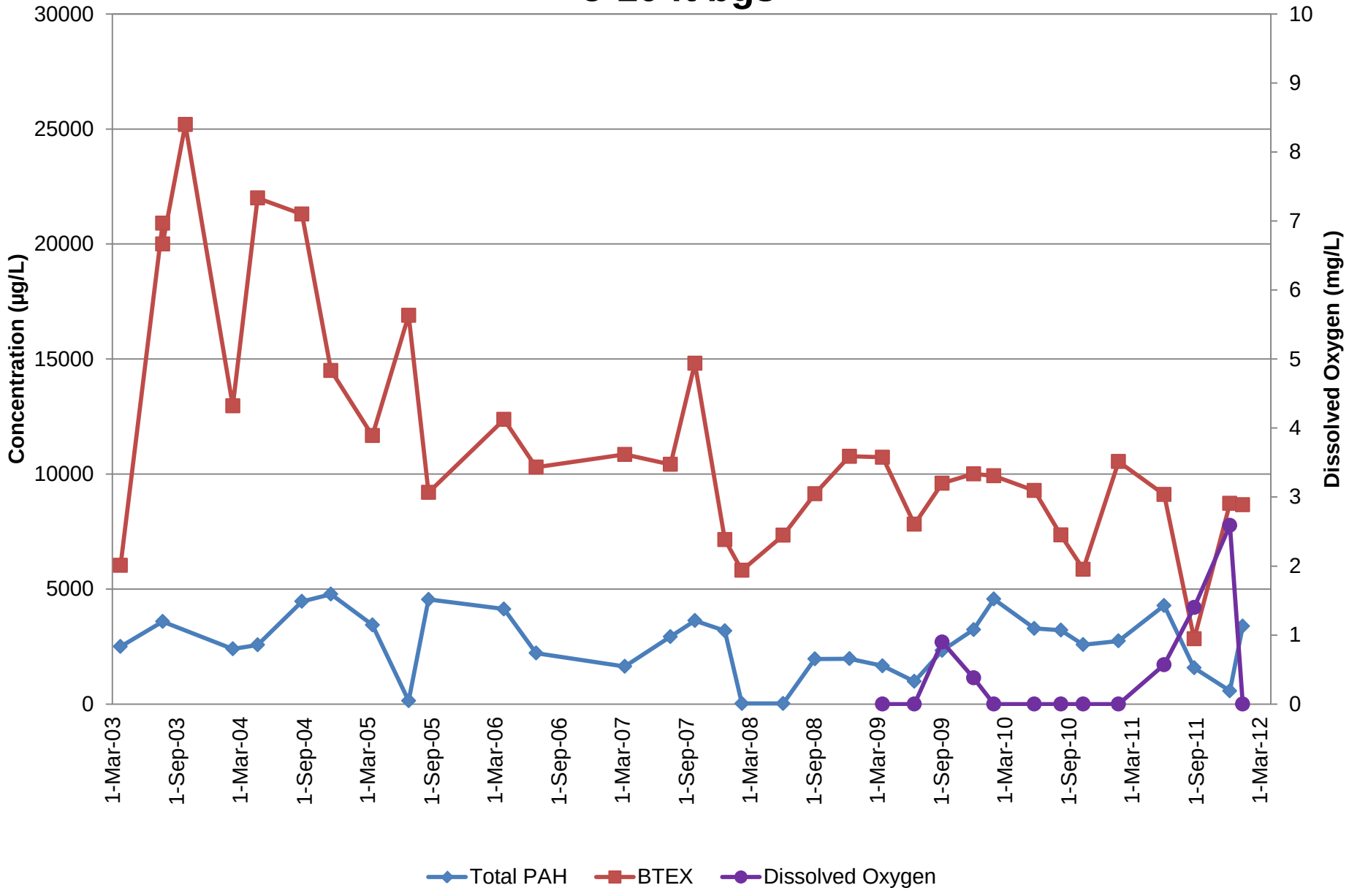
Monitoring Well BBMW-13D
62-72 ft bgs



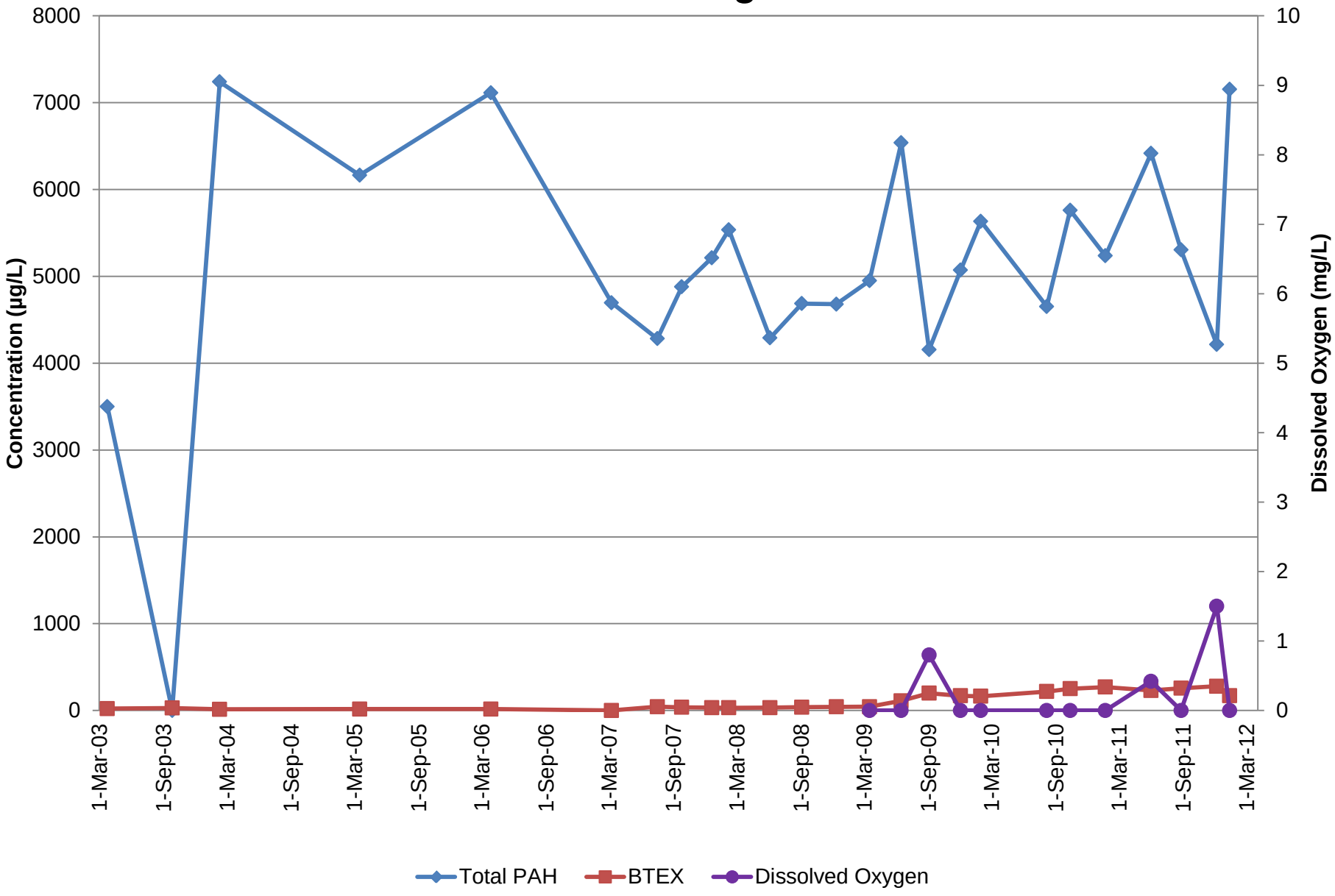
Monitoring Well BBMW-20I
35-45 ft bgs



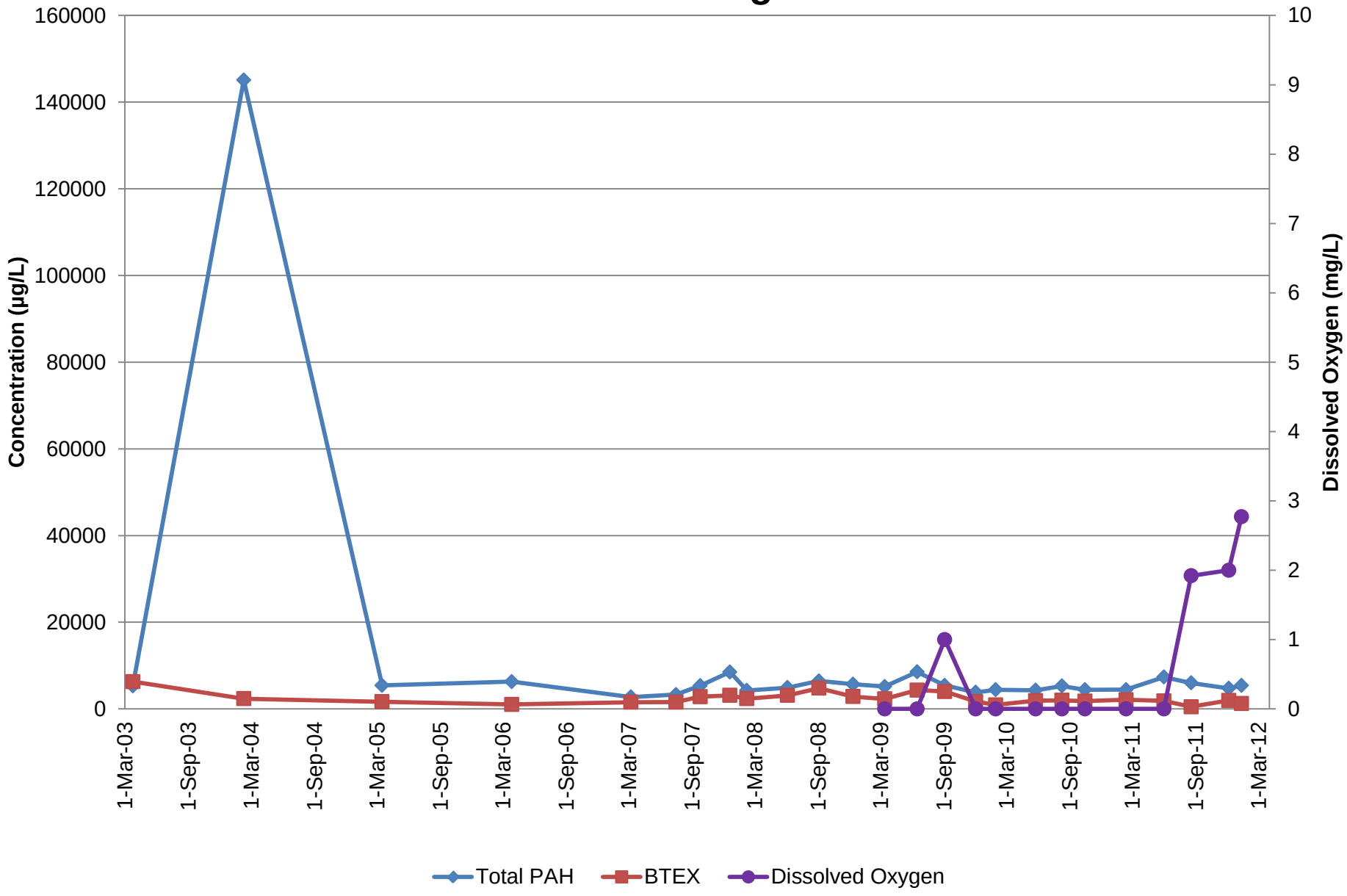
Monitoring Well BBMW-22S
5-10 ft bgs



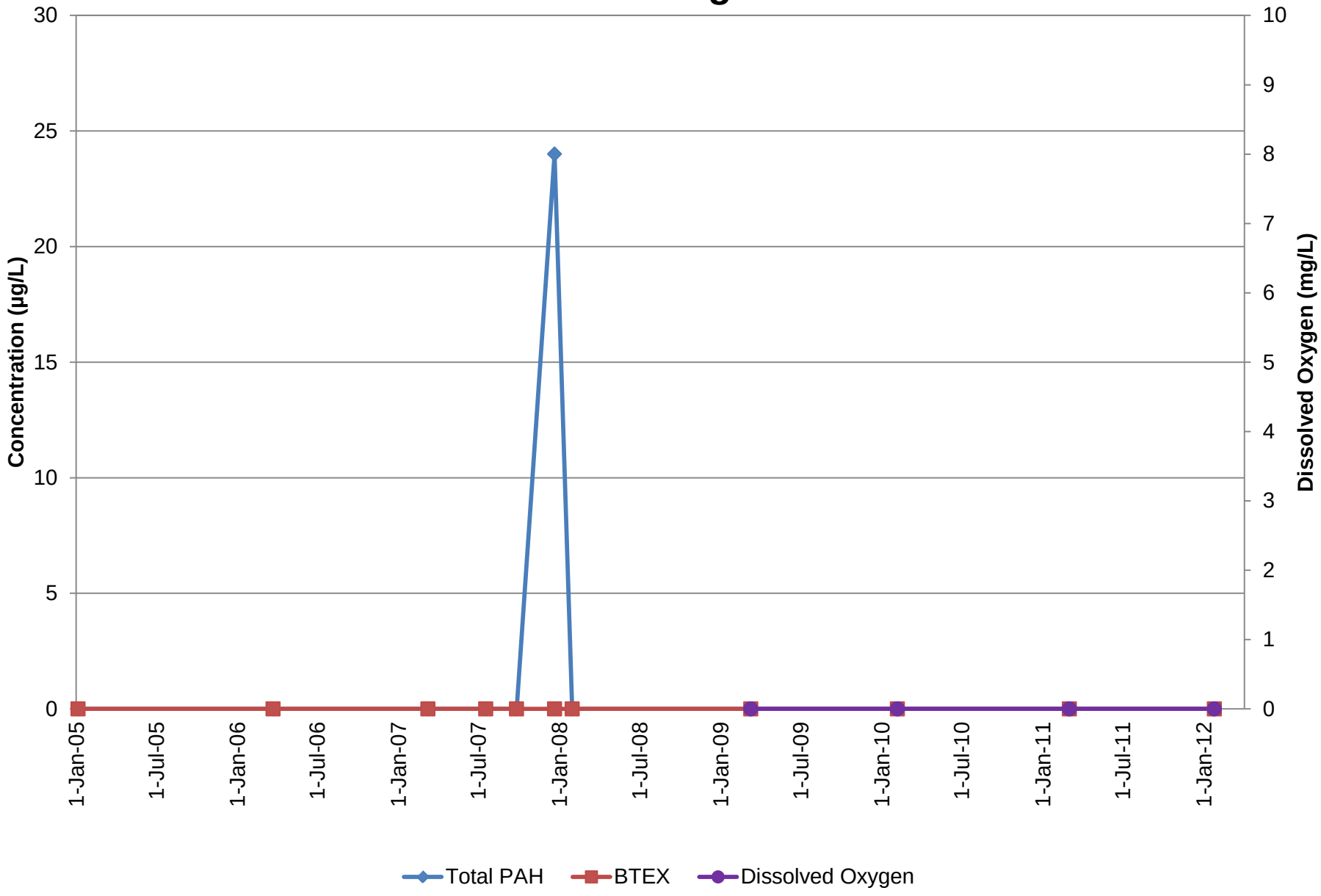
Monitoring Well BBMW-22I
20-30 ft bgs

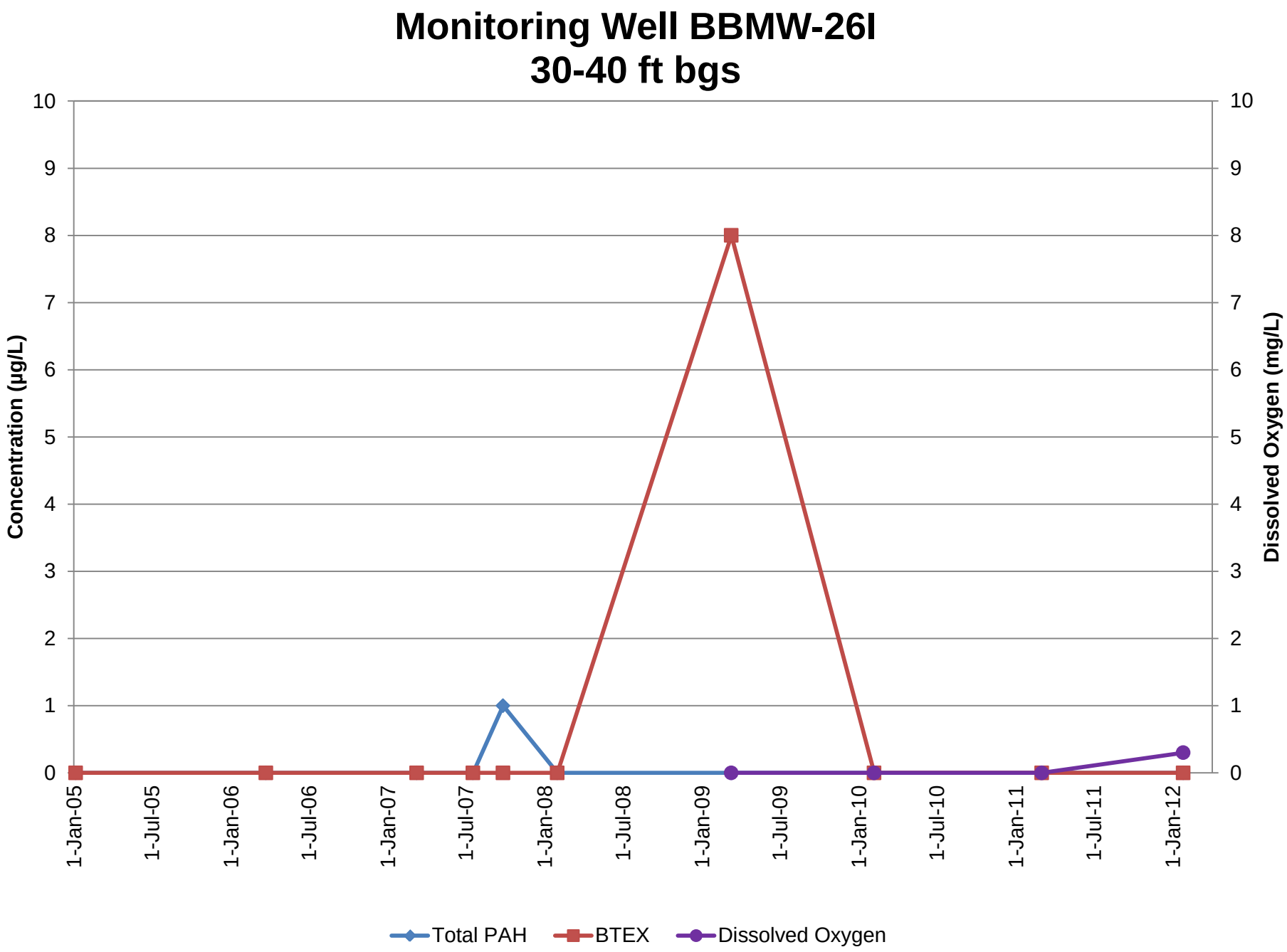


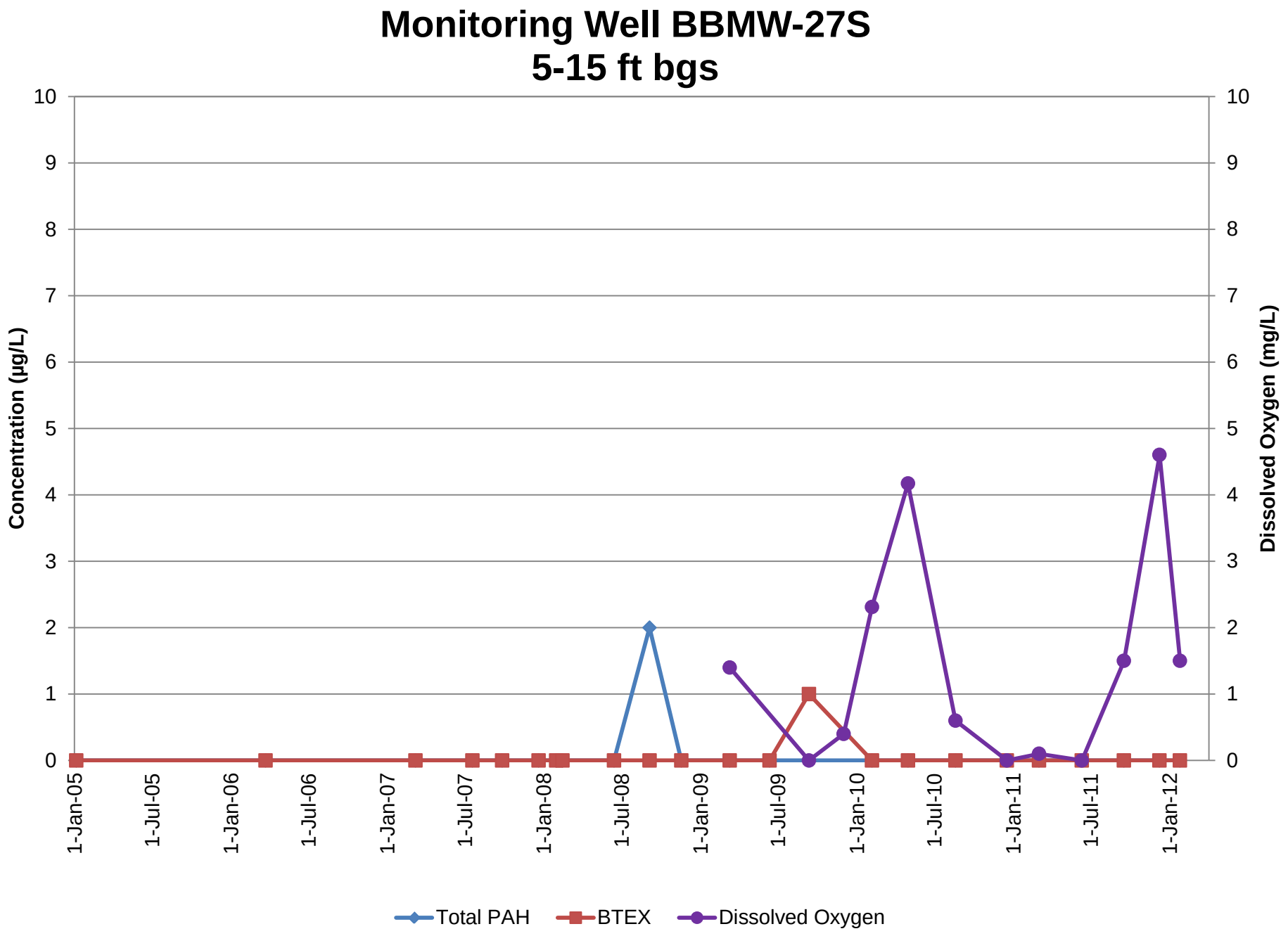
Monitoring Well BBMW-22D
64-74 ft bgs



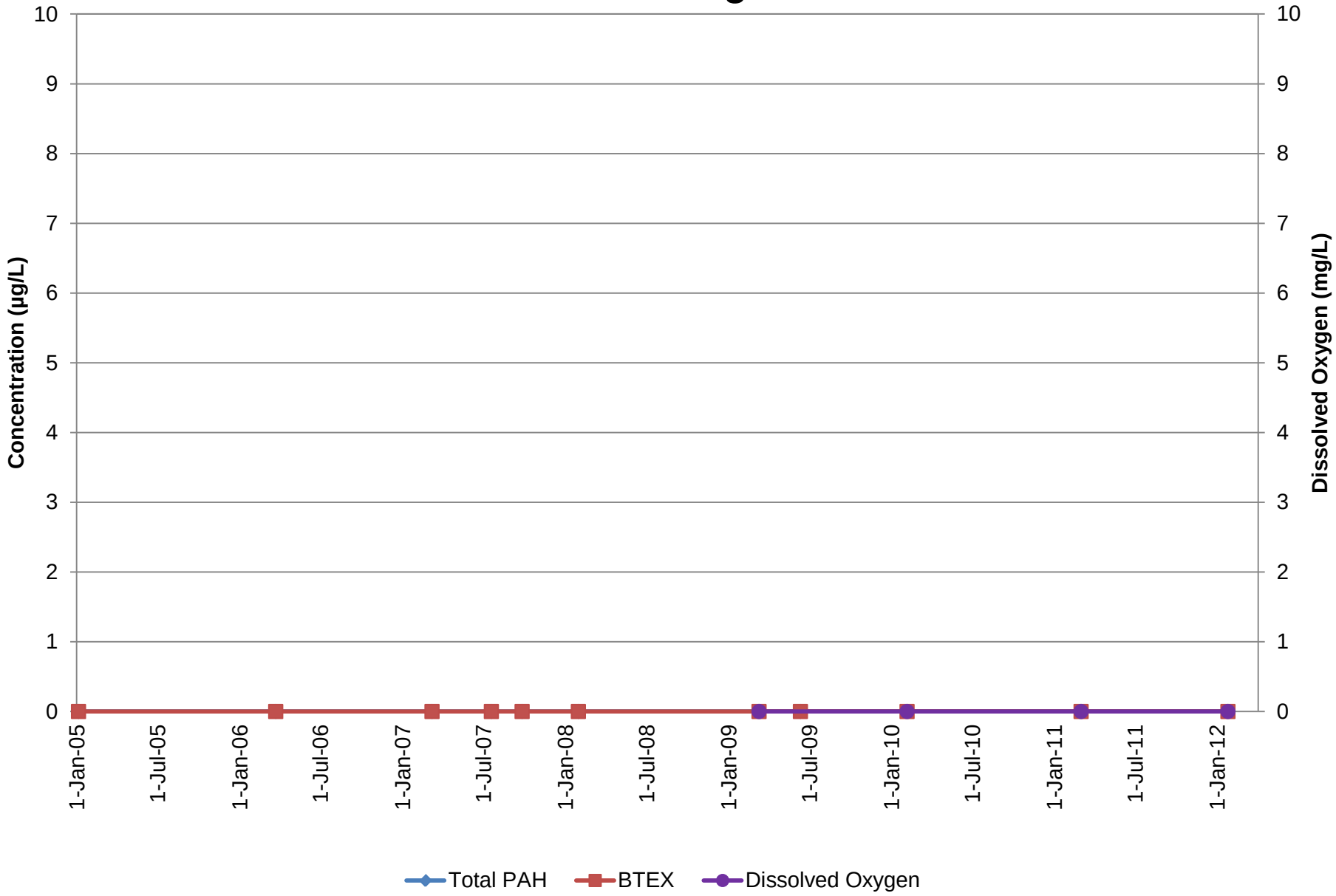
Monitoring Well BBMW-26S
6-16 ft bgs



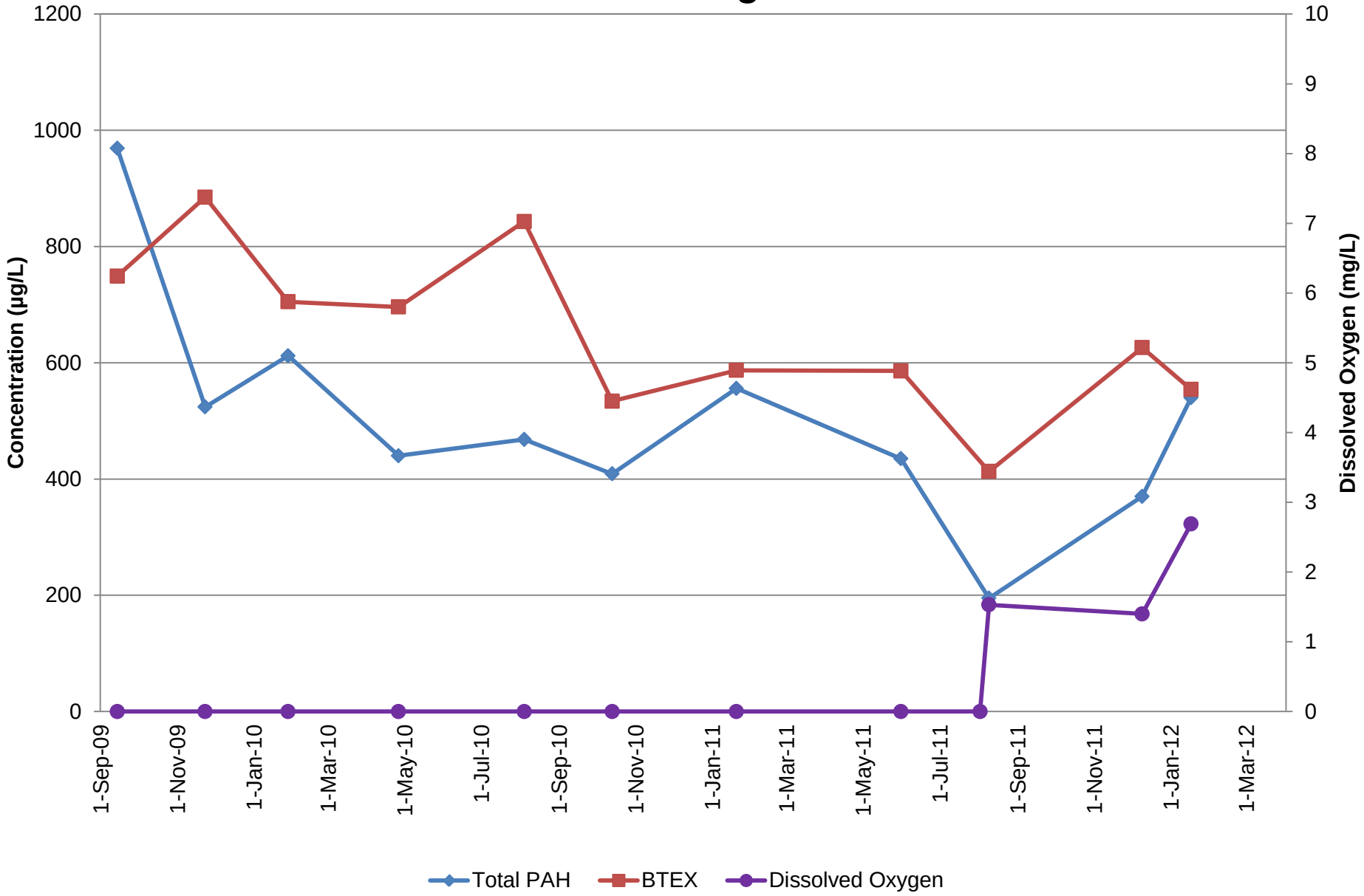

Monitoring Well BBMW-26I
30-40 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Jan-05
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Dissolved Oxygen


Monitoring Well BBMW-27S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
1-Jan-05
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Dissolved Oxygen

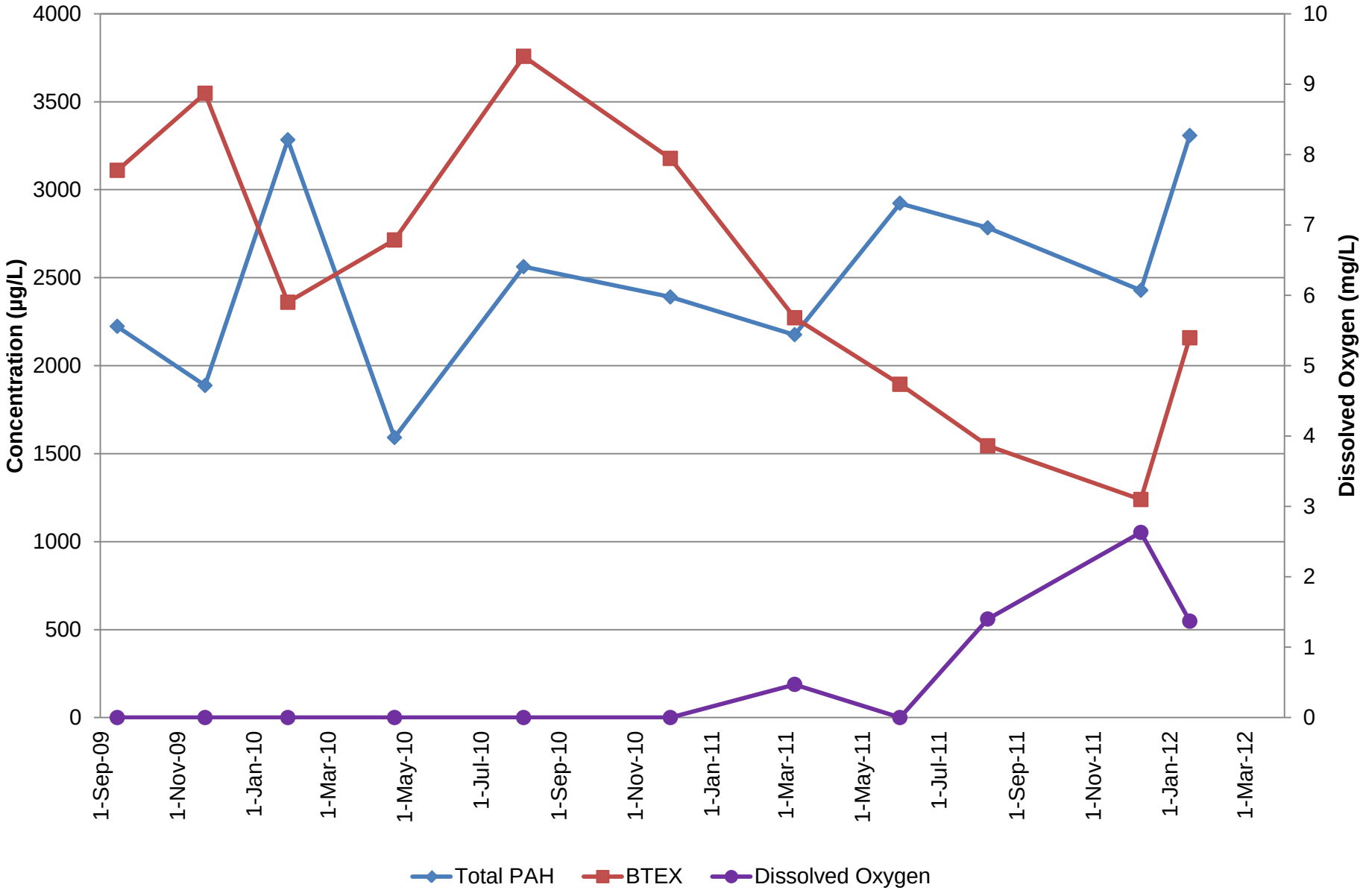
Monitoring Well BBMW-27I
30-40 ft bgs



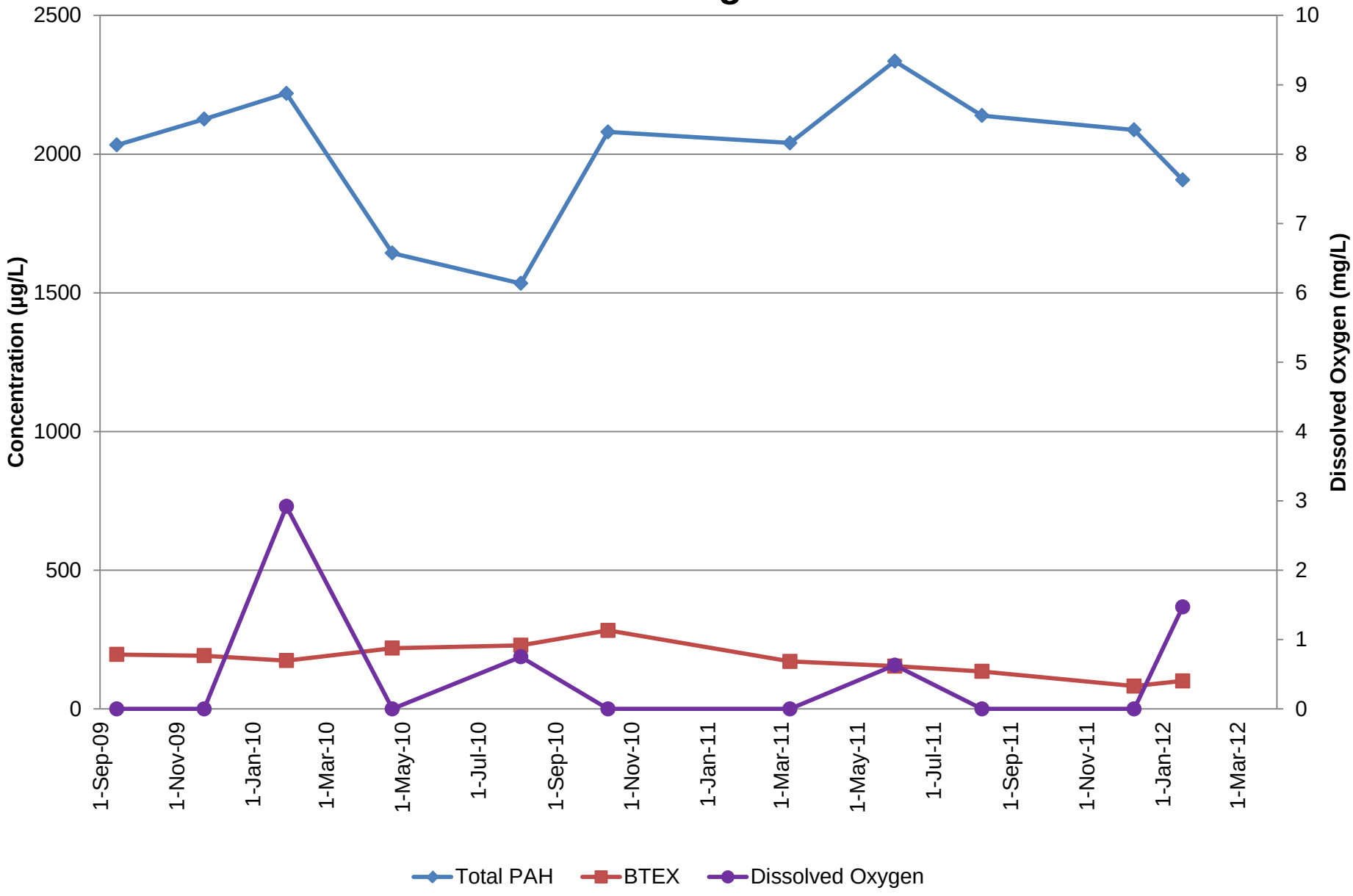
Monitoring Well BBMW-34S
5-15 ft bgs



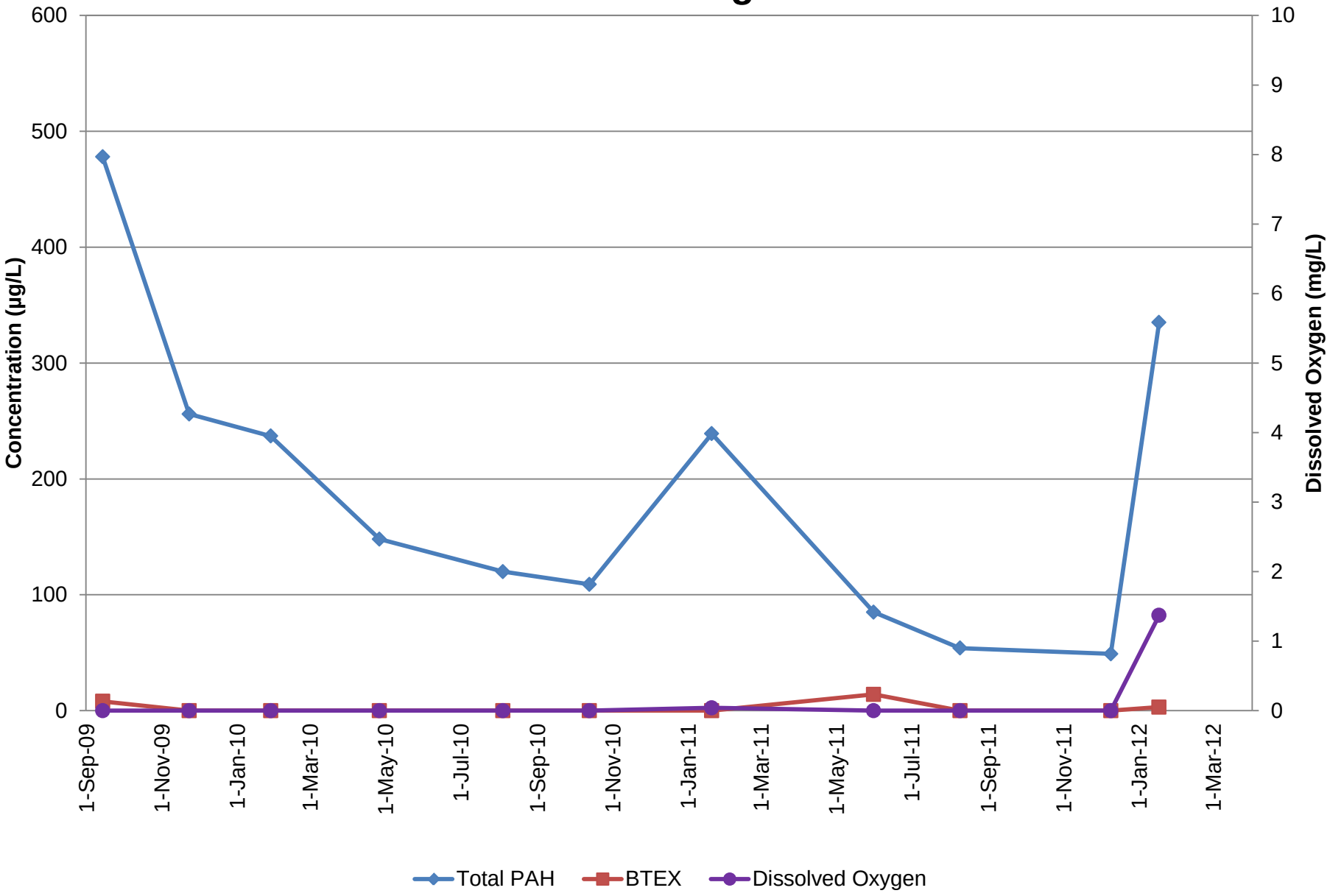
Monitoring Well BBMW-34I
25-30 ft bgs



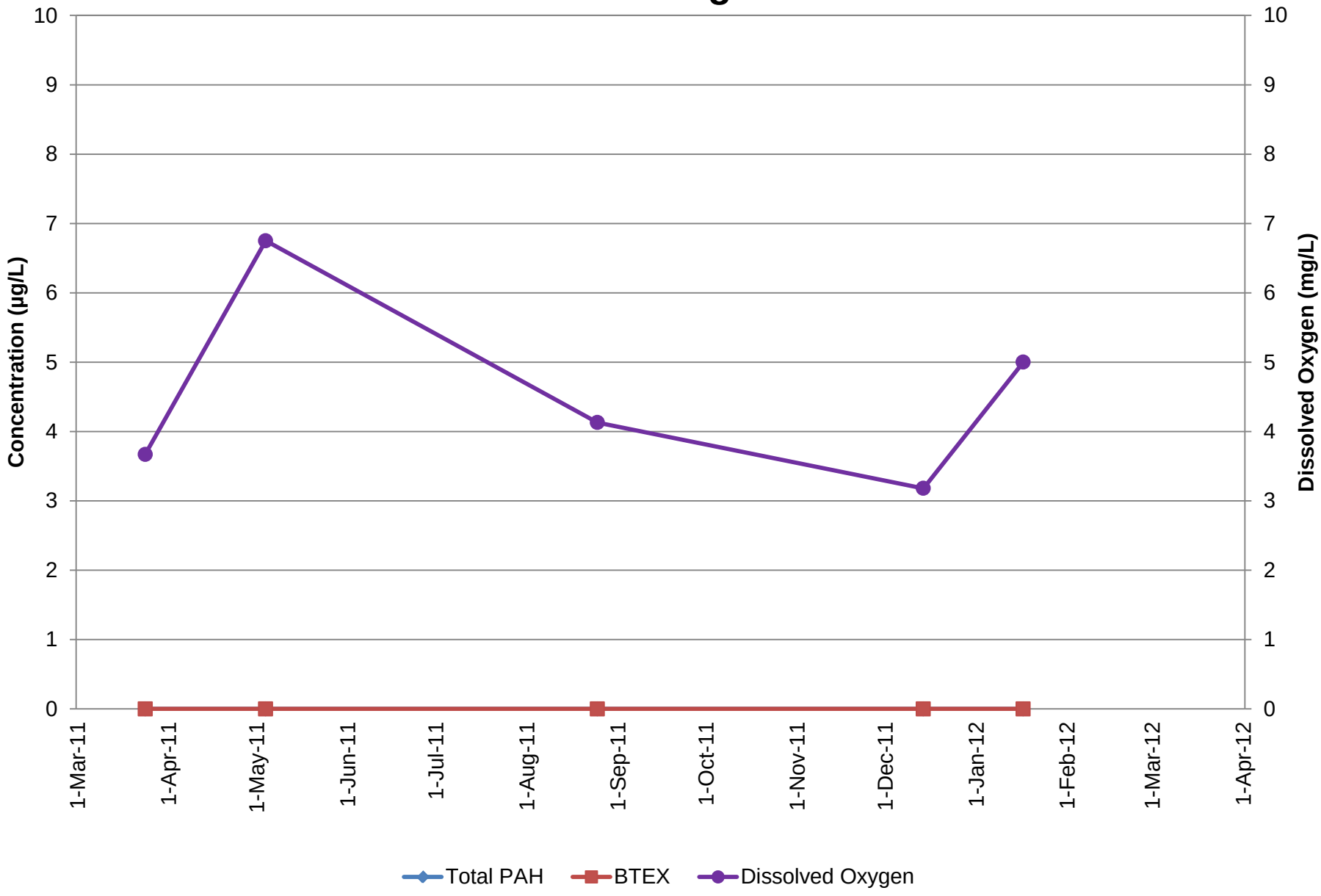
Monitoring Well BBMW-34I2
40-45 ft bgs

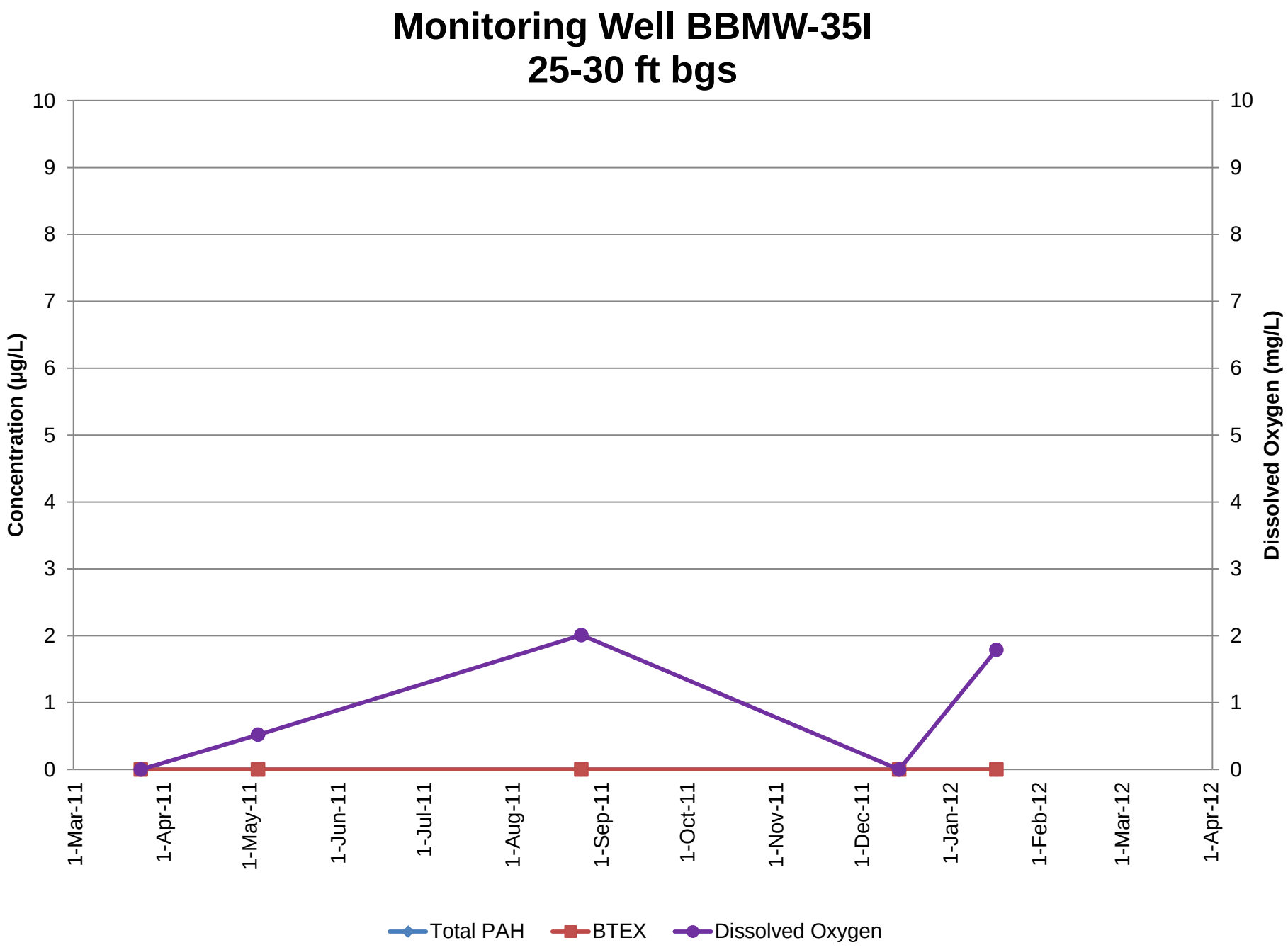


Monitoring Well BBMW-34D
65-70 ft bgs

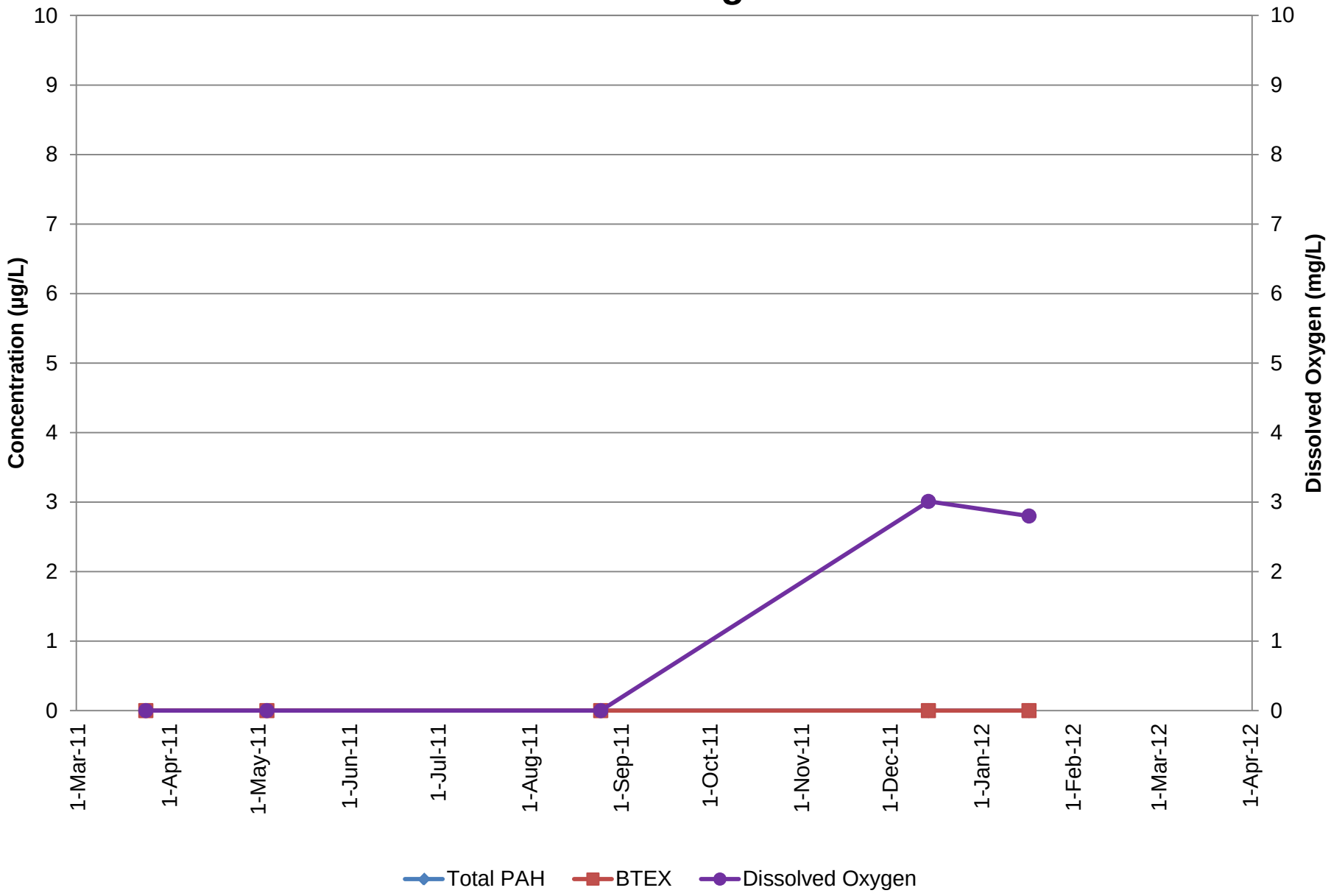


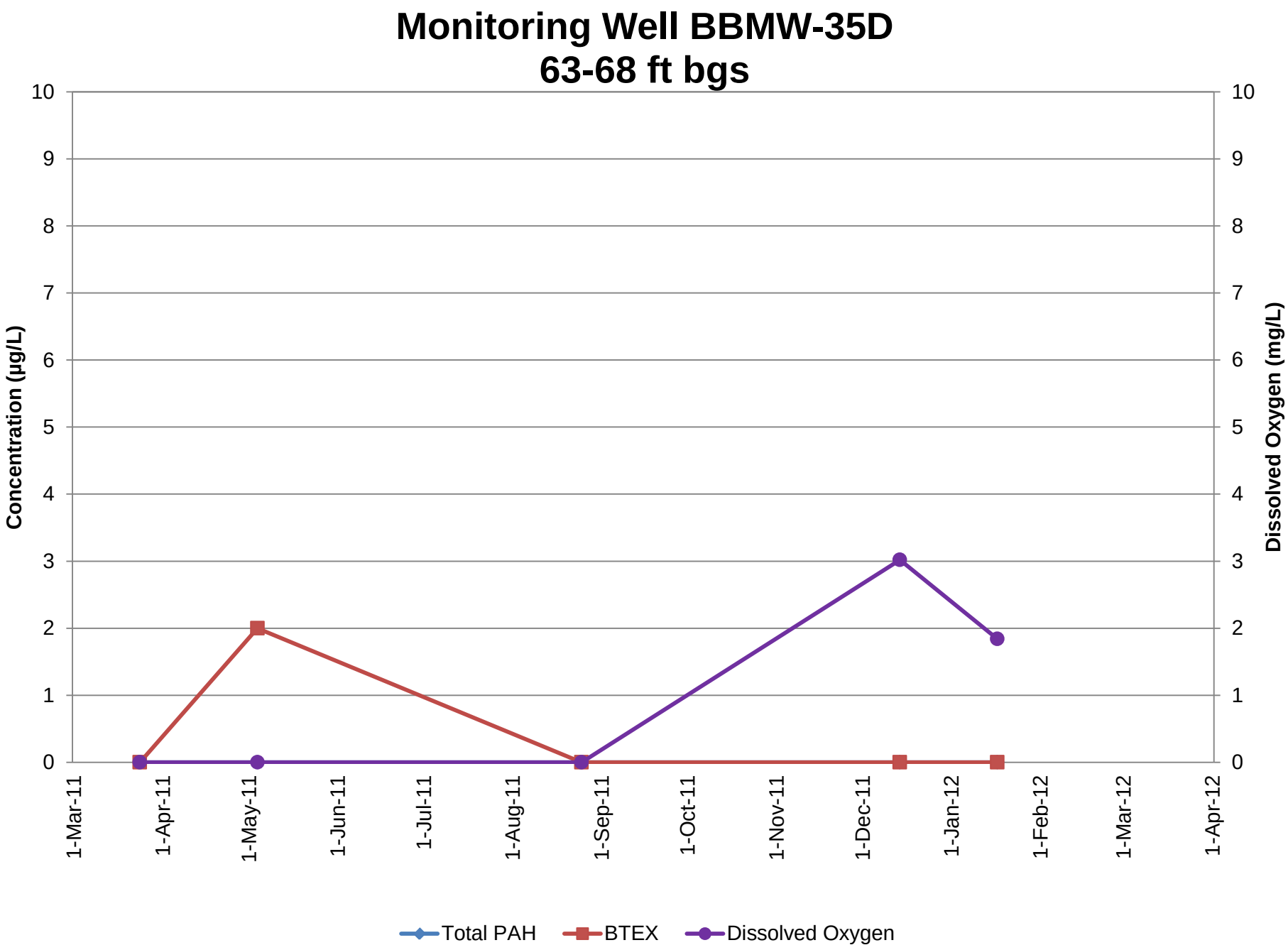
Monitoring Well BBMW-35S
5-15 ft bgs



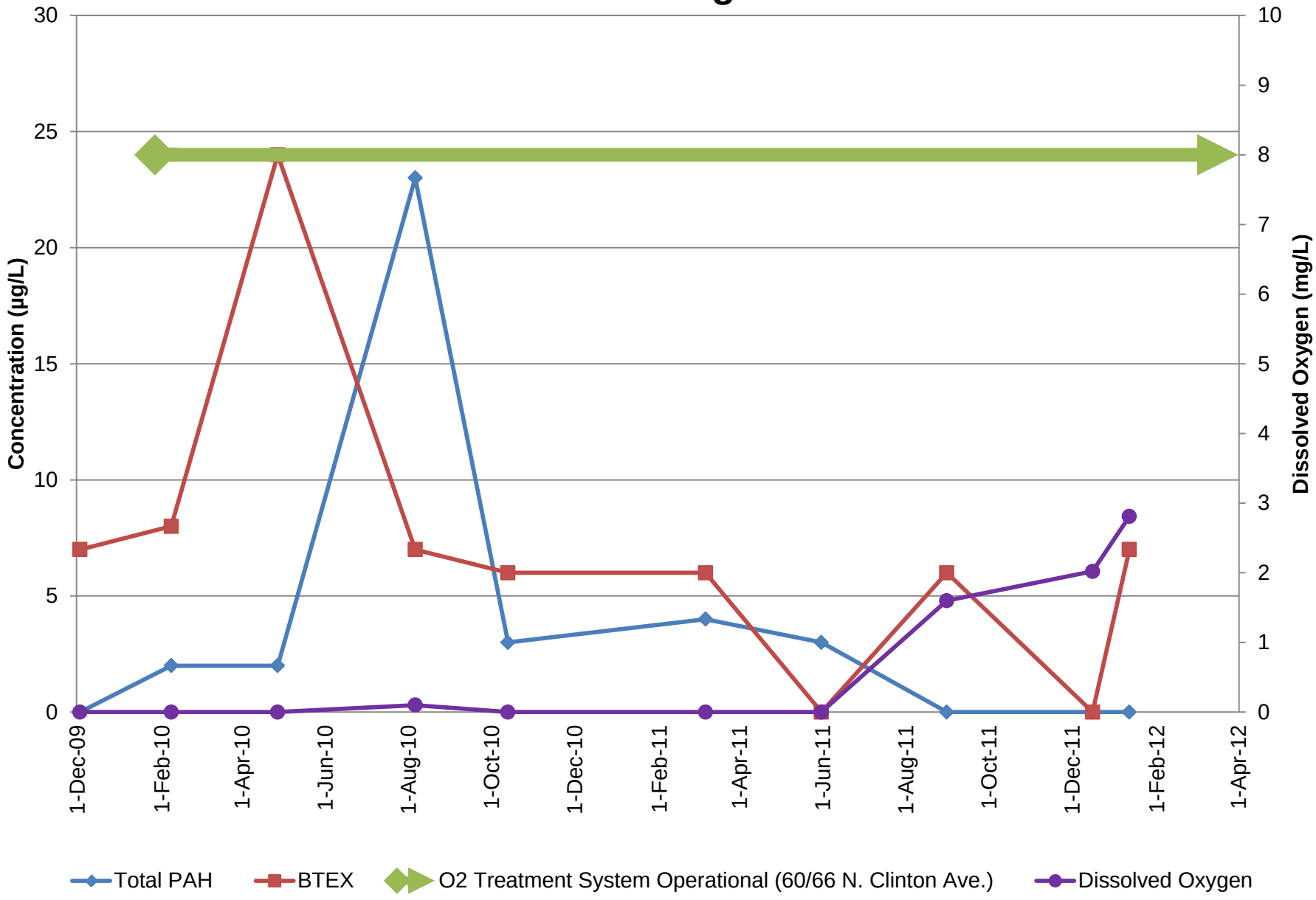

Monitoring Well BBMW-35I
25-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
1-Mar-11
1-Apr-11
1-May-11
1-Jun-11
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

Monitoring Well BBMW-35I2
45-50 ft bgs

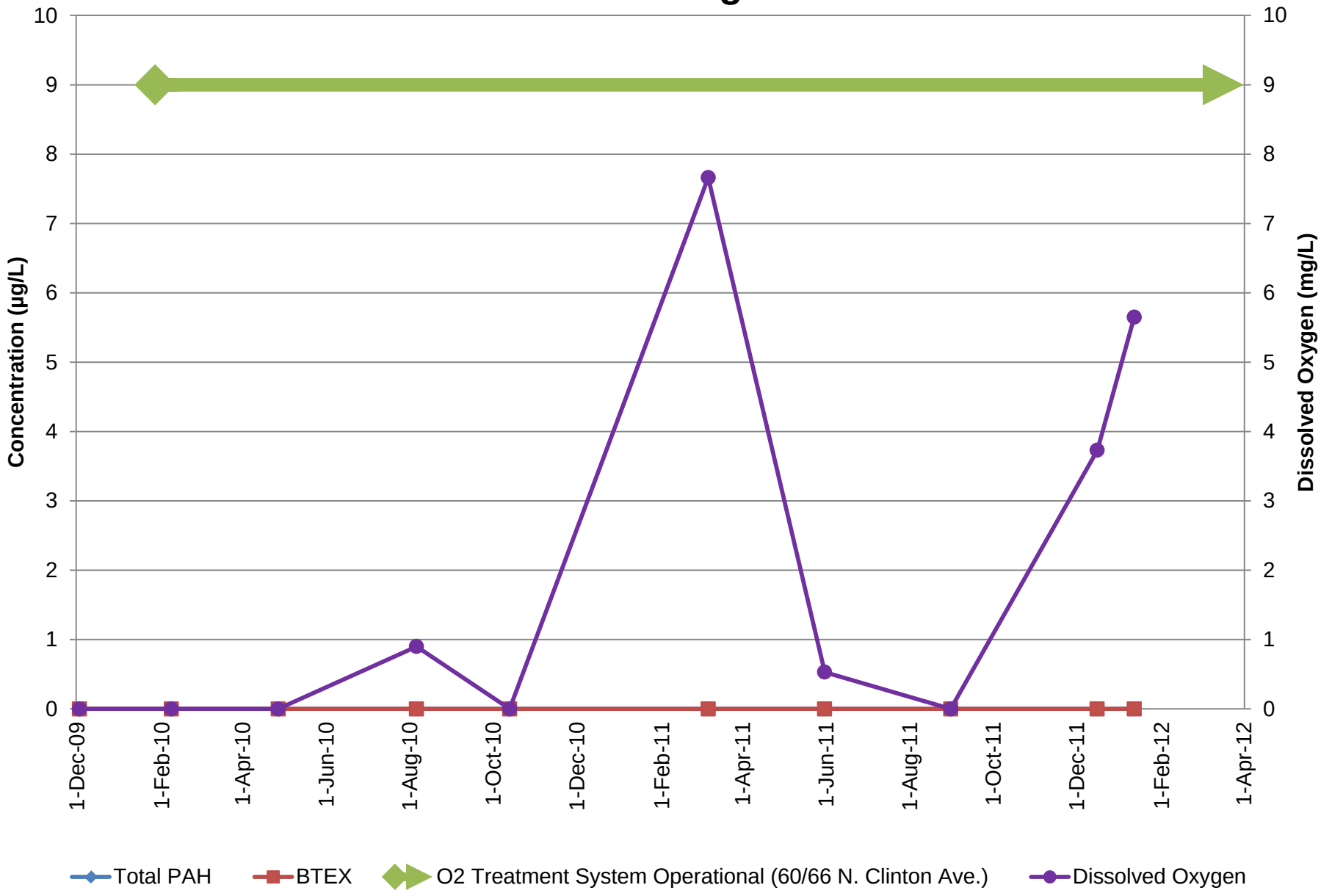


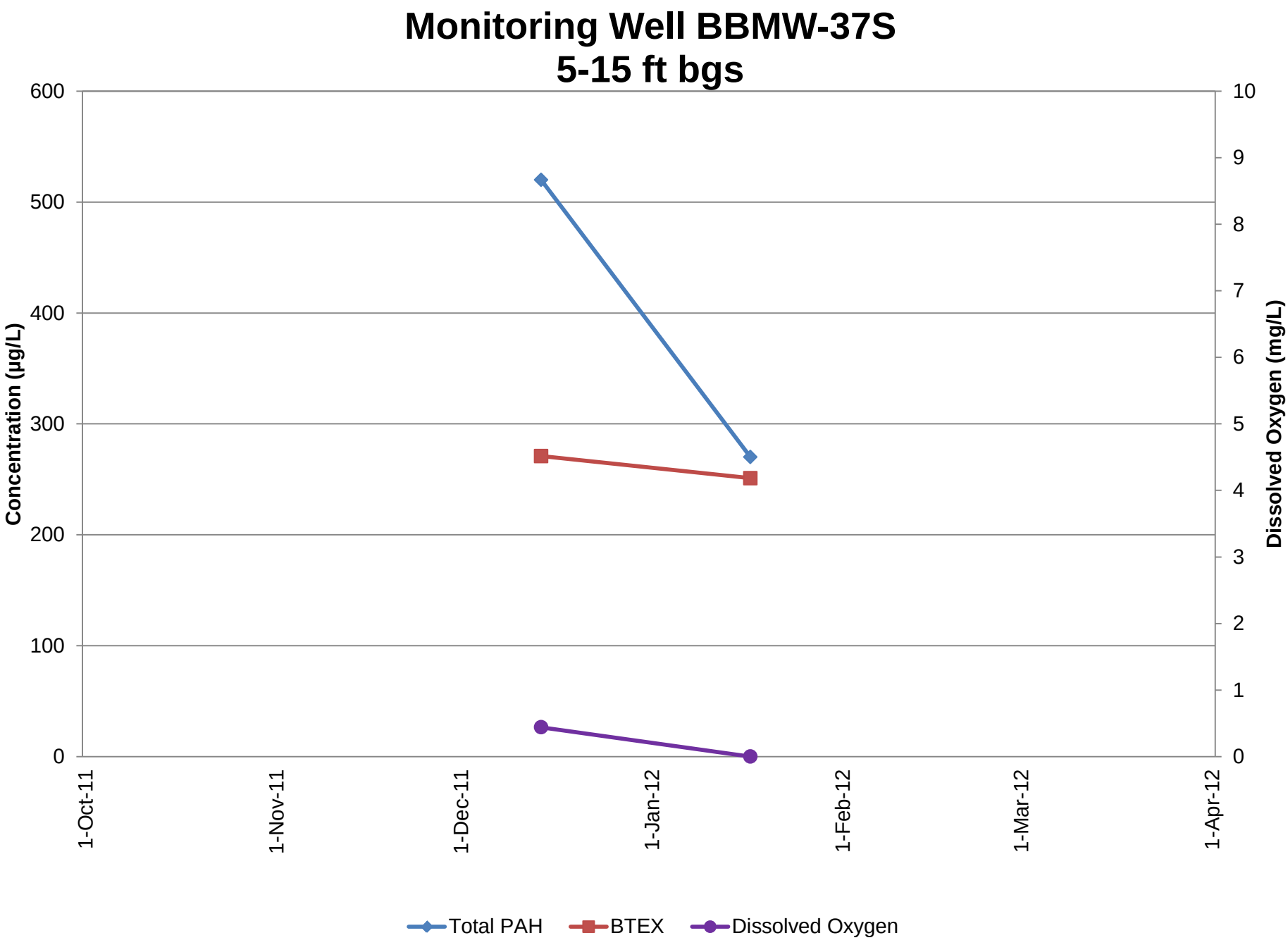

Monitoring Well BBMW-35D
63-68 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
1-Mar-11
1-Apr-11
1-May-11
1-Jun-11
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

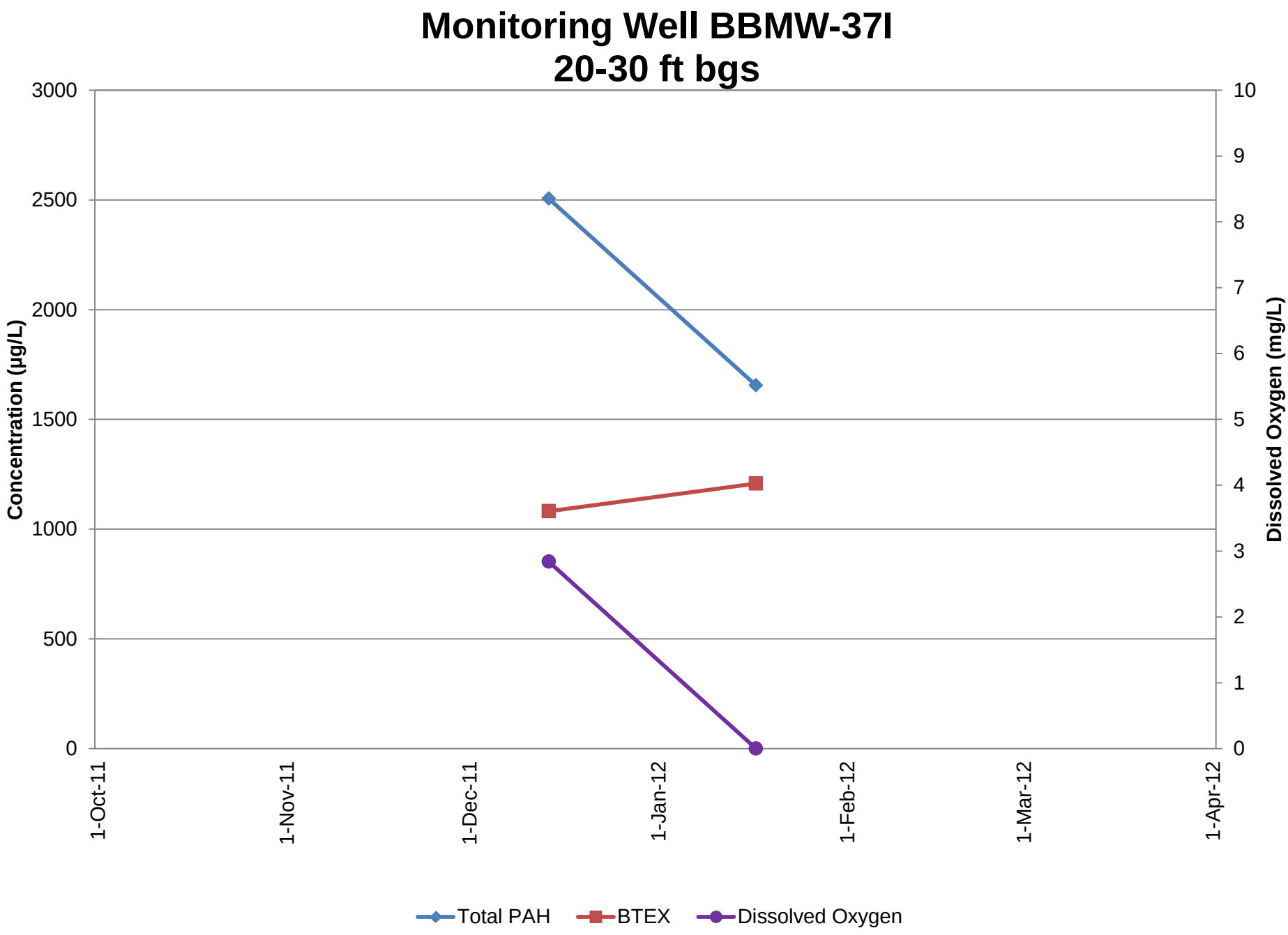
Monitoring Well BBMW-36S
5-15 ft bgs

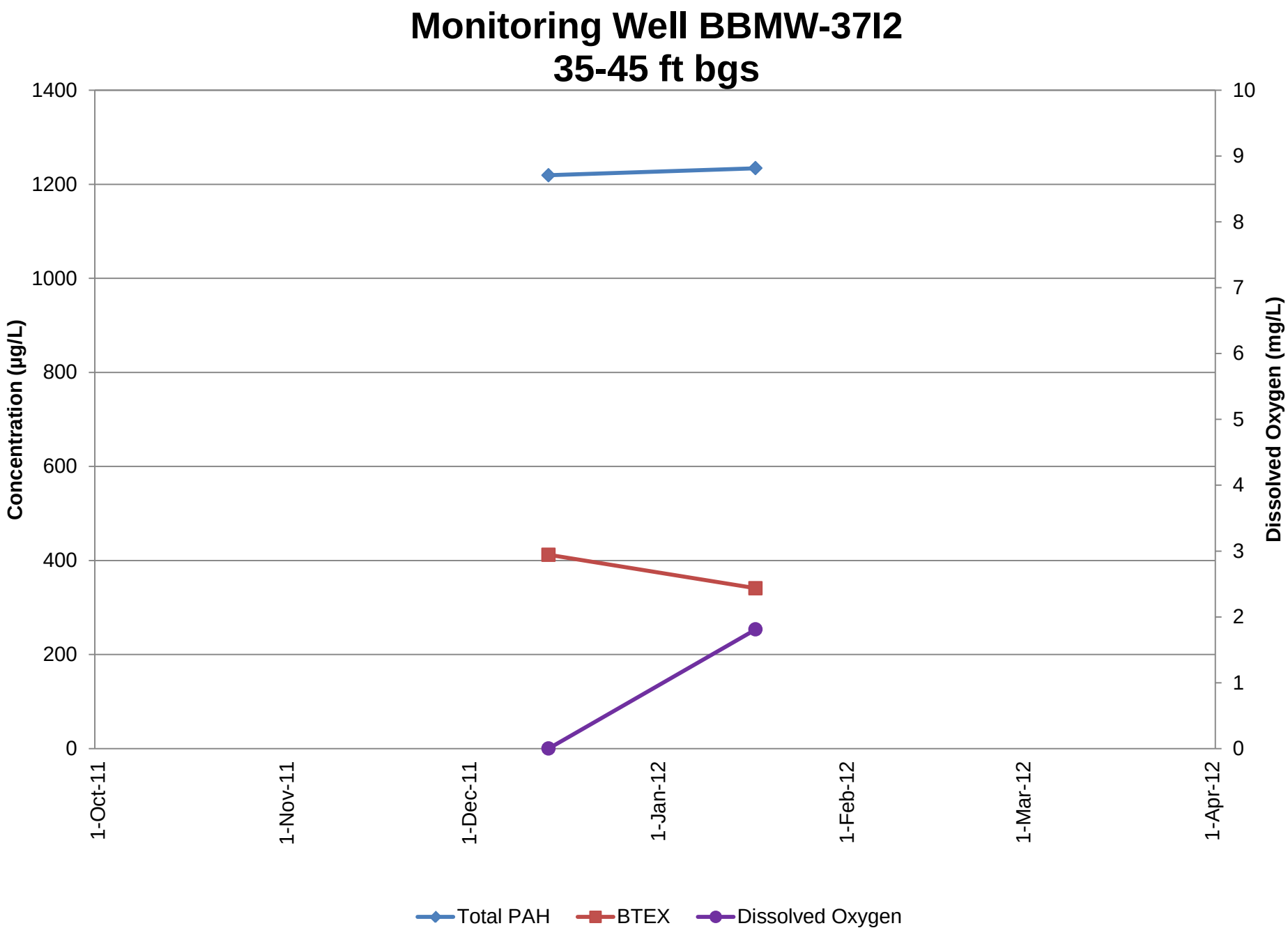


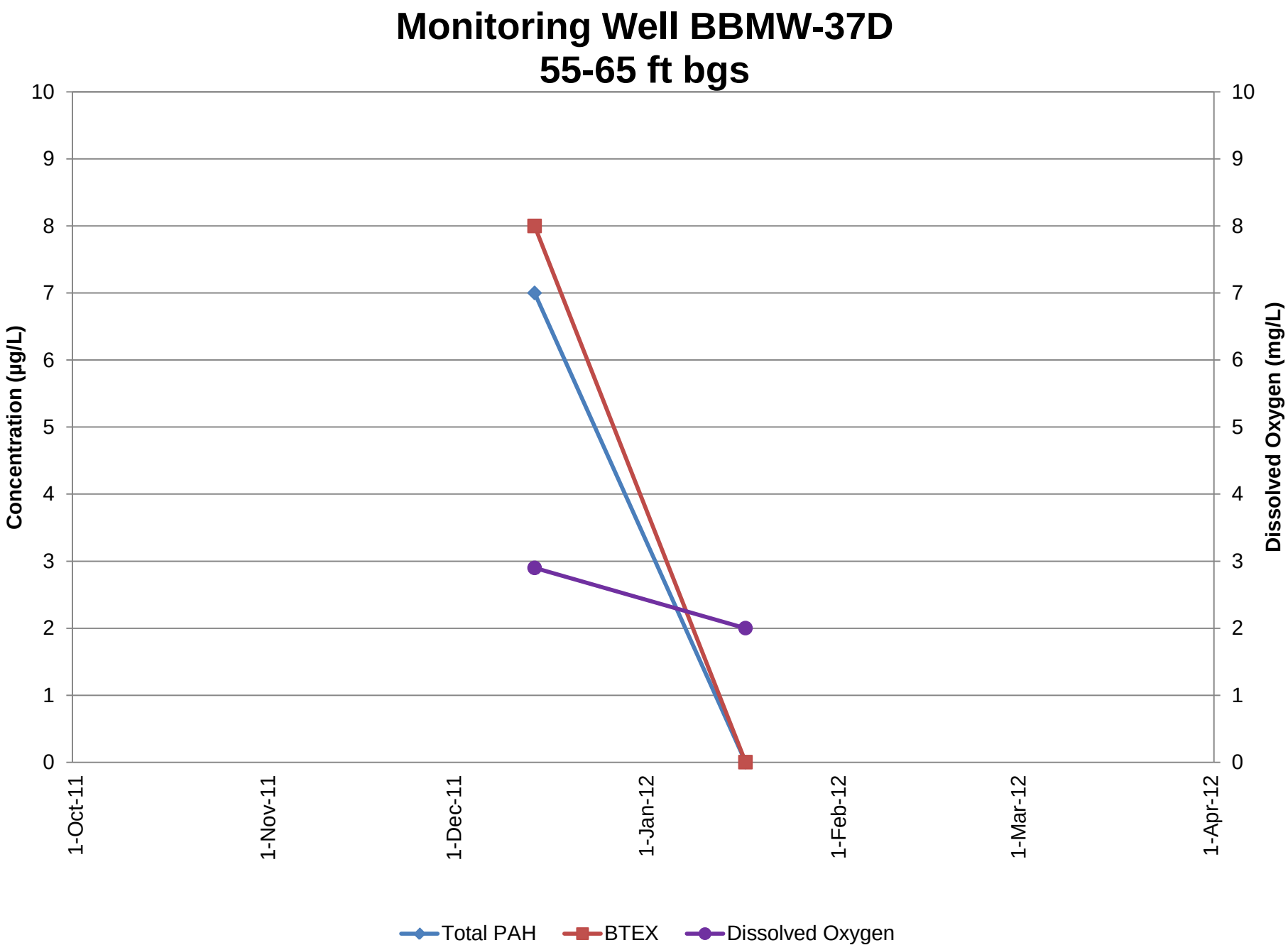
Monitoring Well BBMW-36I
25-30 ft bgs



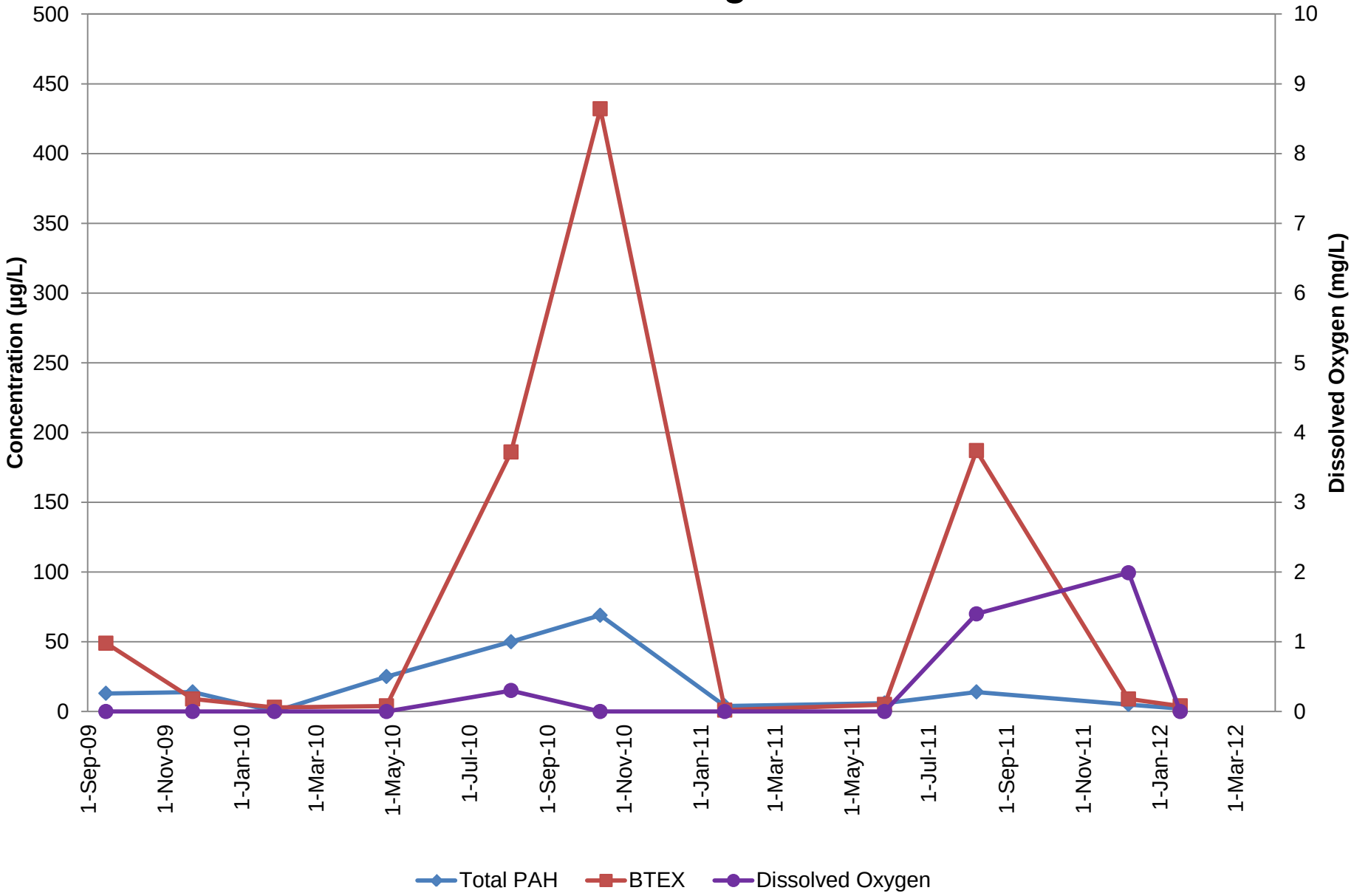

Monitoring Well BBMW-37S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
600
500
400
300
200
100
0
10
9
8
7
6
5
4
3
2
1
0
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen


Monitoring Well BBMW-37I
20-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
3000
2500
2000
1500
1000
500
0
10
9
8
7
6
5
4
3
2
1
0
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

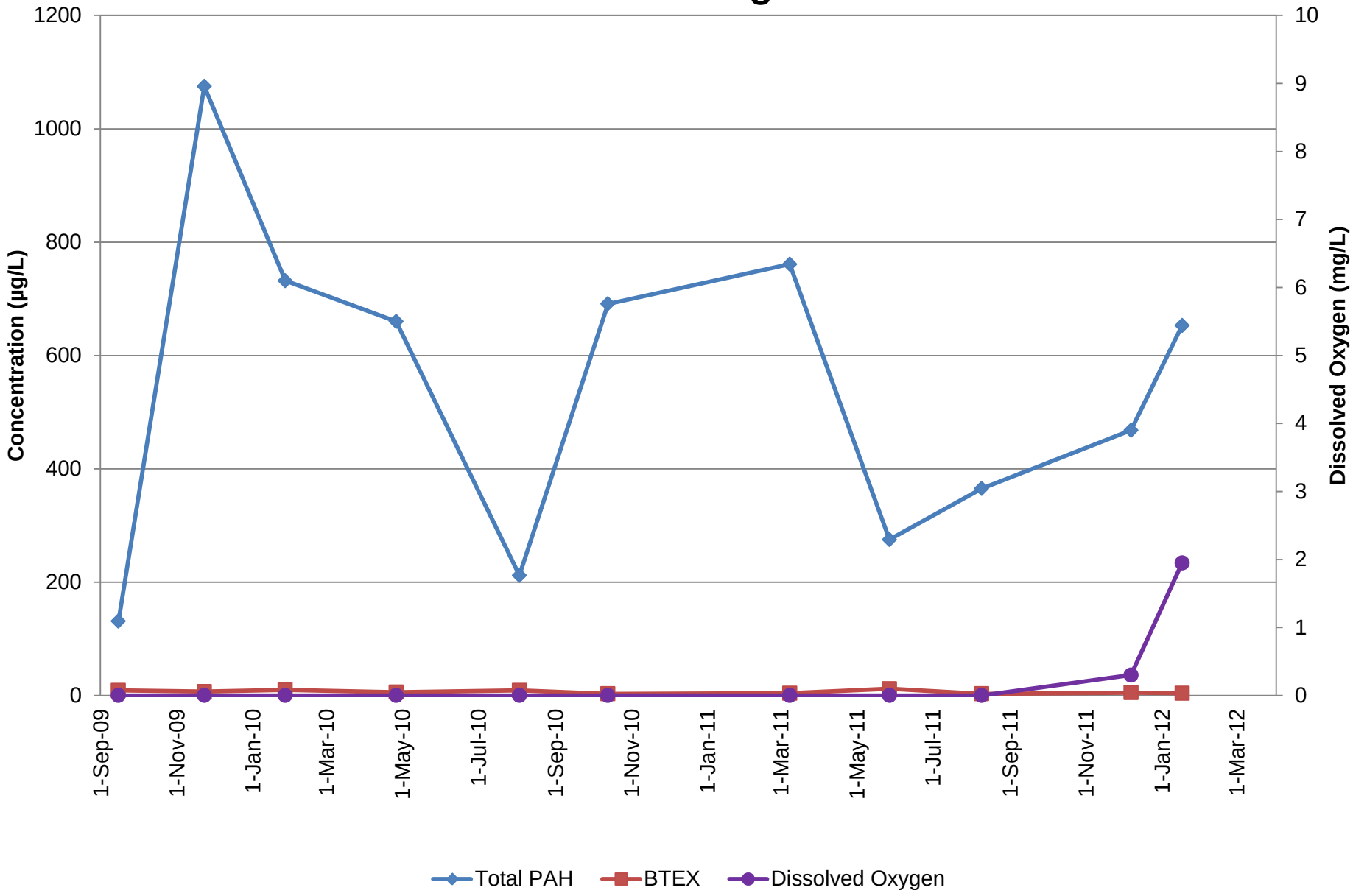

Monitoring Well BBMW-37I2
35-45 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
1400
1200
1000
800
600
400
200
0
10
9
8
7
6
5
4
3
2
1
0
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen


Monitoring Well BBMW-37D
55-65 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

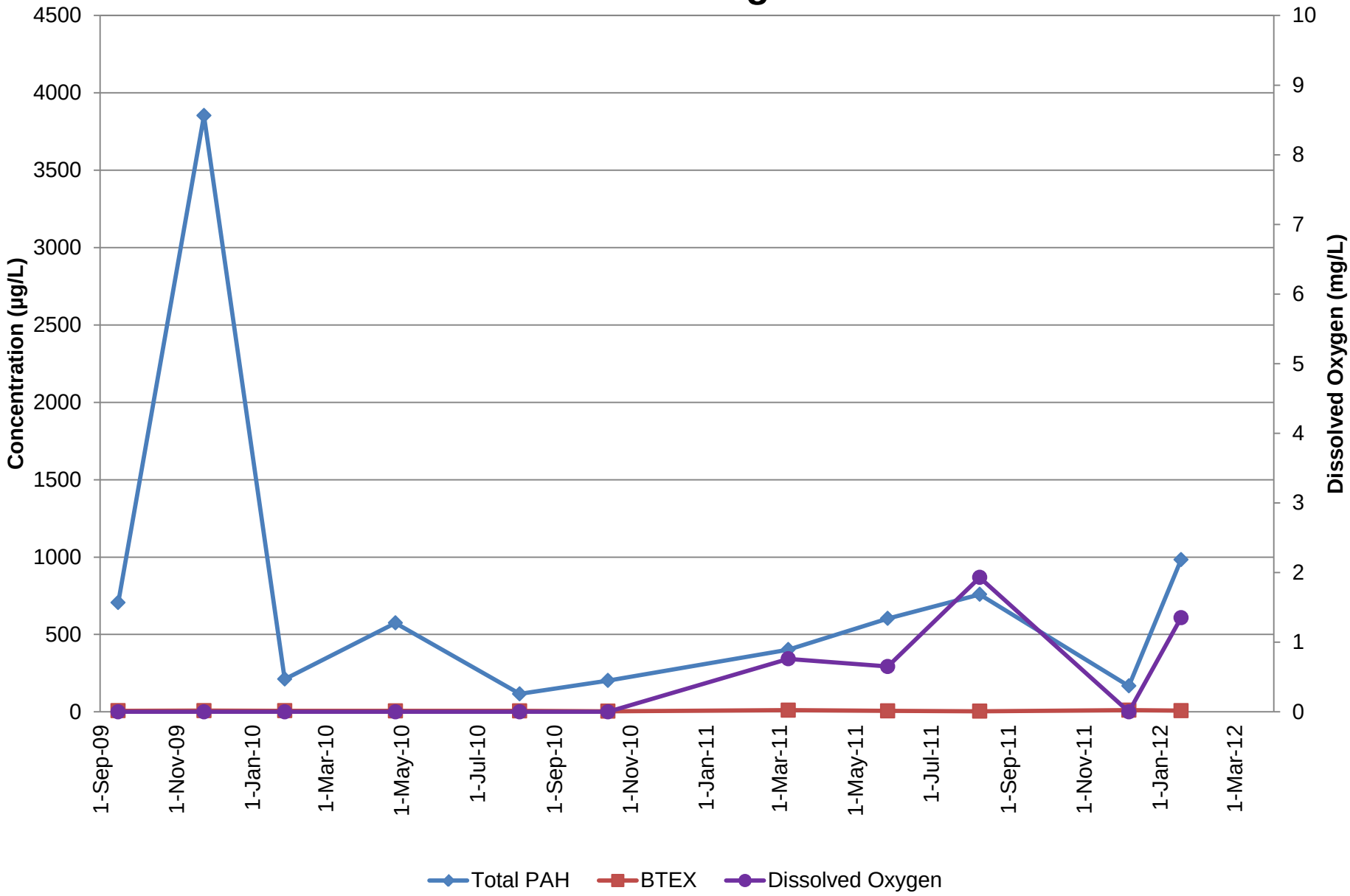
Monitoring Well BBMW-38S
5-15 ft bgs



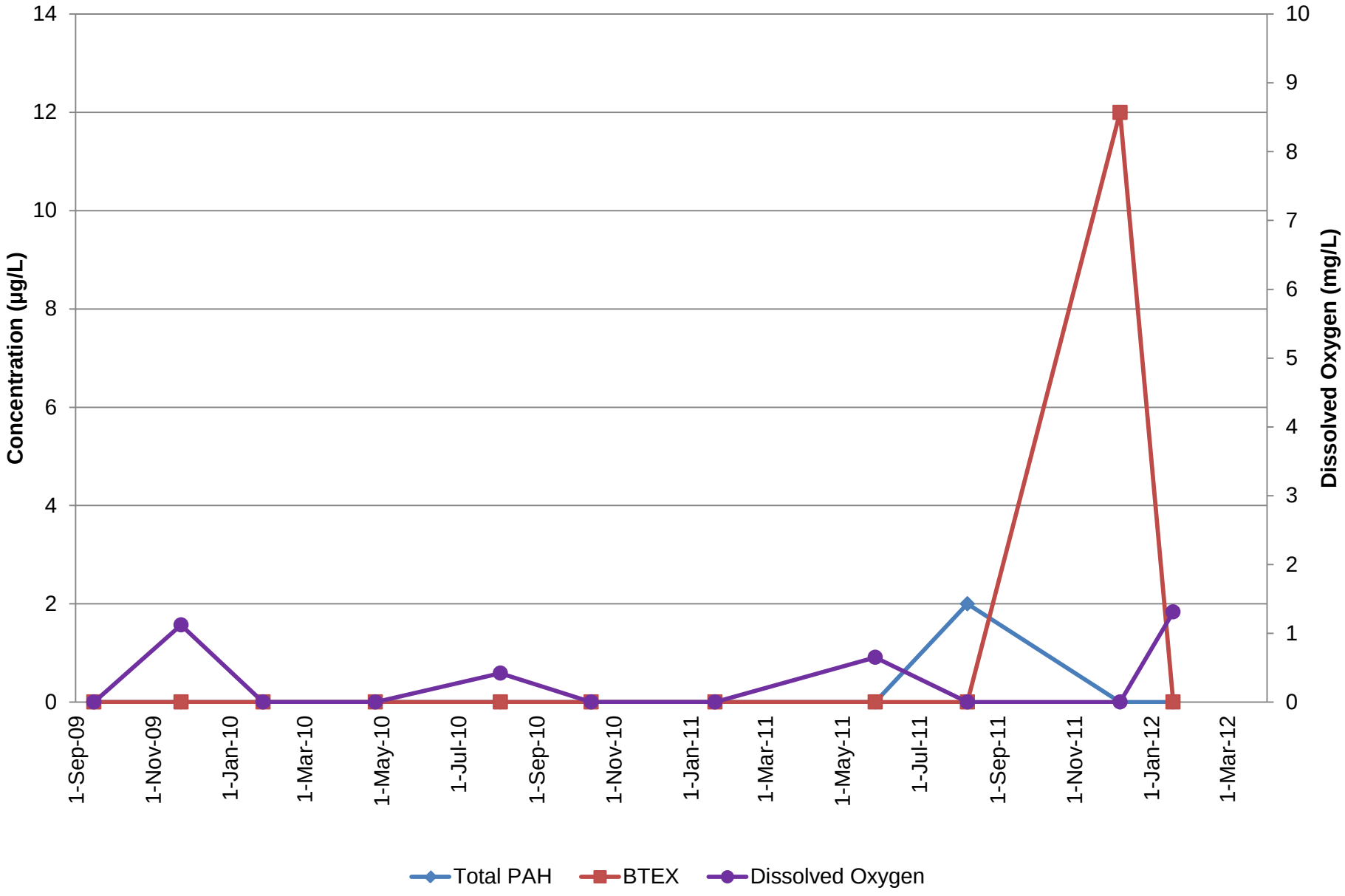
Monitoring Well BBMW-38I
25-30 ft bgs



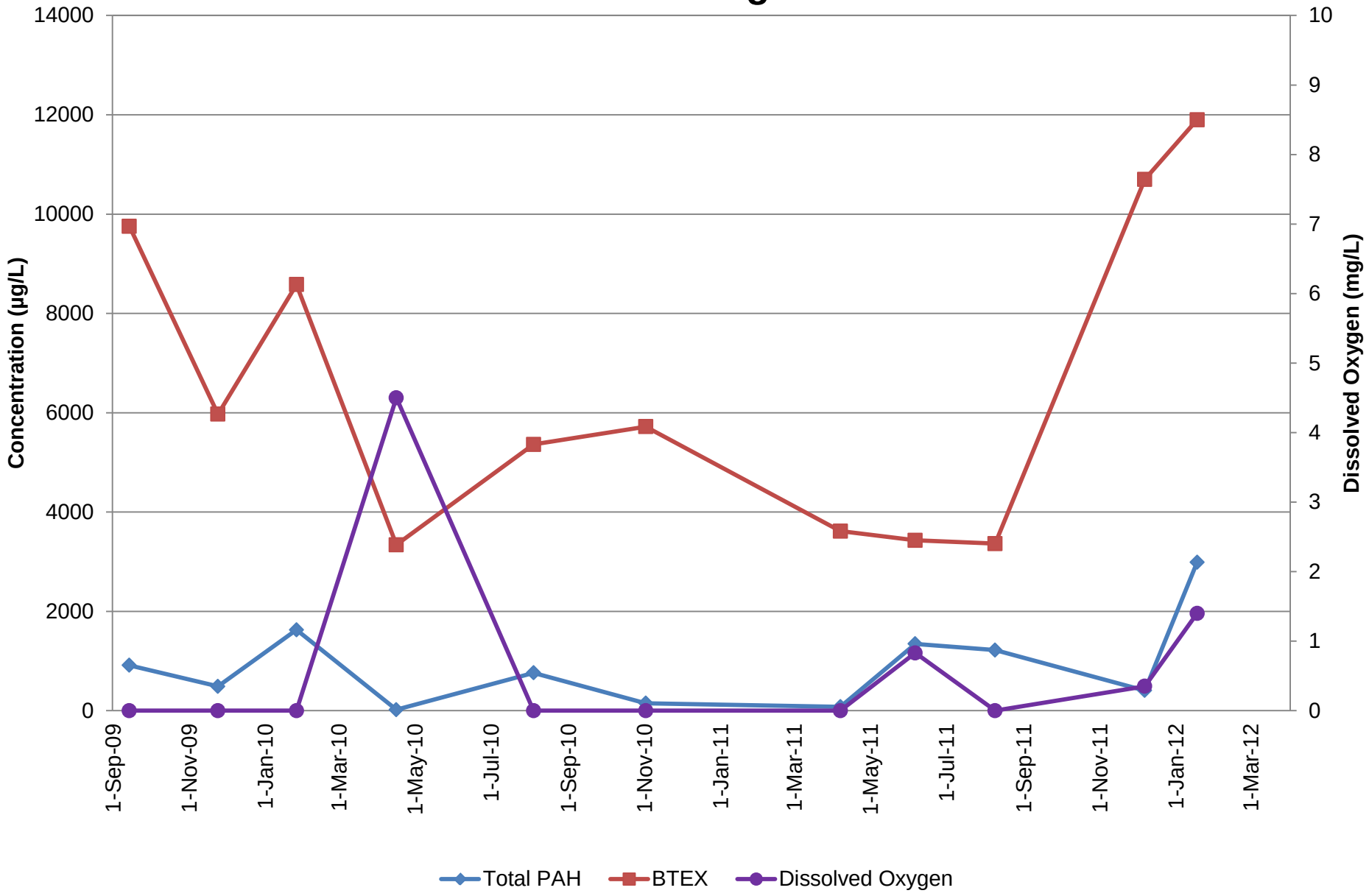
Monitoring Well BBMW-38I2
40-45 ft bgs



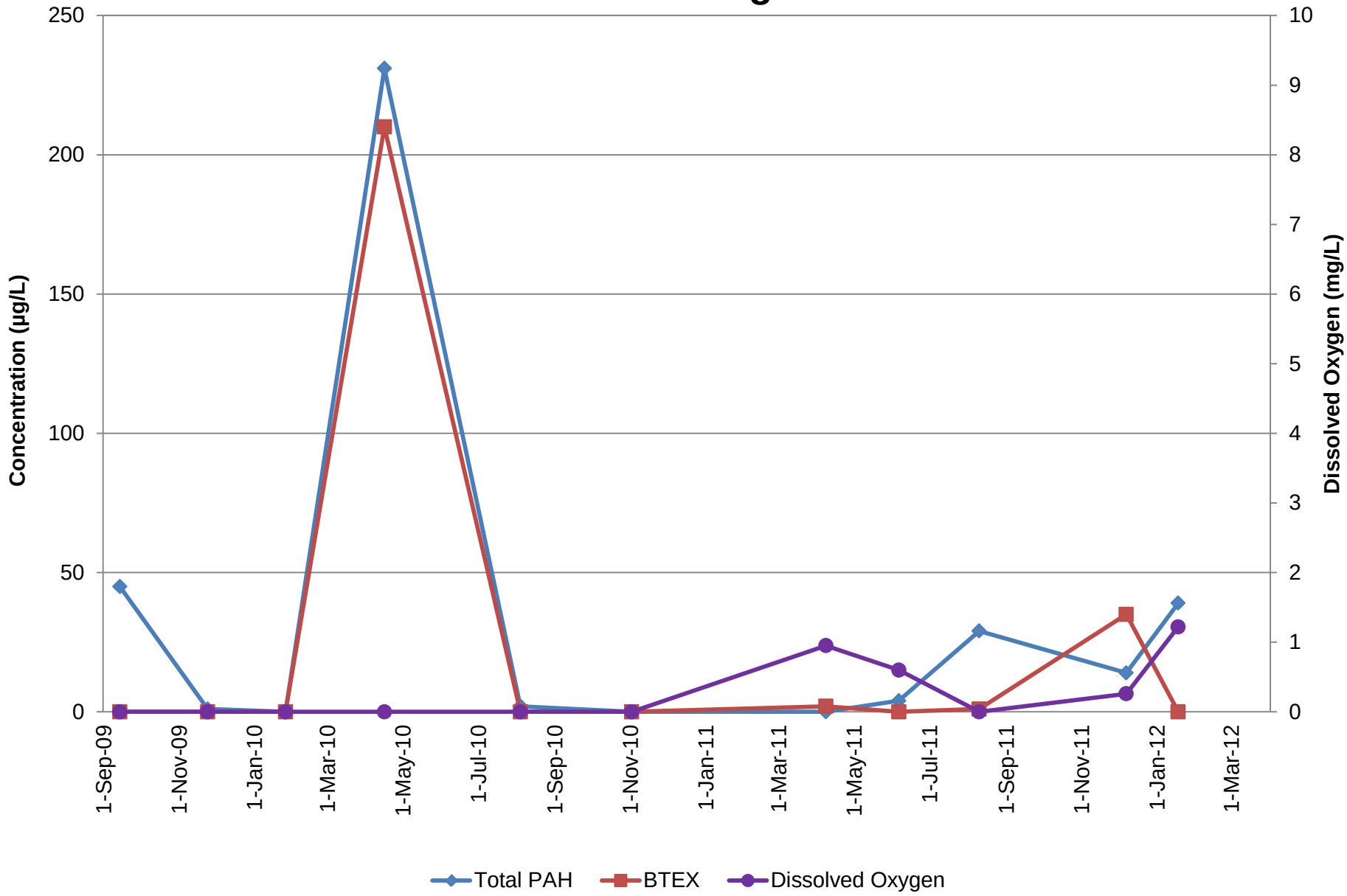
Monitoring Well BBMW-38D
65-70 ft bgs

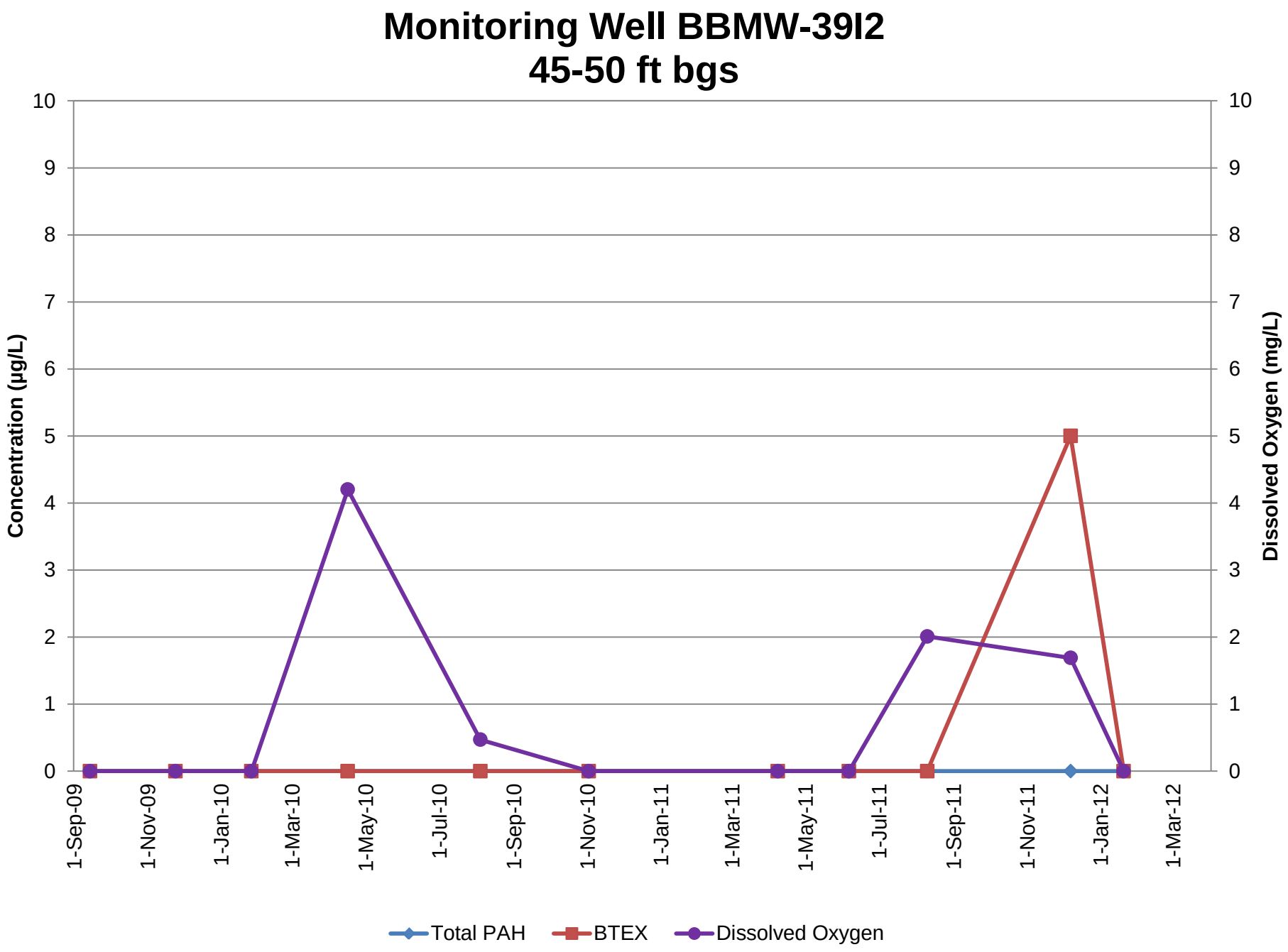


Monitoring Well BBMW-39S
5-15 ft bgs

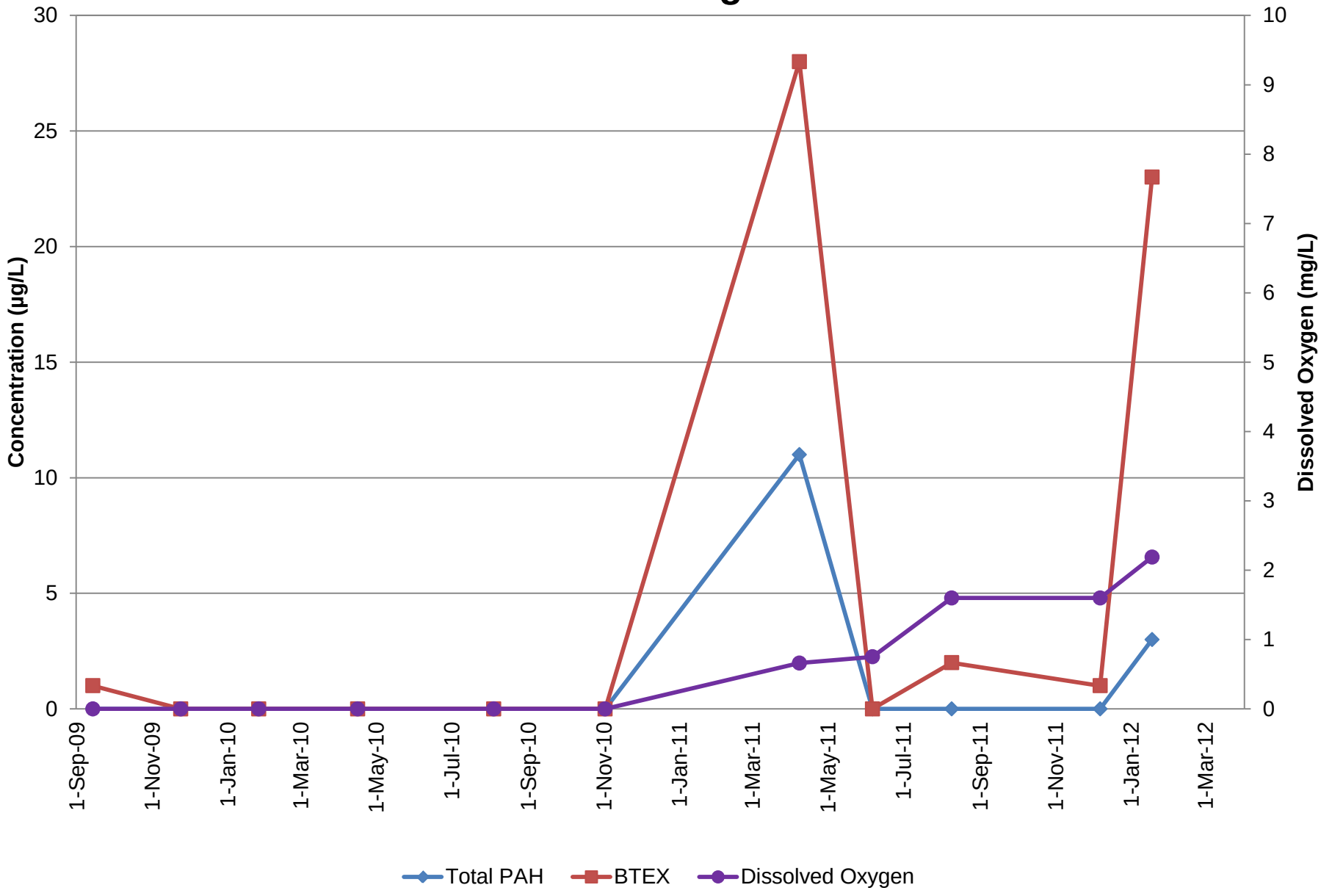


Monitoring Well BBMW-39I
25-30 ft bgs

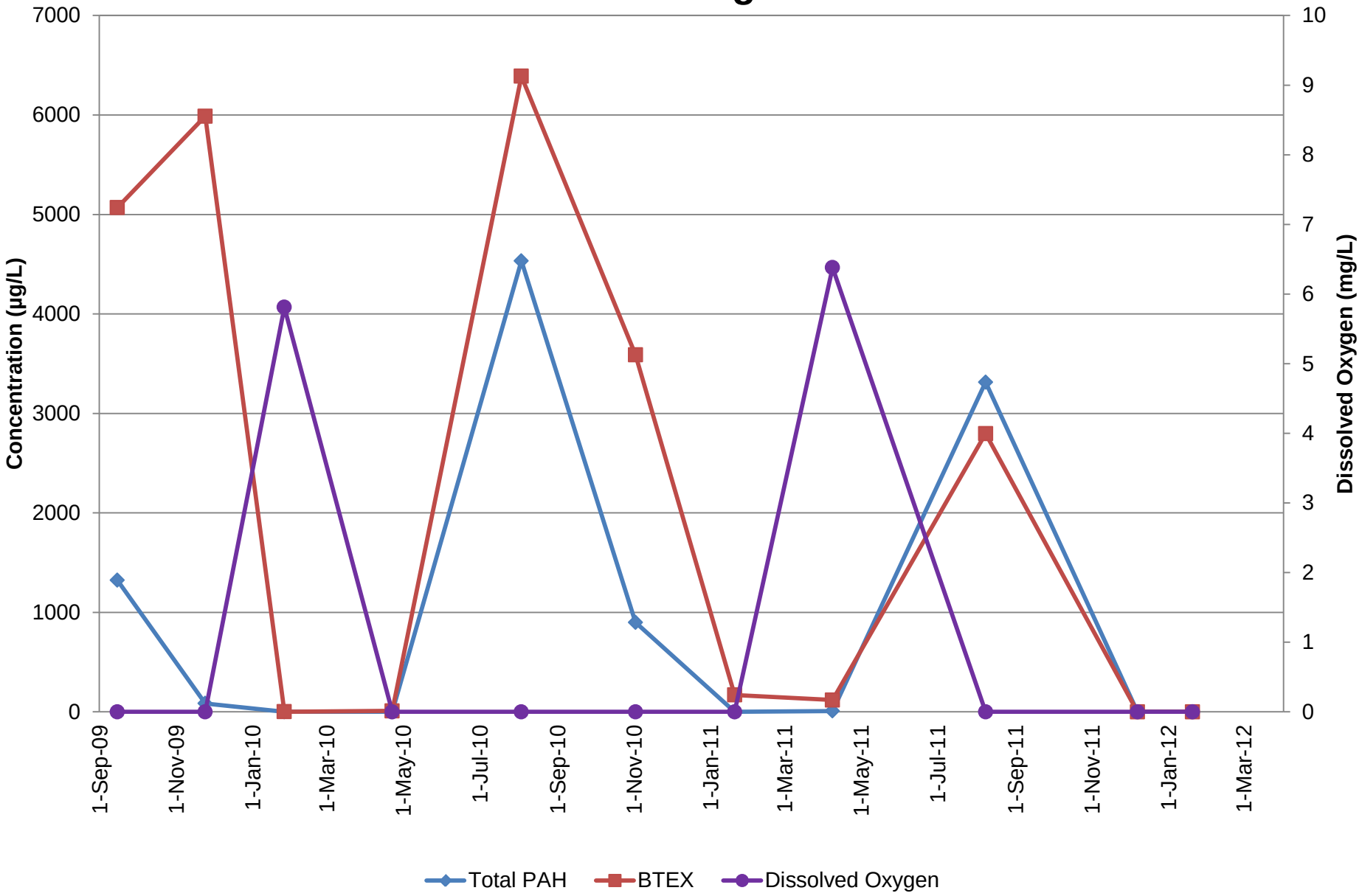



Monitoring Well BBMW-39I2
45-50 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Sep-09
1-Nov-09
1-Jan-10
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
Total PAH
BTEX
Dissolved Oxygen

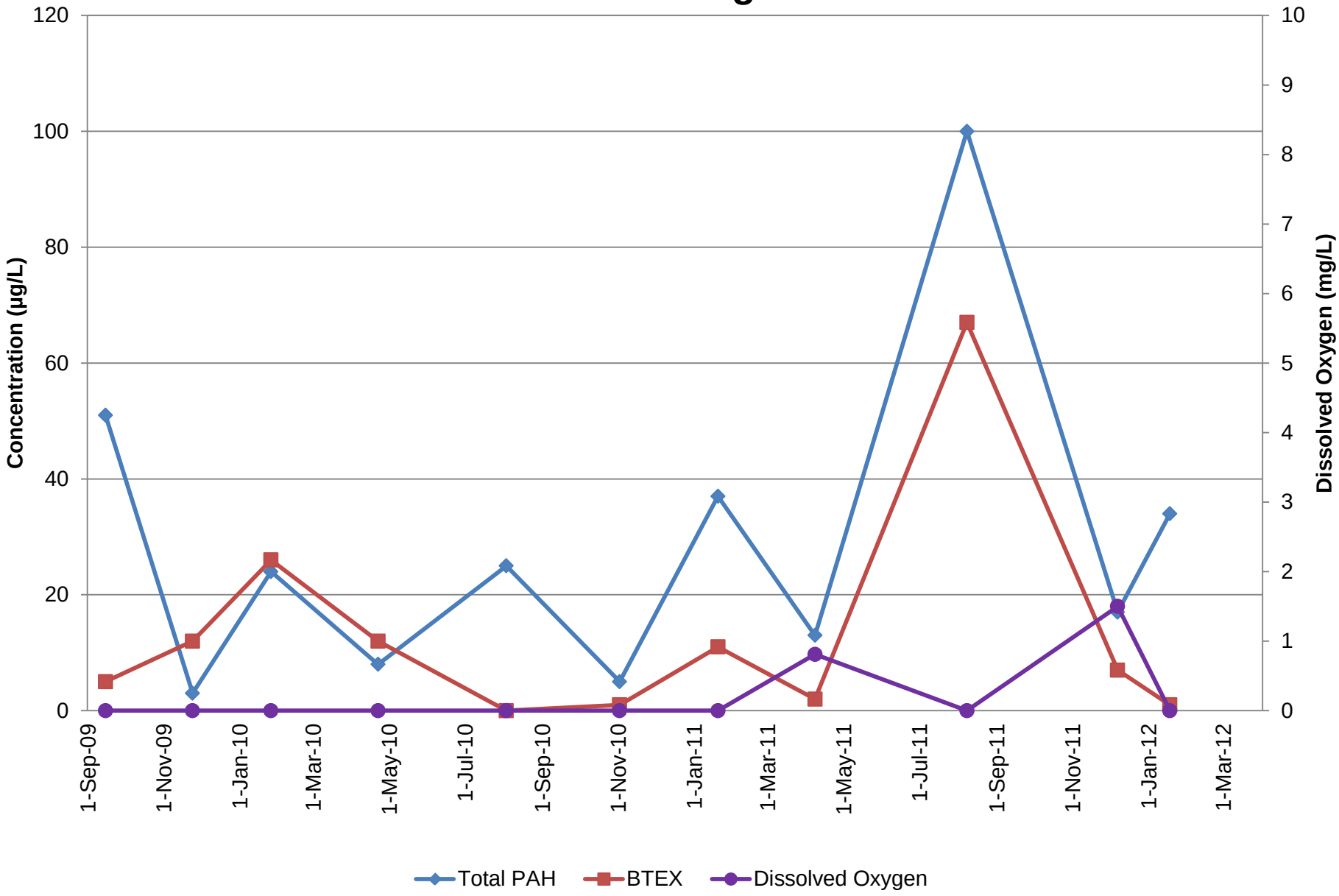
Monitoring Well BBMW-39D
65-70 ft bgs



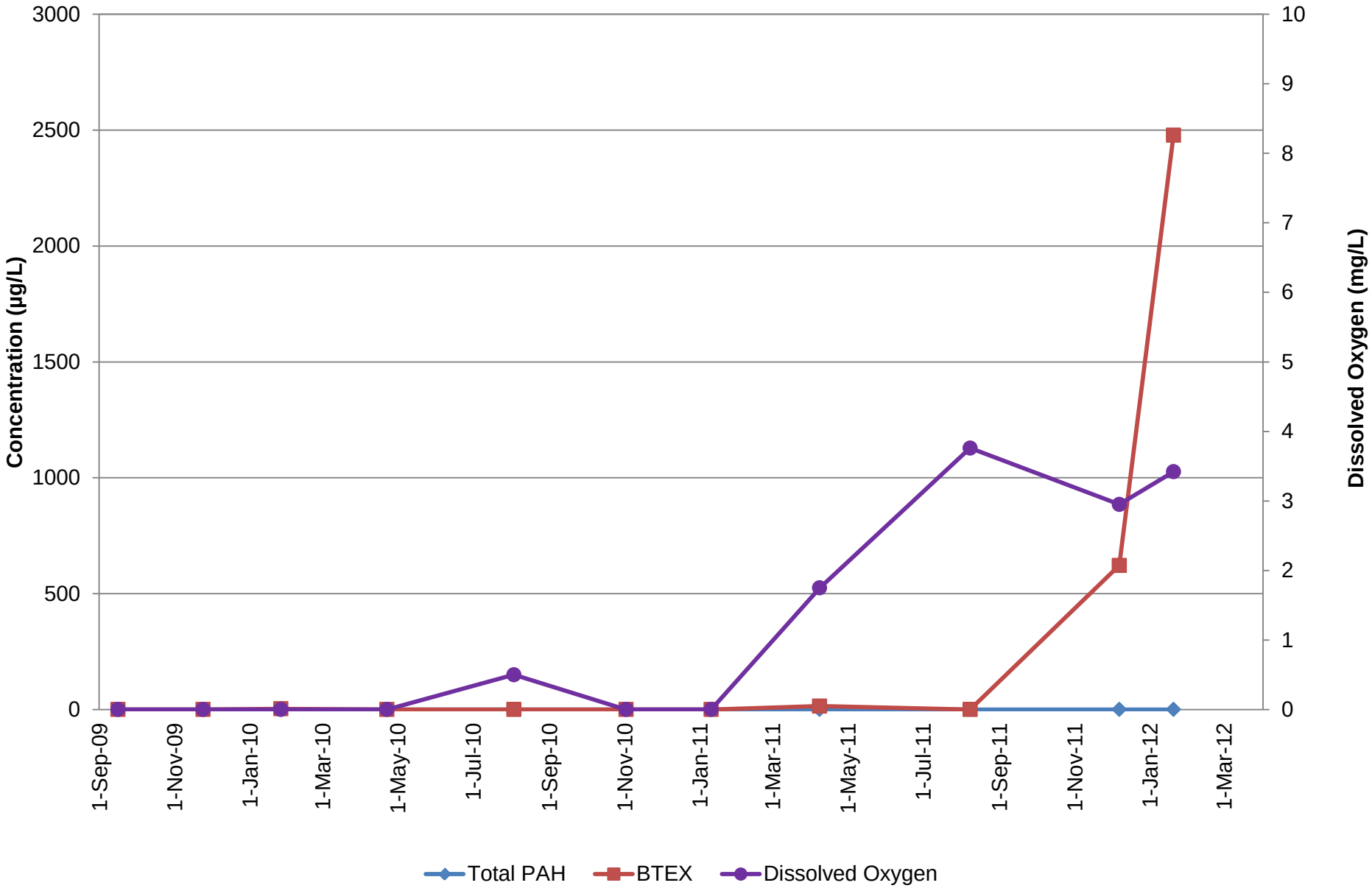
Monitoring Well BBMW-40S
5-15 ft bgs



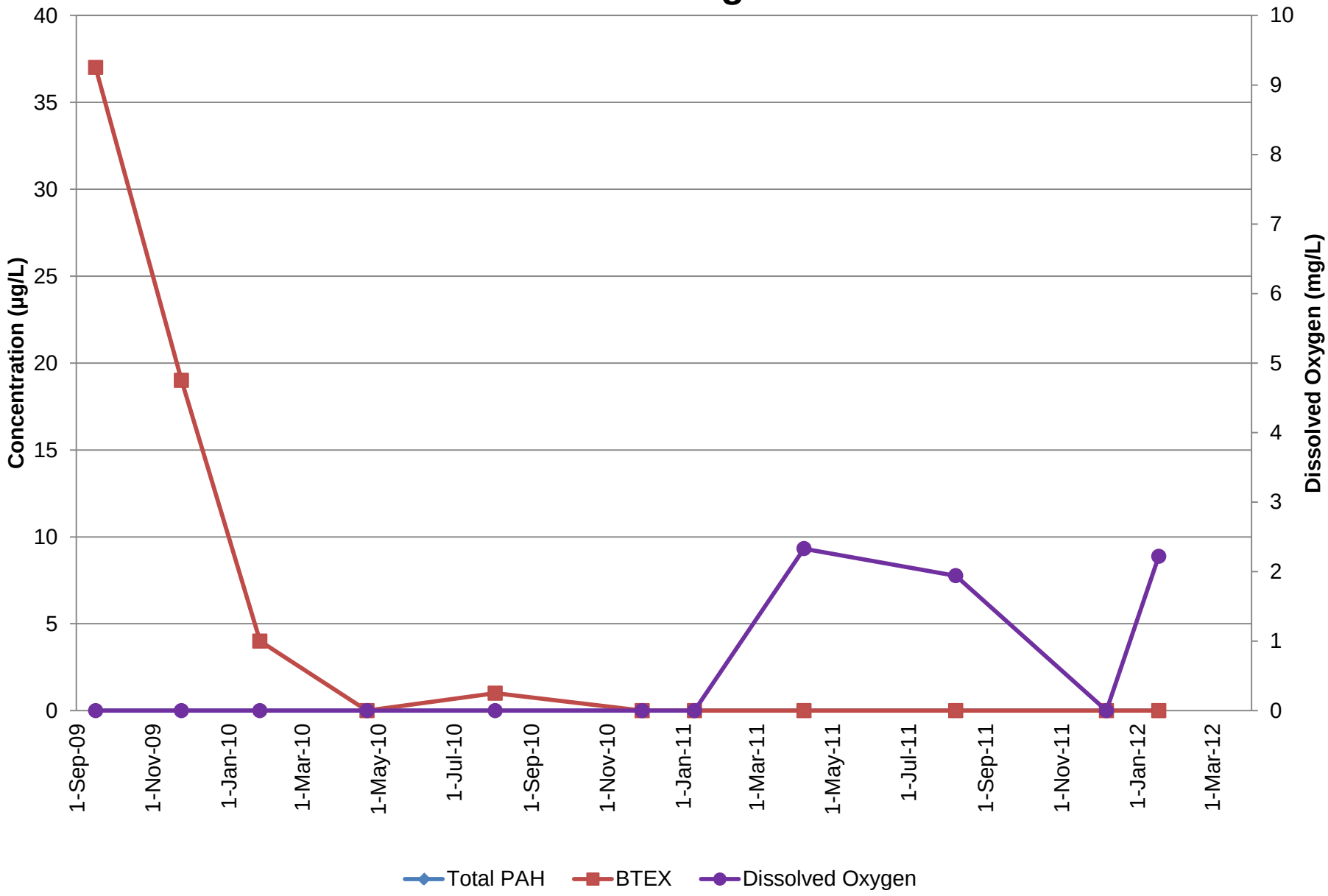
Monitoring Well BBMW-40I
25-30 ft bgs



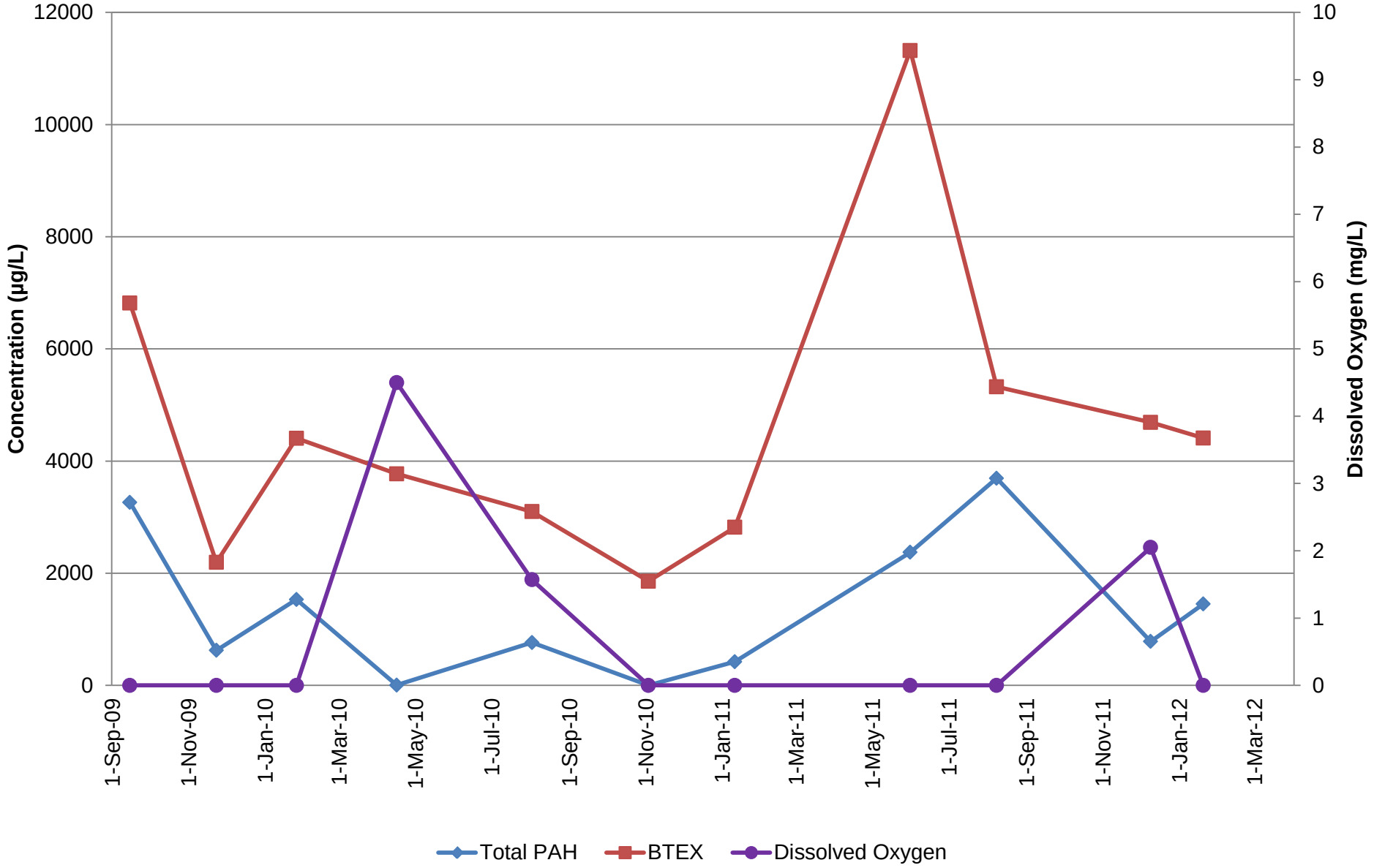
Monitoring Well BBMW-40I2
45-50 ft bgs

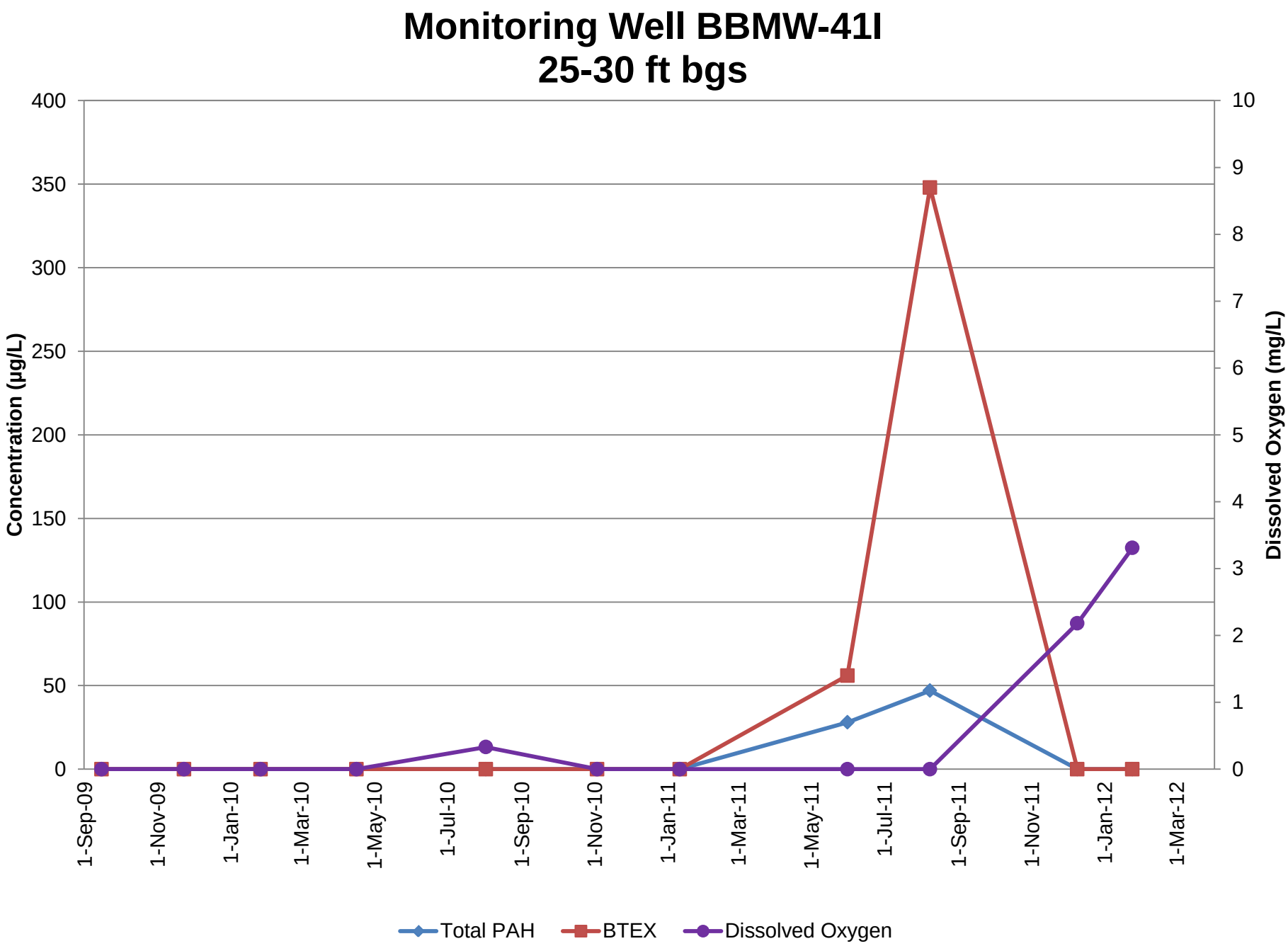


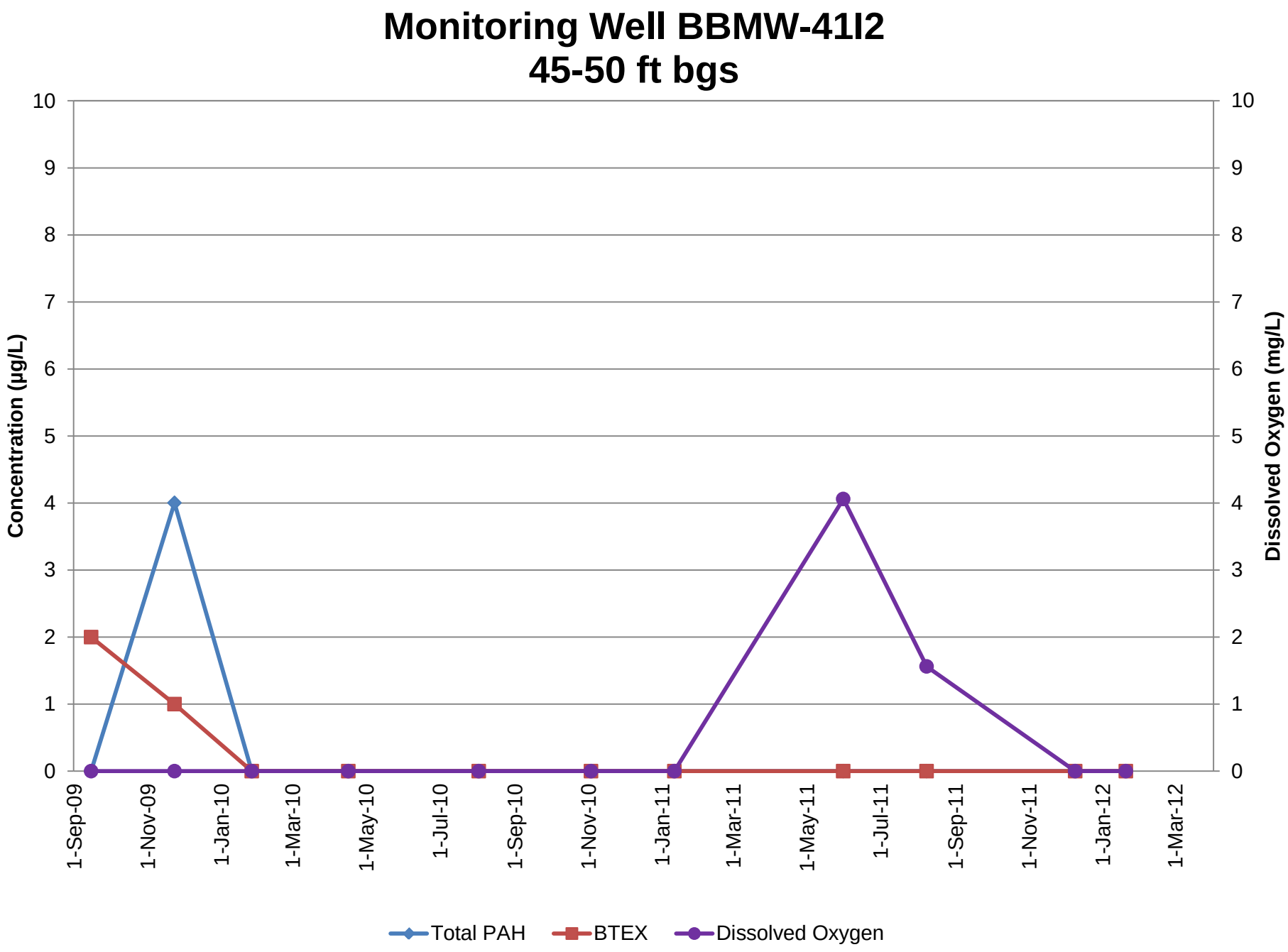
Monitoring Well BBMW-40D
70-75 ft bgs



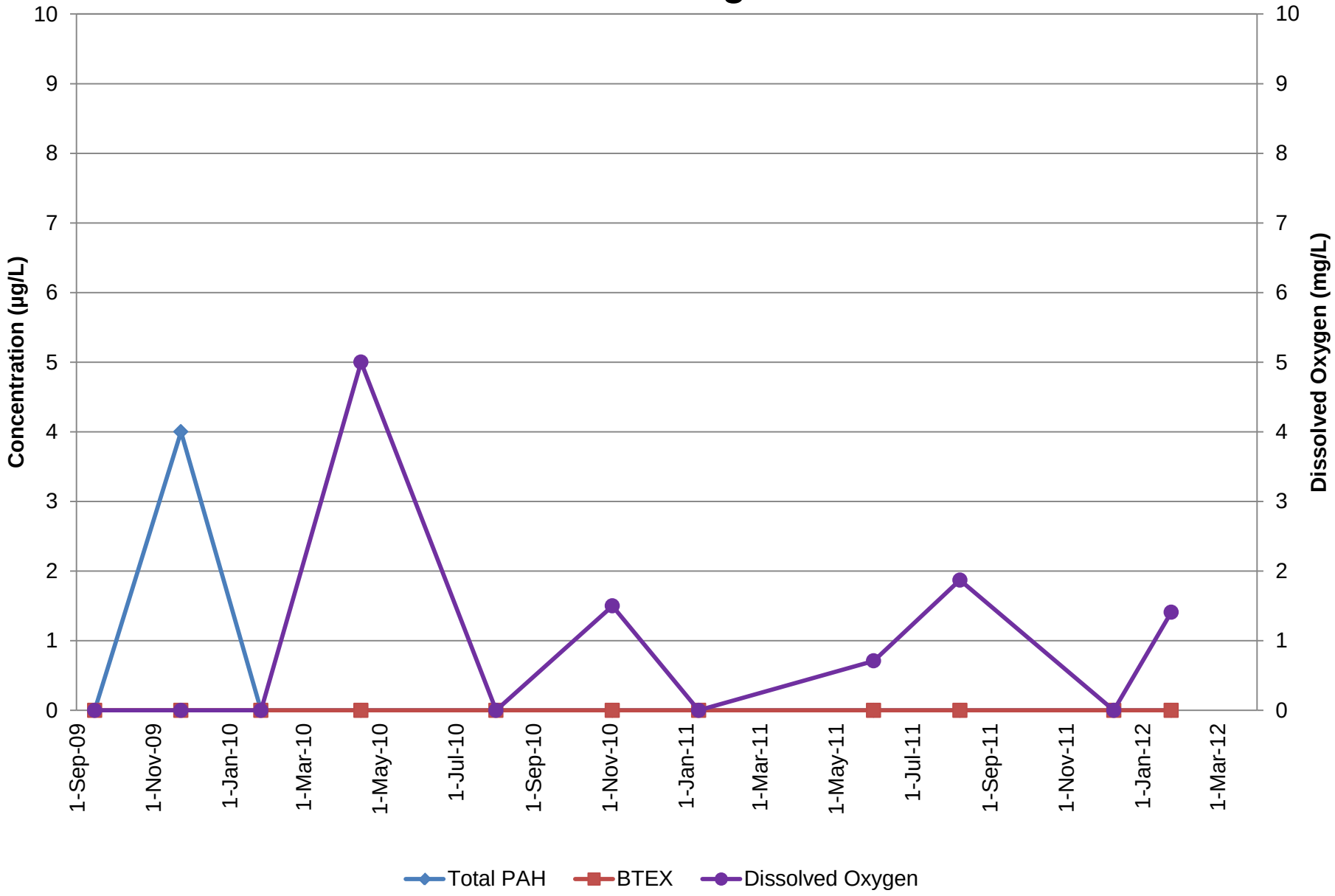
Monitoring Well BBMW-41S
6-16 ft bgs



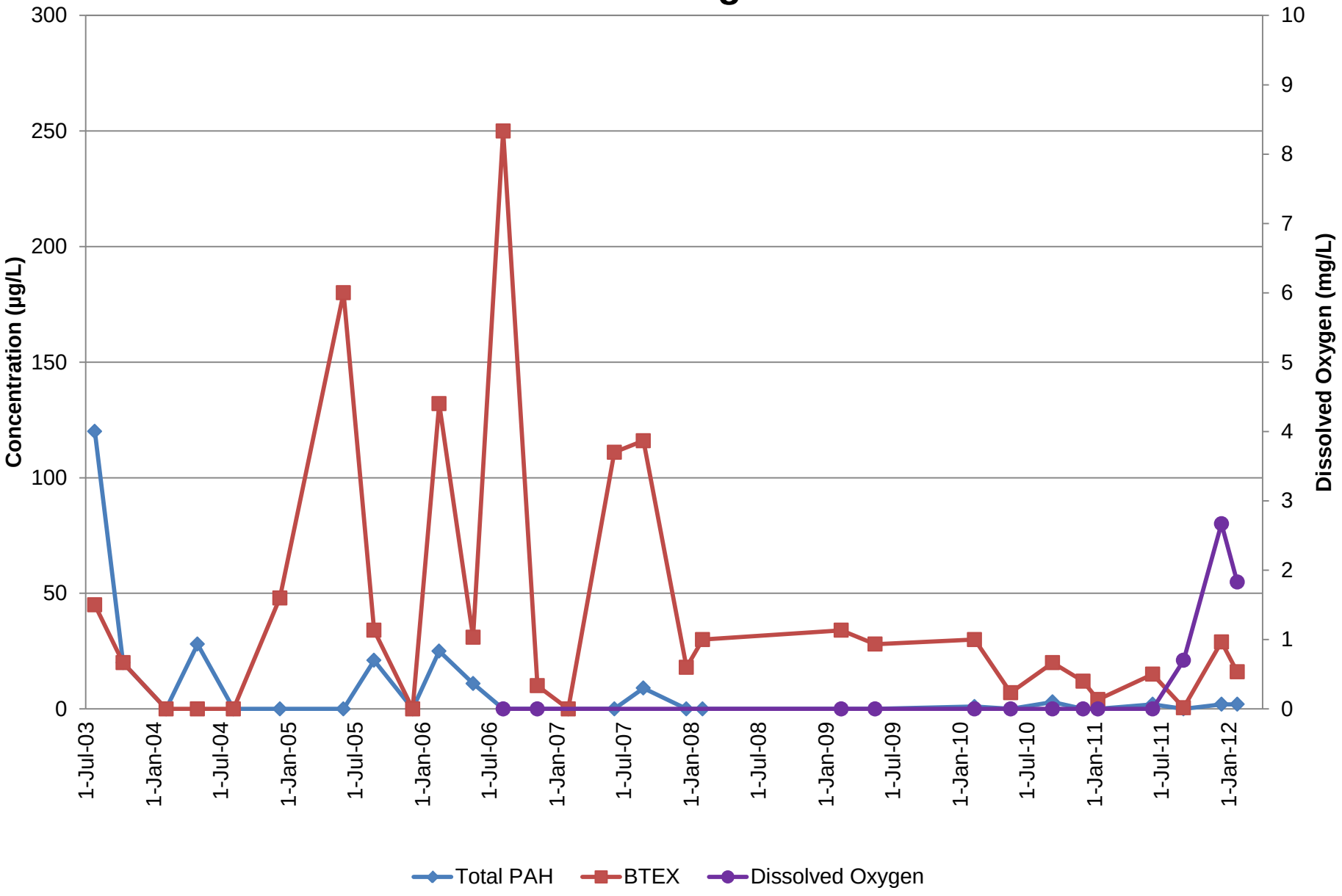

Monitoring Well BBMW-41I
25-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
400
350
300
250
200
150
100
50
0
10
9
8
7
6
5
4
3
2
1
0
1-Sep-09
1-Nov-09
1-Jan-10
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
Total PAH
BTEX
Dissolved Oxygen

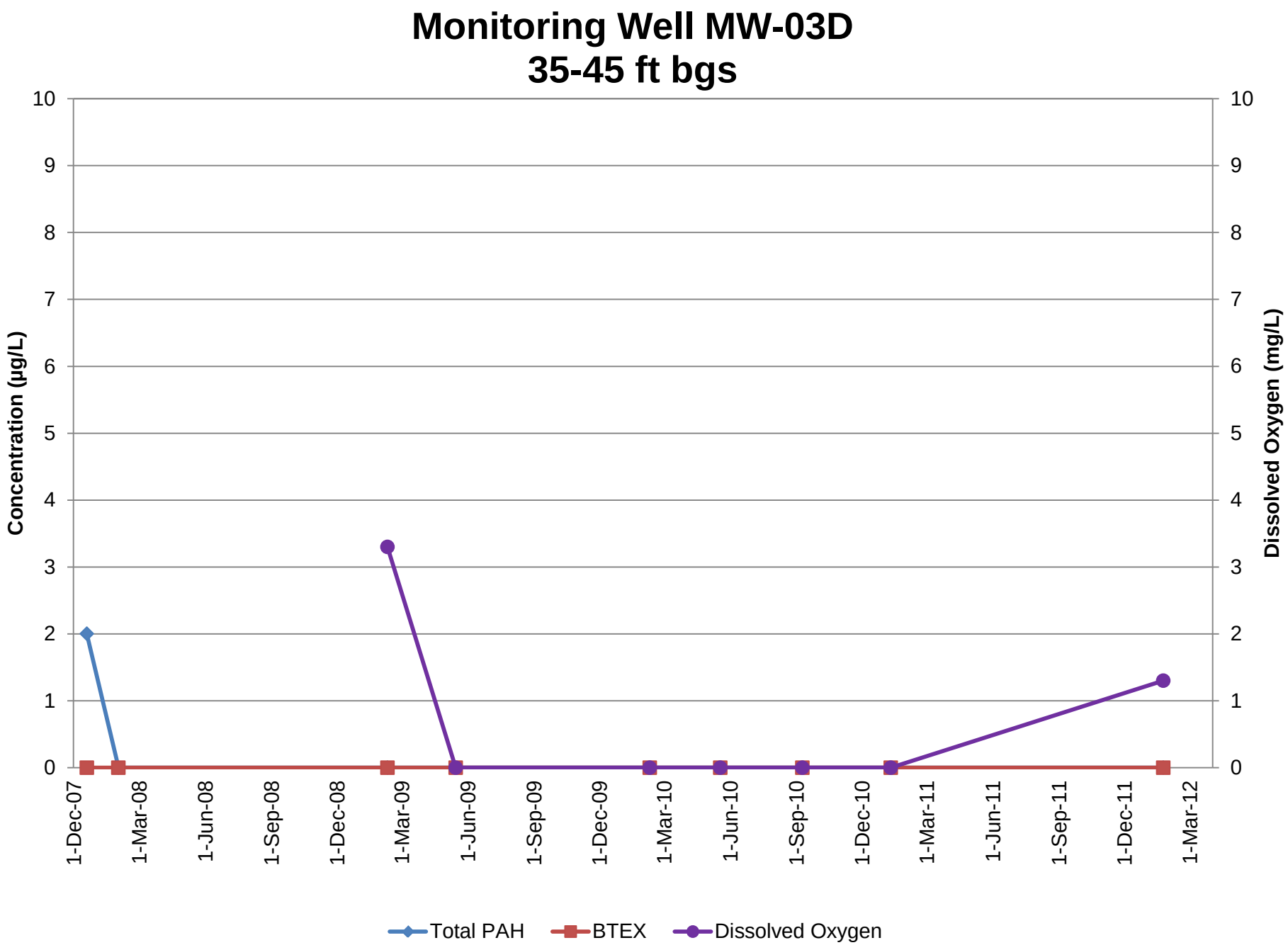

Monitoring Well BBMW-41I2
45-50 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Sep-09
1-Nov-09
1-Jan-10
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
Total PAH
BTEX
Dissolved Oxygen

Monitoring Well BBMW-41D
65-70 ft bgs

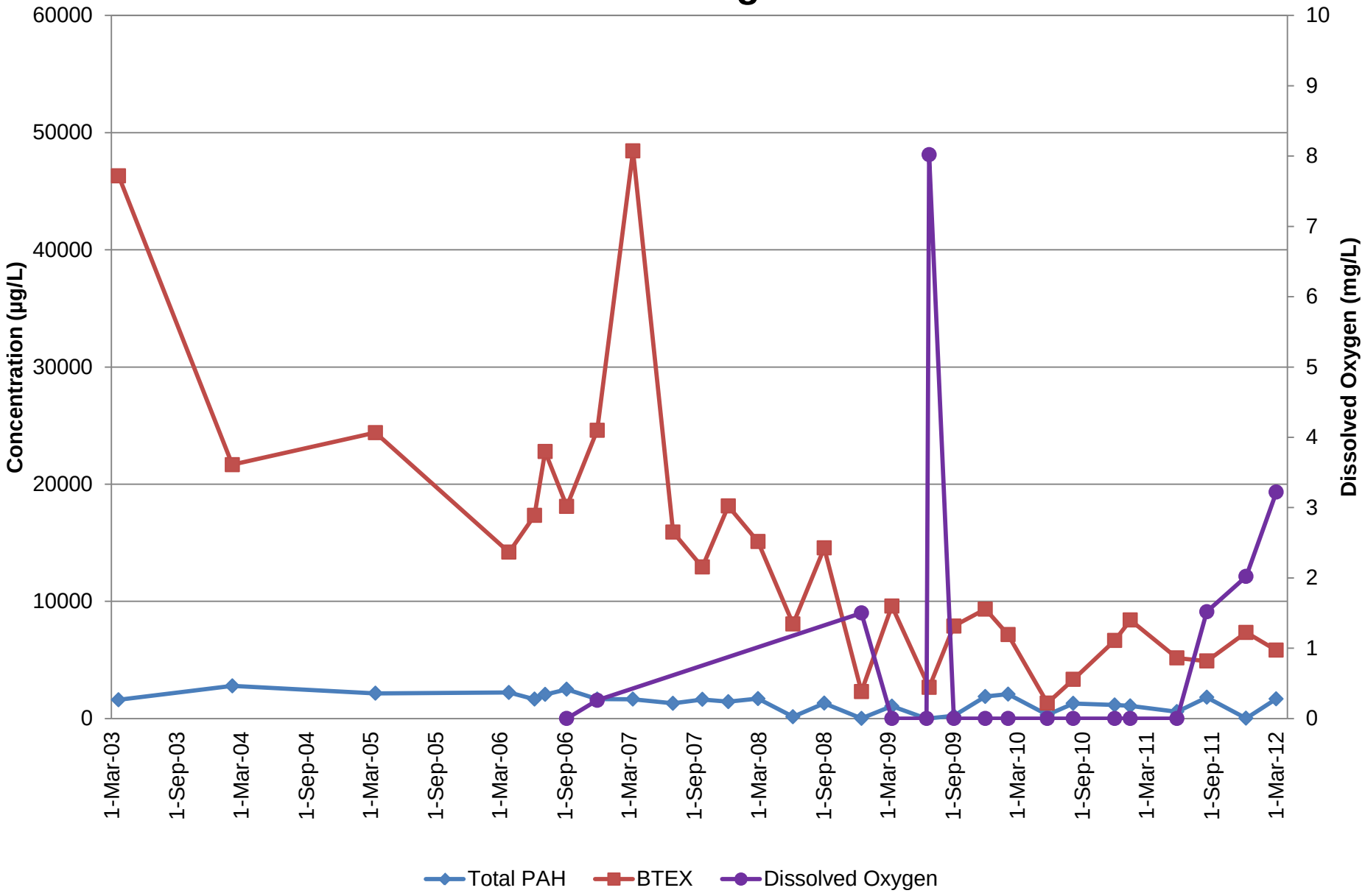


Monitoring Well MW-03S
3-13 ft bgs

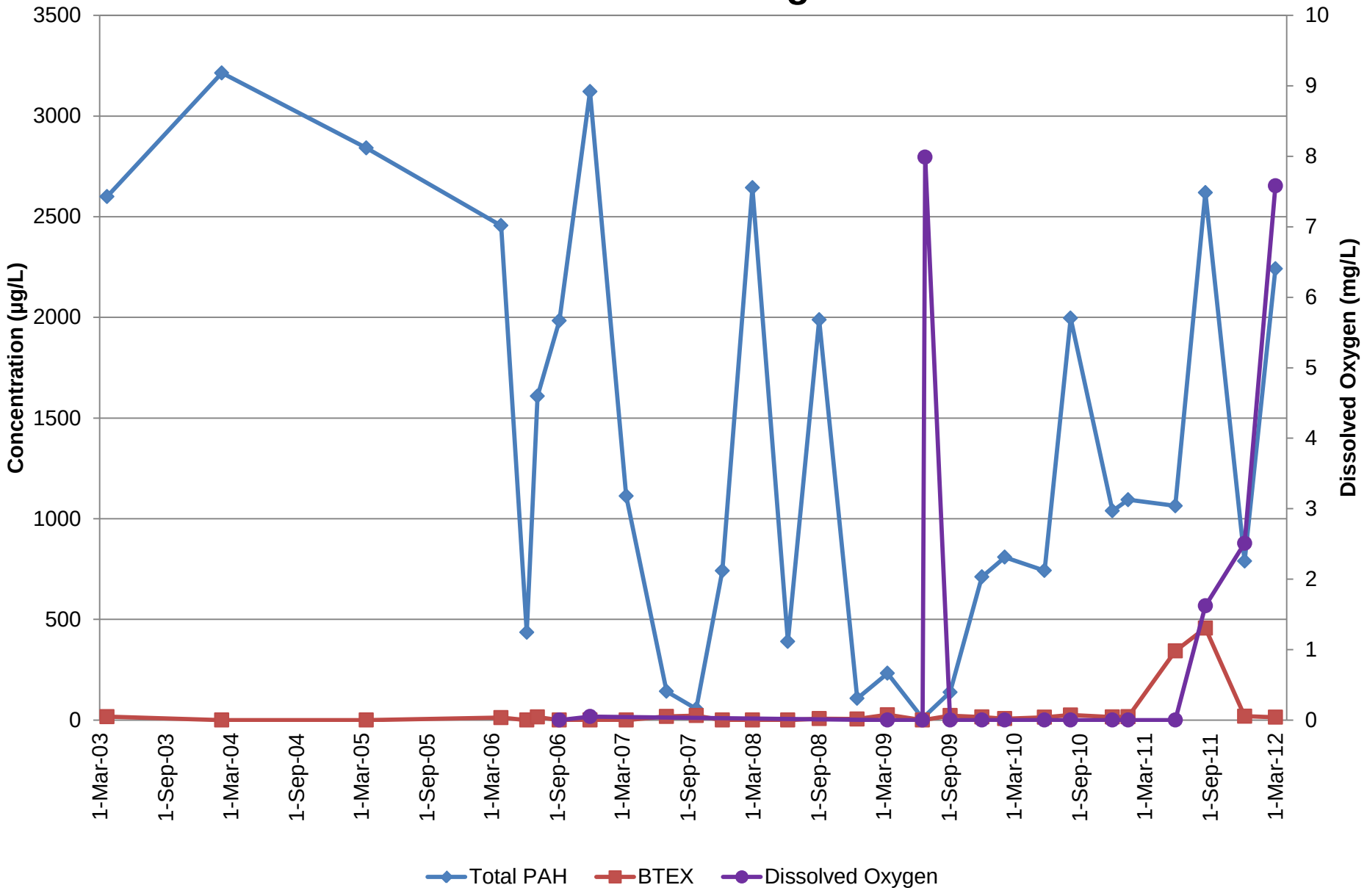



Monitoring Well MW-03D
35-45 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Dec-07
1-Mar-08
1-Jun-08
1-Sep-08
1-Dec-08
1-Mar-09
1-Jun-09
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
Total PAH
BTEX
Dissolved Oxygen

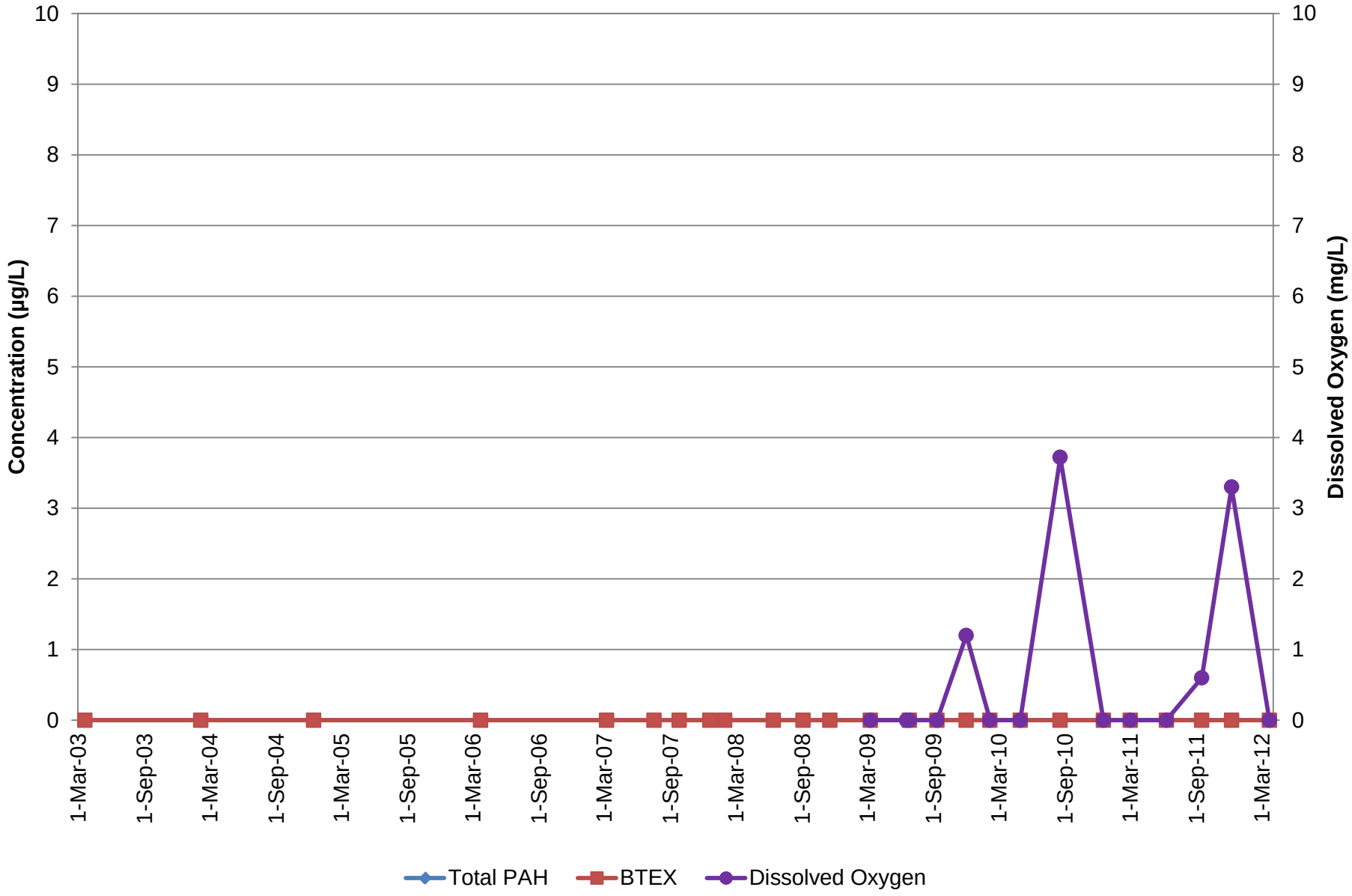
Monitoring Well MW-05S
4-14 ft bgs



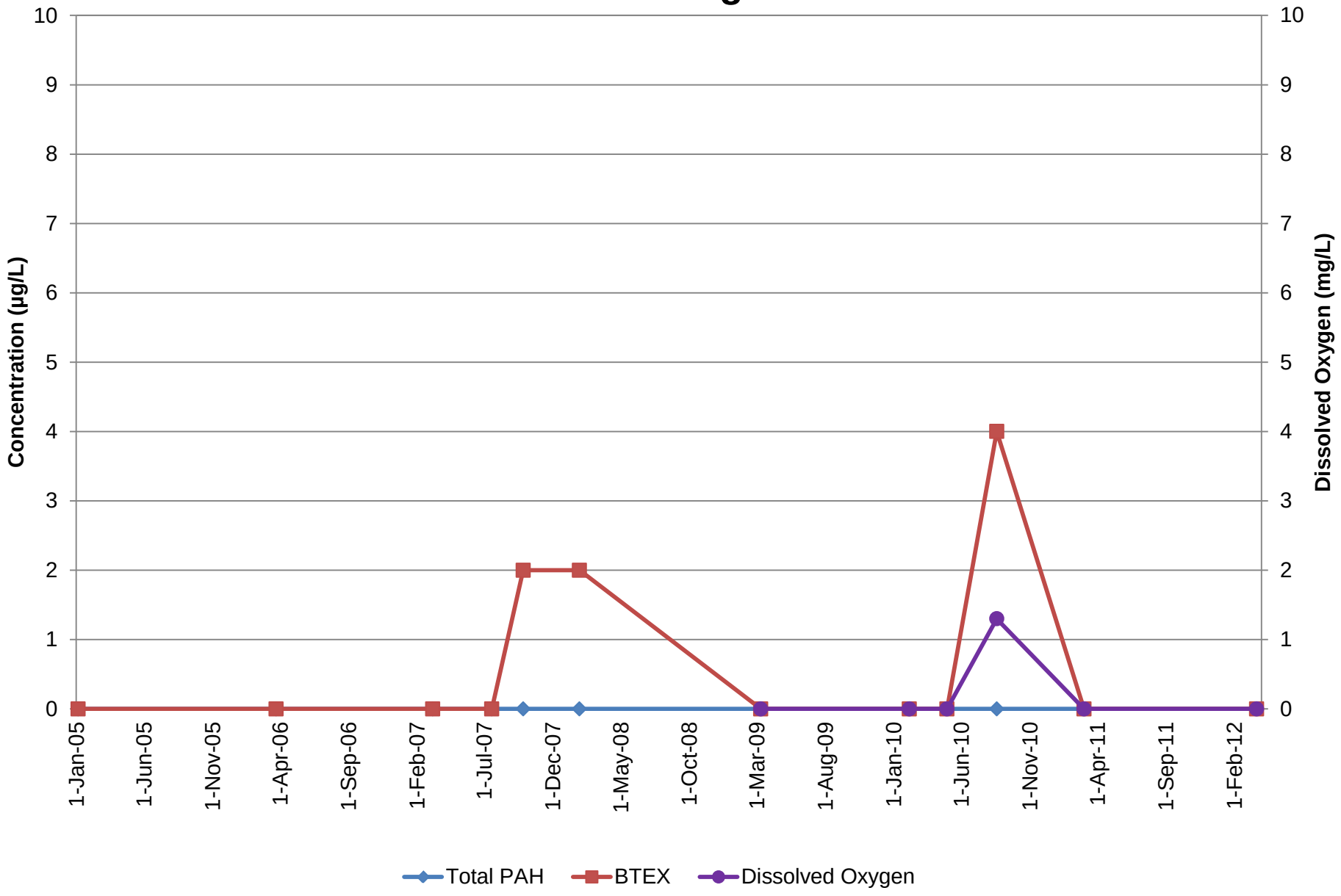
Monitoring Well MW-05D
35.5 - 45.5 ft bgs



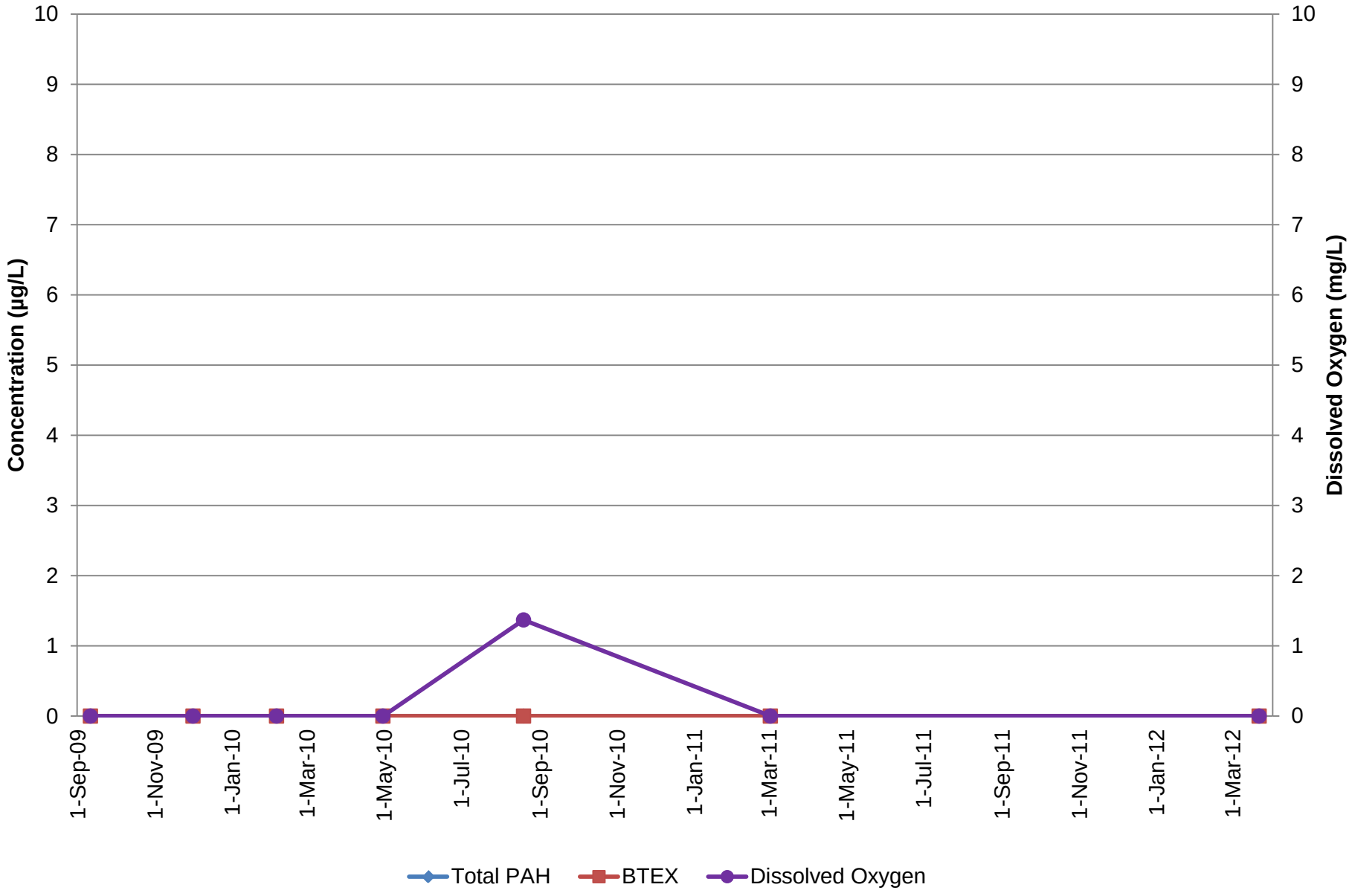
Monitoring Well MW-09S
4-14 ft bgs

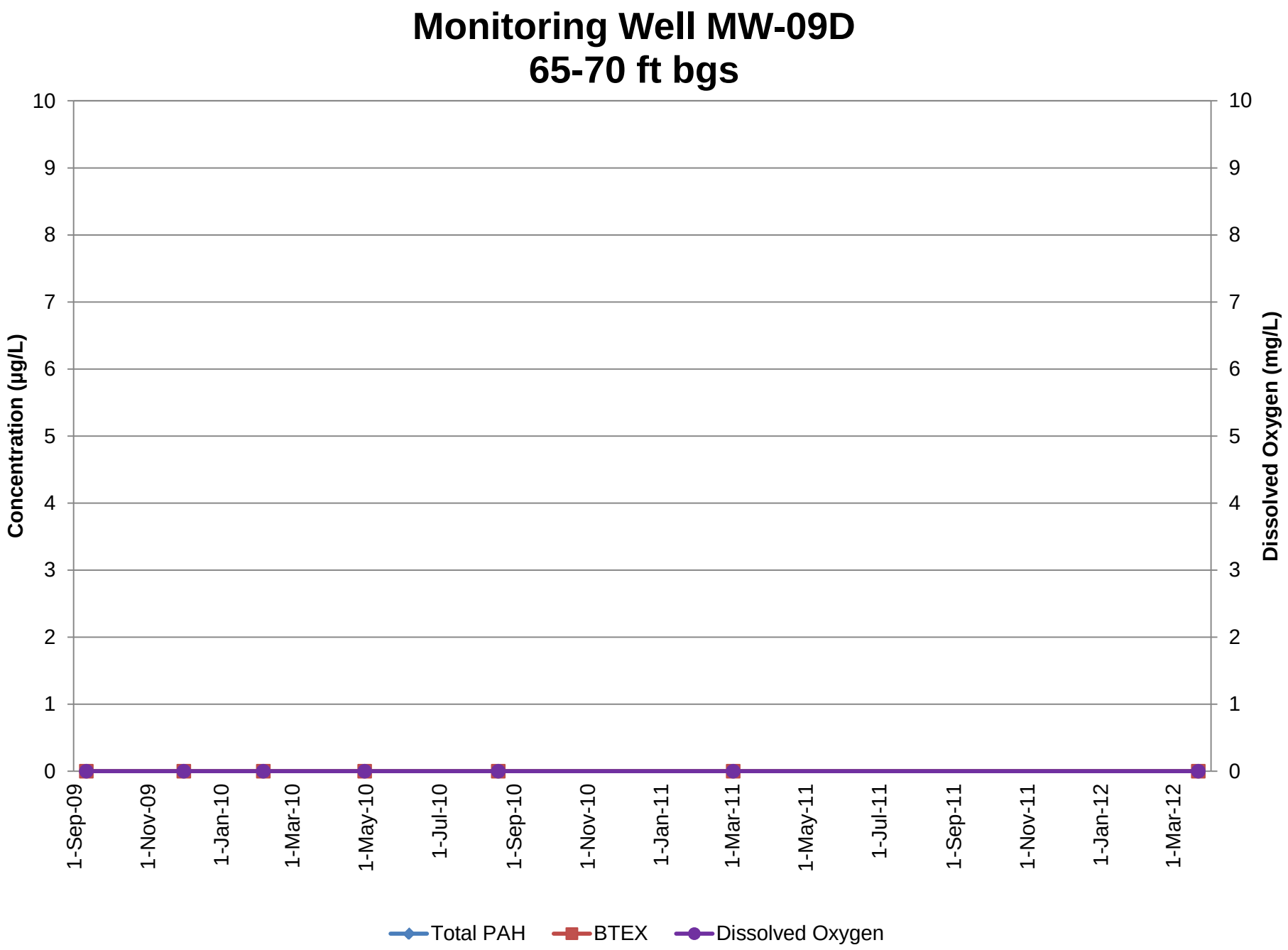


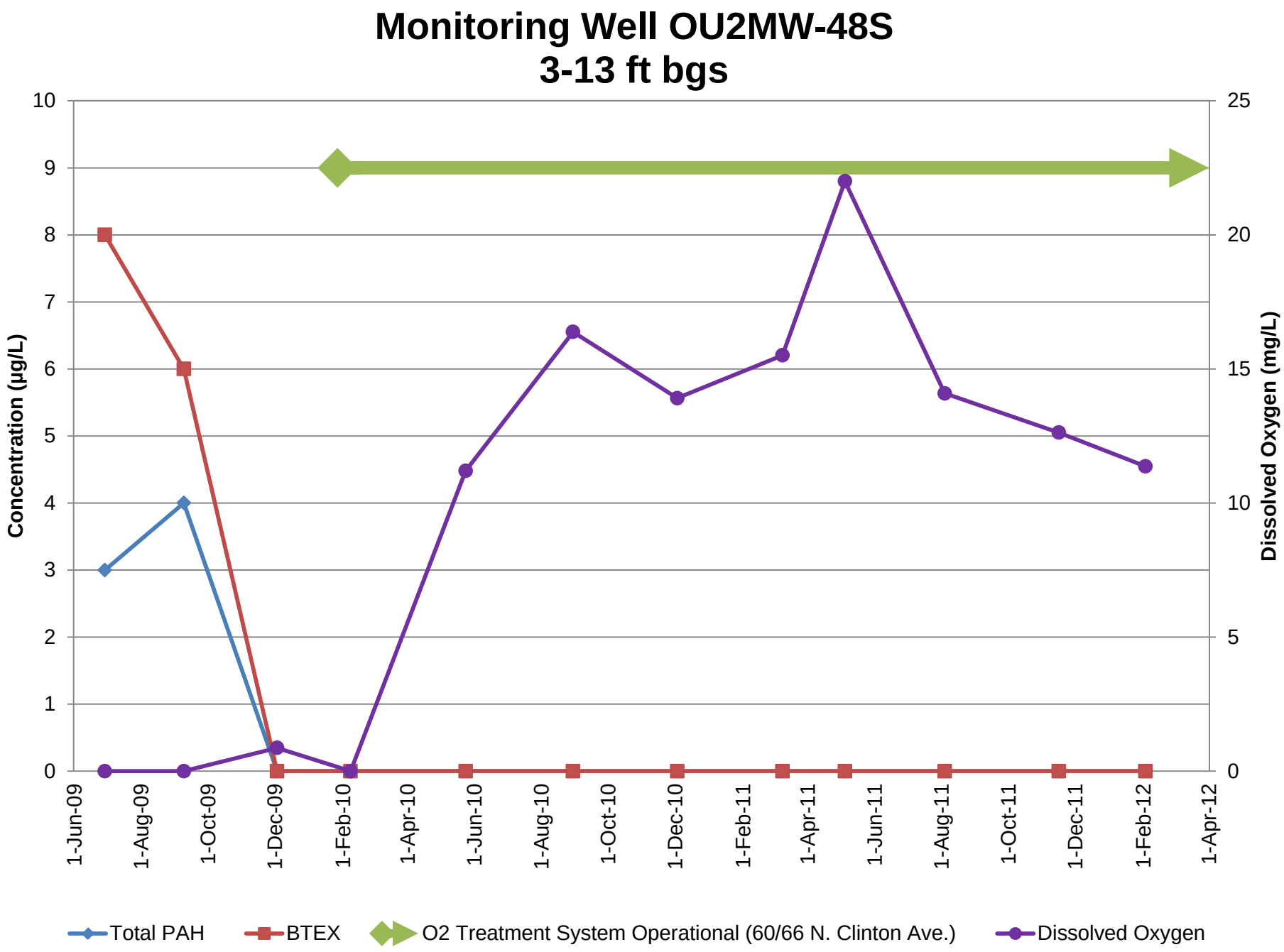
Monitoring Well MW-09I
30-40 ft bgs

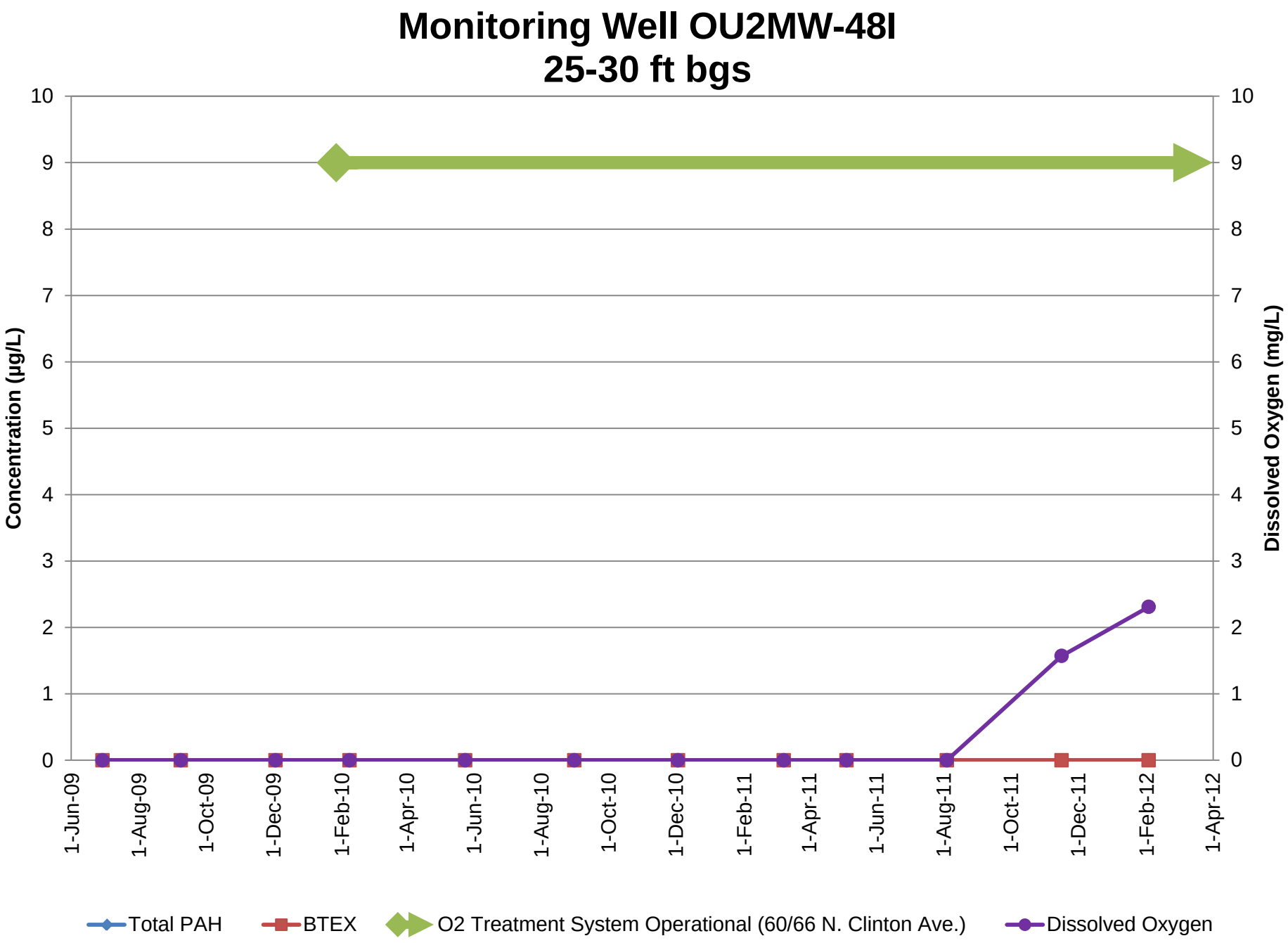


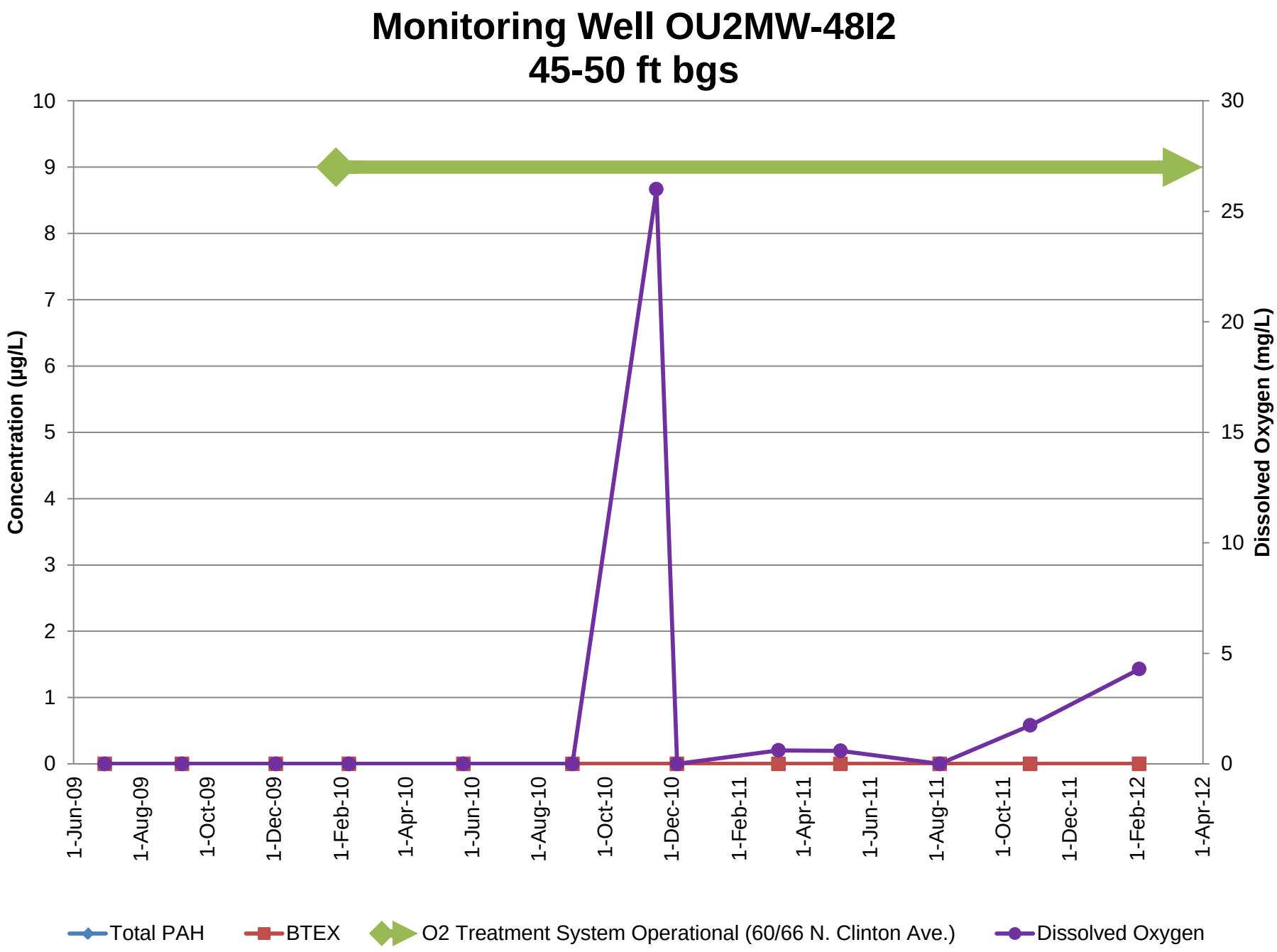
Monitoring Well MW-09I2
45-50 ft bgs

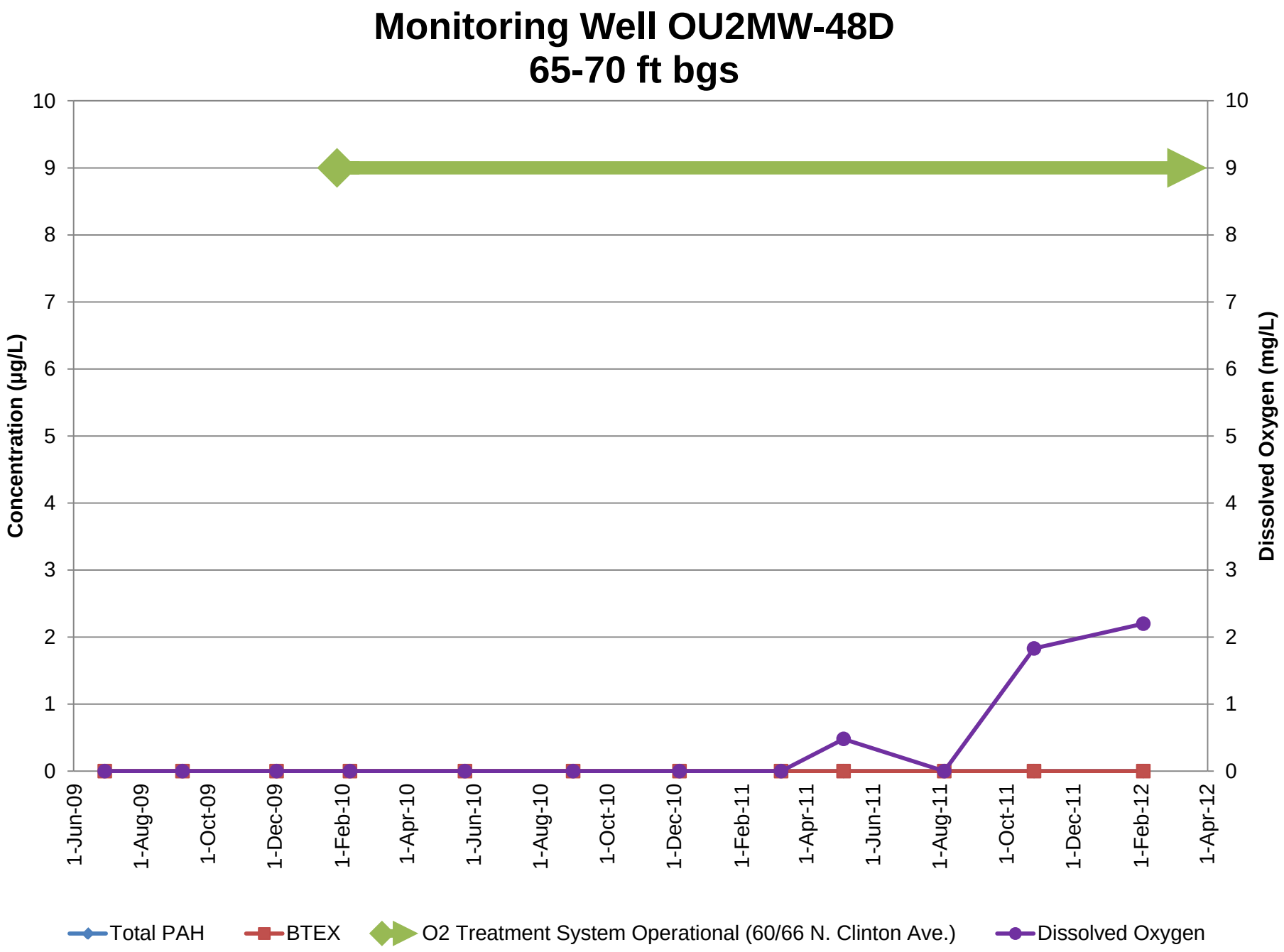



Monitoring Well MW-09D
65-70 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Sep-09
1-Nov-09
1-Jan-10
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
Total PAH
BTEX
Dissolved Oxygen

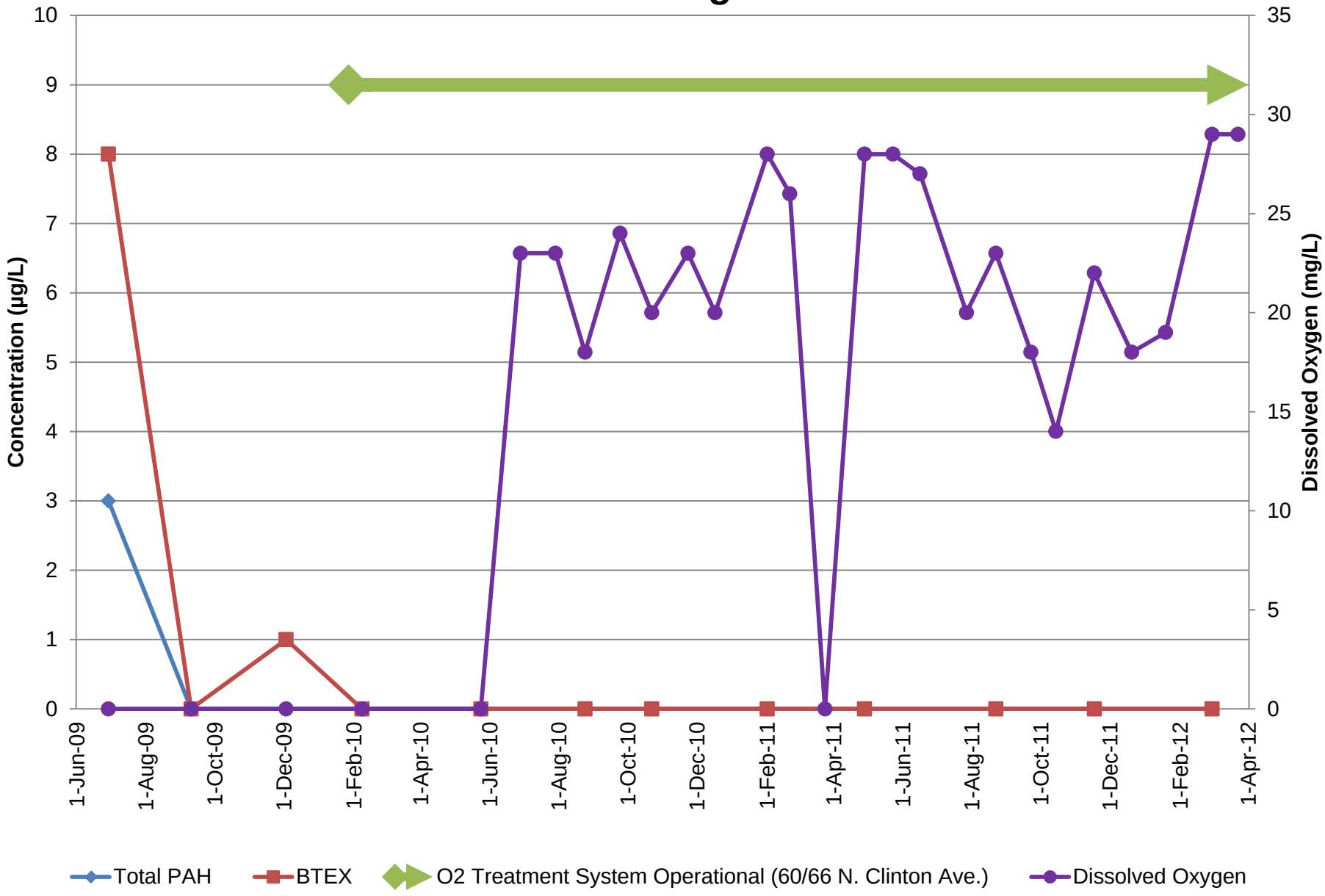

Monitoring Well OU2MW-48S
3-13 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
25
20
15
10
5
0
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (60/66 N. Clinton Ave.)
Dissolved Oxygen

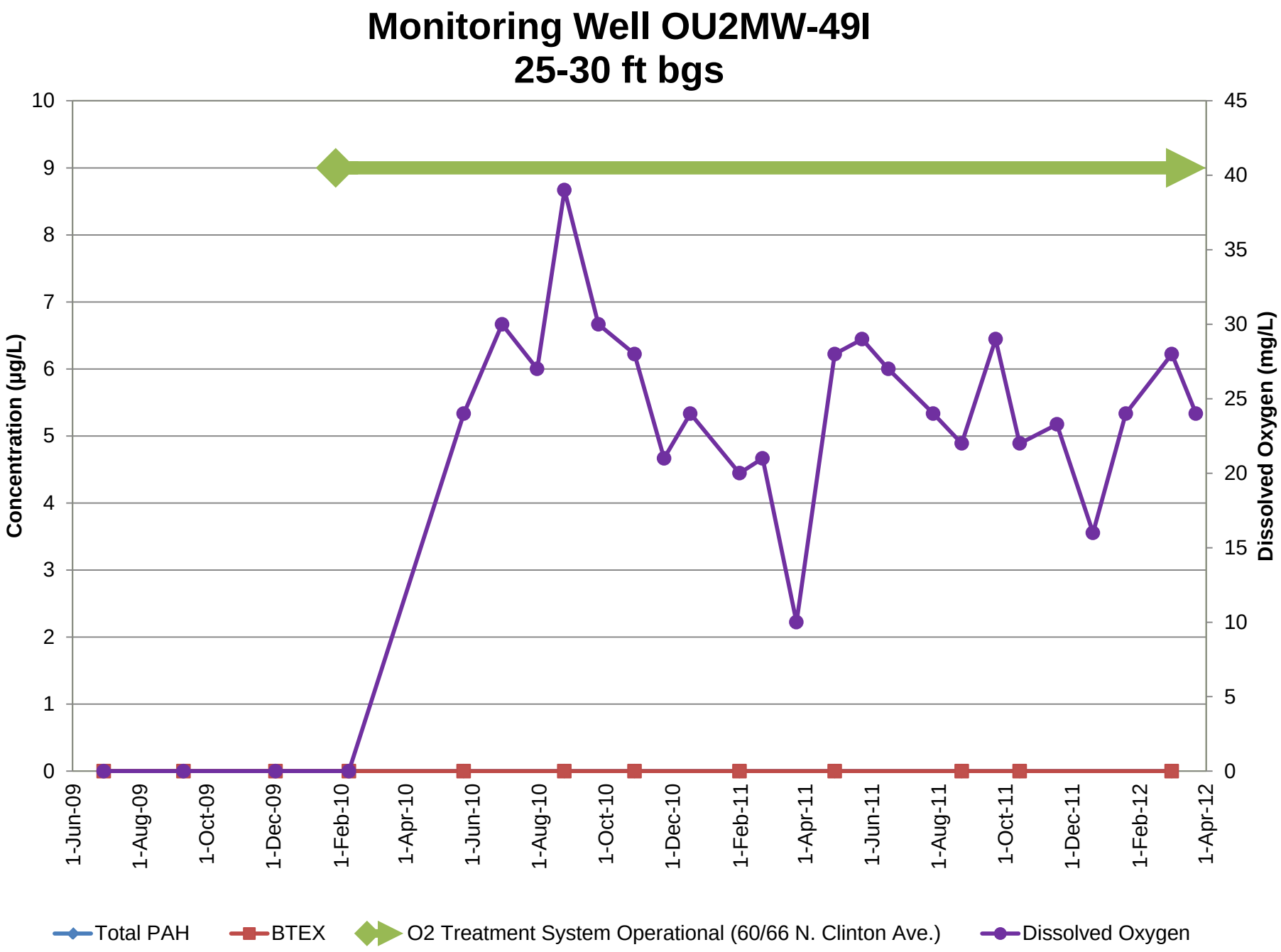

Monitoring Well OU2MW-48I
25-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (60/66 N. Clinton Ave.)
Dissolved Oxygen

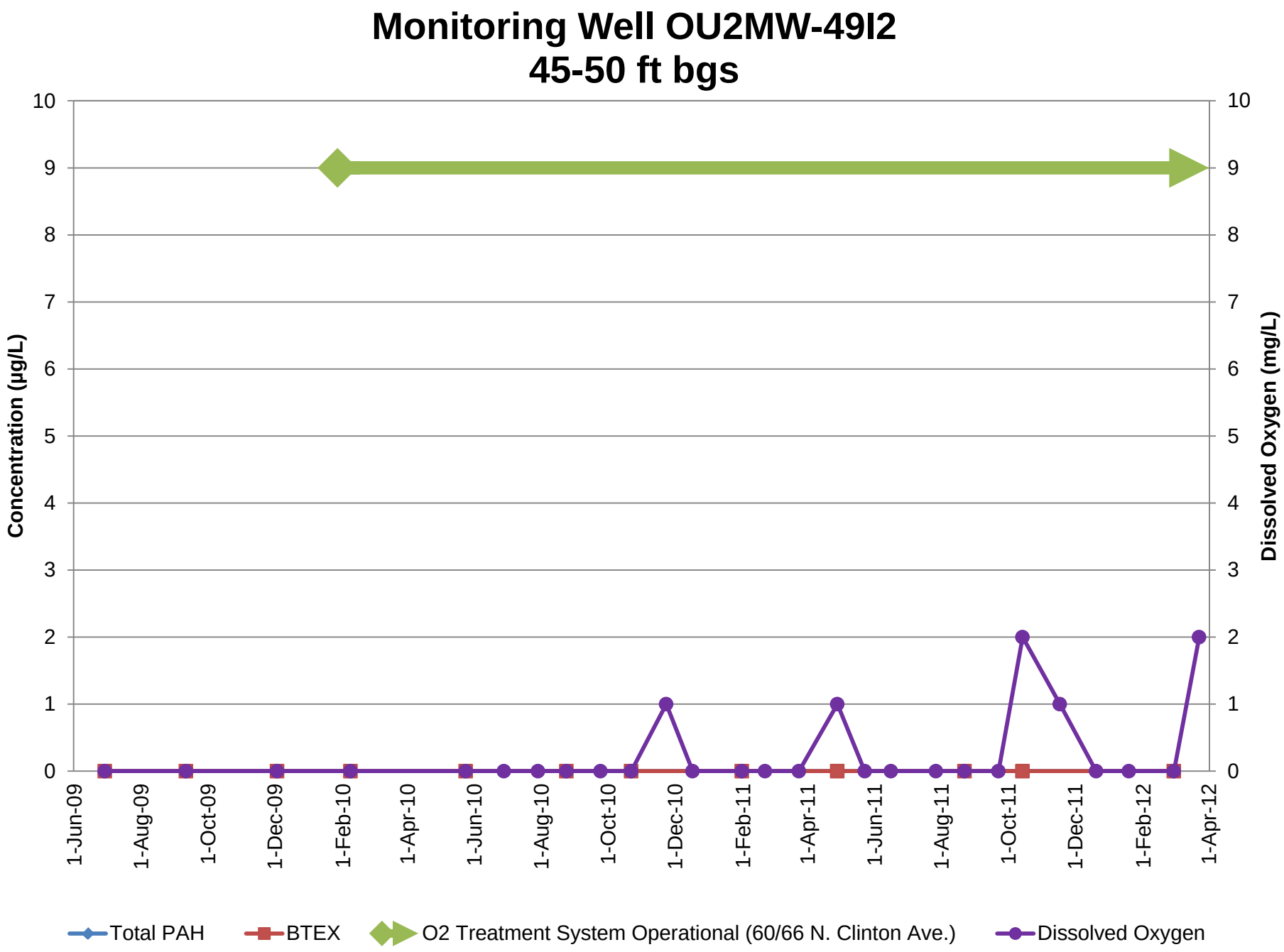

Monitoring Well OU2MW-48I2
45-50 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
0
5
10
15
20
25
30
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (60/66 N. Clinton Ave.)
Dissolved Oxygen

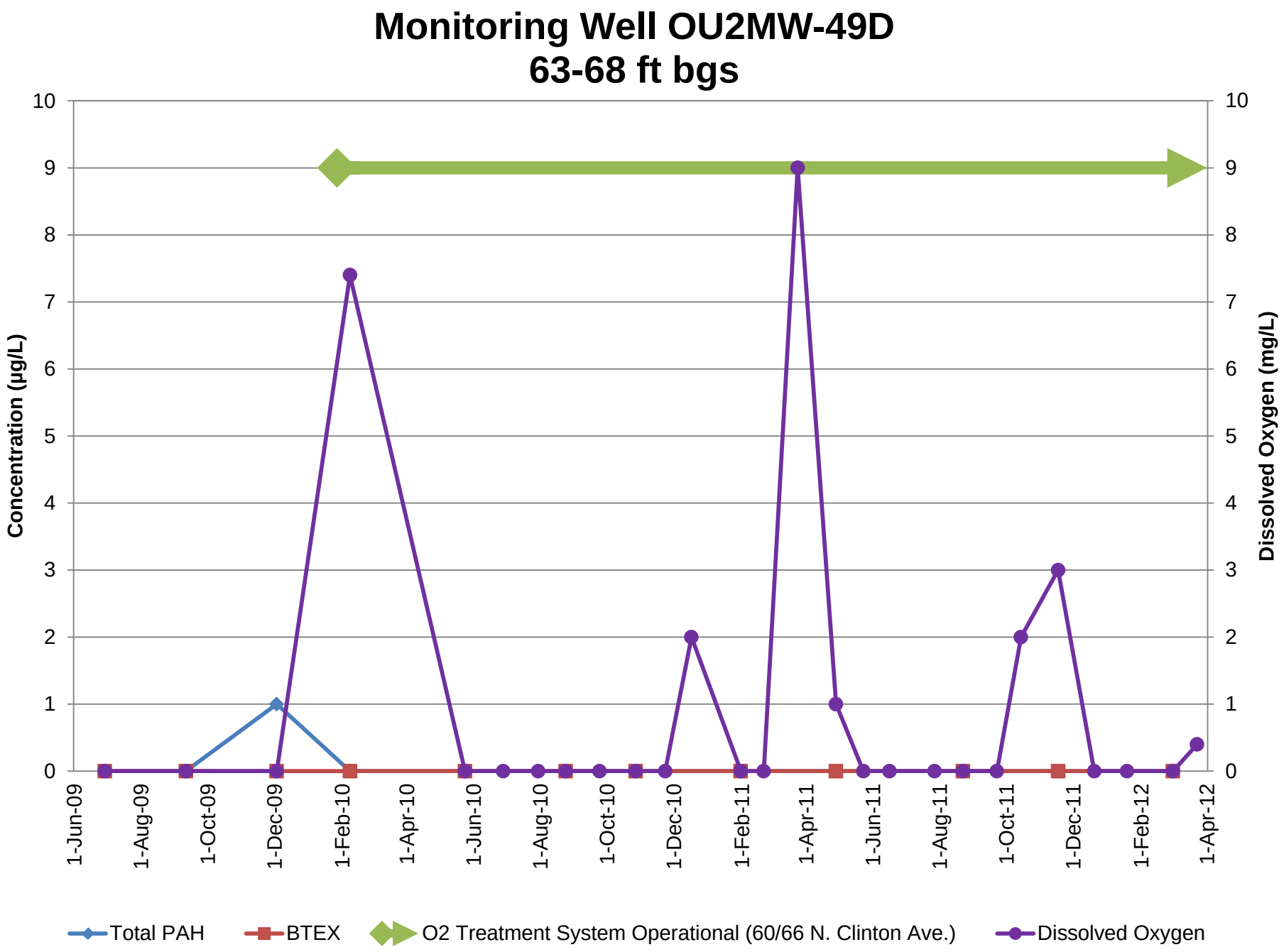

Monitoring Well OU2MW-48D
65-70 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (60/66 N. Clinton Ave.)
Dissolved Oxygen

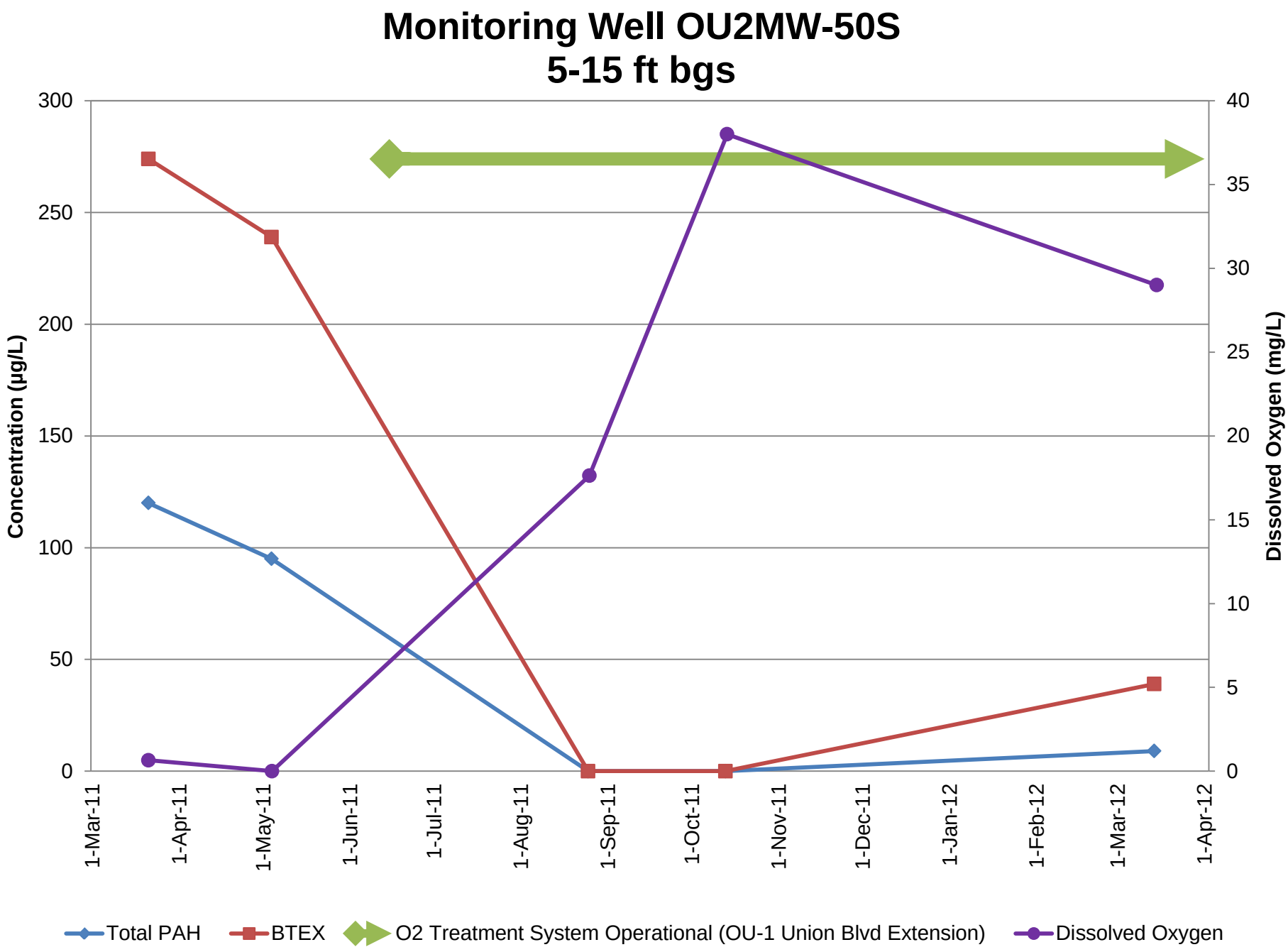
Monitoring Well OU2MW-49S
3-13 ft bgs

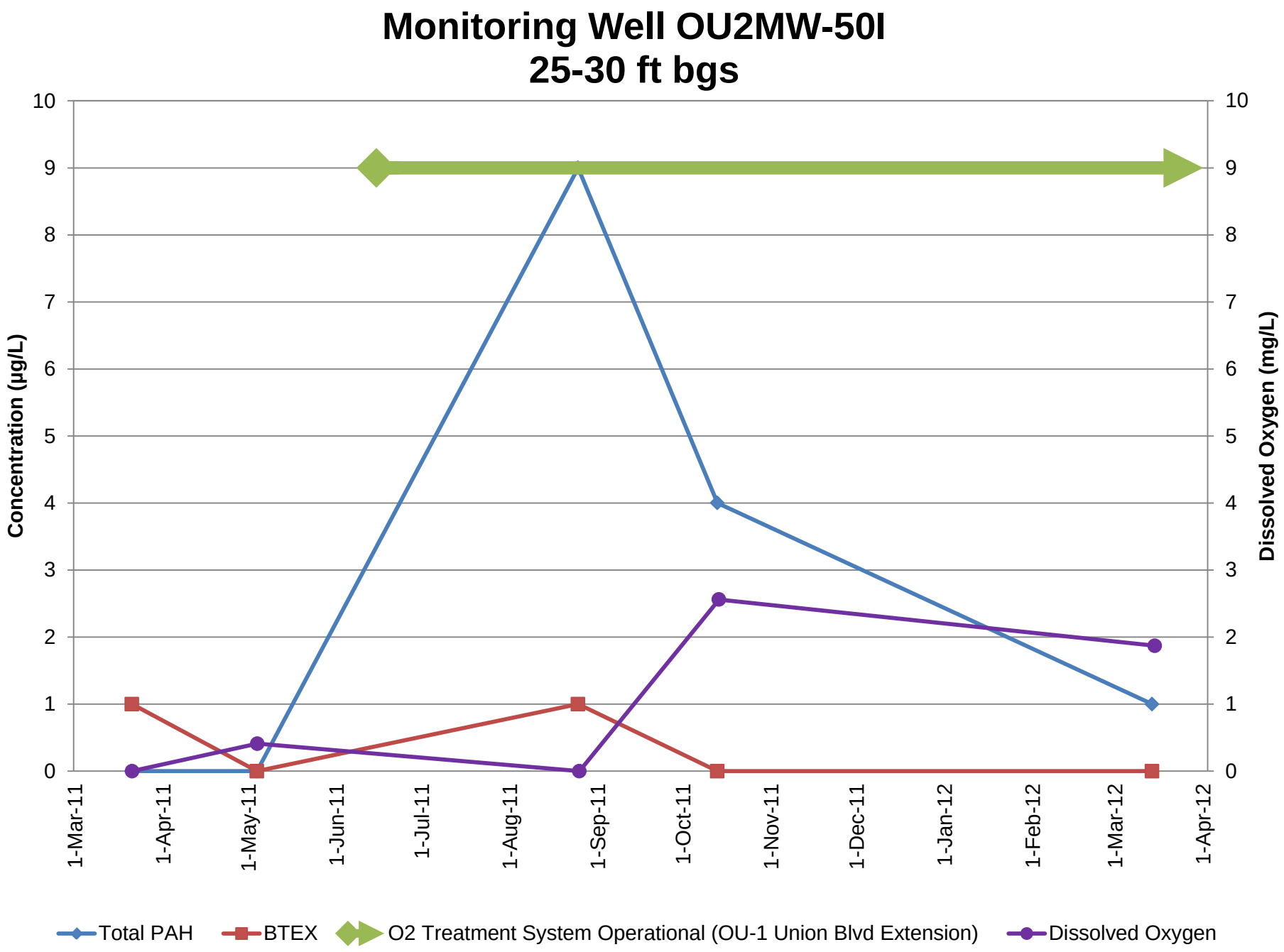



Monitoring Well OU2MW-49I
25-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
0
5
10
15
20
25
30
35
40
45
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (60/66 N. Clinton Ave.)
Dissolved Oxygen

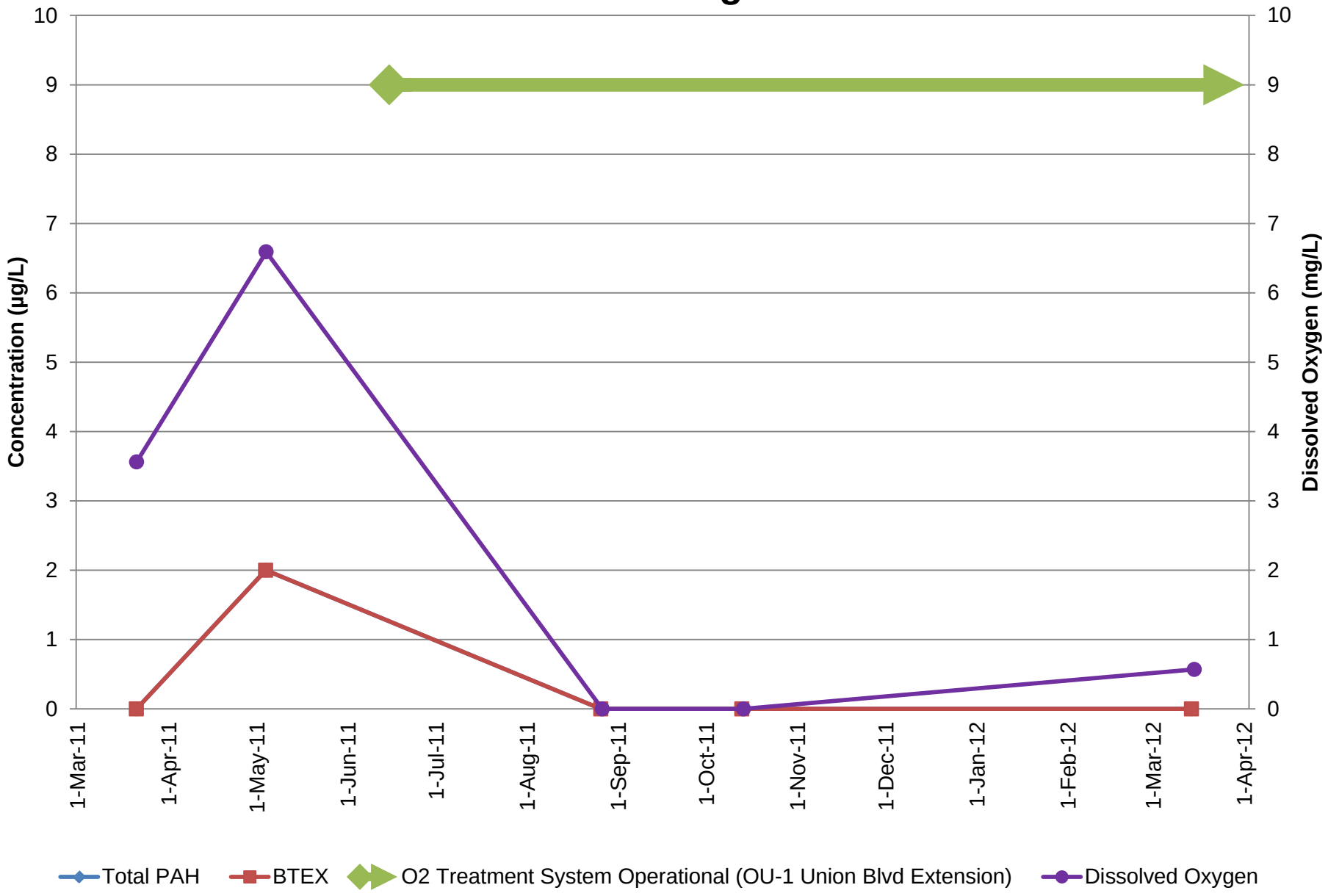

Monitoring Well OU2MW-49I2
45-50 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (60/66 N. Clinton Ave.)
Dissolved Oxygen


Monitoring Well OU2MW-49D
63-68 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (60/66 N. Clinton Ave.)
Dissolved Oxygen

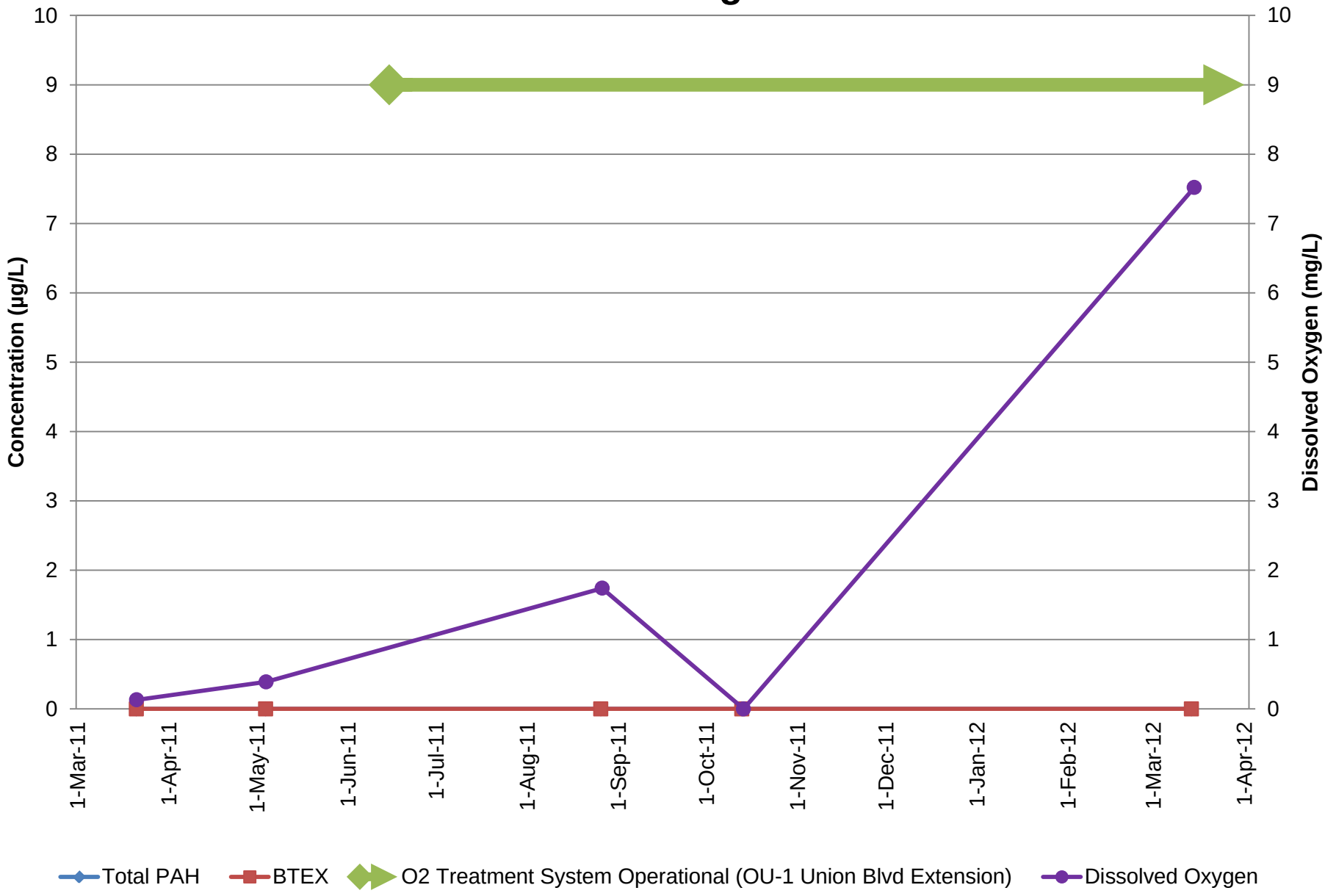

Monitoring Well OU2MW-50S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
300
250
200
150
100
50
0
40
35
30
25
20
15
10
5
0
1-Mar-11
1-Apr-11
1-May-11
1-Jun-11
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (OU-1 Union Blvd Extension)
Dissolved Oxygen

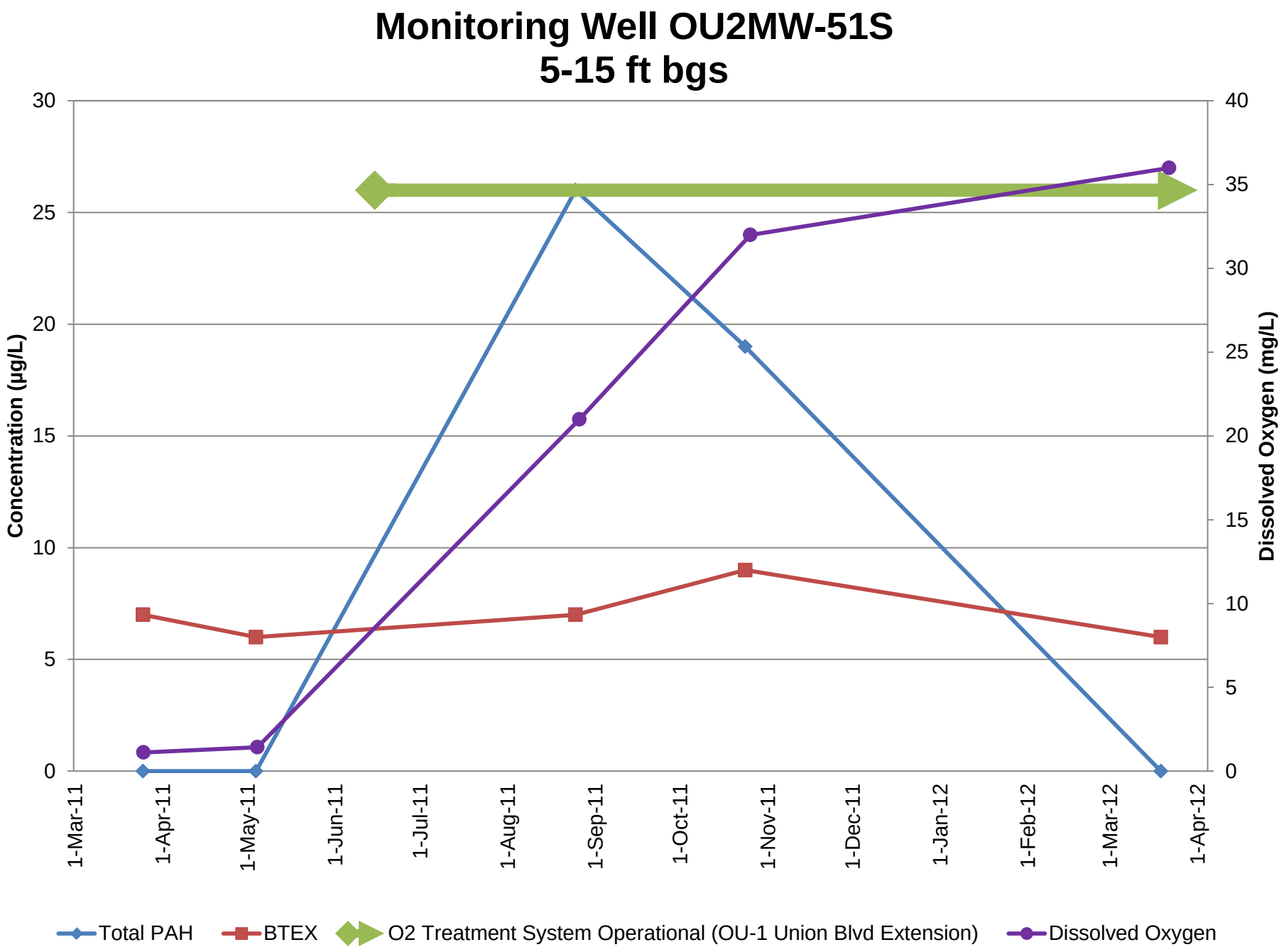

Monitoring Well OU2MW-50I
25-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Mar-11
1-Apr-11
1-May-11
1-Jun-11
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (OU-1 Union Blvd Extension)
Dissolved Oxygen

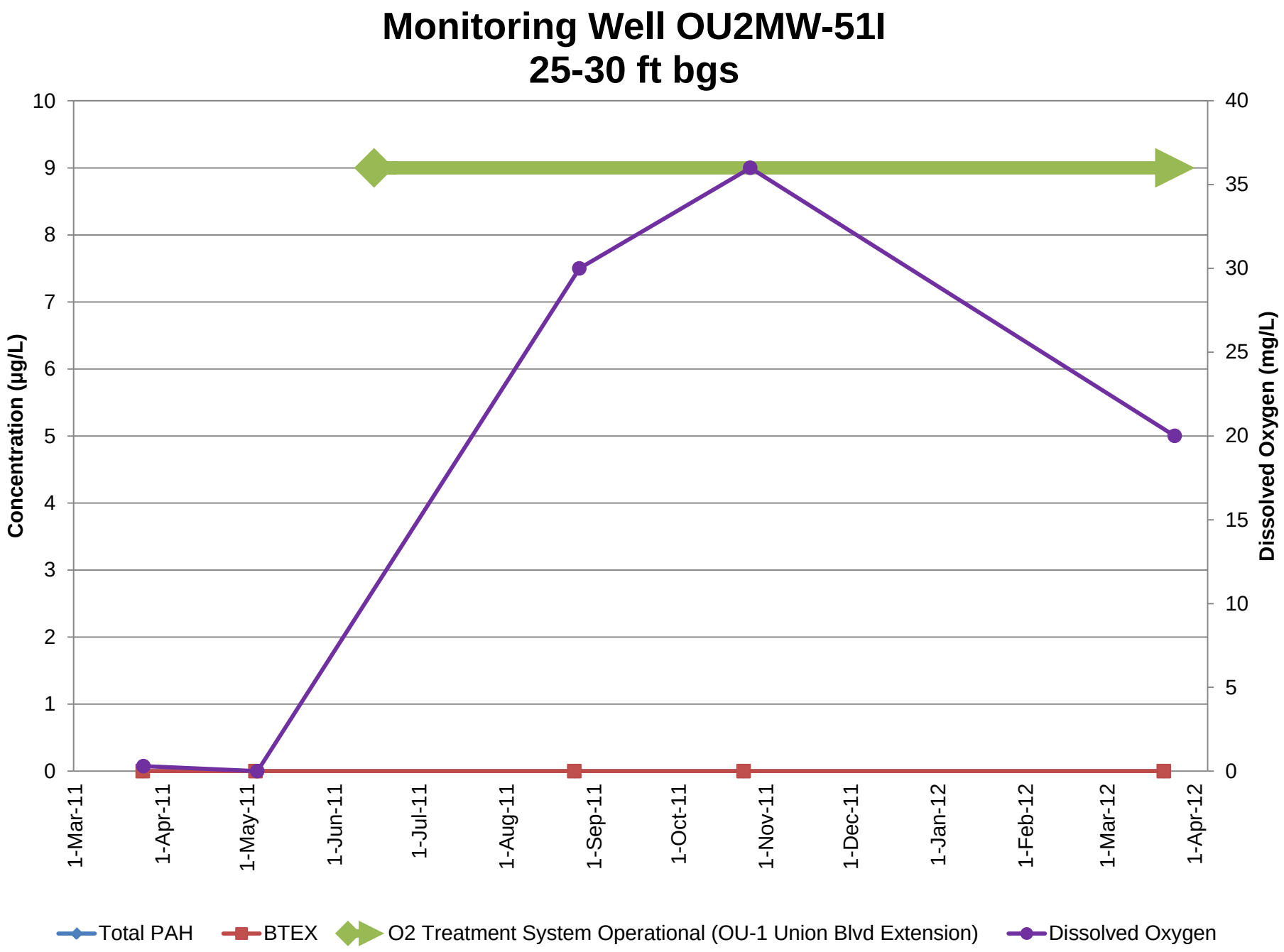
Monitoring Well OU2MW-50I2
45-50 ft bgs

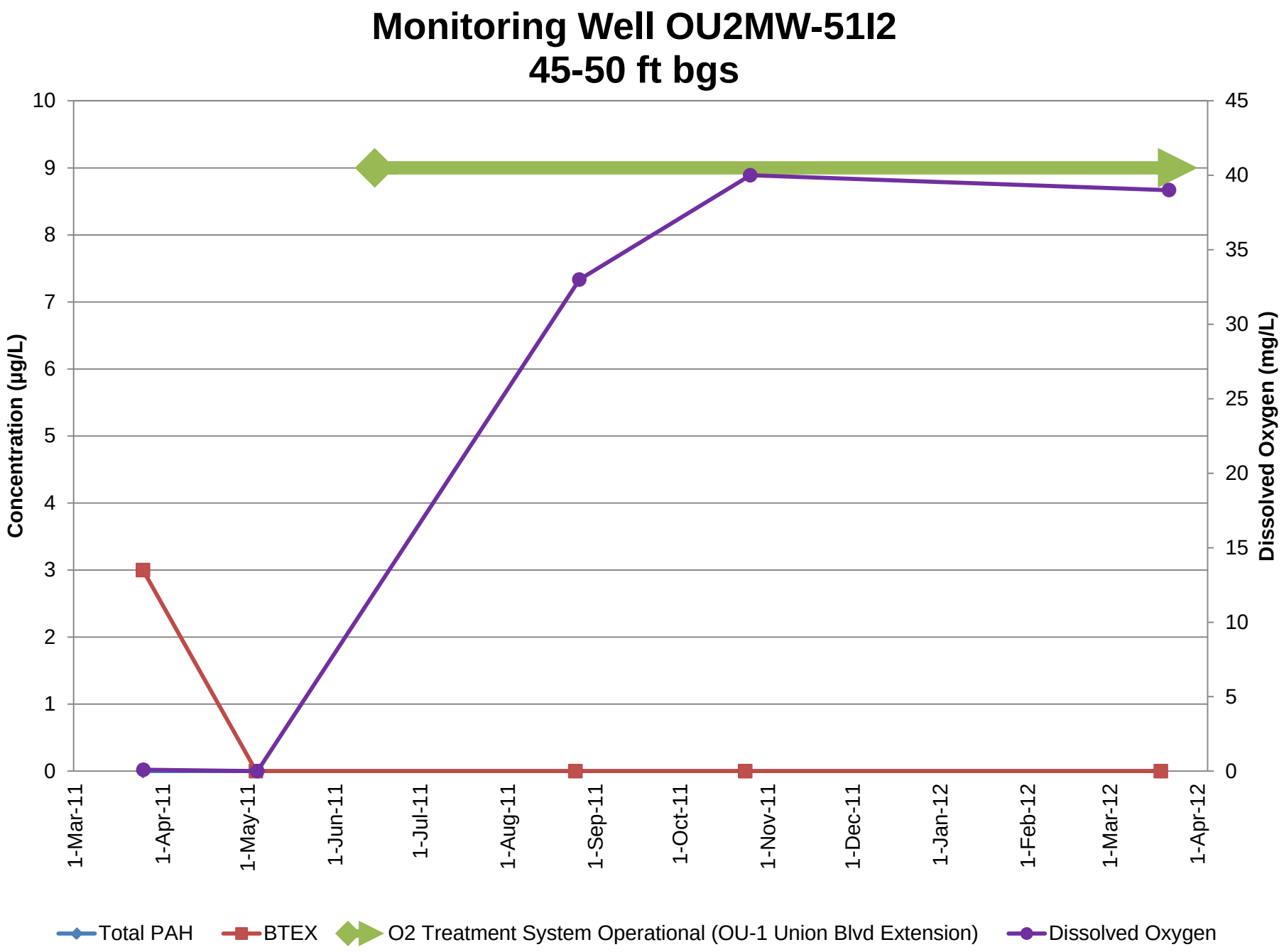


Monitoring Well OU2MW-50D
65-70 ft bgs

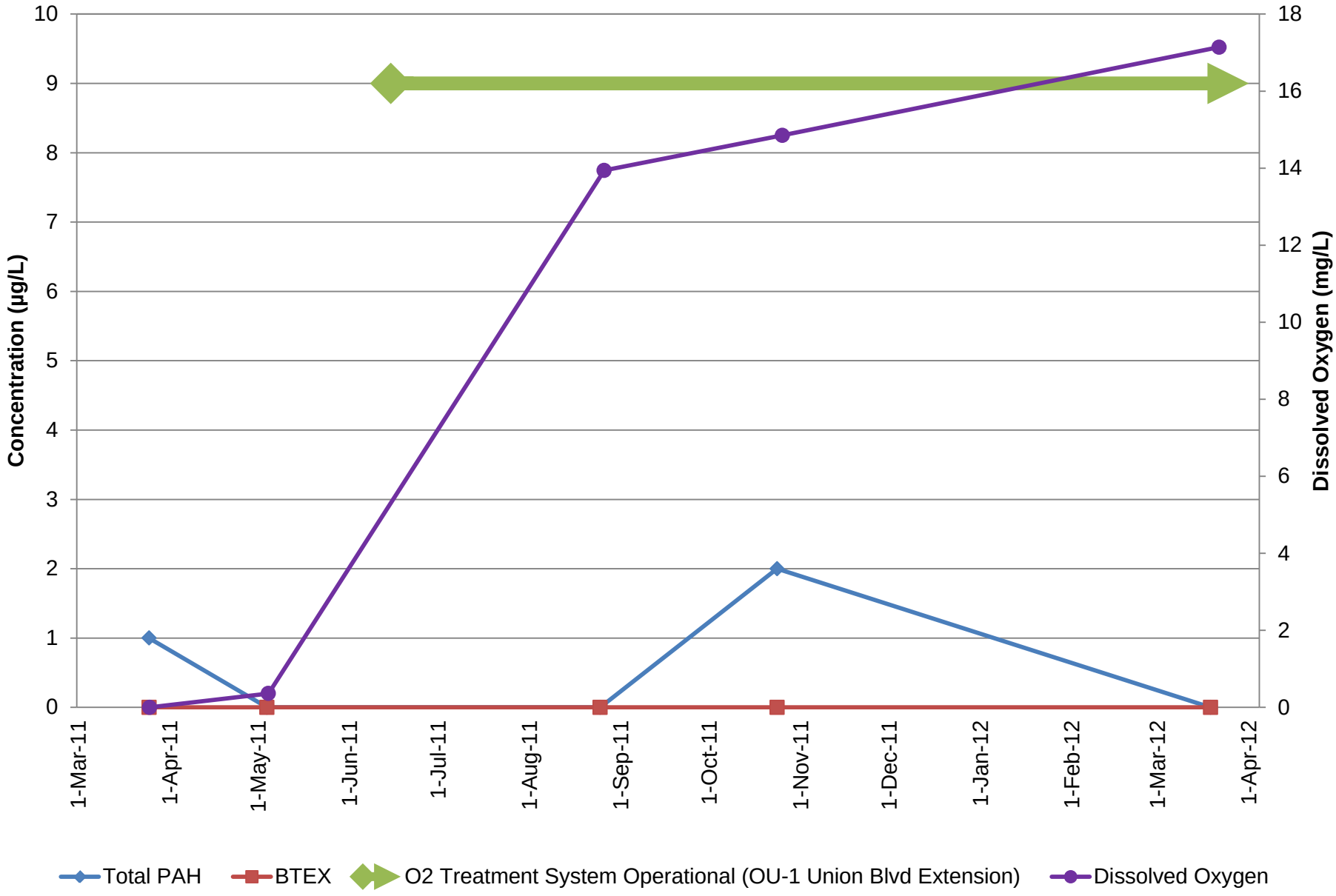



Monitoring Well OU2MW-51S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
5
10
15
20
25
30
35
40
1-Mar-11
1-Apr-11
1-May-11
1-Jun-11
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (OU-1 Union Blvd Extension)
Dissolved Oxygen

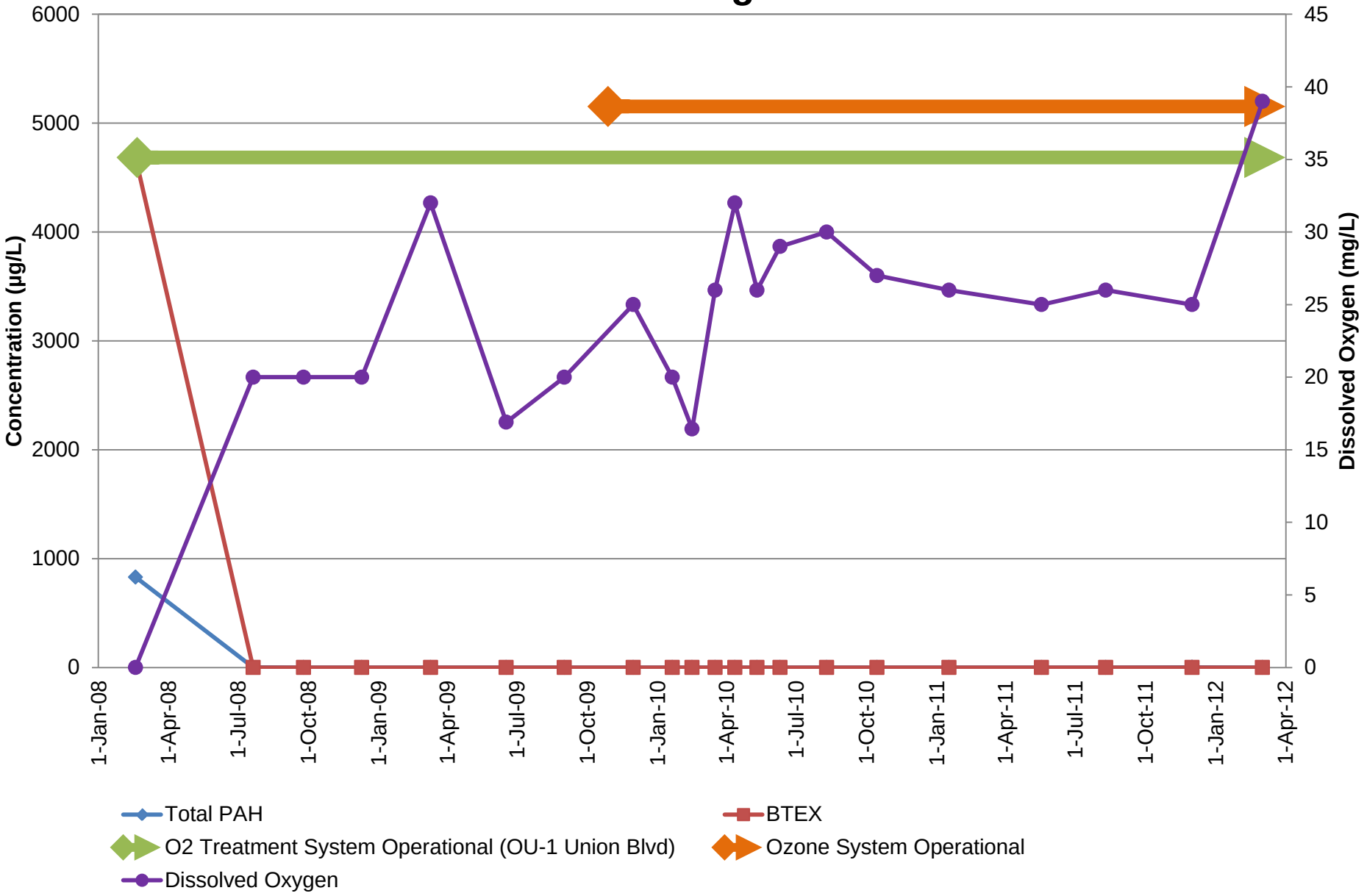

Monitoring Well OU2MW-51I
25-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
0
5
10
15
20
25
30
35
40
1-Mar-11
1-Apr-11
1-May-11
1-Jun-11
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (OU-1 Union Blvd Extension)
Dissolved Oxygen


Monitoring Well OU2MW-51I2
45-50 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
45
40
35
30
25
20
15
10
5
0
1-Mar-11
1-Apr-11
1-May-11
1-Jun-11
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (OU-1 Union Blvd Extension)
Dissolved Oxygen

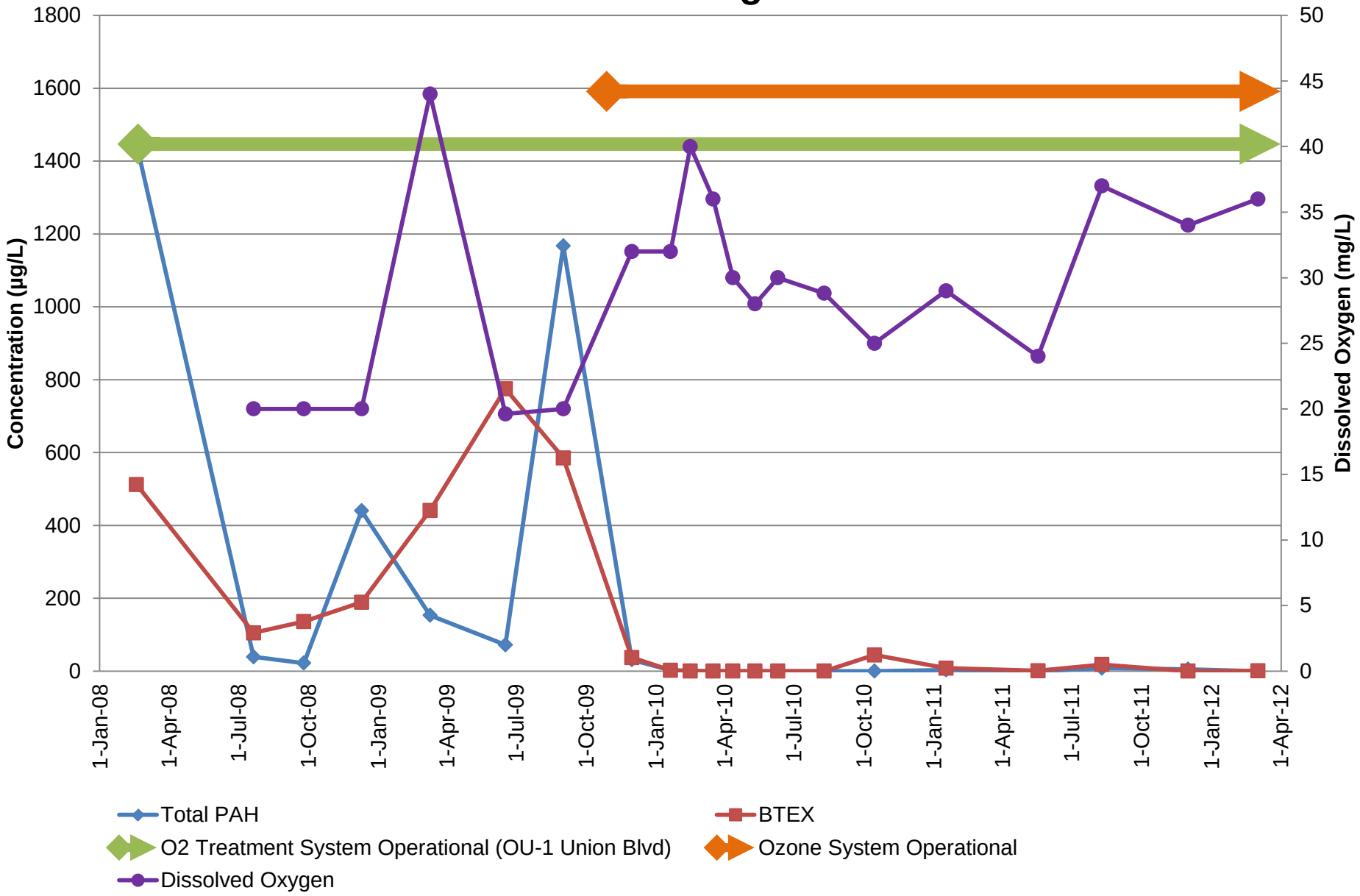
Monitoring Well OU2MW-51D
61-66 ft bgs



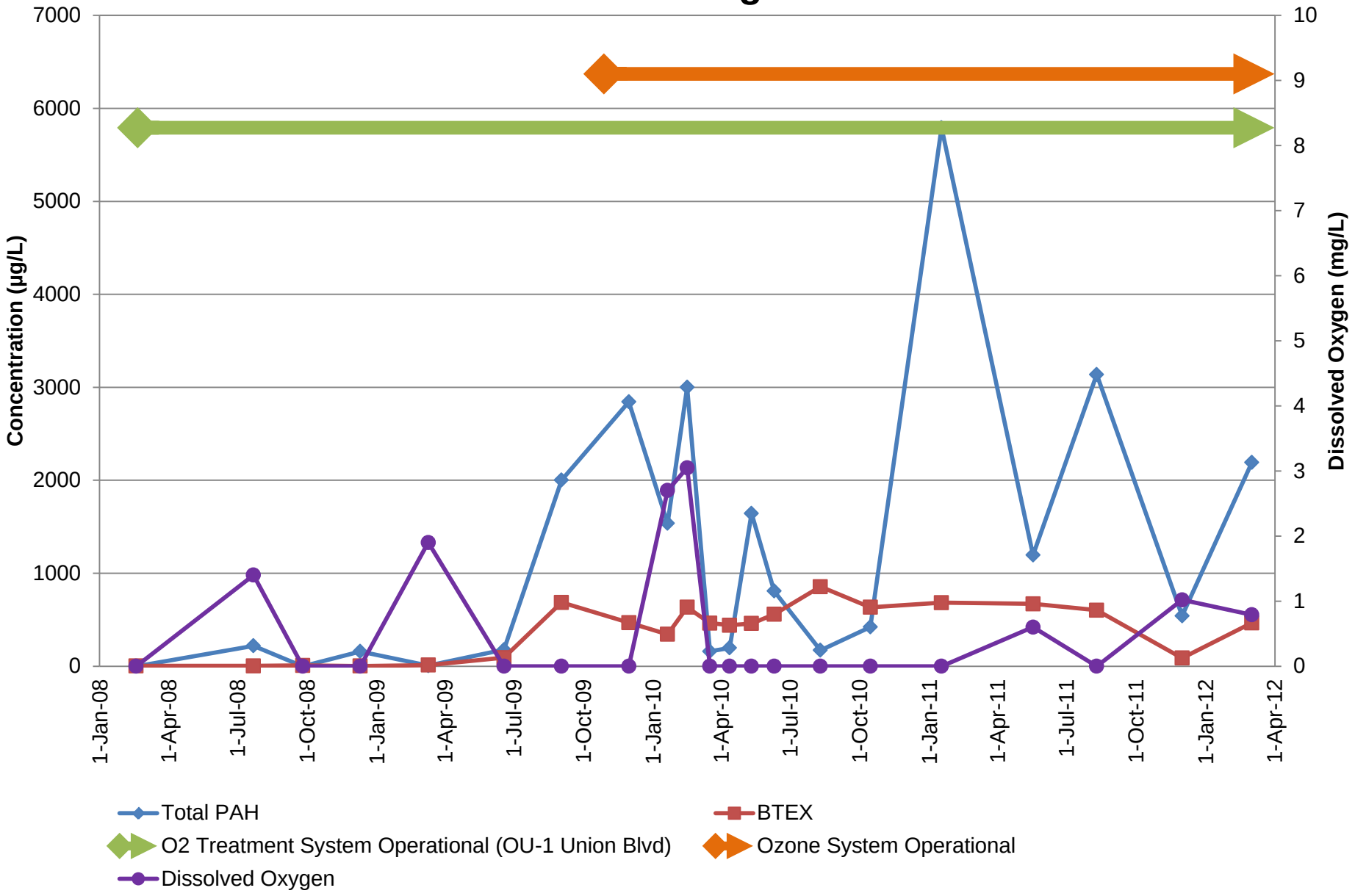
Monitoring Well OZMW-16S
5-15 ft bgs



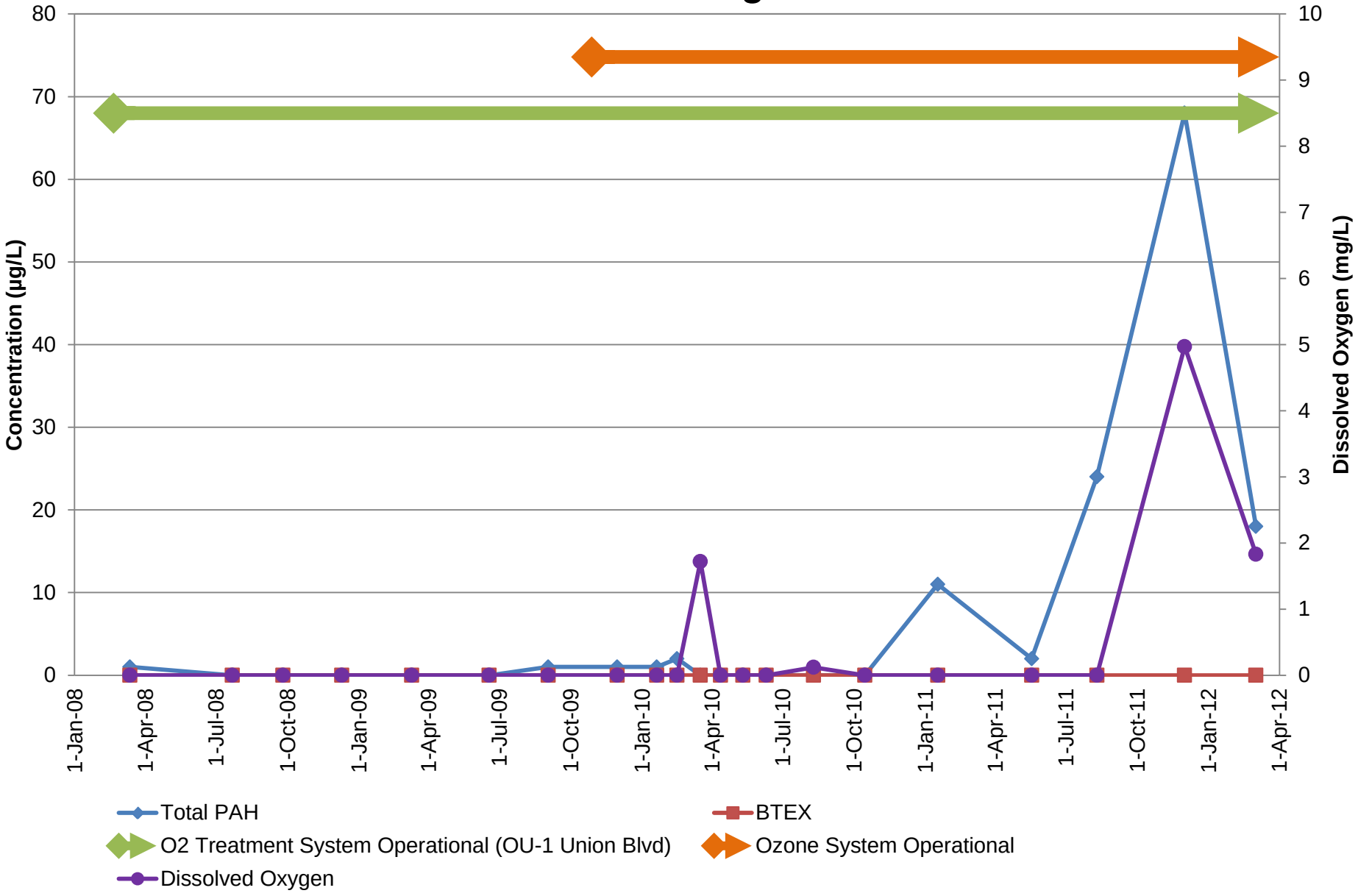
Monitoring Well OZMW-16I
20-30 ft bgs



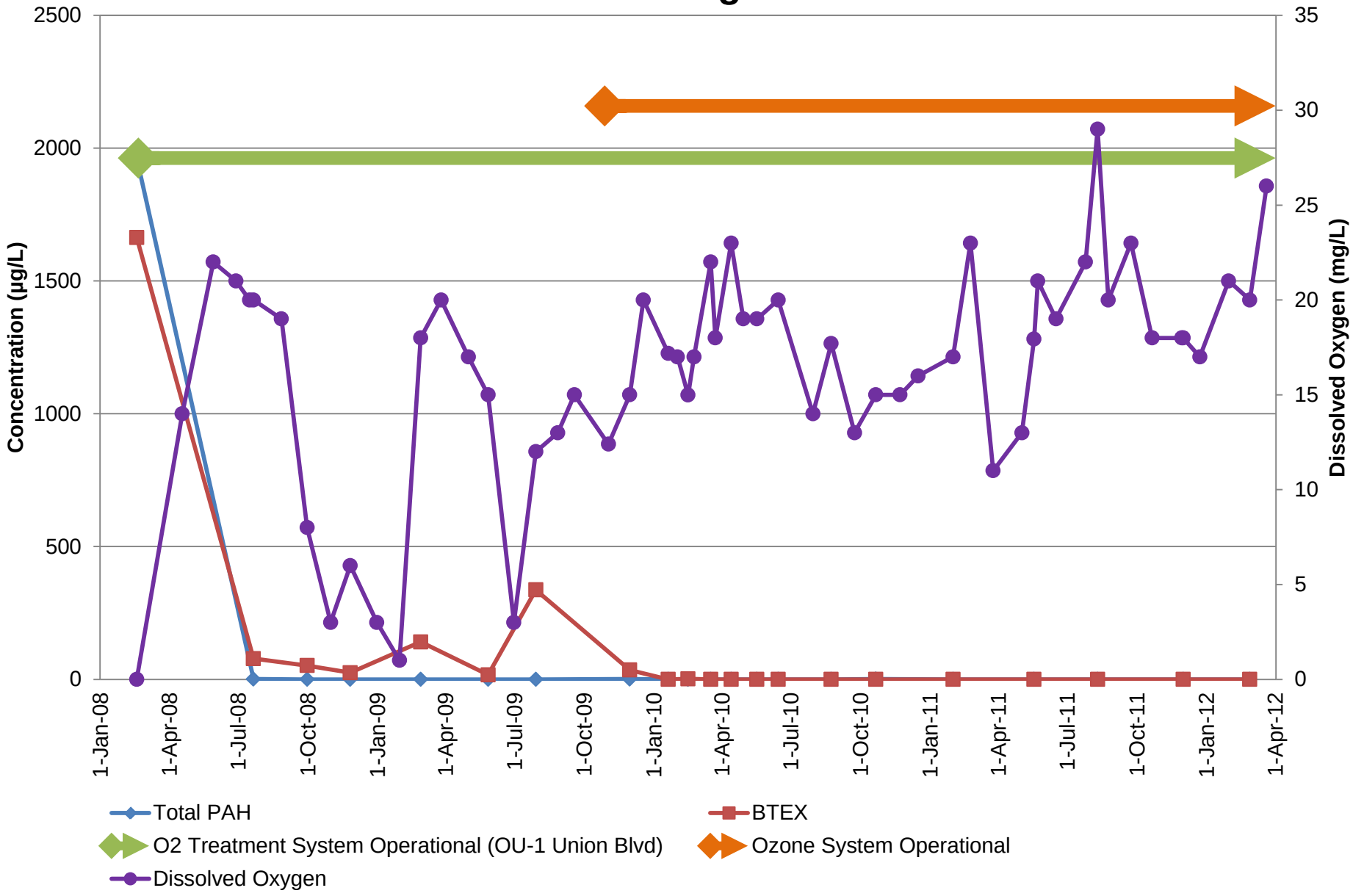
Monitoring Well OZMW-16I2
35-40 ft bgs

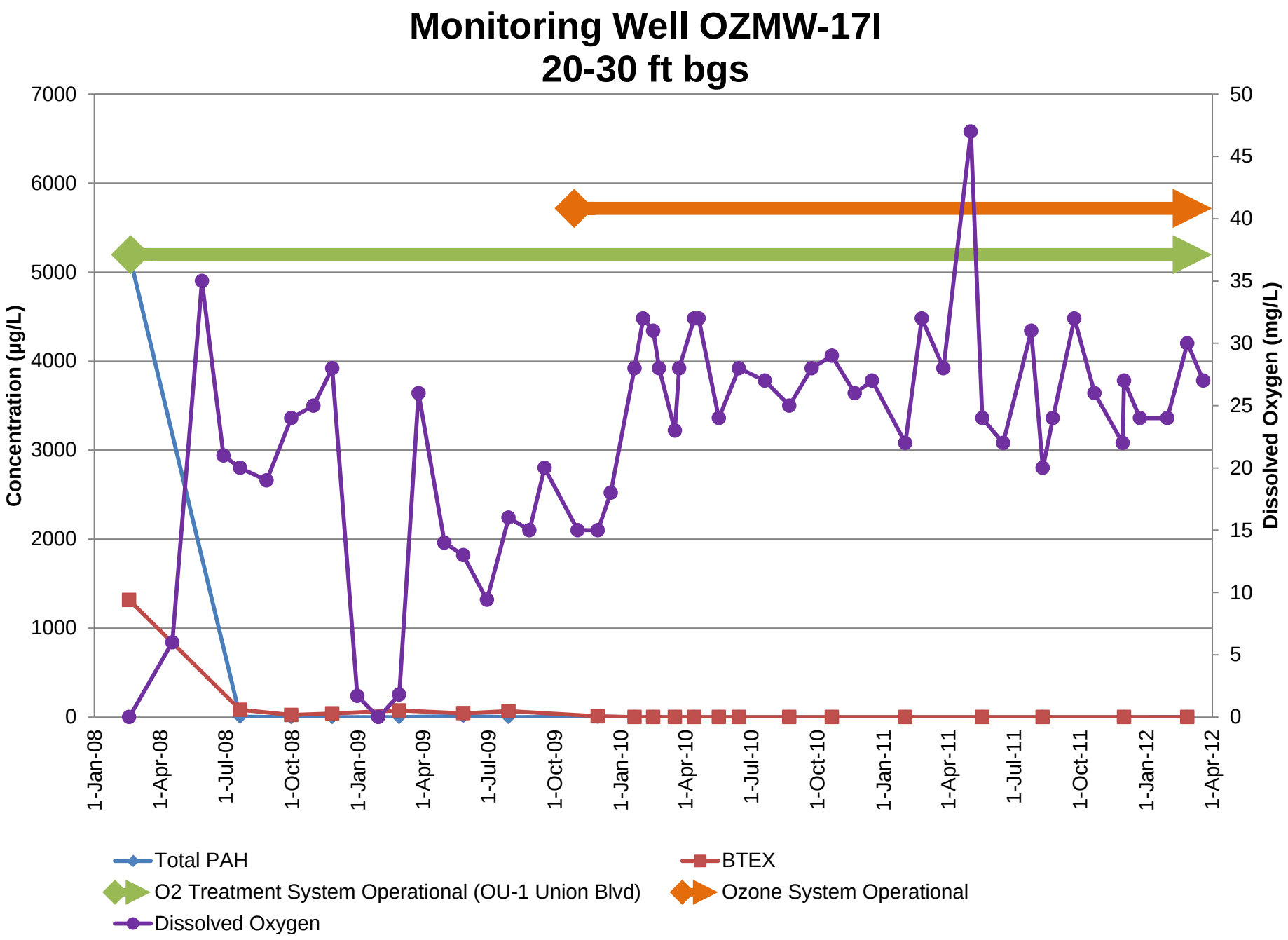


Monitoring Well OZMW-16D
55-65 ft bgs

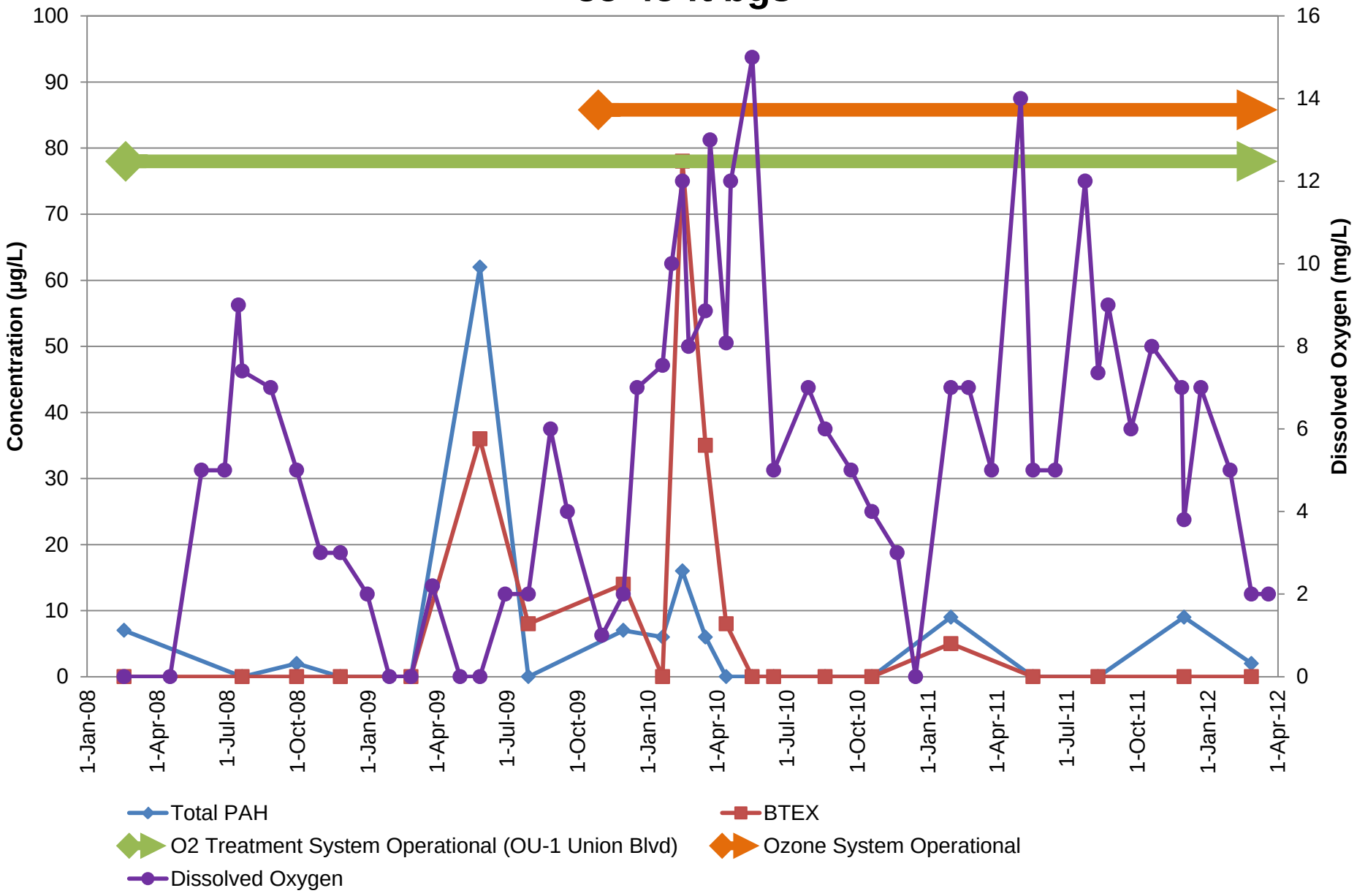


Monitoring Well OZMW-17S
5-15 ft bgs

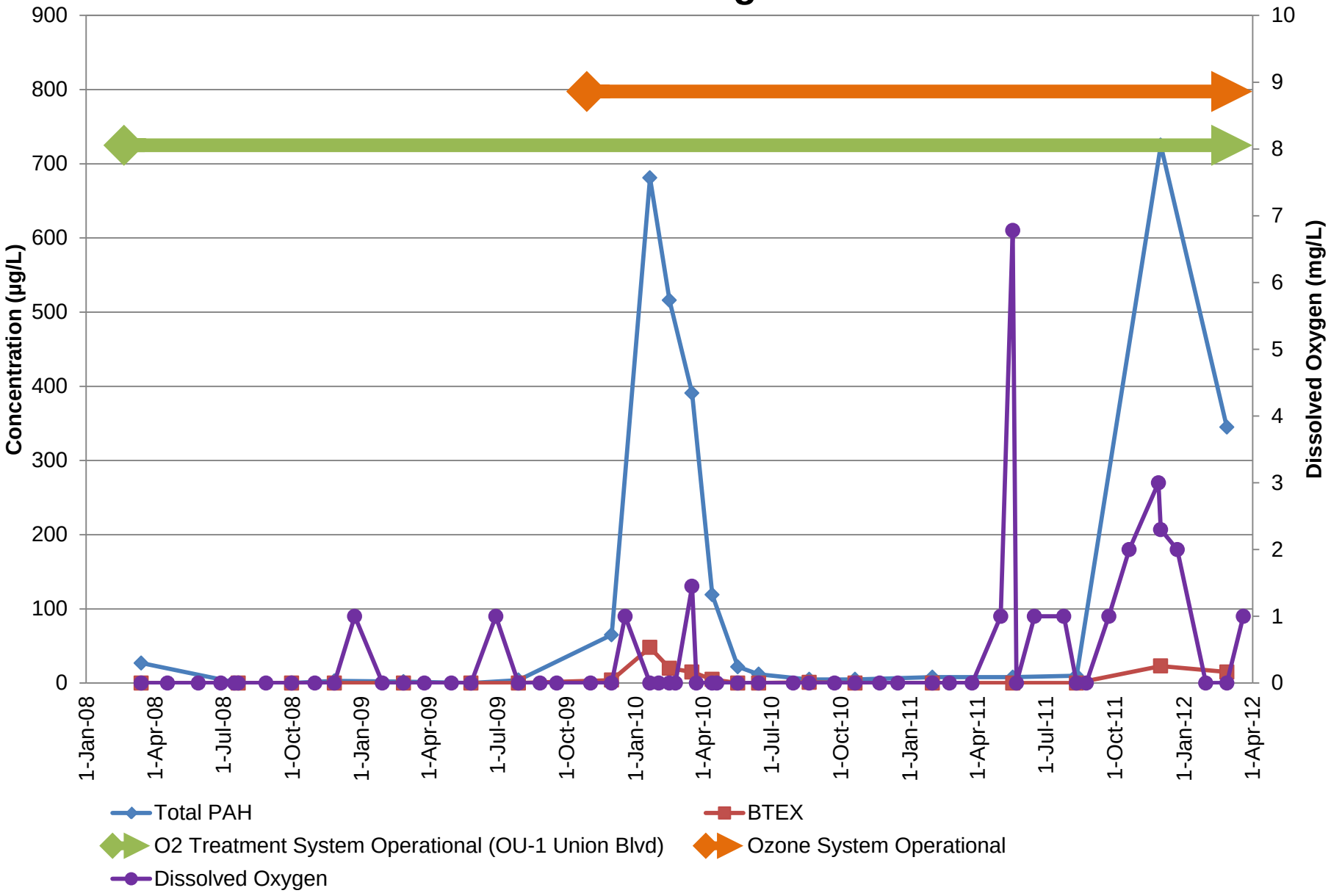


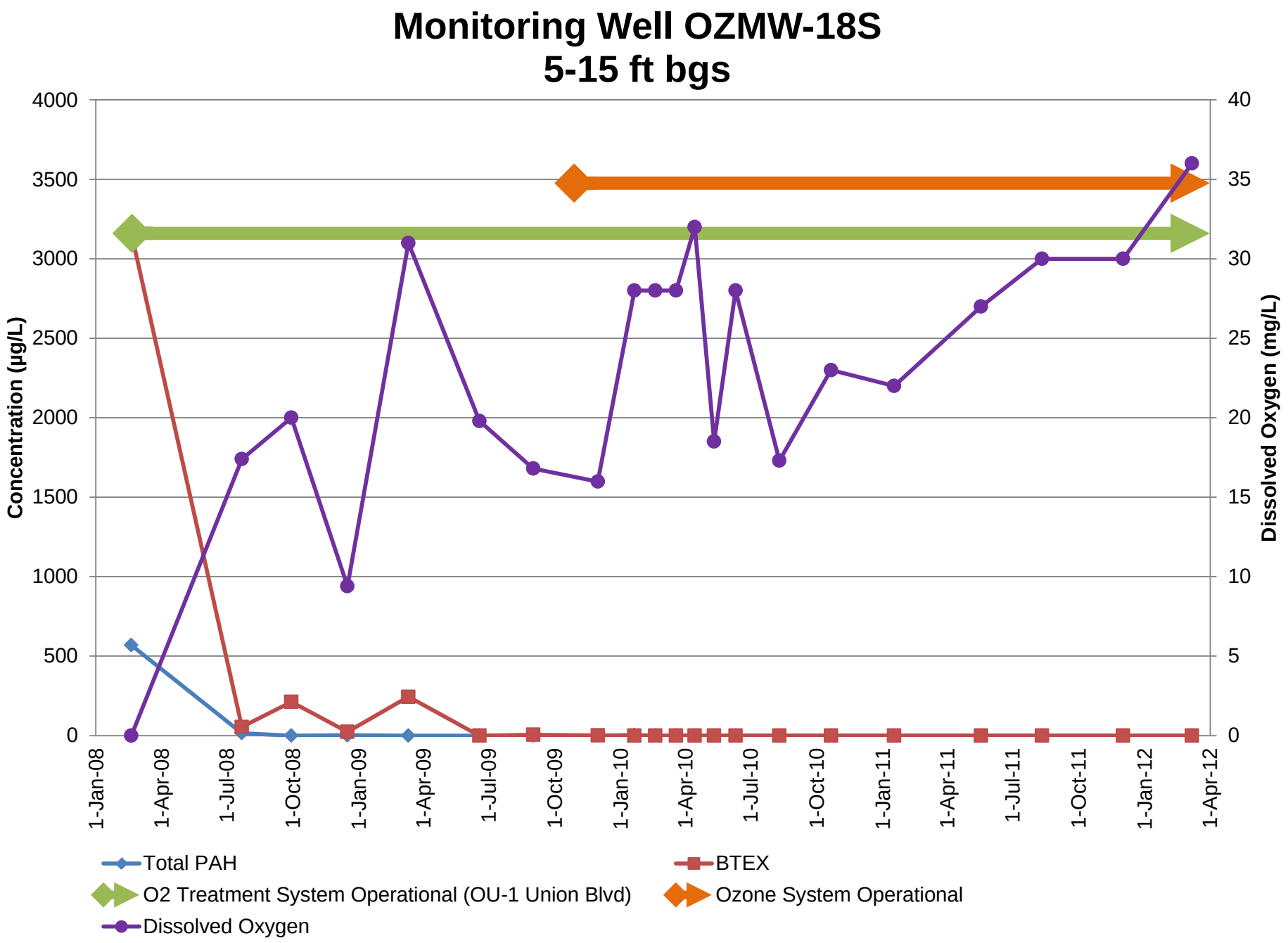

Monitoring Well OZMW-17I
20-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
7000
6000
5000
4000
3000
2000
1000
0
50
45
40
35
30
25
20
15
10
5
0
1-Jan-08
1-Apr-08
1-Jul-08
1-Oct-08
1-Jan-09
1-Apr-09
1-Jul-09
1-Oct-09
1-Jan-10
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (OU-1 Union Blvd)
Ozone System Operational
Dissolved Oxygen

Monitoring Well OZMW-17I2
35-45 ft bgs

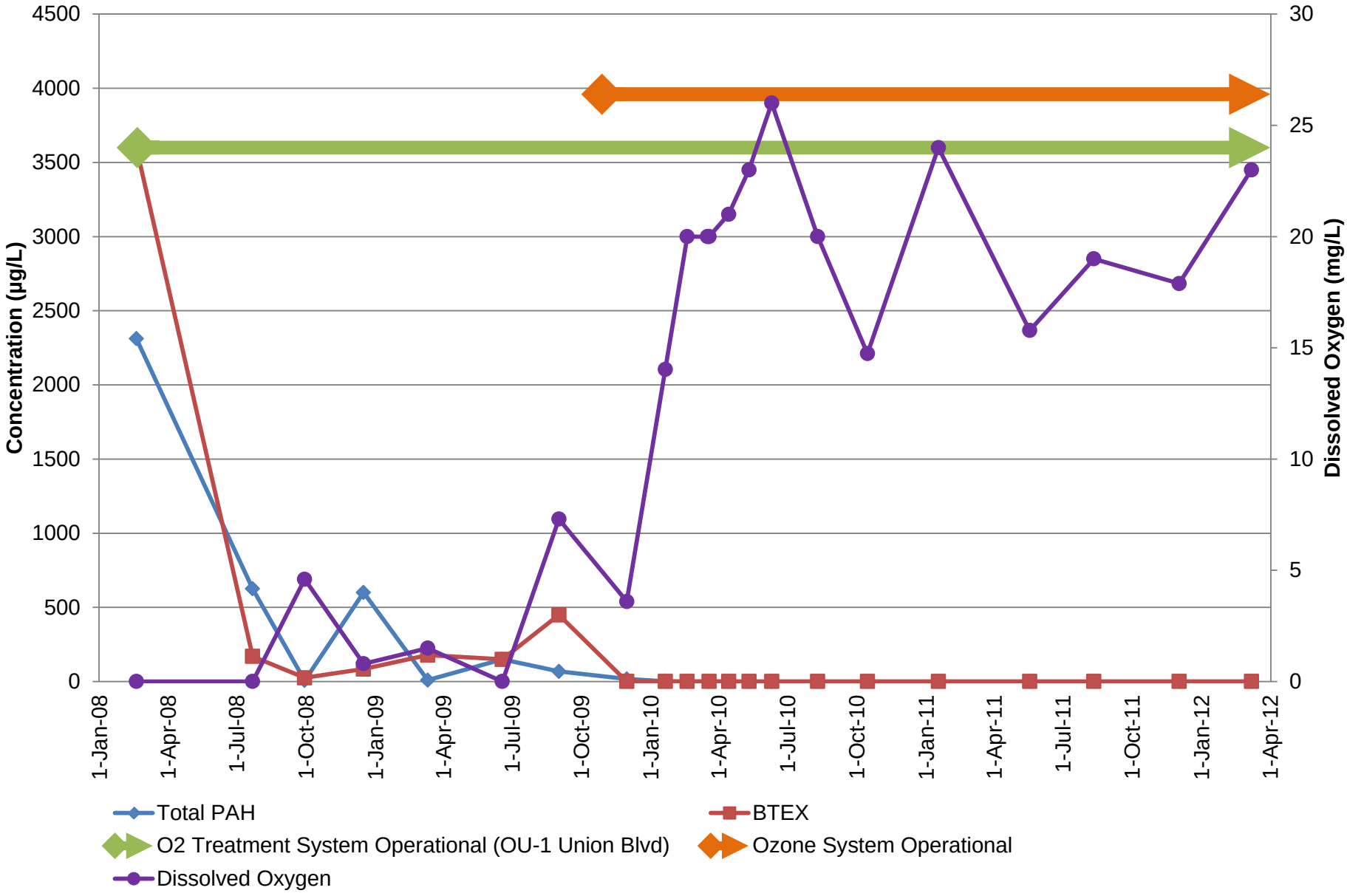


Monitoring Well OZMW-17D
53-63 ft bgs

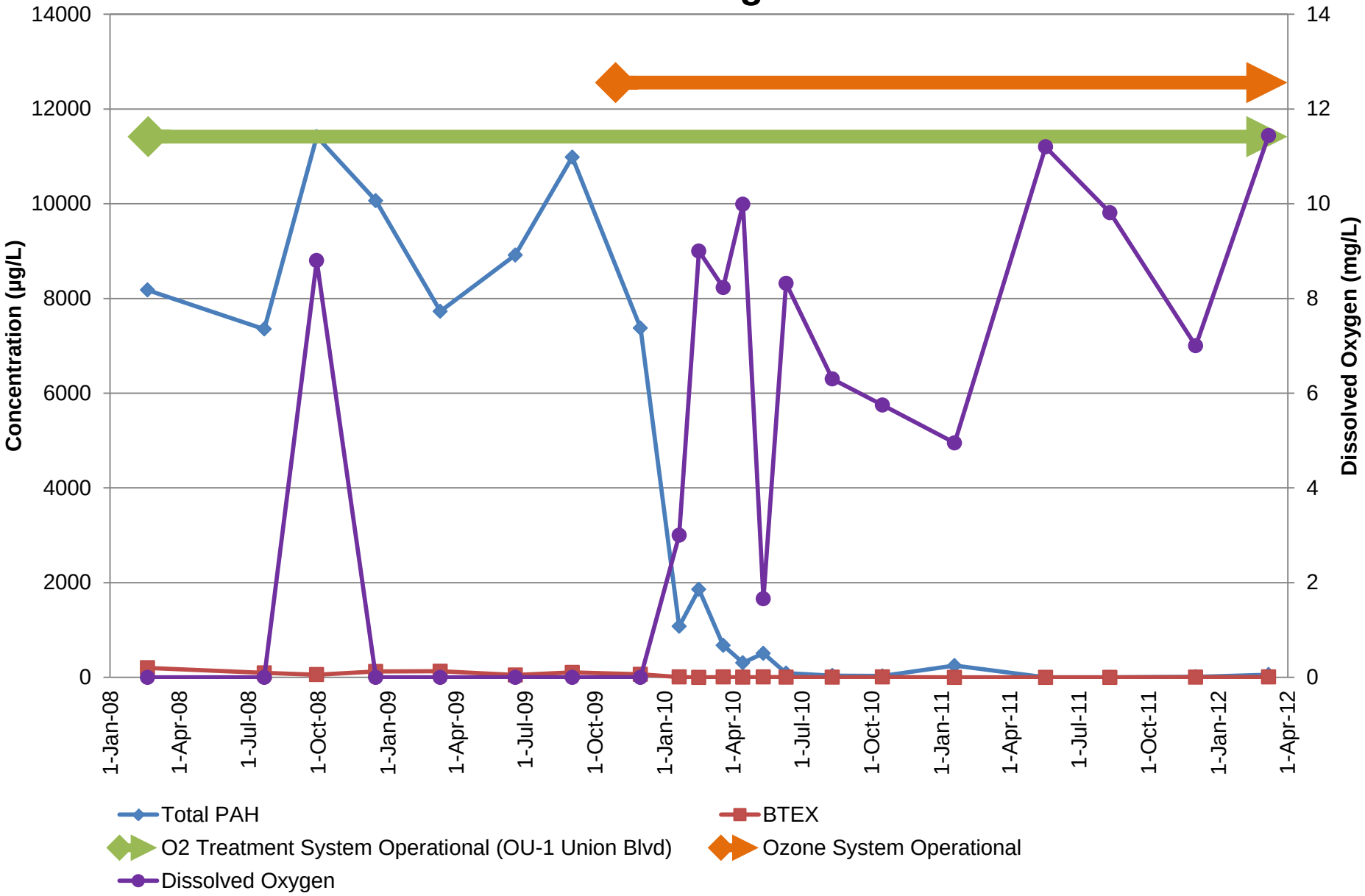



Monitoring Well OZMW-18S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
4000
3500
3000
2500
2000
1500
1000
500
0
40
35
30
25
20
15
10
5
0
1-Jan-08
1-Apr-08
1-Jul-08
1-Oct-08
1-Jan-09
1-Apr-09
1-Jul-09
1-Oct-09
1-Jan-10
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (OU-1 Union Blvd)
Ozone System Operational
Dissolved Oxygen

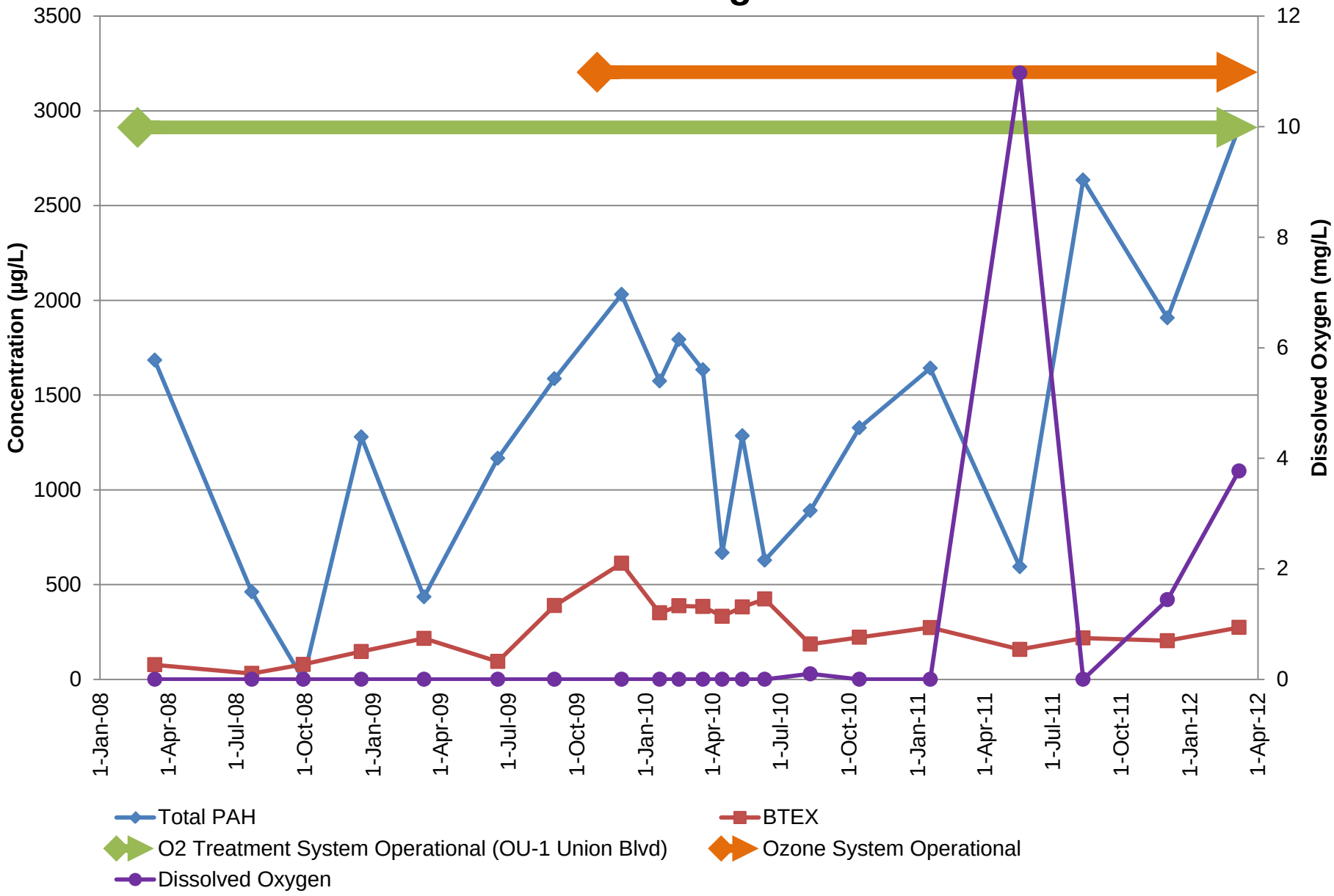
Monitoring Well OZMW-18I
20-30 ft bgs



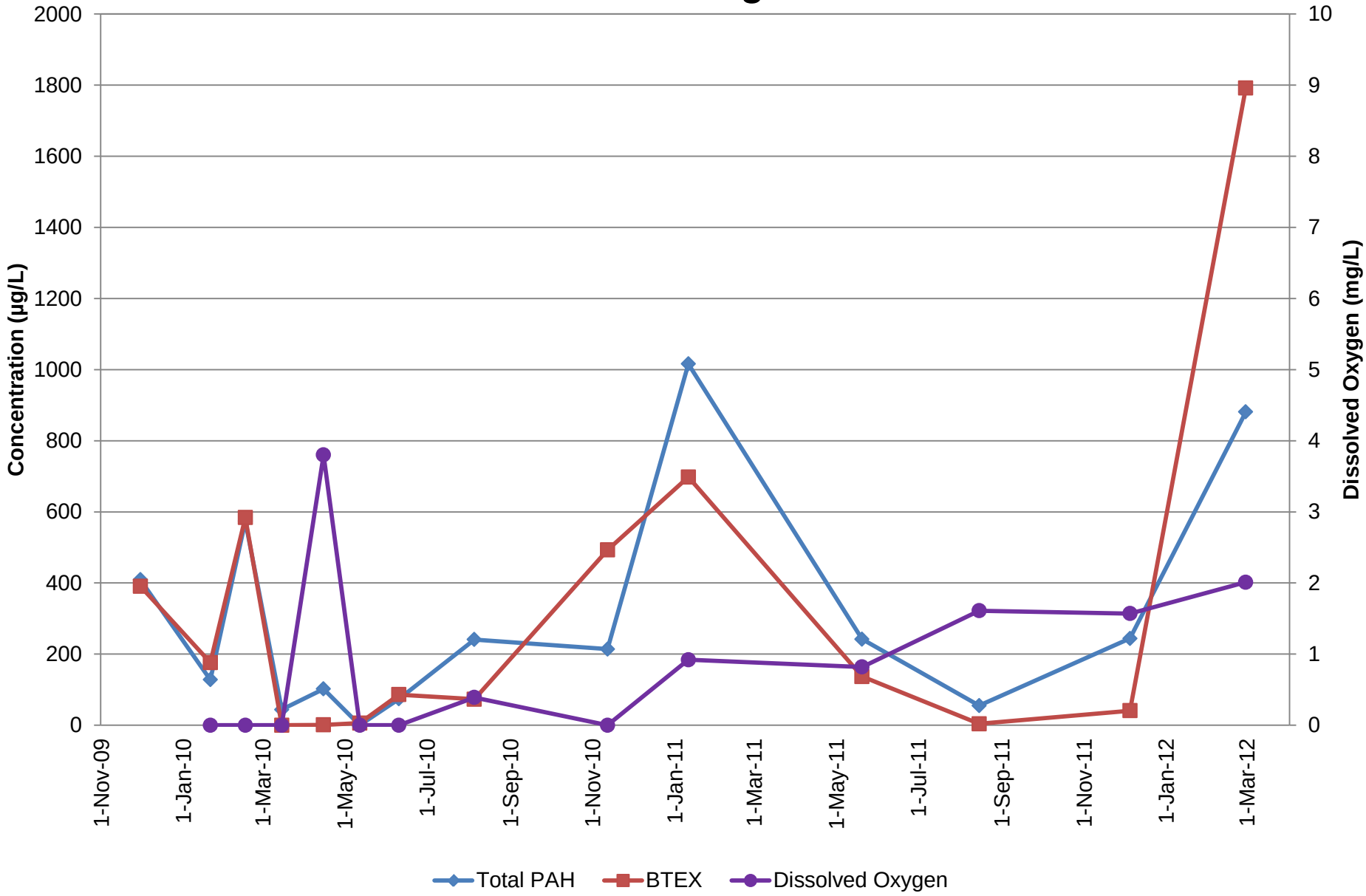
Monitoring Well OZMW-18I2
35-45 ft bgs



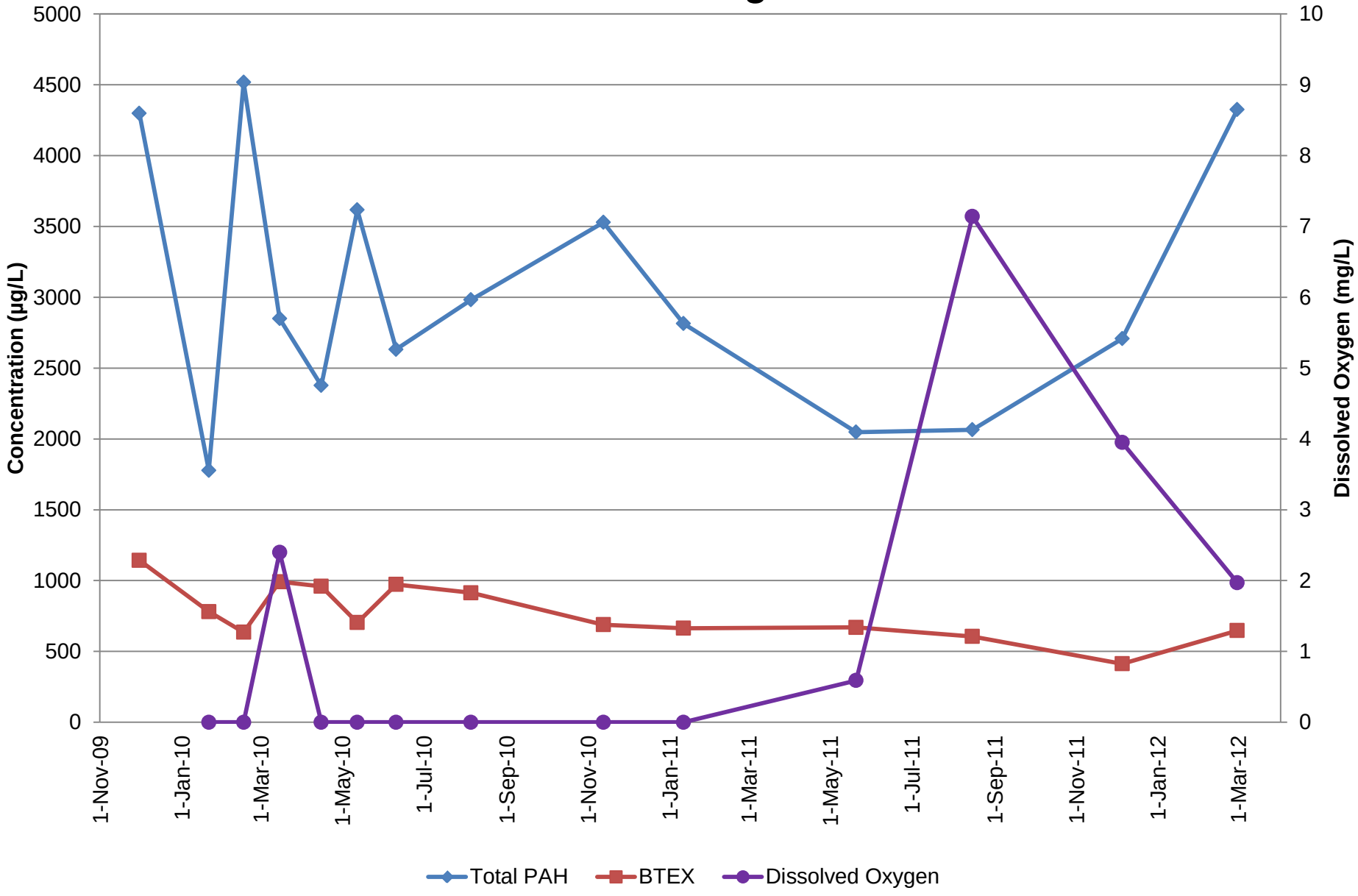
Monitoring Well OZMW-18D
55-65 ft bgs



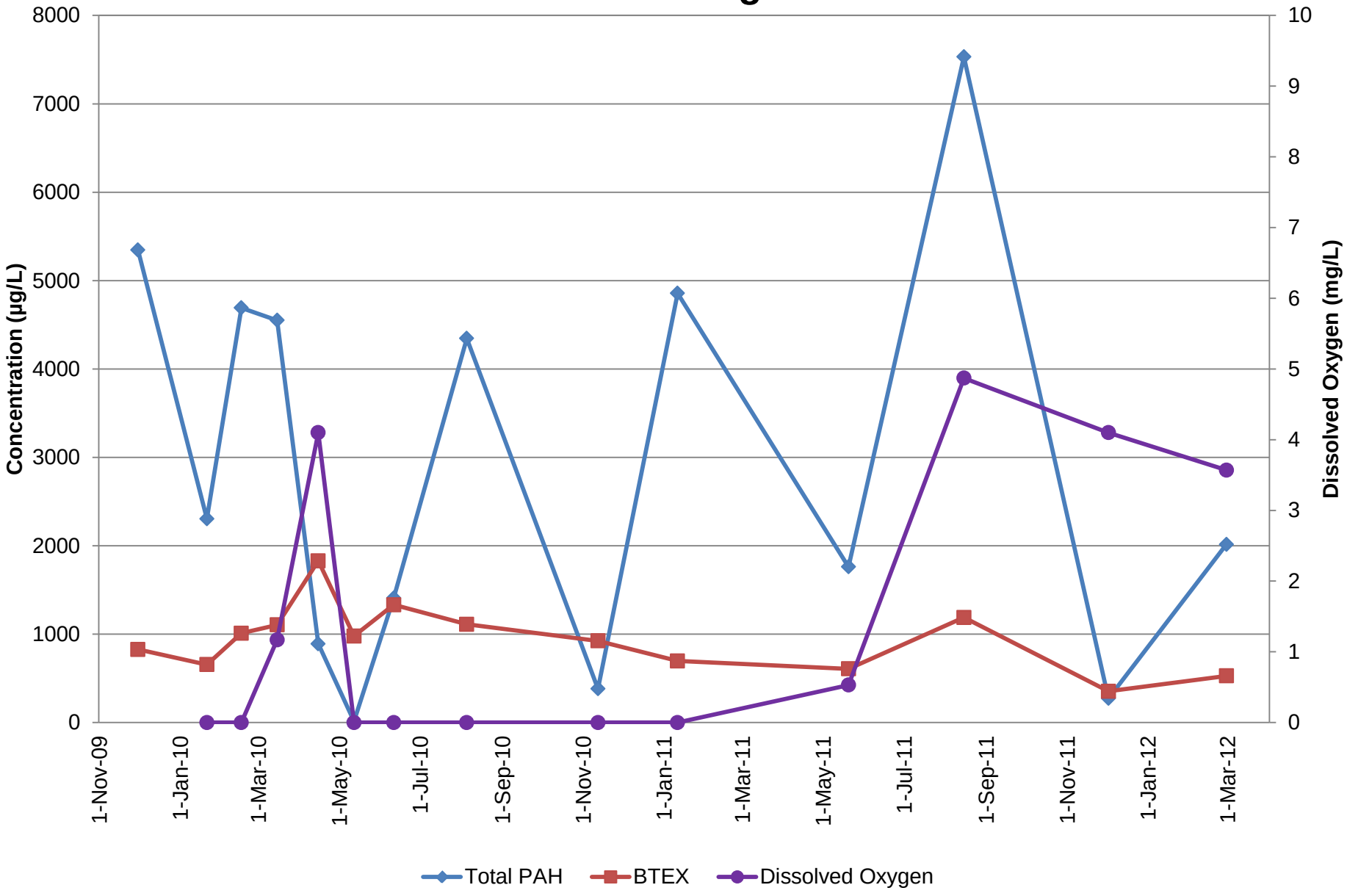
Monitoring Well OZMW-19S
5-15 ft bgs



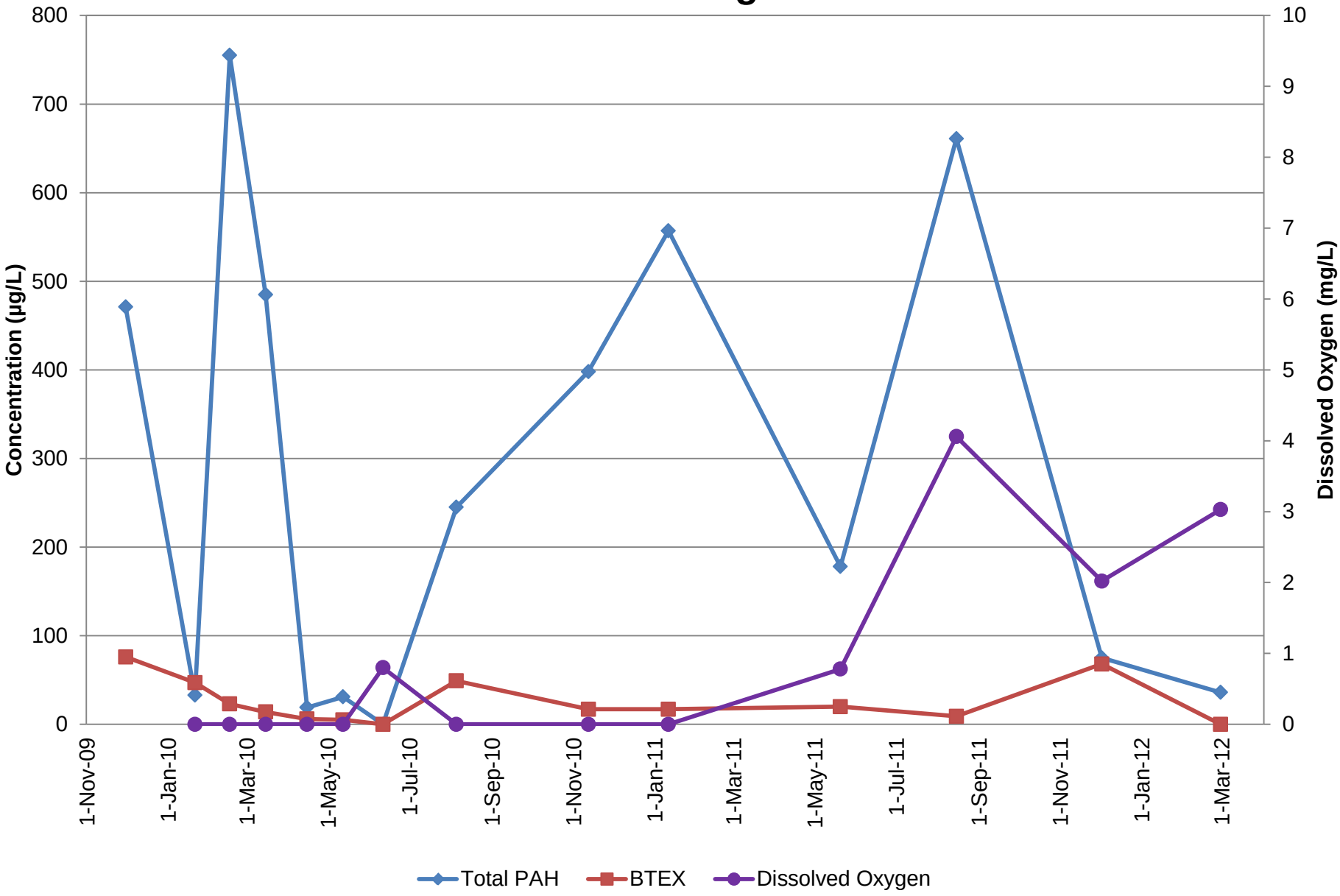
Monitoring Well OZMW-19I
20-30 ft bgs



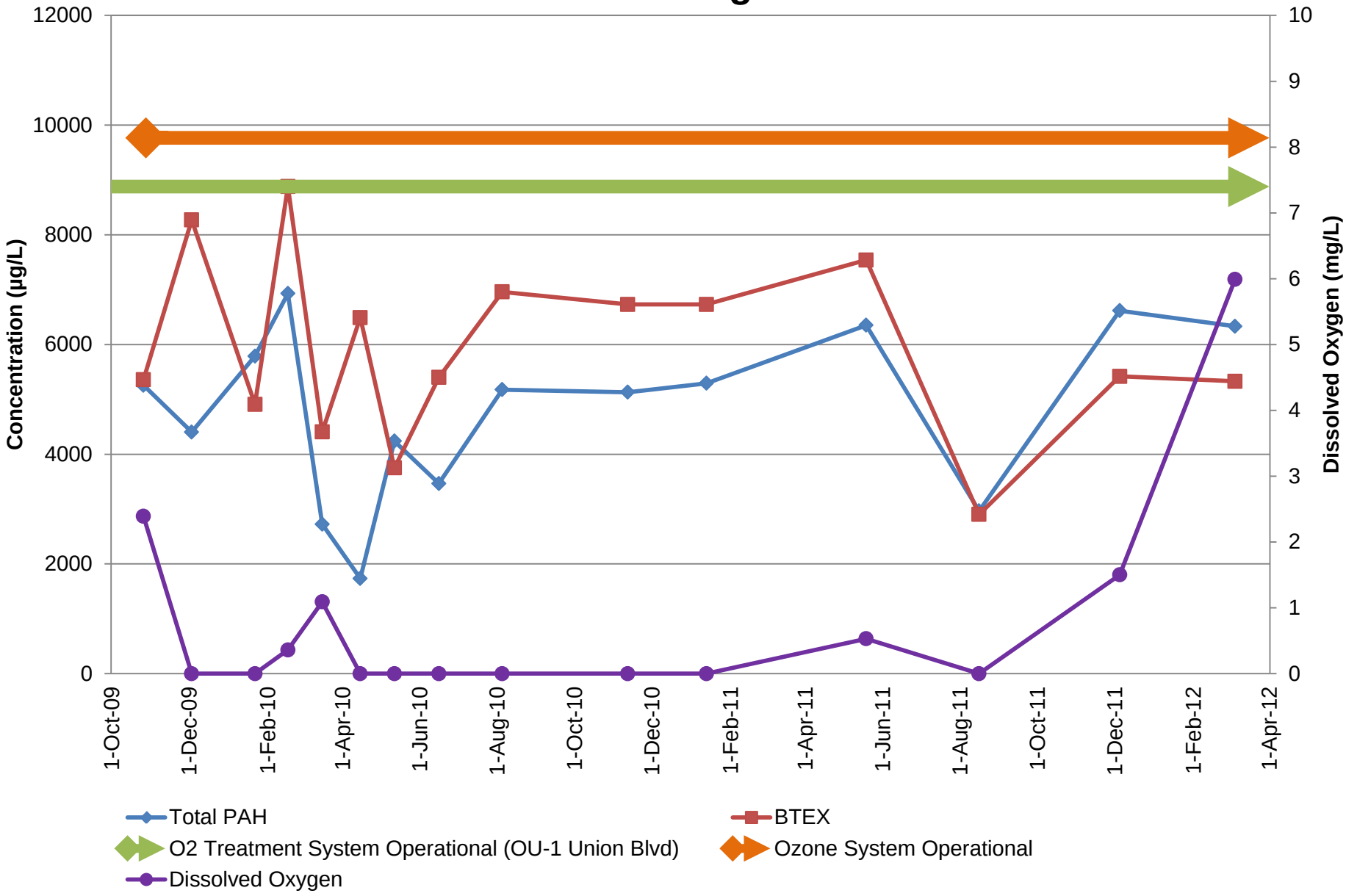
Monitoring Well OZMW-19I2
35-45 ft bgs



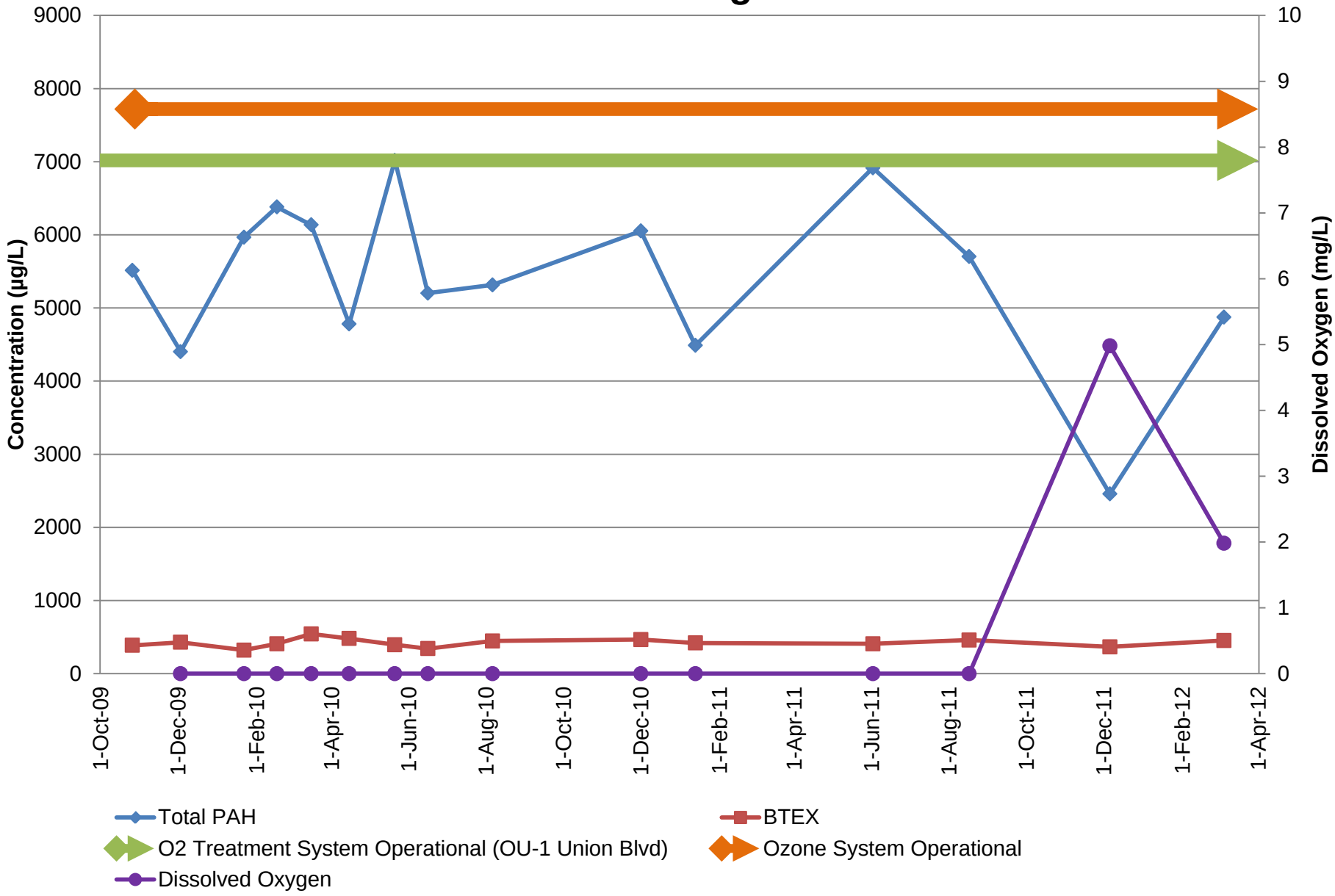
Monitoring Well OZMW-19D
55-65 ft bgs



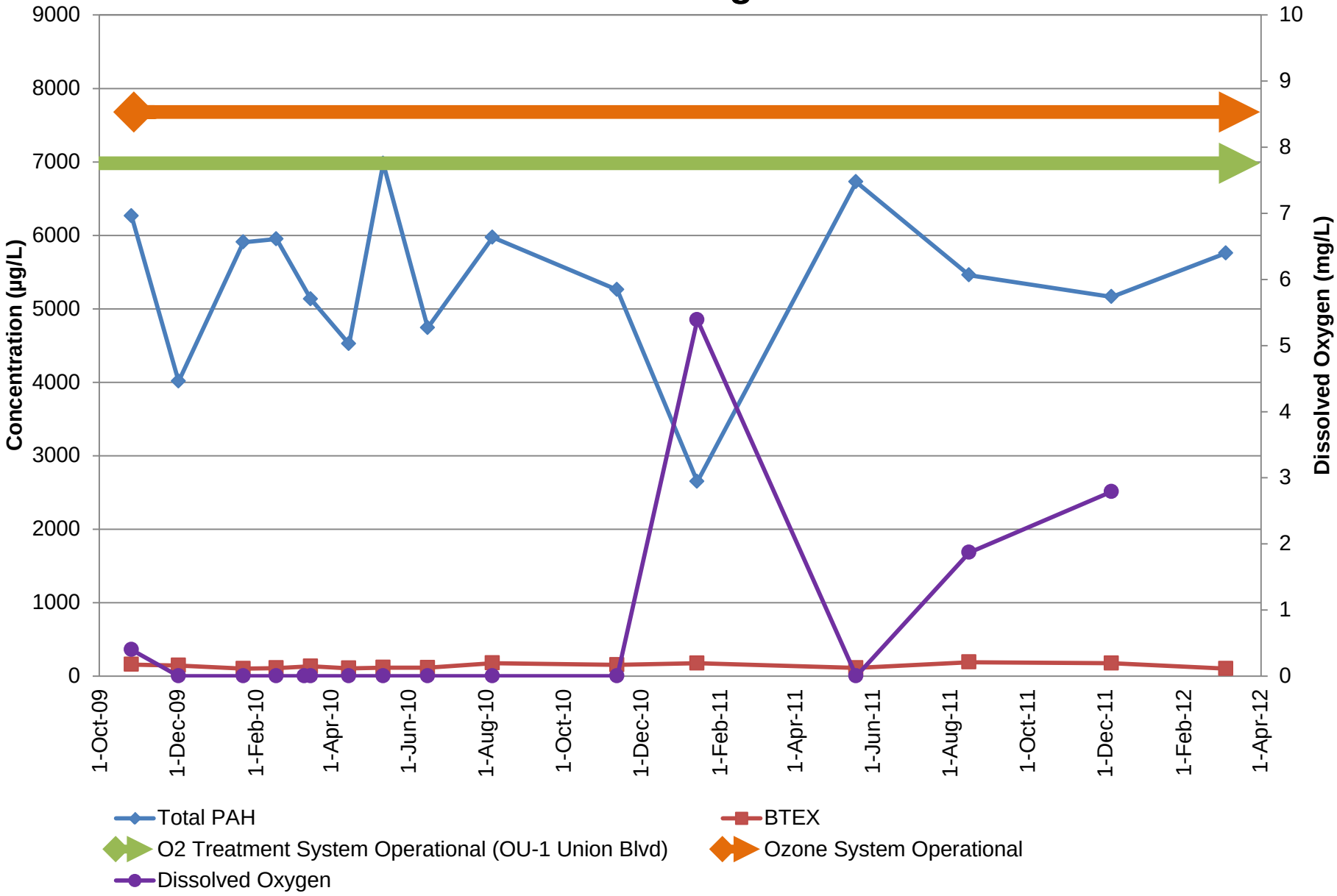
Monitoring Well OZMW-21S
5-15 ft bgs



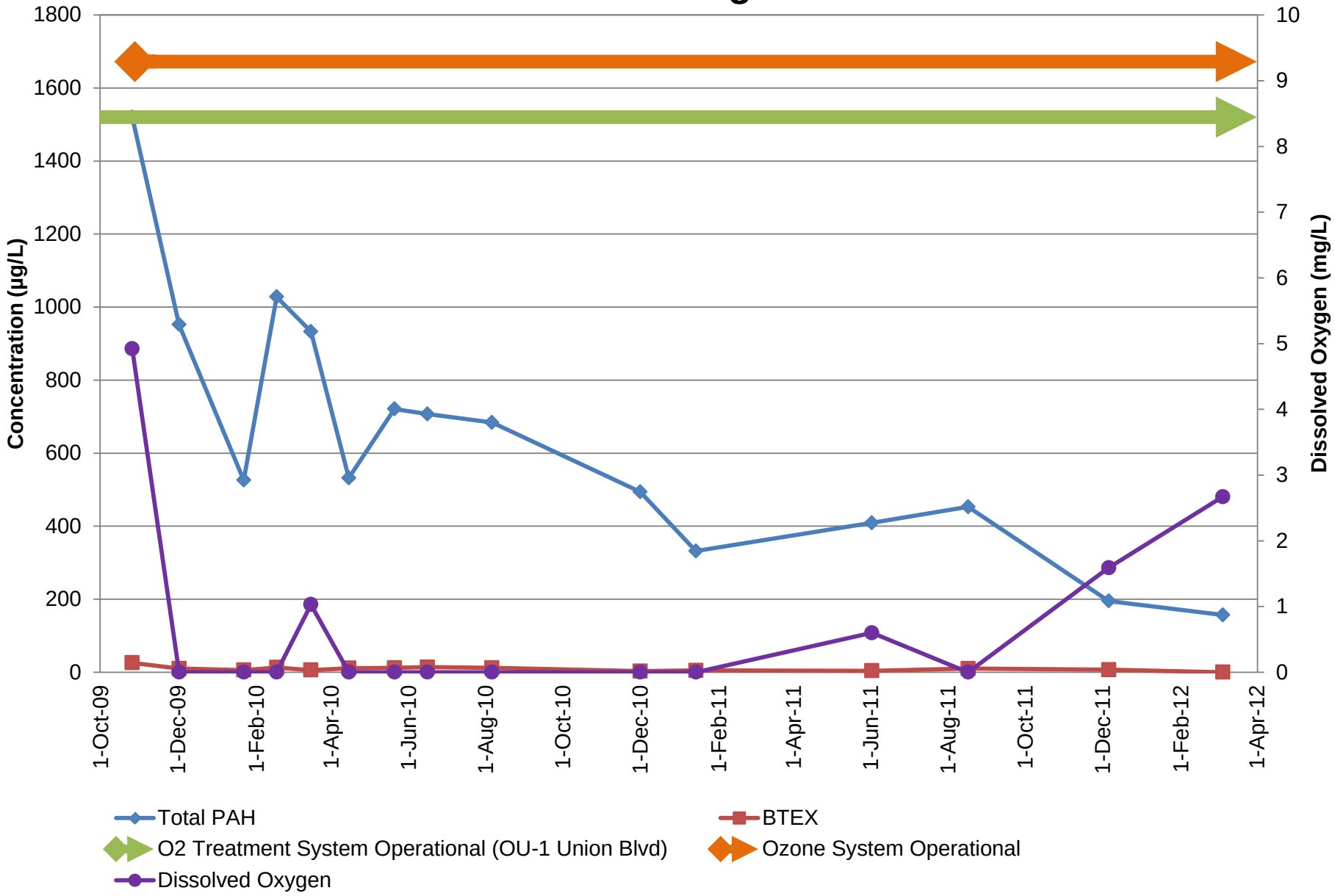
Monitoring Well OZMW-21I
20-30 ft bgs

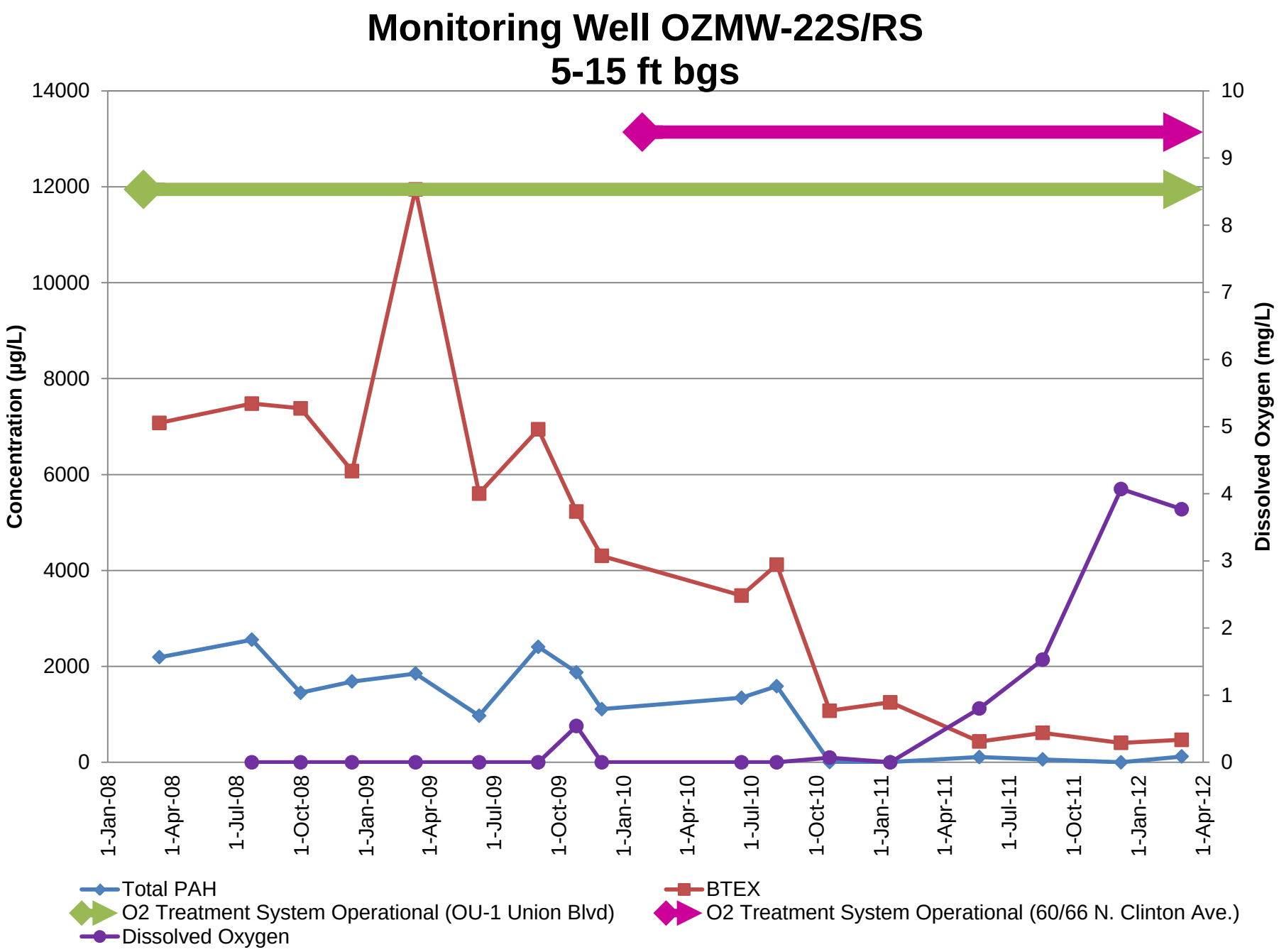


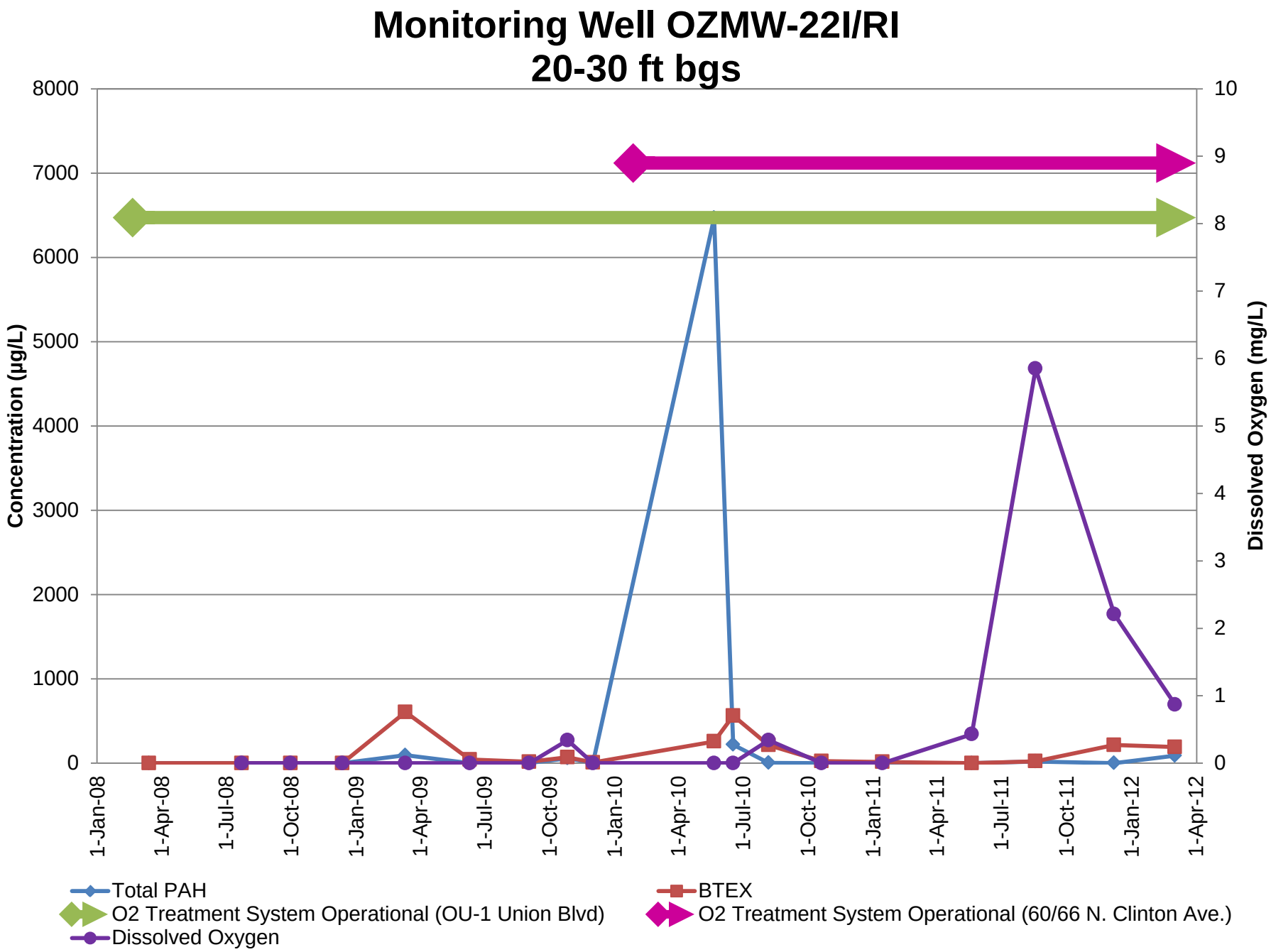
Monitoring Well OZMW-21I2
35-45 ft bgs



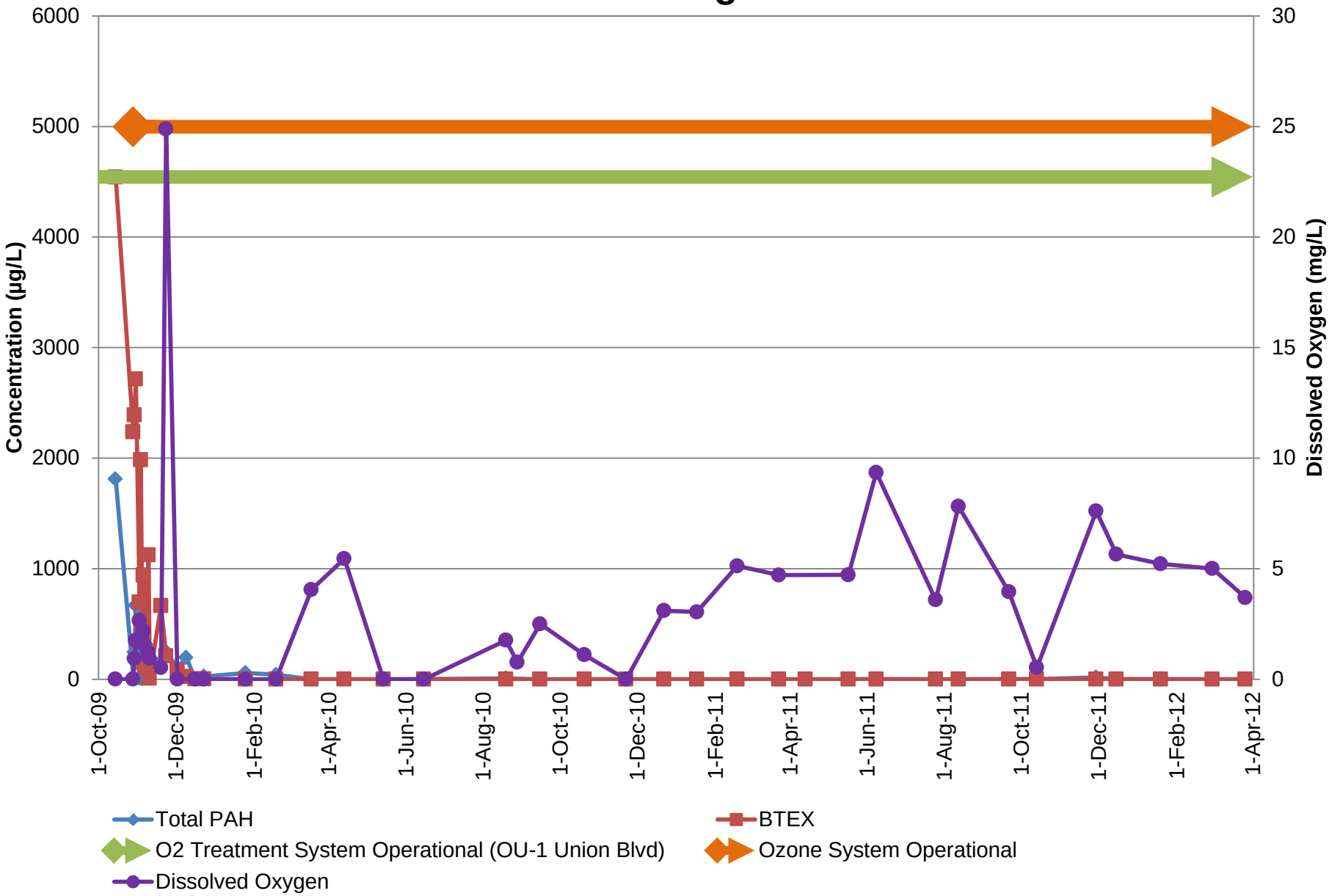
Monitoring Well OZMW-21D
55-65 ft bgs



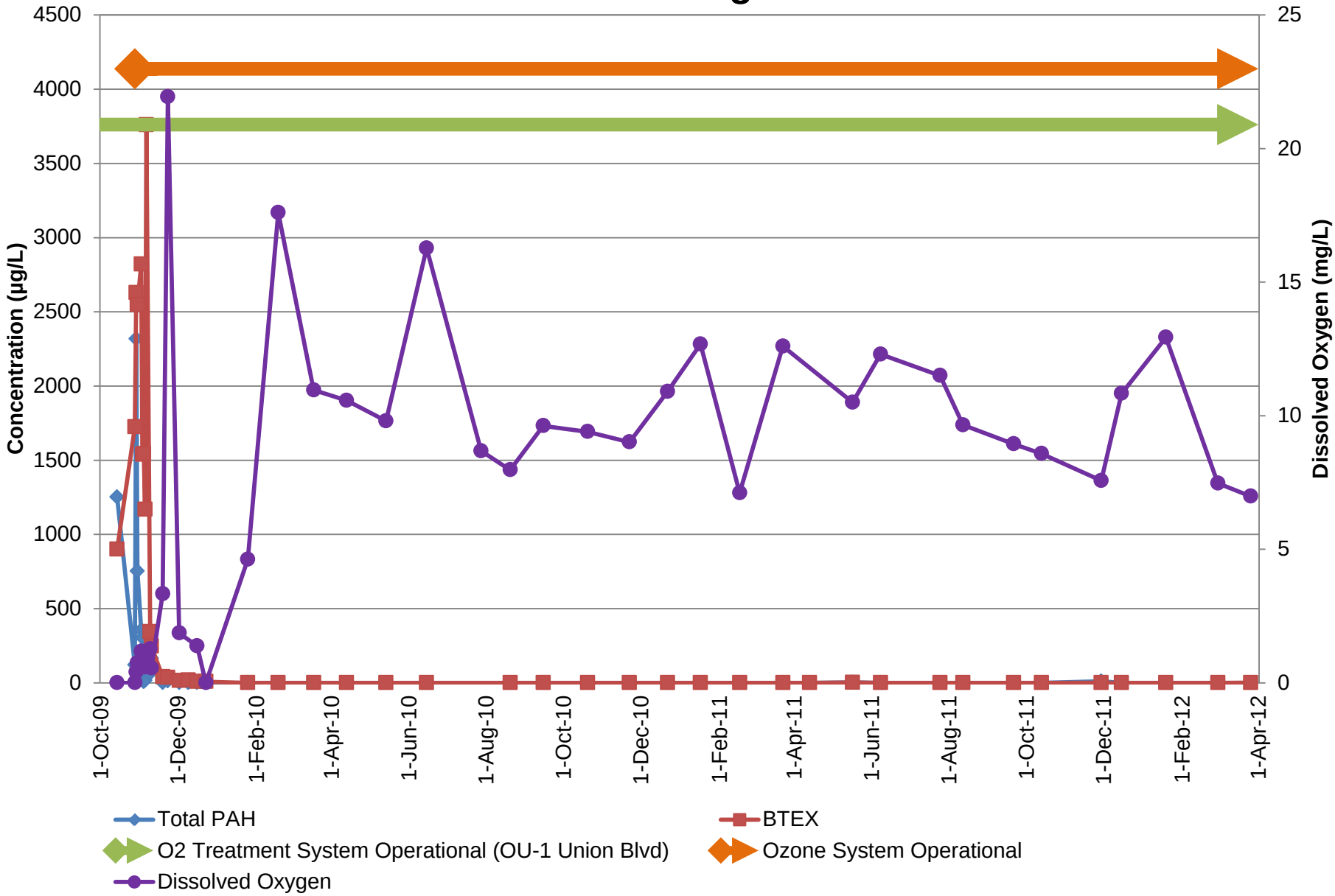

Monitoring Well OZMW-22S/RS
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
14000
12000
10000
8000
6000
4000
2000
0
10
9
8
7
6
5
4
3
2
1
0
1-Jan-08
1-Apr-08
1-Jul-08
1-Oct-08
1-Jan-09
1-Apr-09
1-Jul-09
1-Oct-09
1-Jan-10
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (OU-1 Union Blvd)
O2 Treatment System Operational (60/66 N. Clinton Ave.)
Dissolved Oxygen


Monitoring Well OZMW-22I/RI
20-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
8000
7000
6000
5000
4000
3000
2000
1000
0
10
9
8
7
6
5
4
3
2
1
0
1-Jan-08
1-Apr-08
1-Jul-08
1-Oct-08
1-Jan-09
1-Apr-09
1-Jul-09
1-Oct-09
1-Jan-10
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
Total PAH
BTEX
O2 Treatment System Operational (OU-1 Union Blvd)
O2 Treatment System Operational (60/66 N. Clinton Ave.)
Dissolved Oxygen

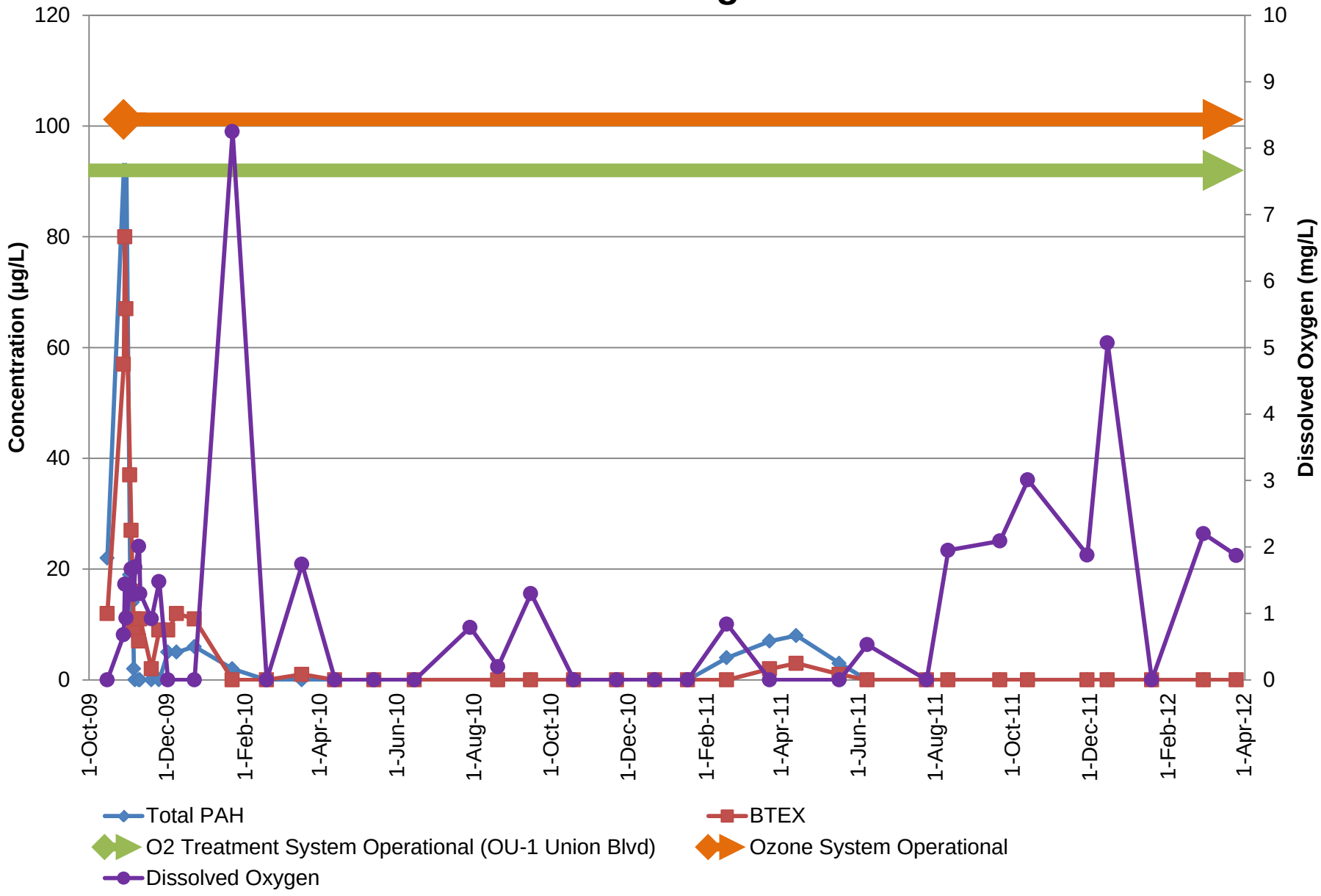
Monitoring Well OZMW-23S
5-15 ft bgs



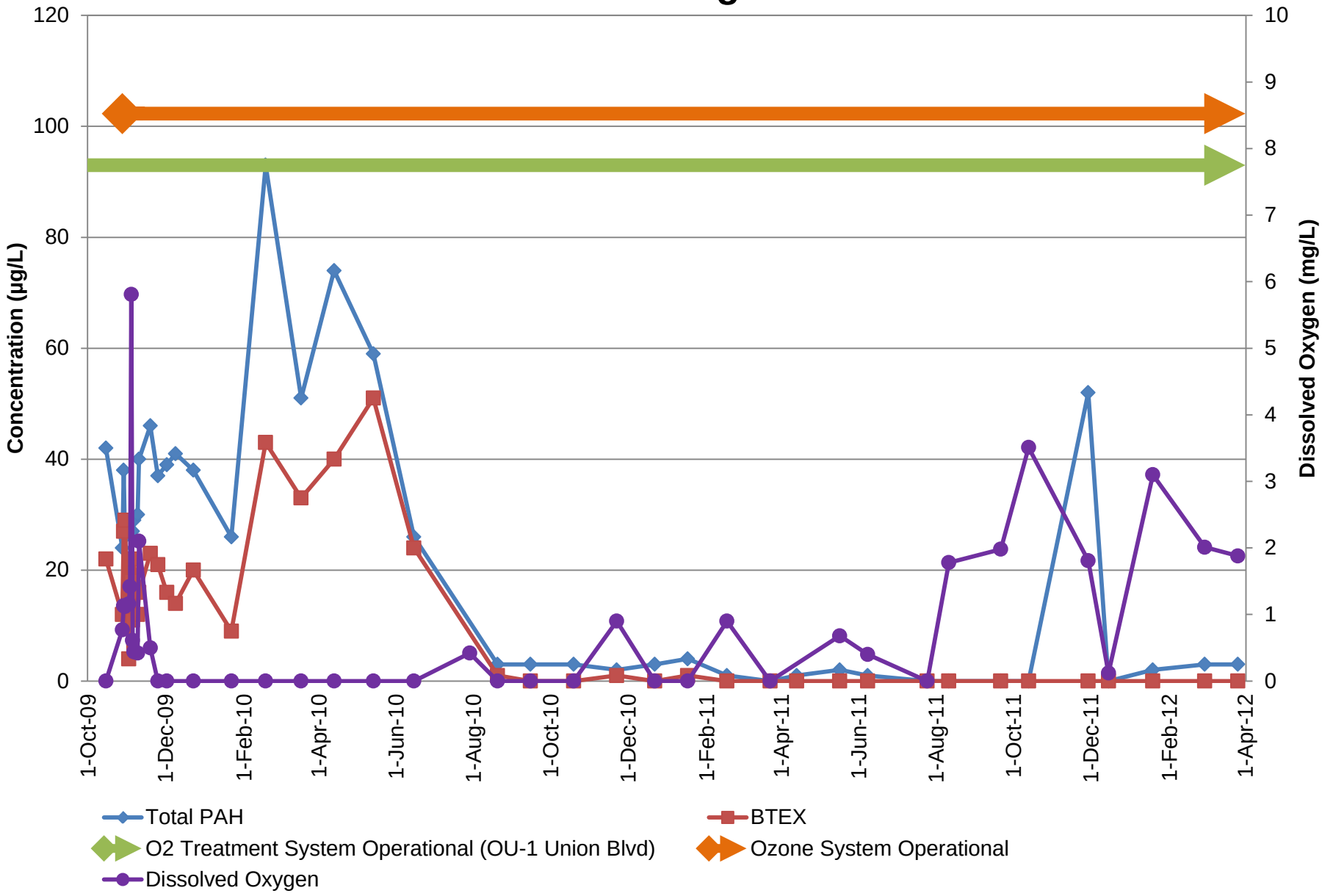
Monitoring Well OZMW-23I
20-30 ft bgs



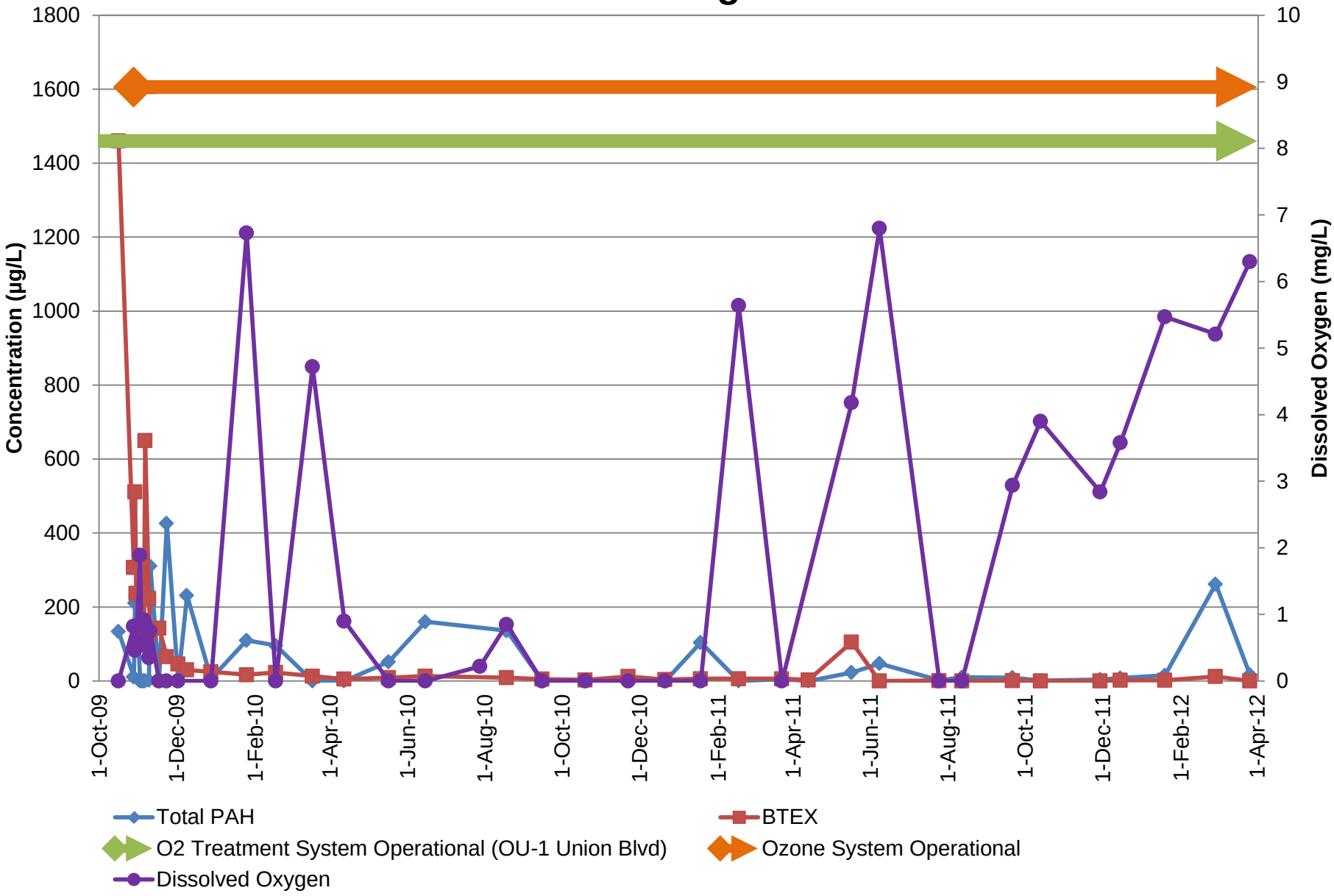
Monitoring Well OZMW-23I2
35-45 ft bgs



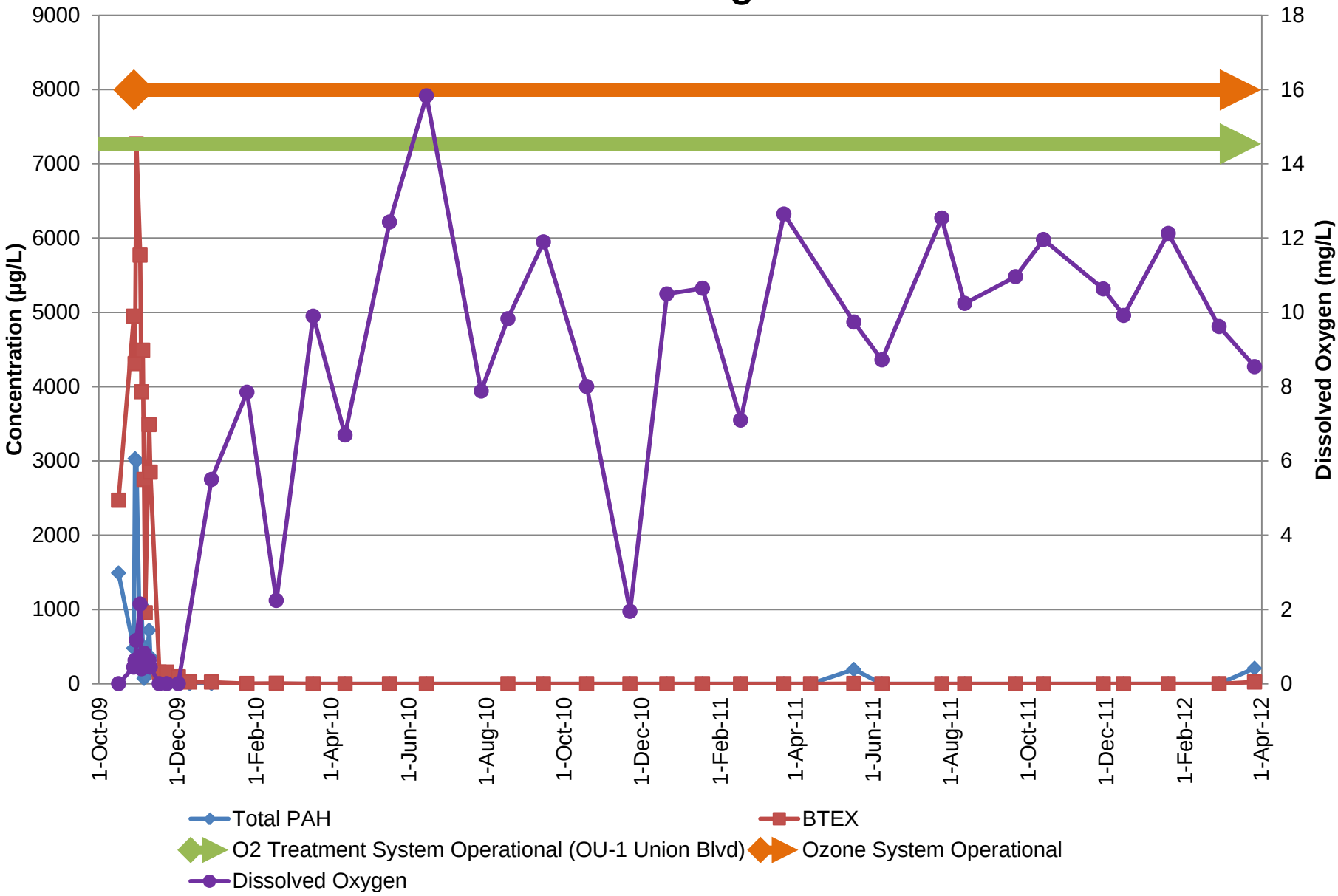
Monitoring Well OZMW-23D
55-65 ft bgs



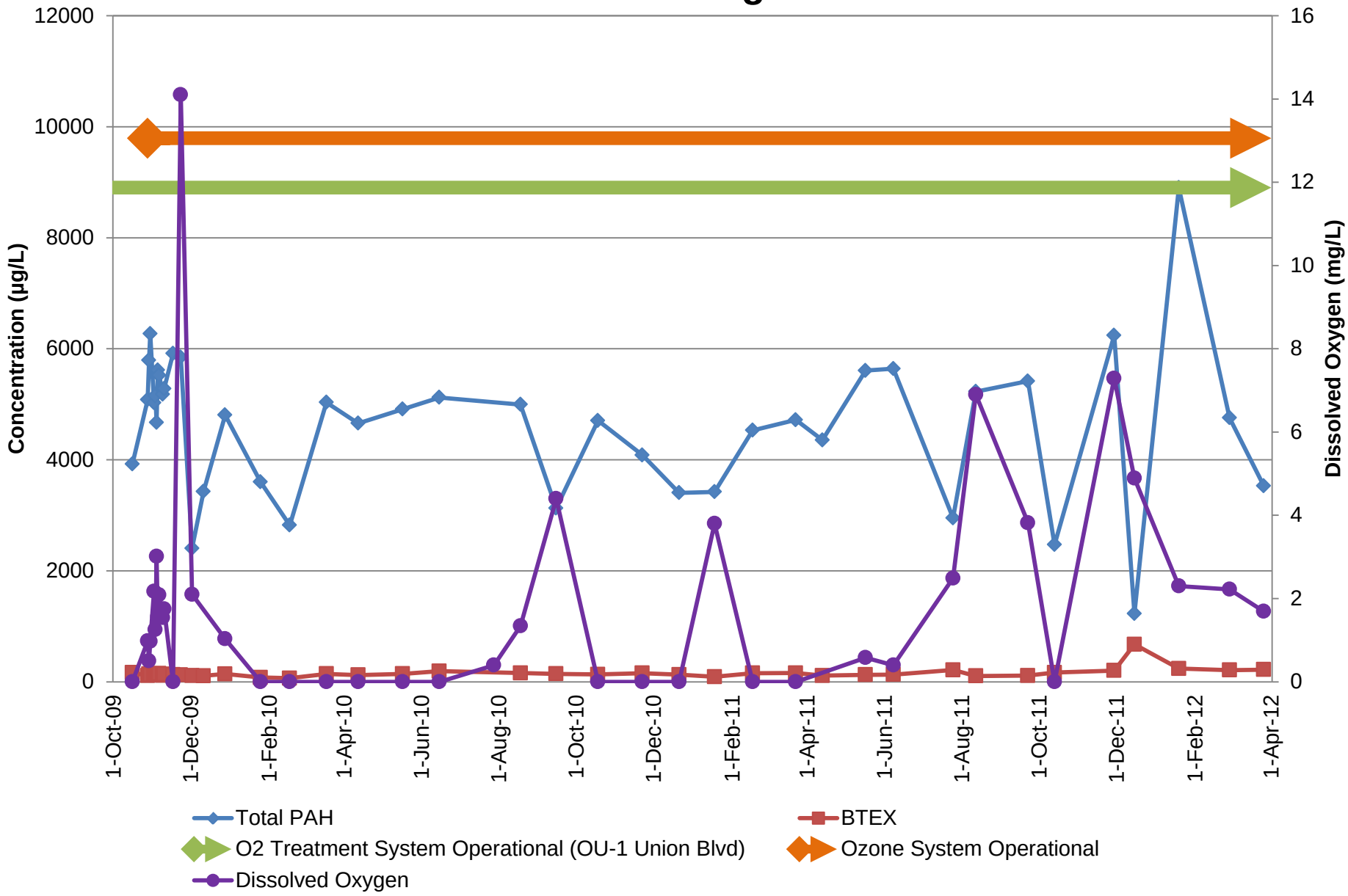
Monitoring Well OZMW-24S
5-15 ft bgs



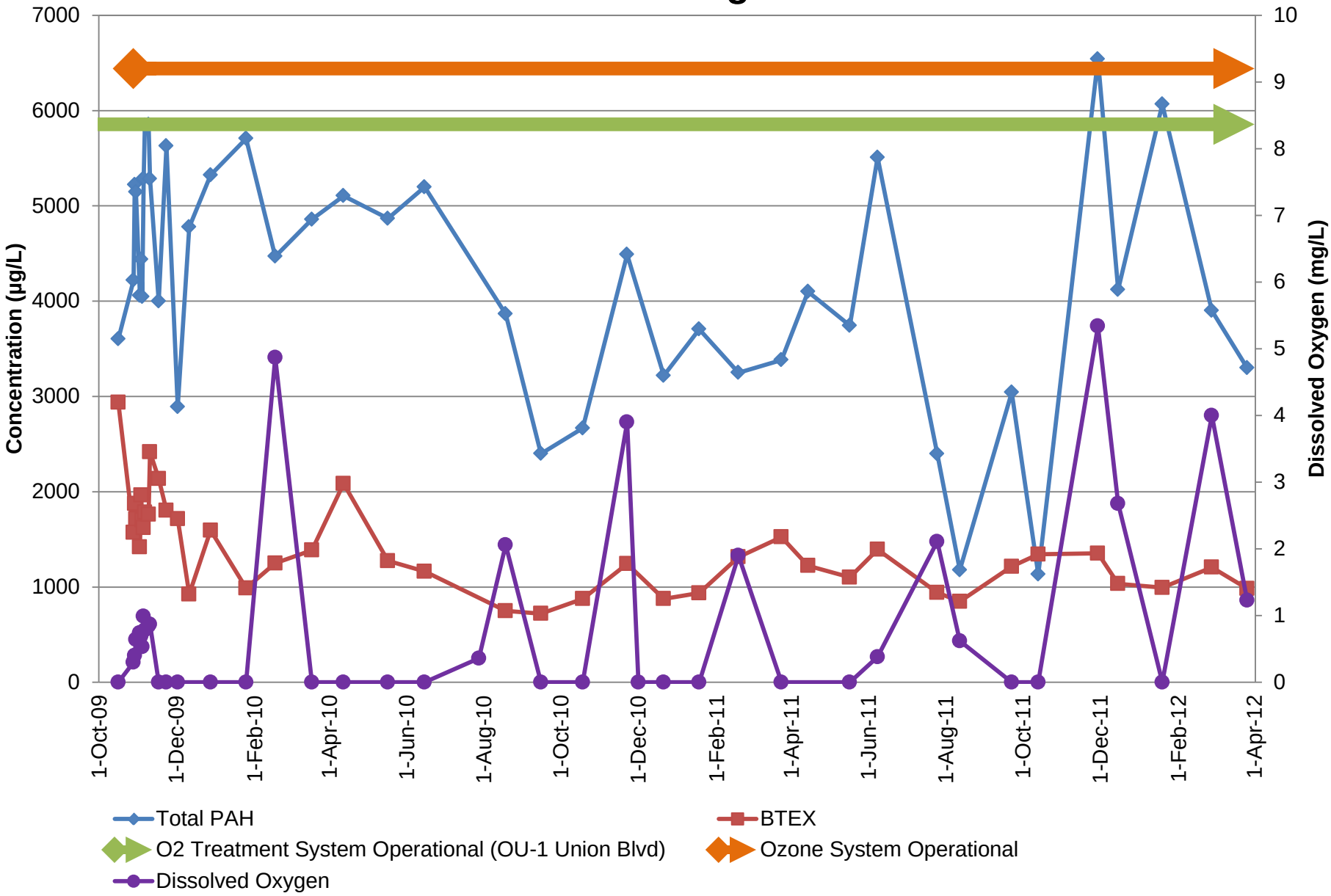
Monitoring Well OZMW-24I
20-30 ft bgs

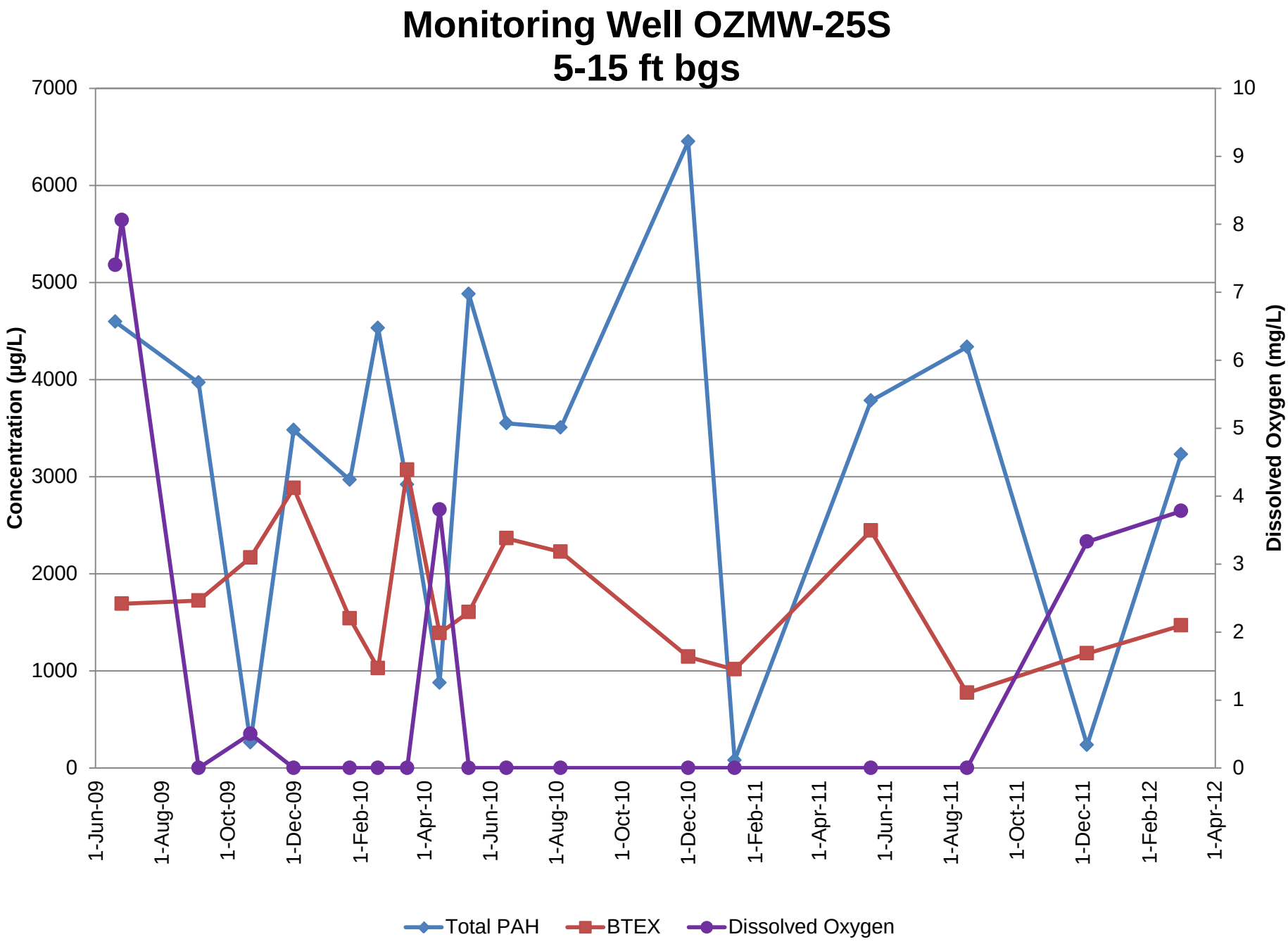


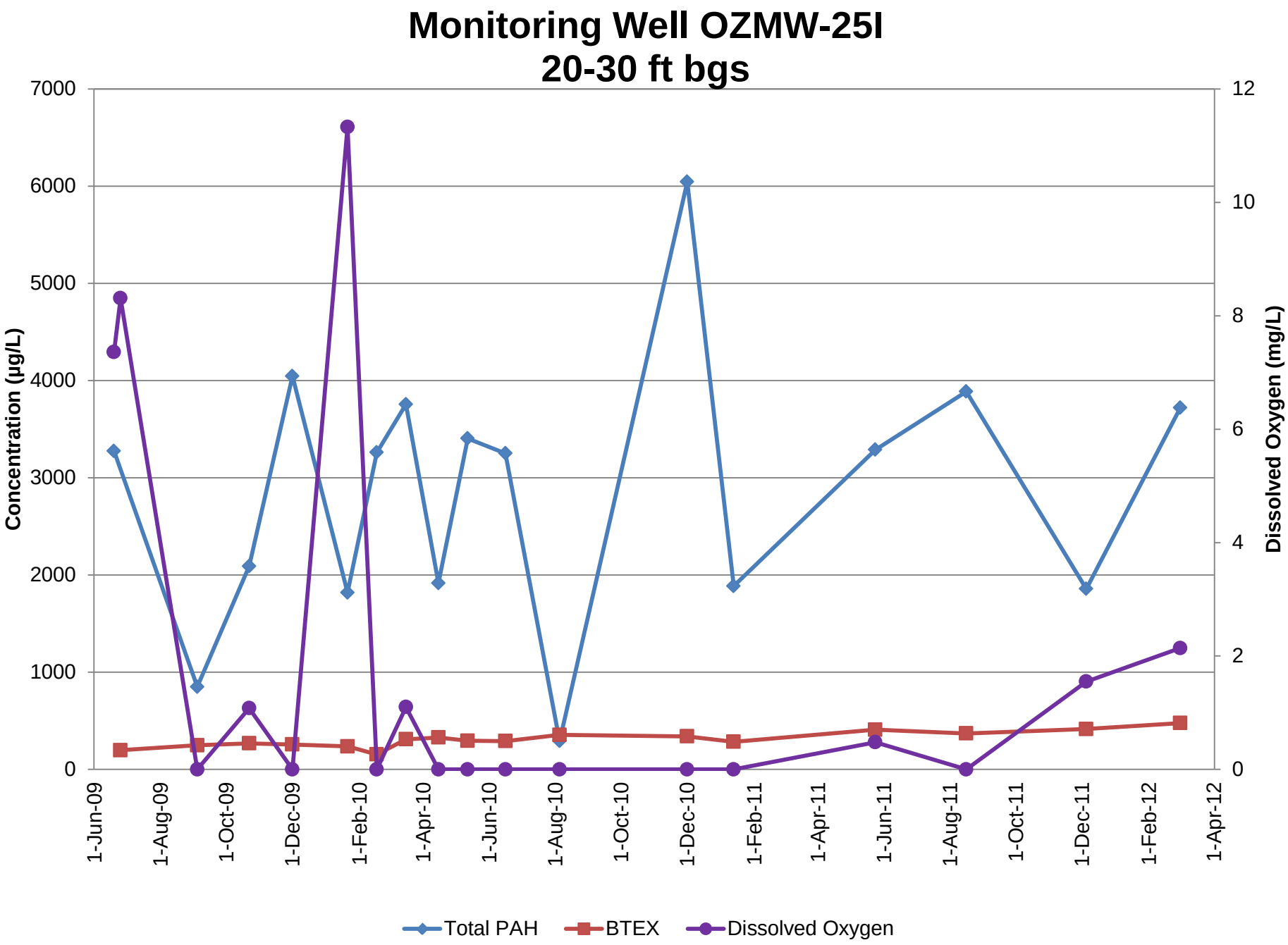
Monitoring Well OZMW-24I2
35-45 ft bgs



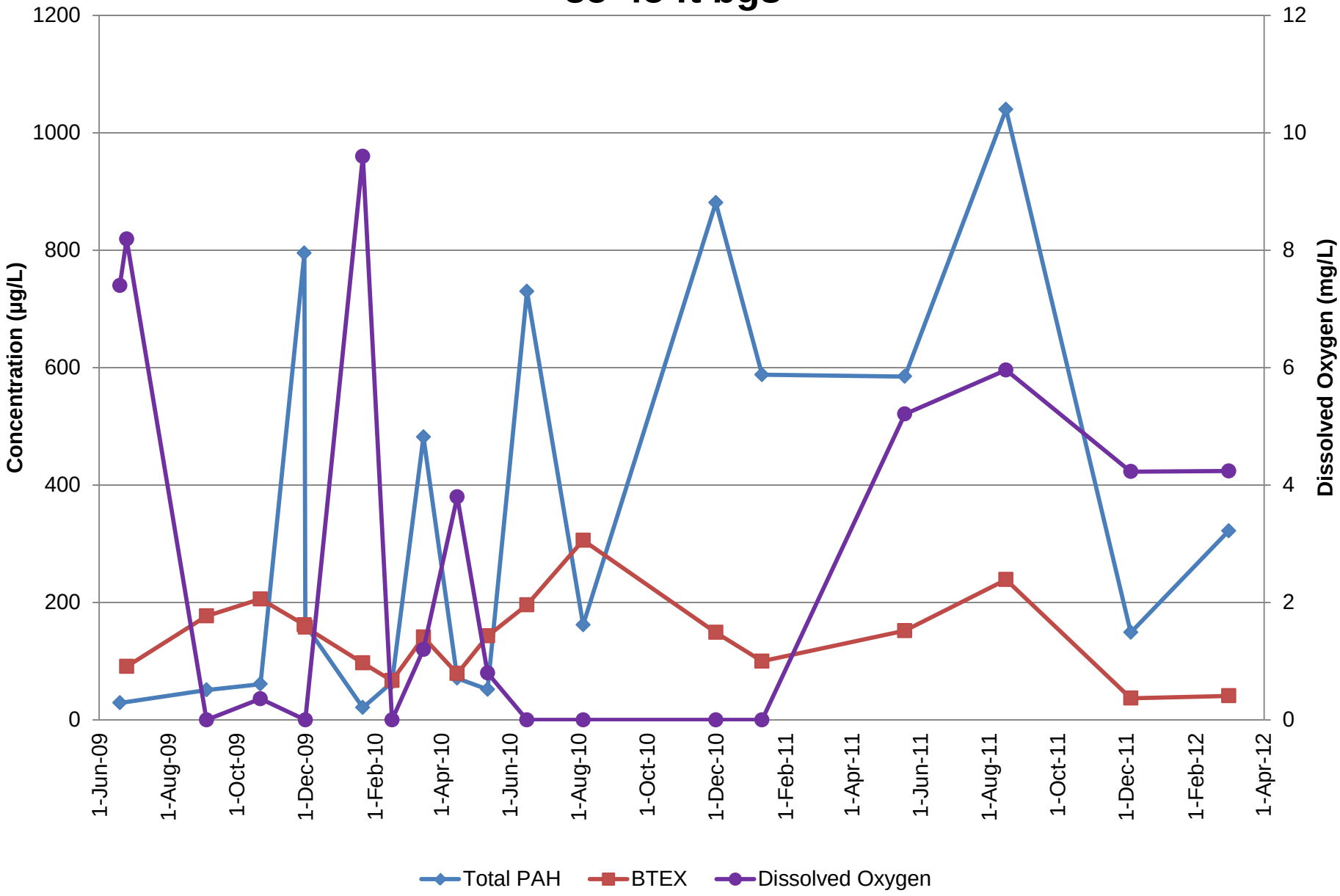
Monitoring Well OZMW-24D
55-65 ft bgs

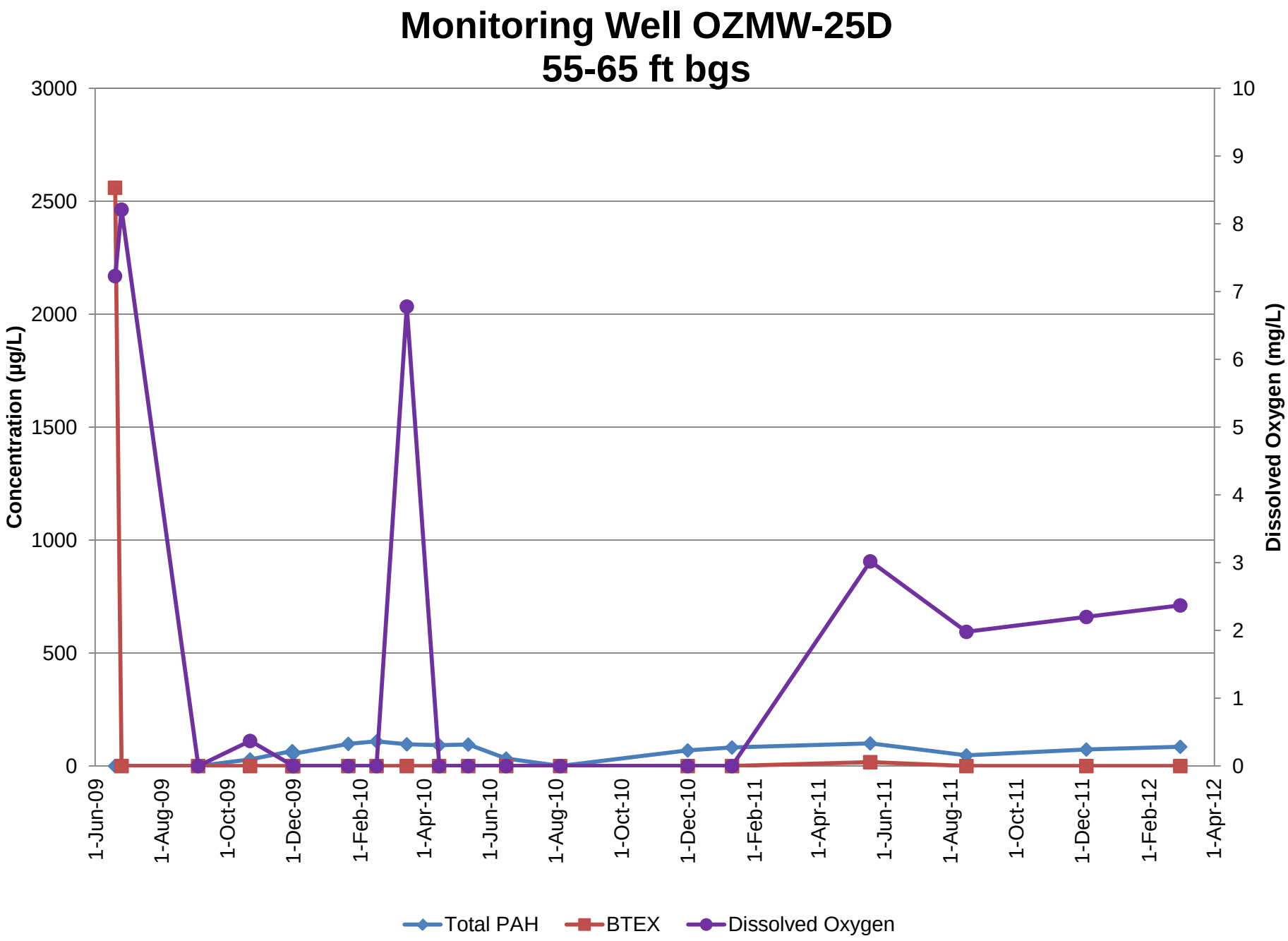


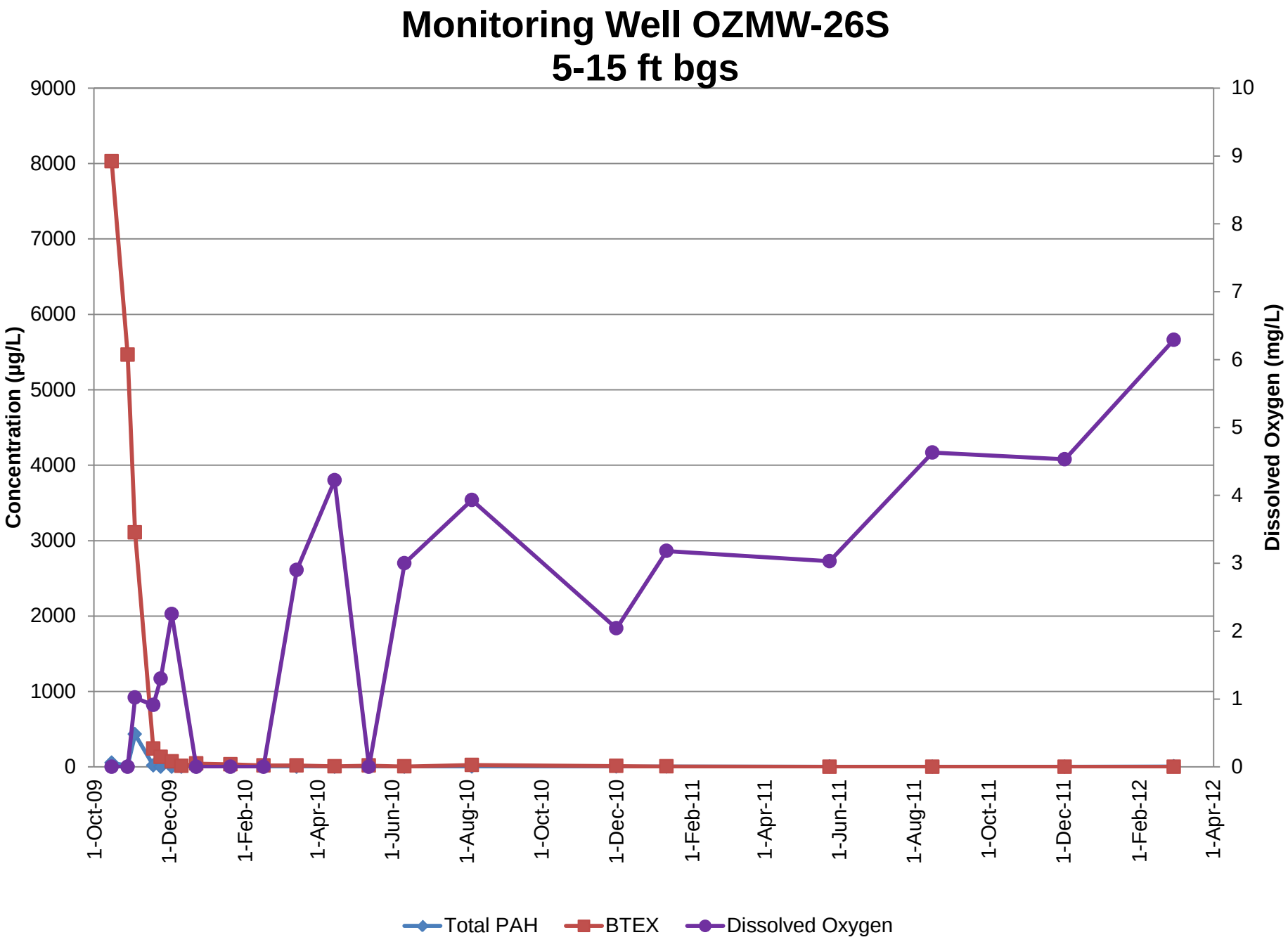

Monitoring Well OZMW-25S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
7000
6000
5000
4000
3000
2000
1000
0
10
9
8
7
6
5
4
3
2
1
0
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

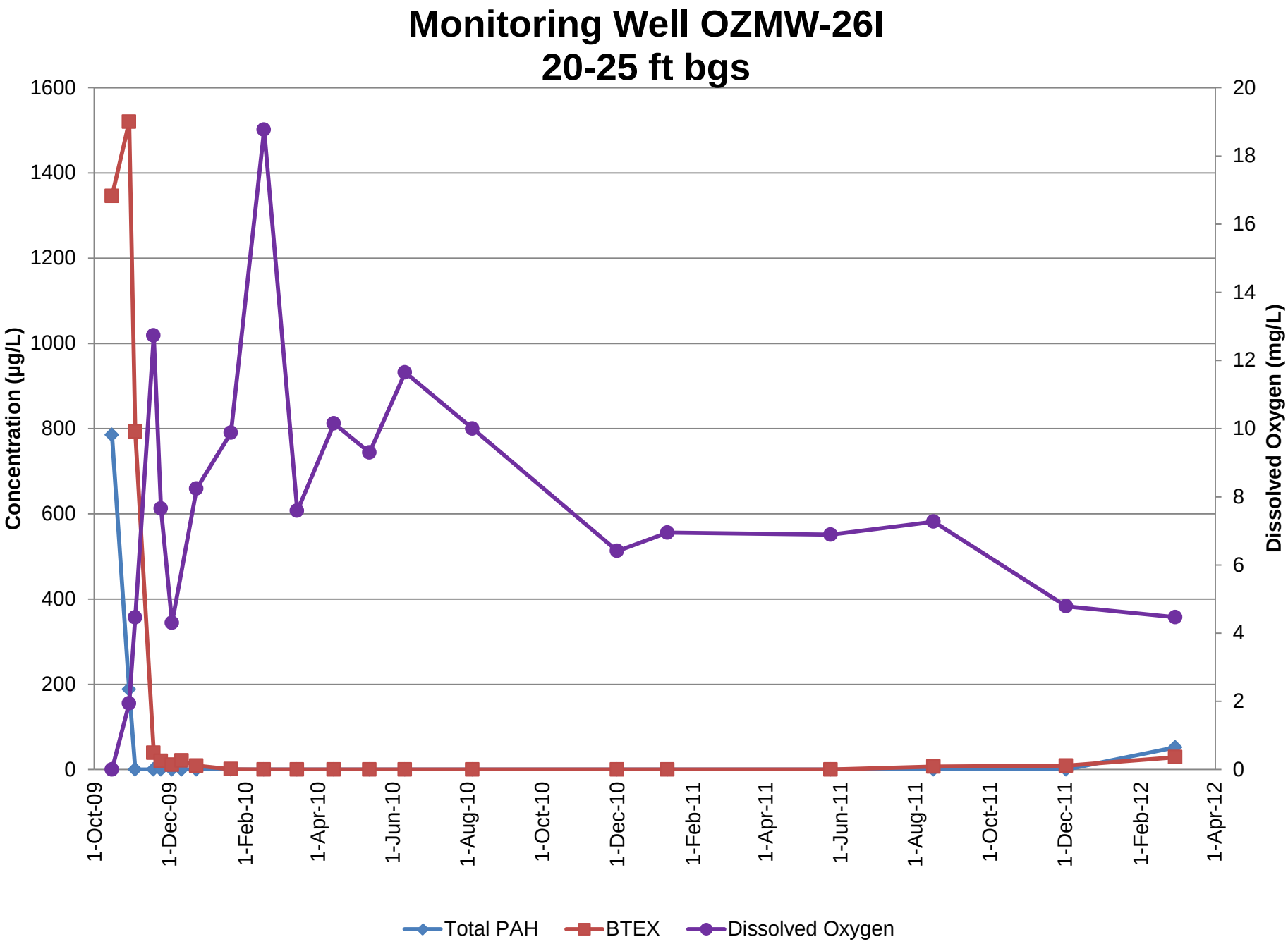

Monitoring Well OZMW-25I
20-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
7000
6000
5000
4000
3000
2000
1000
0
12
10
8
6
4
2
0
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

Monitoring Well OZMW-25I2
35-45 ft bgs

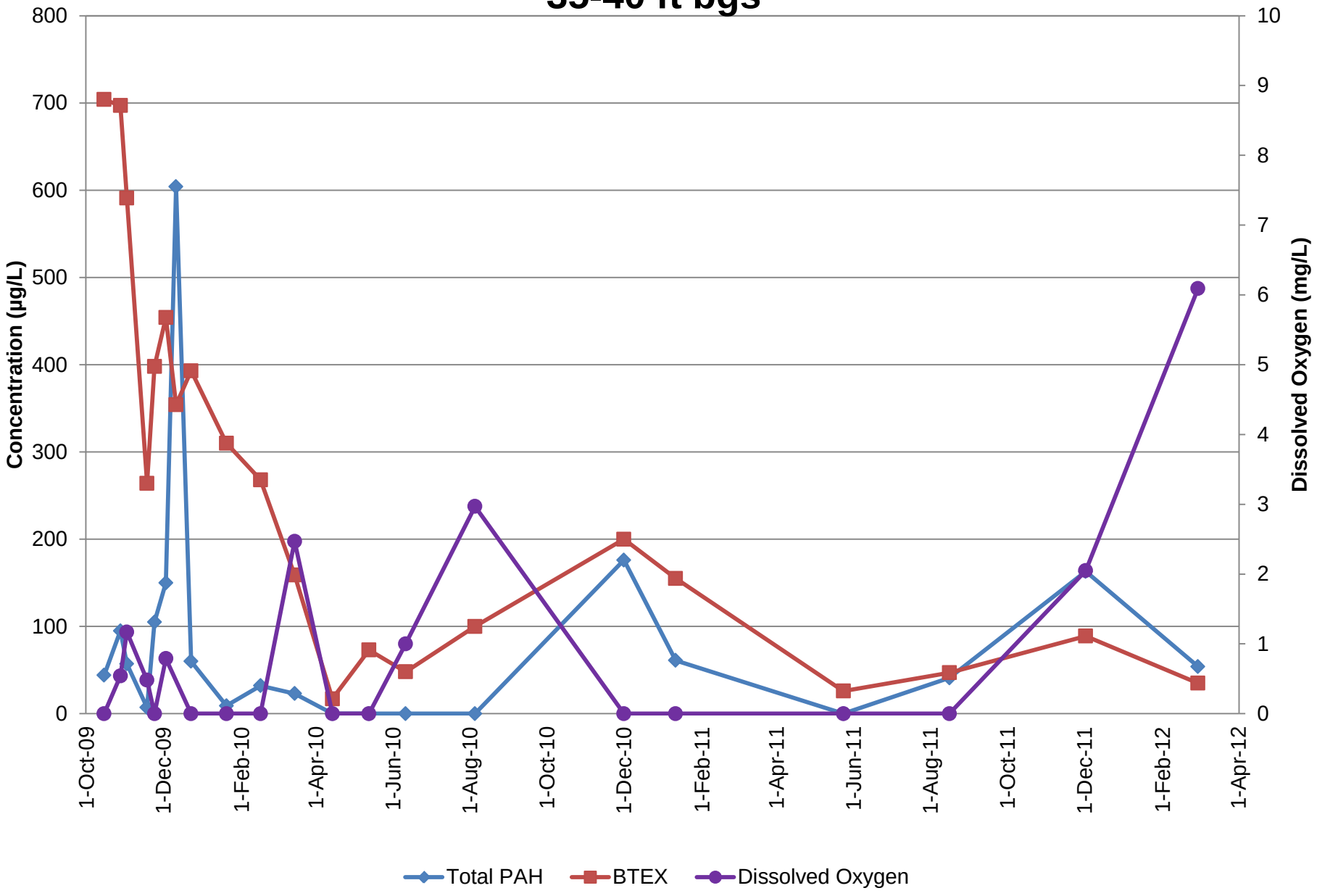



Monitoring Well OZMW-25D
55-65 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
3000
2500
2000
1500
1000
500
0
10
9
8
7
6
5
4
3
2
1
0
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

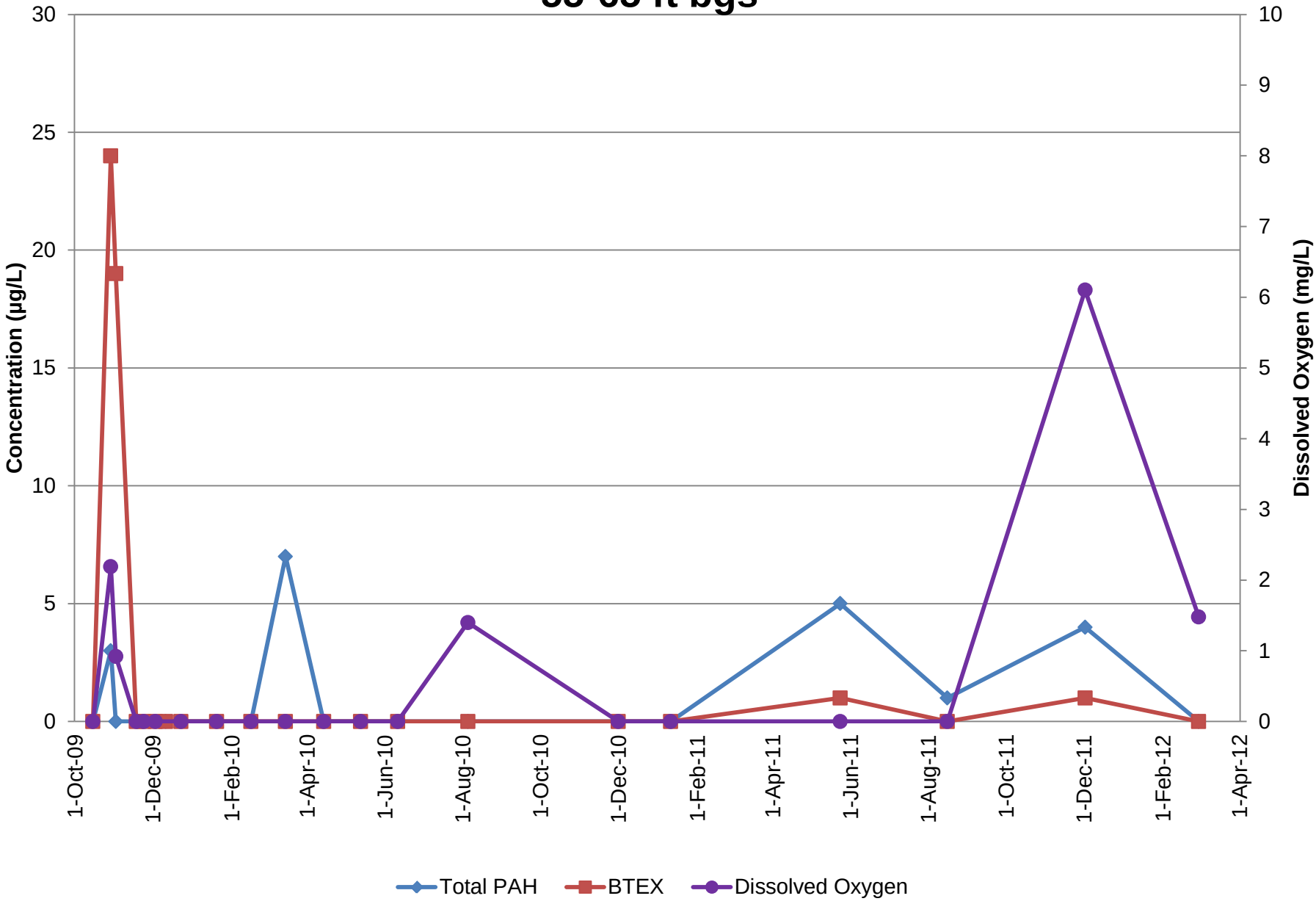

Monitoring Well OZMW-26S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
10
9
8
7
6
5
4
3
2
1
0
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen


Monitoring Well OZMW-26I
20-25 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

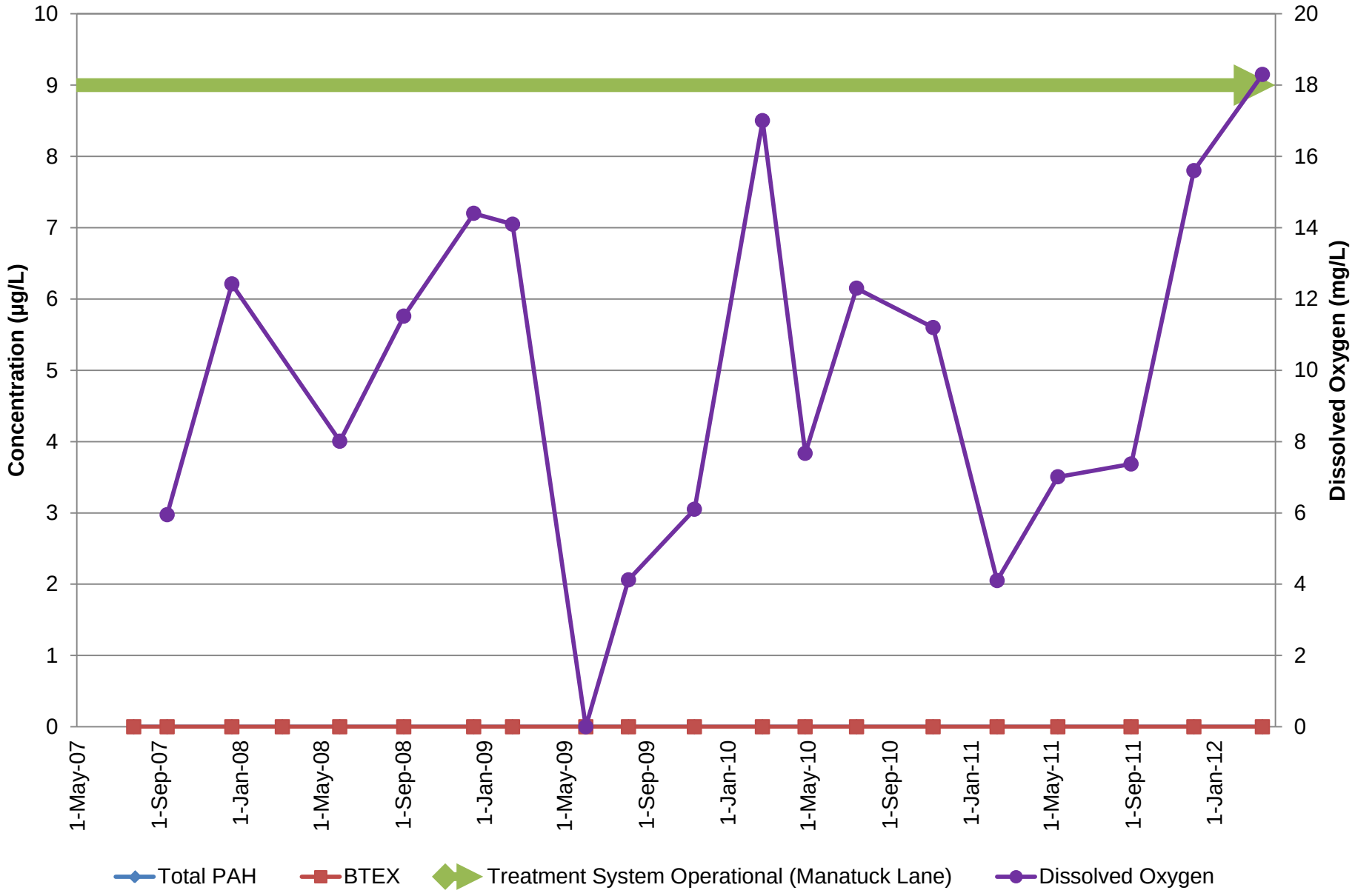
Monitoring Well OZMW-26I2
35-40 ft bgs



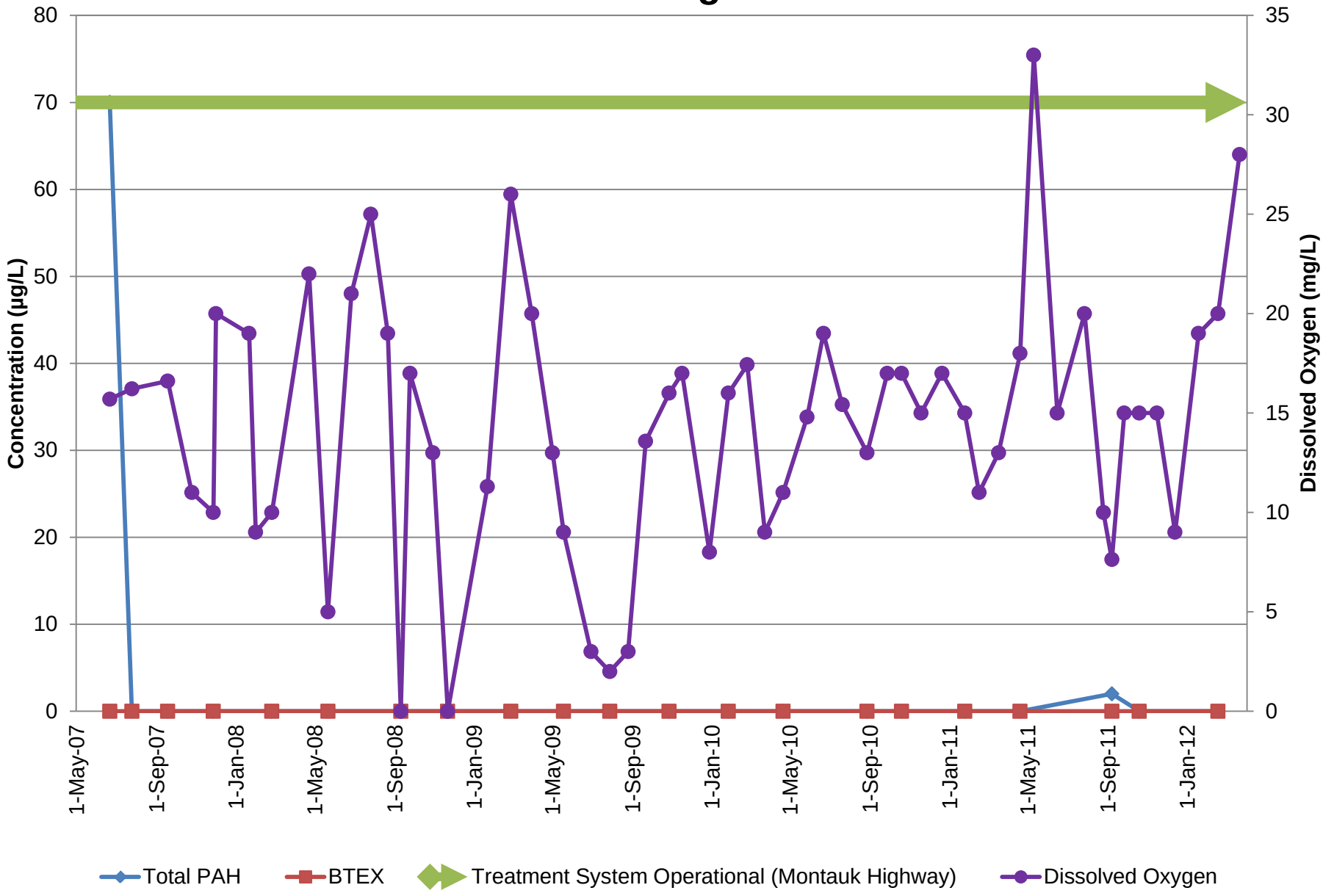
Monitoring Well OZMW-26D
55-65 ft bgs



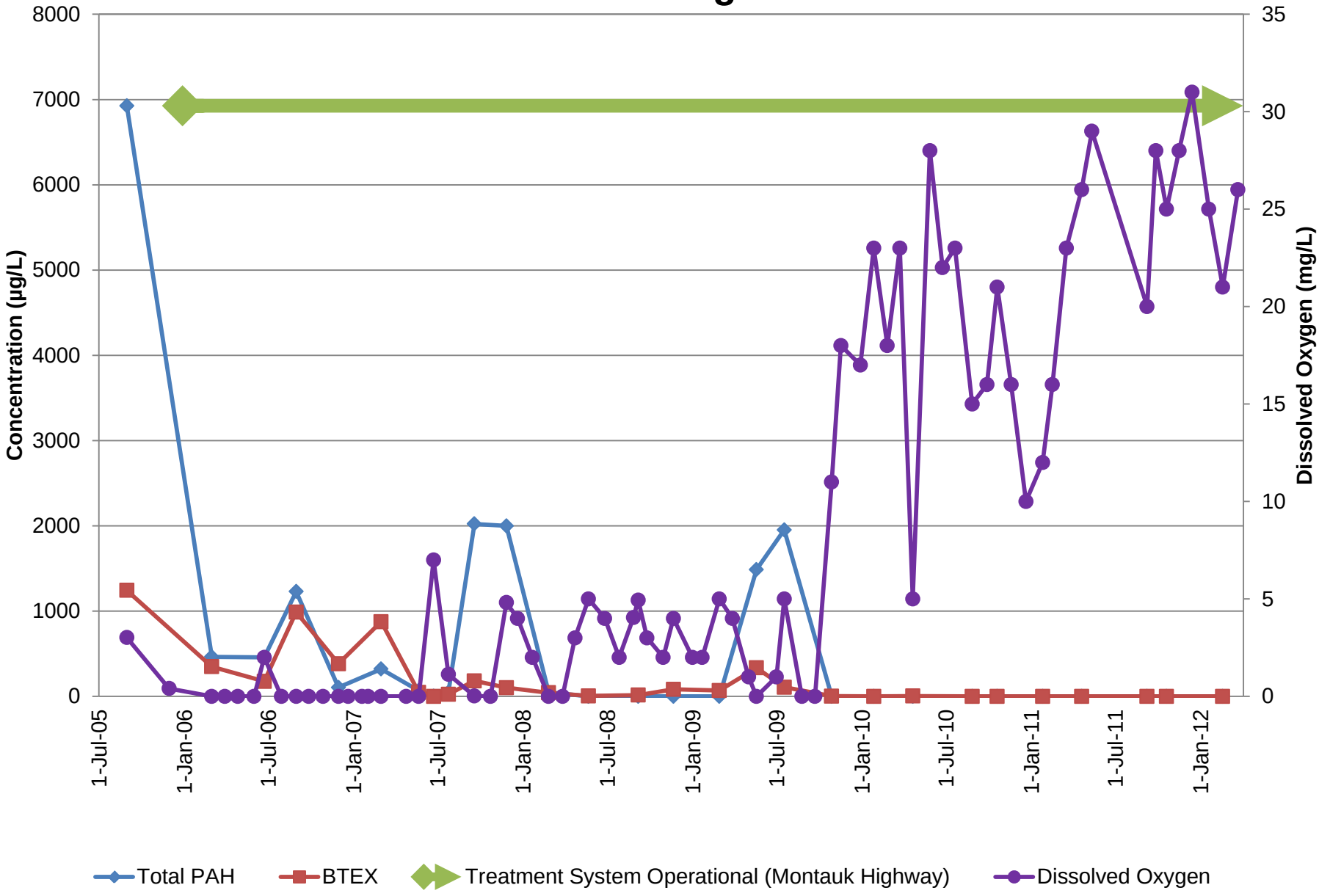
Monitoring Well OU2IW-01S
3-8 ft bgs



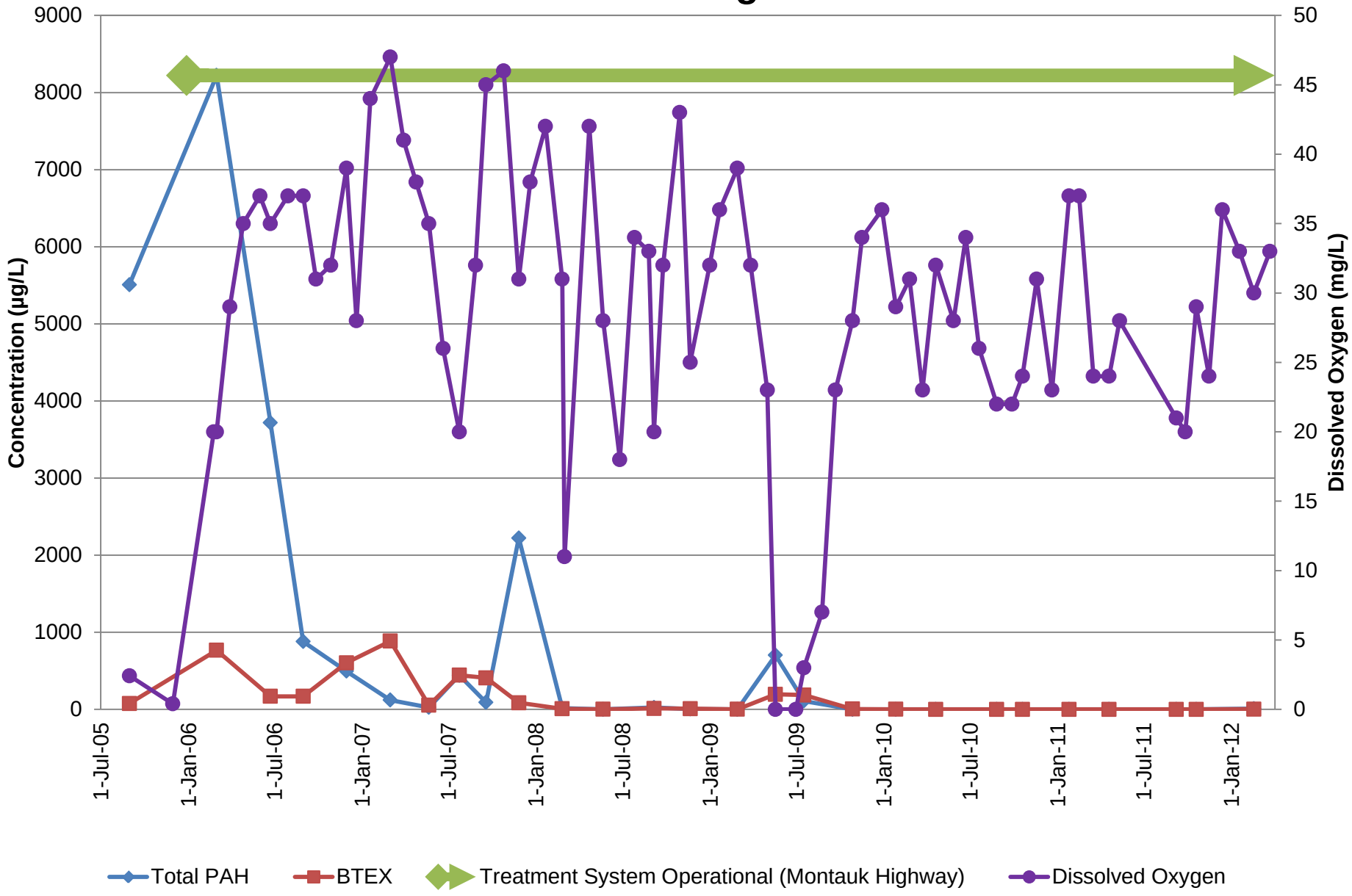
Monitoring Well OU2MW-01WT
3-8 ft bgs



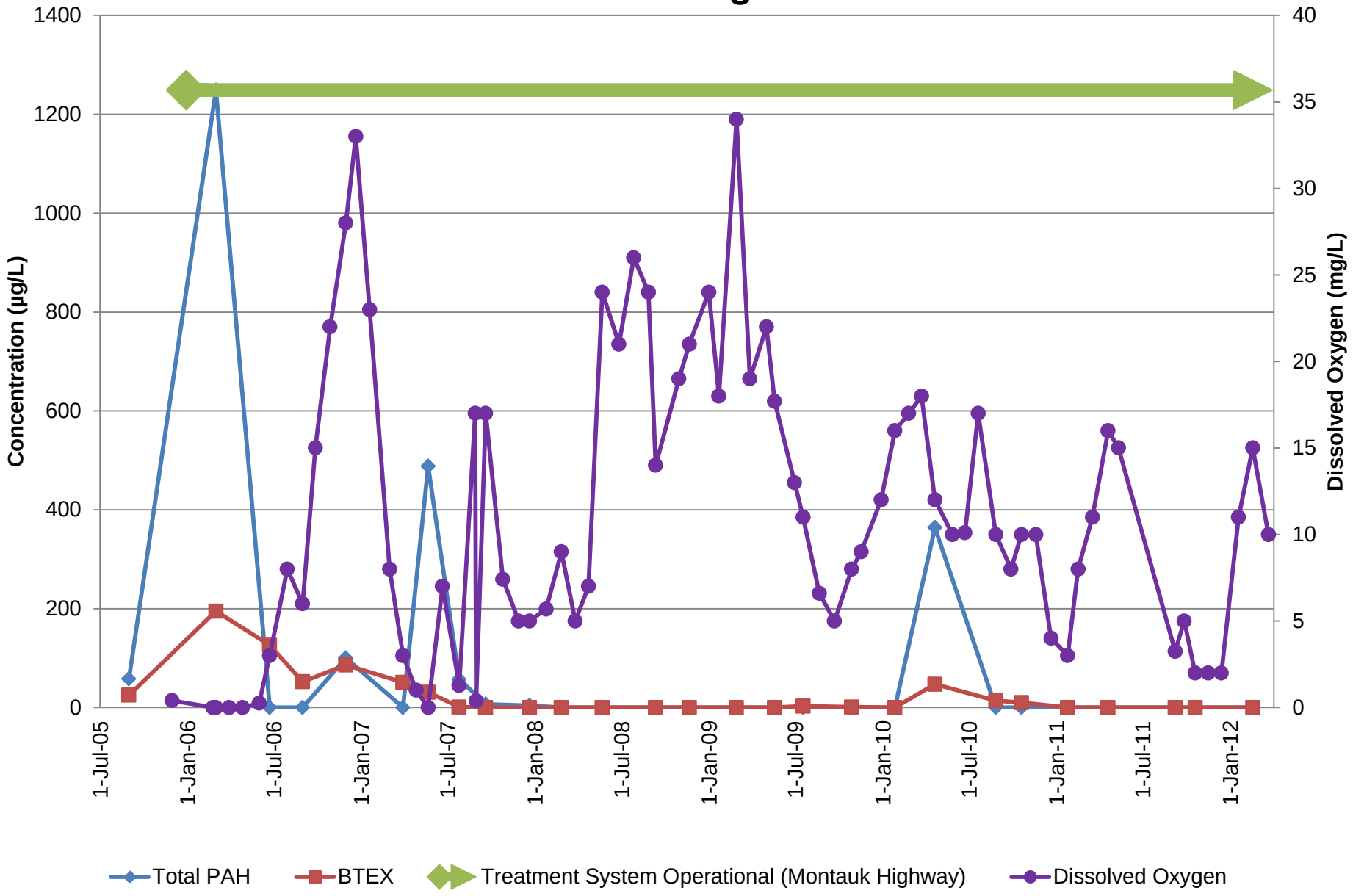
Monitoring Well OU2MW-01S
20-25 ft bgs



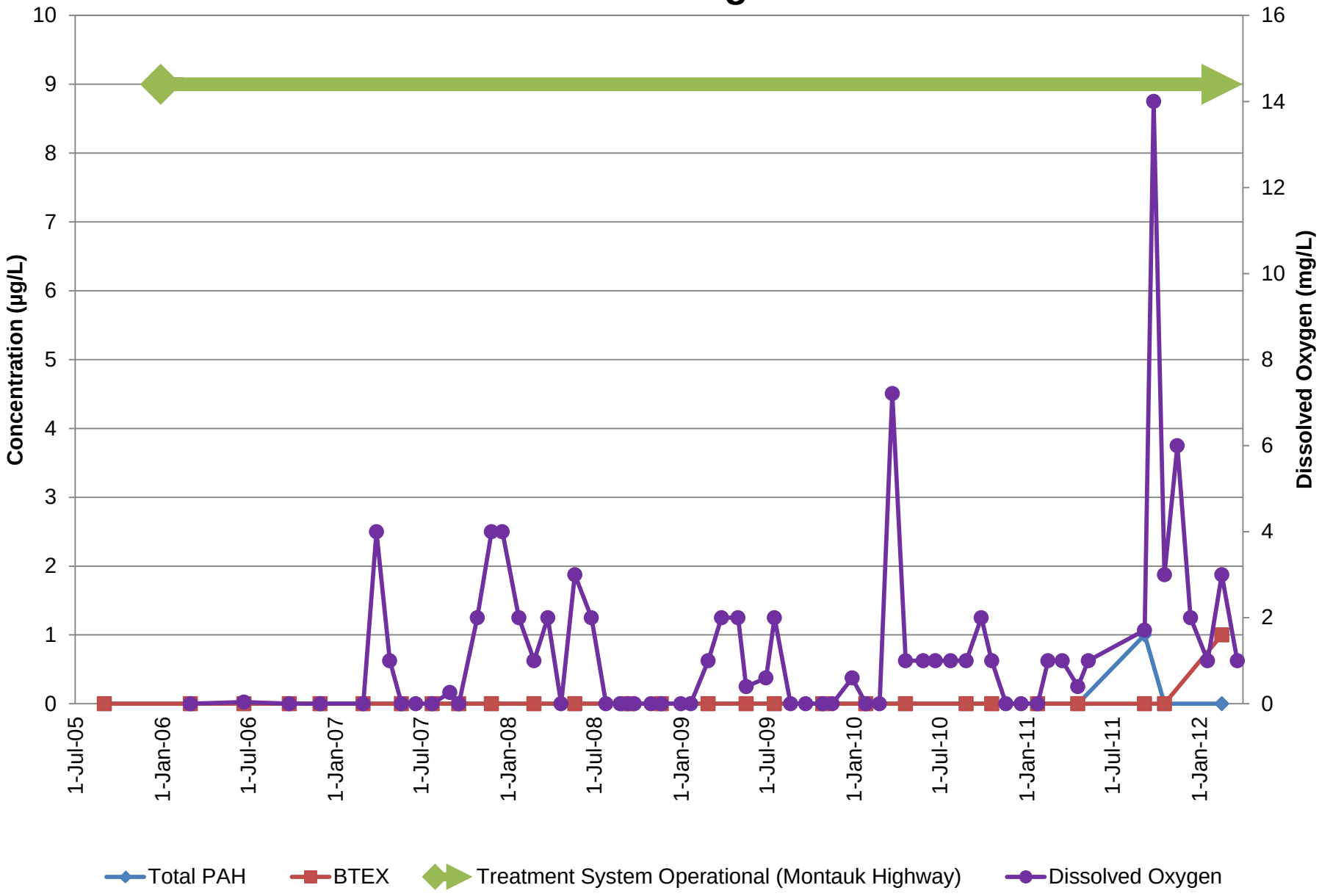
Monitoring Well OU2MW-01I
35-40 ft bgs



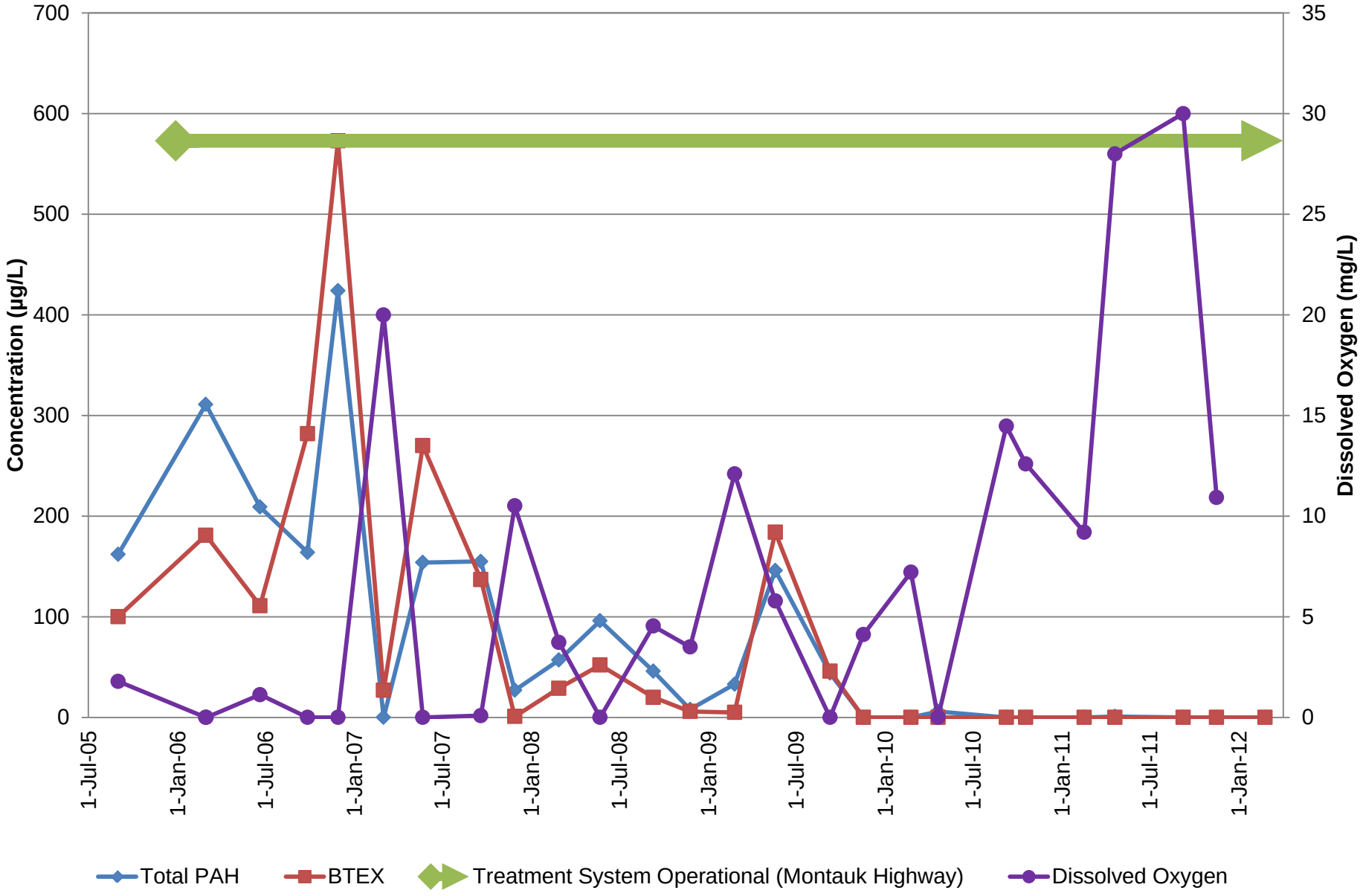
Monitoring Well OU2MW-01I2
50-55 ft bgs



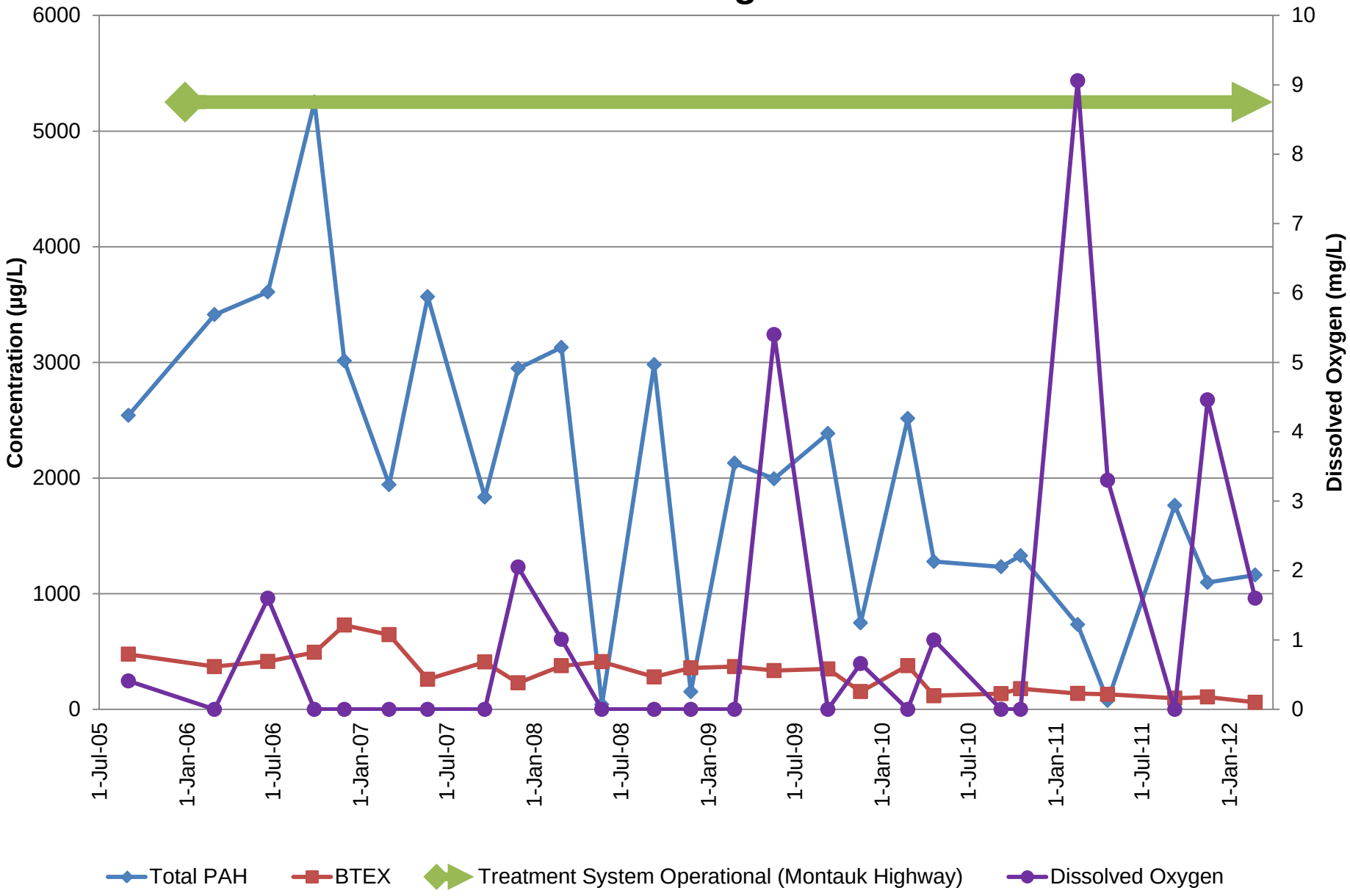
Monitoring Well OU2MW-01D
65-70 ft bgs



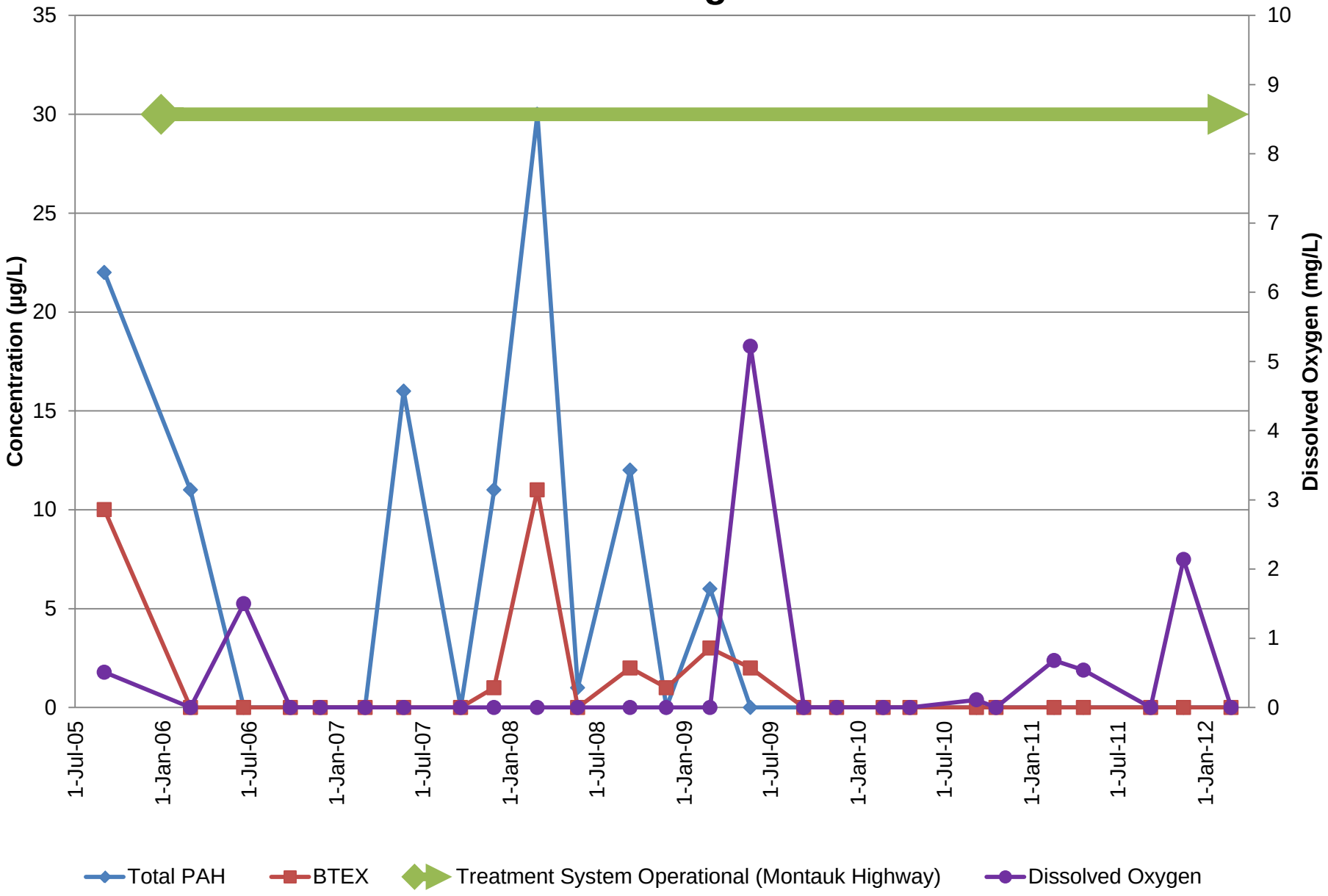
Monitoring Well OU2MW-02S
20-25 ft bgs



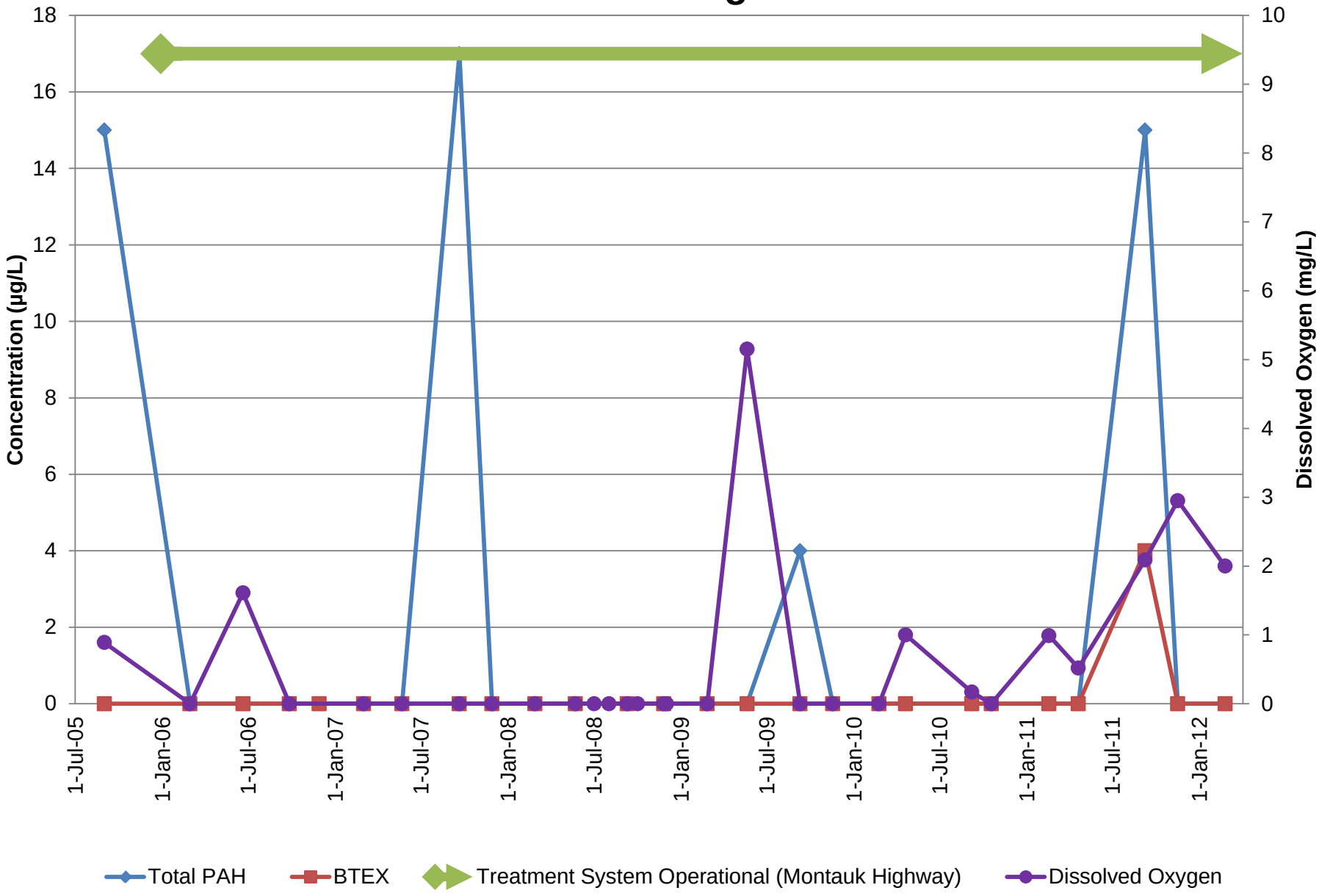
Monitoring Well OU2MW-02I
35-40 ft bgs



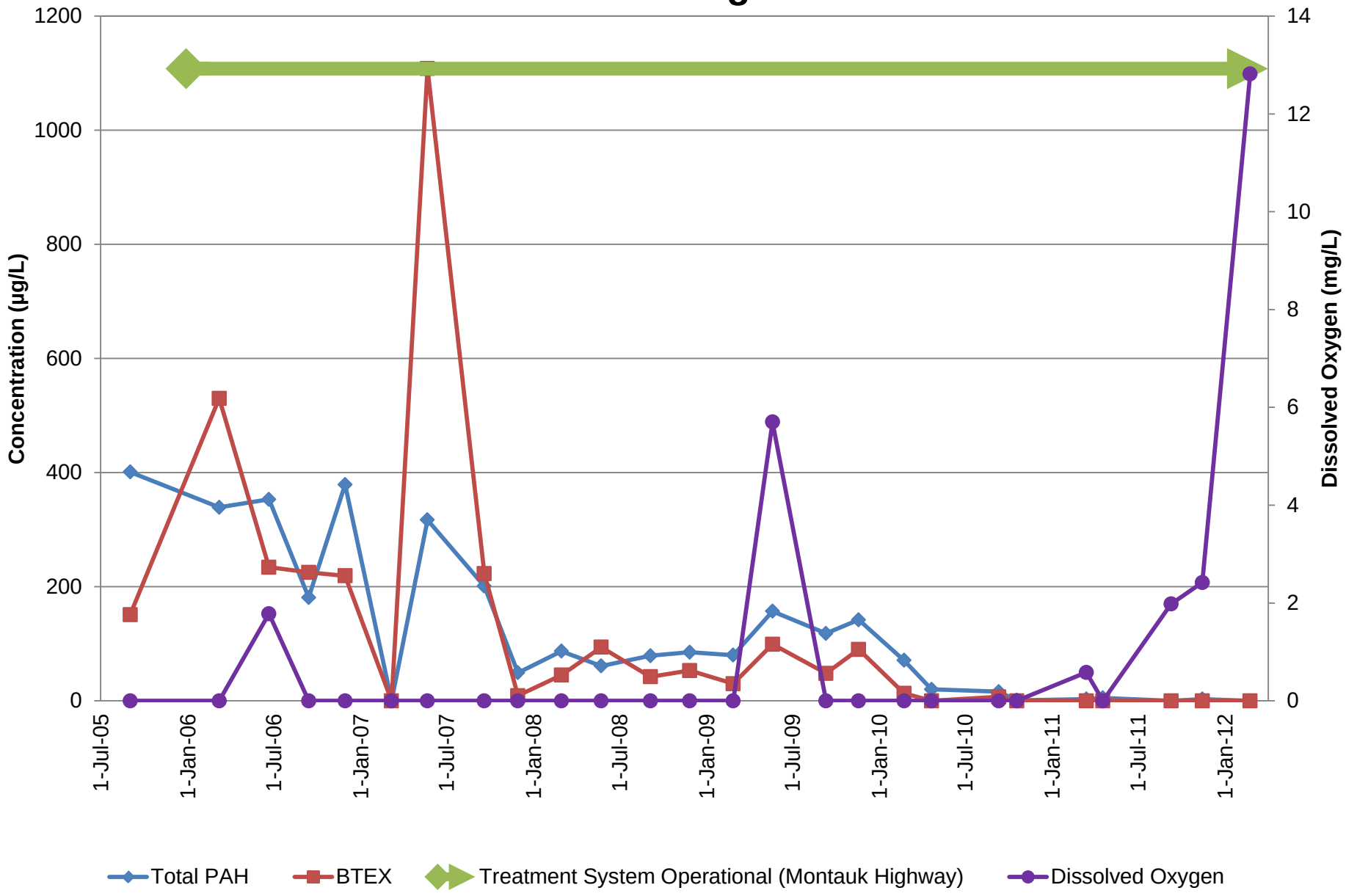
Monitoring Well OU2MW-02I2
50-55 ft bgs



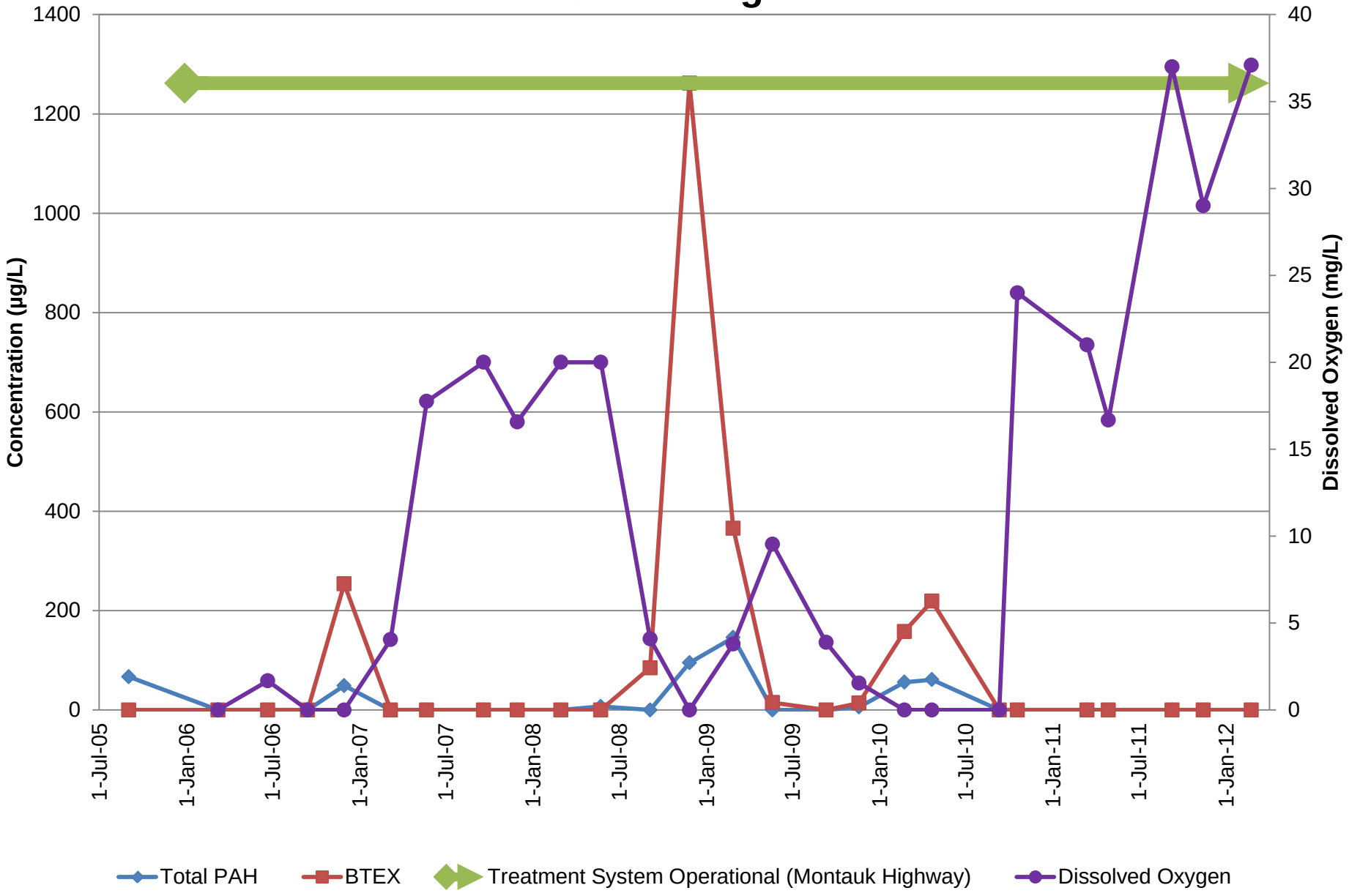
Monitoring Well OU2MW-02D
65-70 ft bgs



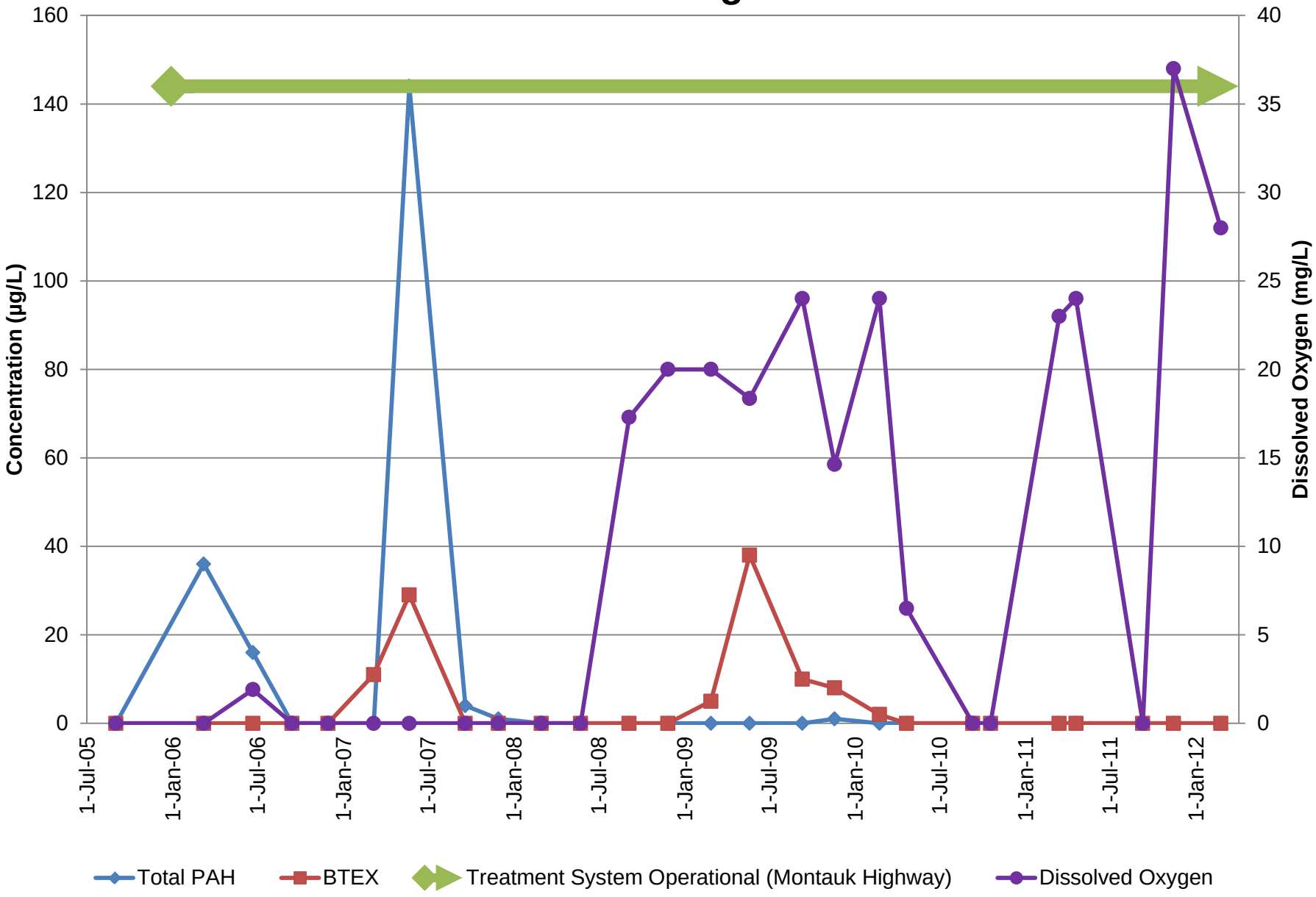
Monitoring Well OU2MW-03S
20-25 ft bgs



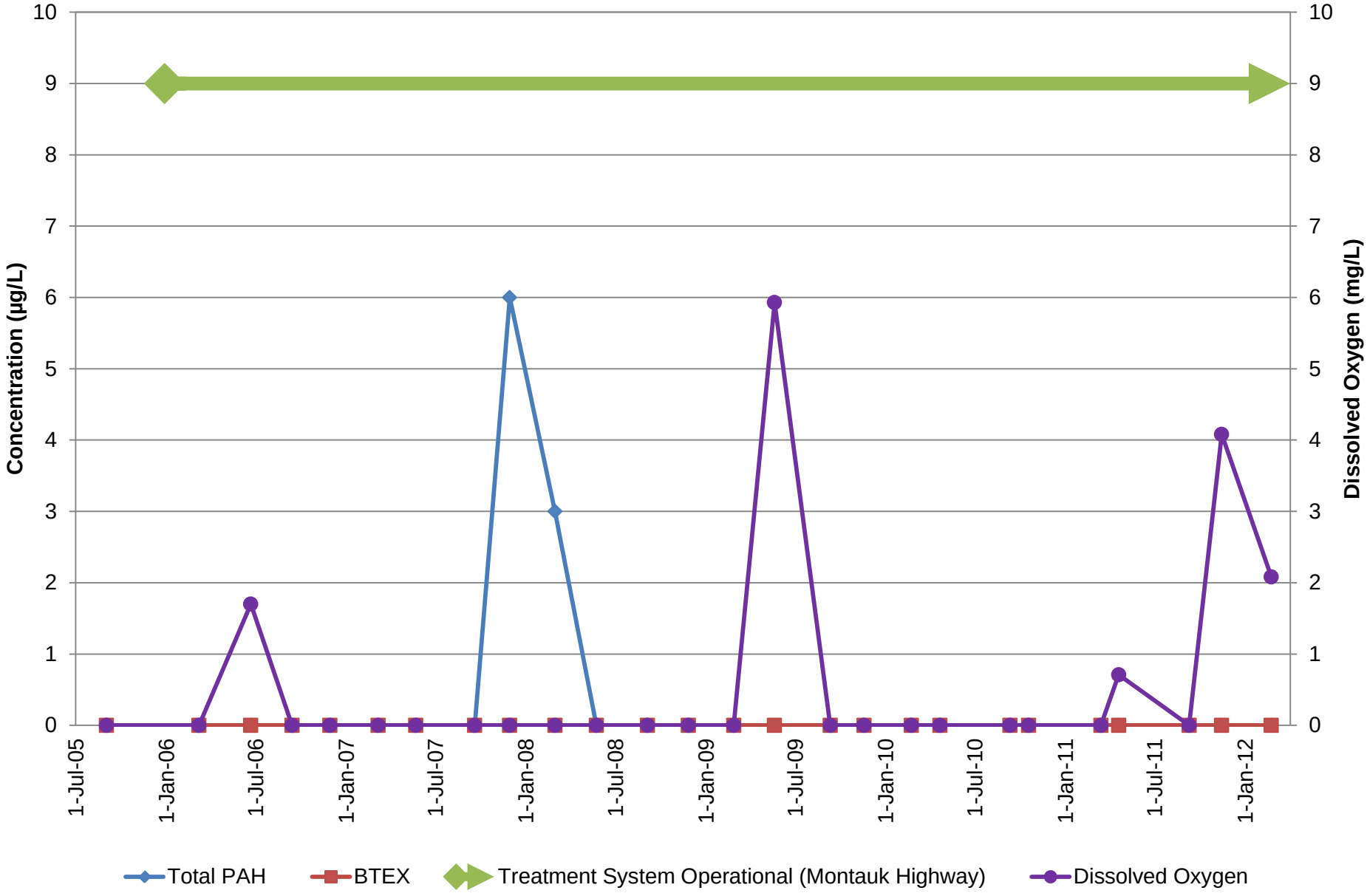
Monitoring Well OU2MW-03I
35-40 ft bgs



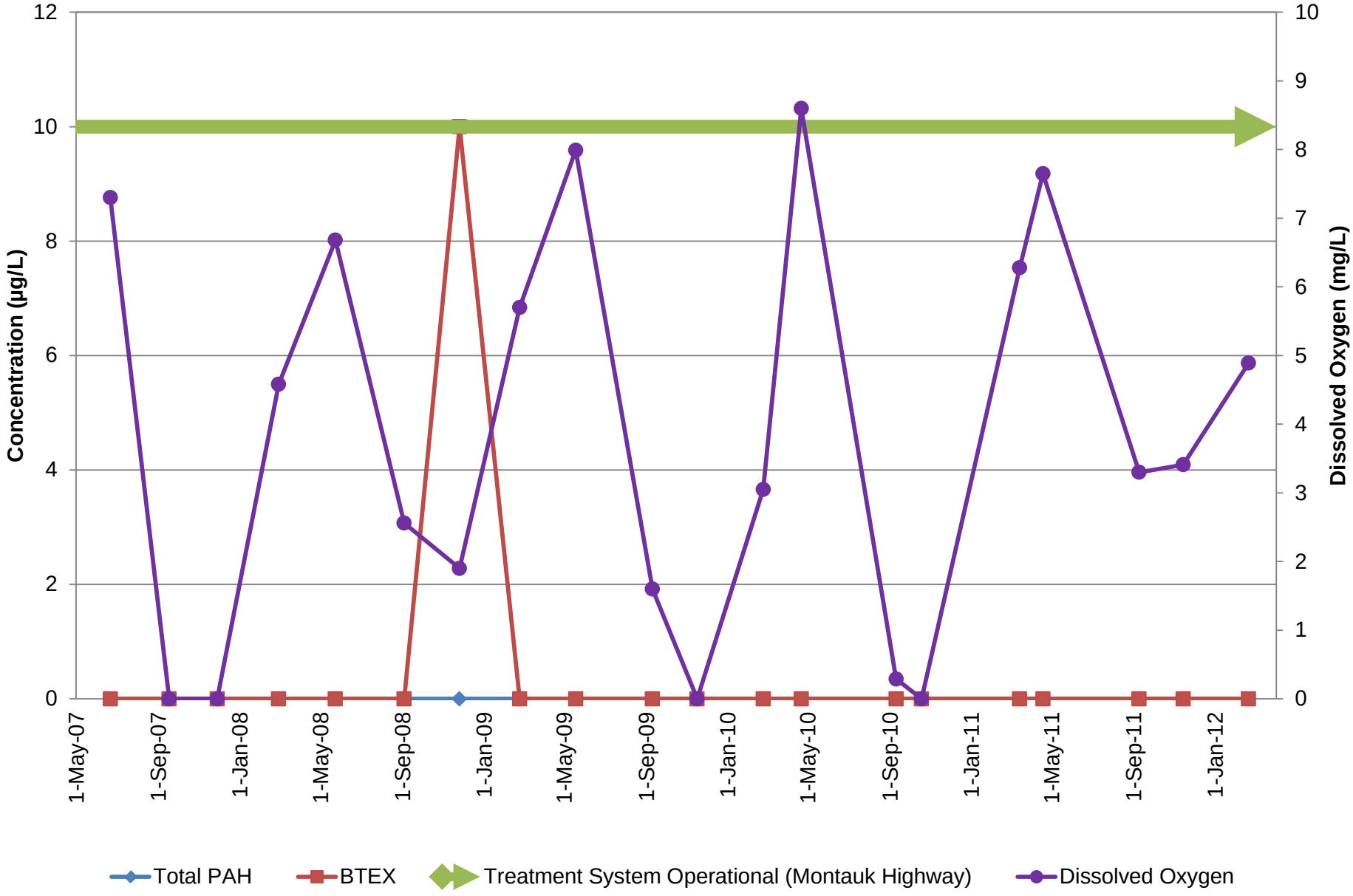
Monitoring Well OU2MW-03I2
50-55 ft bgs



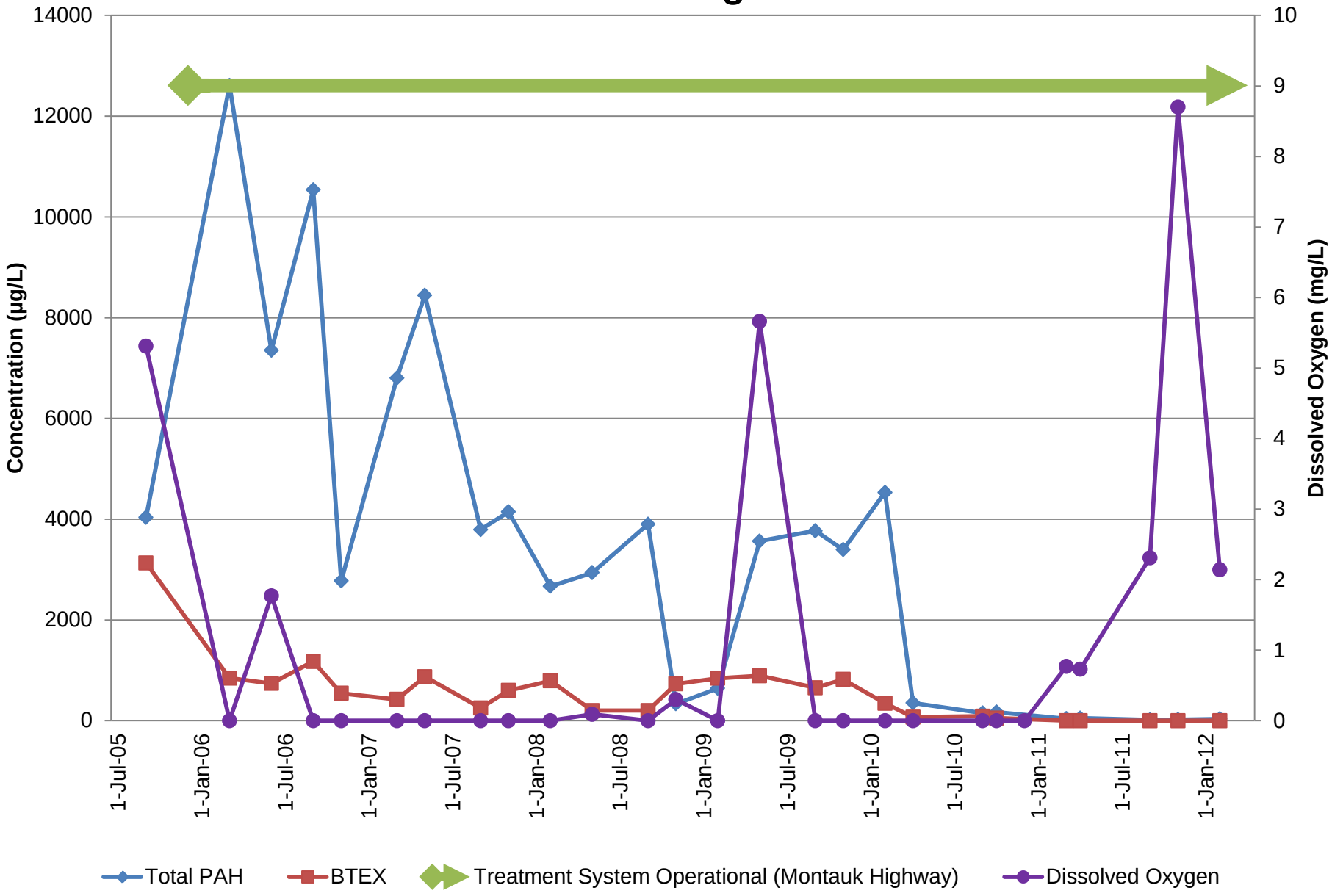
Monitoring Well OU2MW-03D
65-70 ft bgs



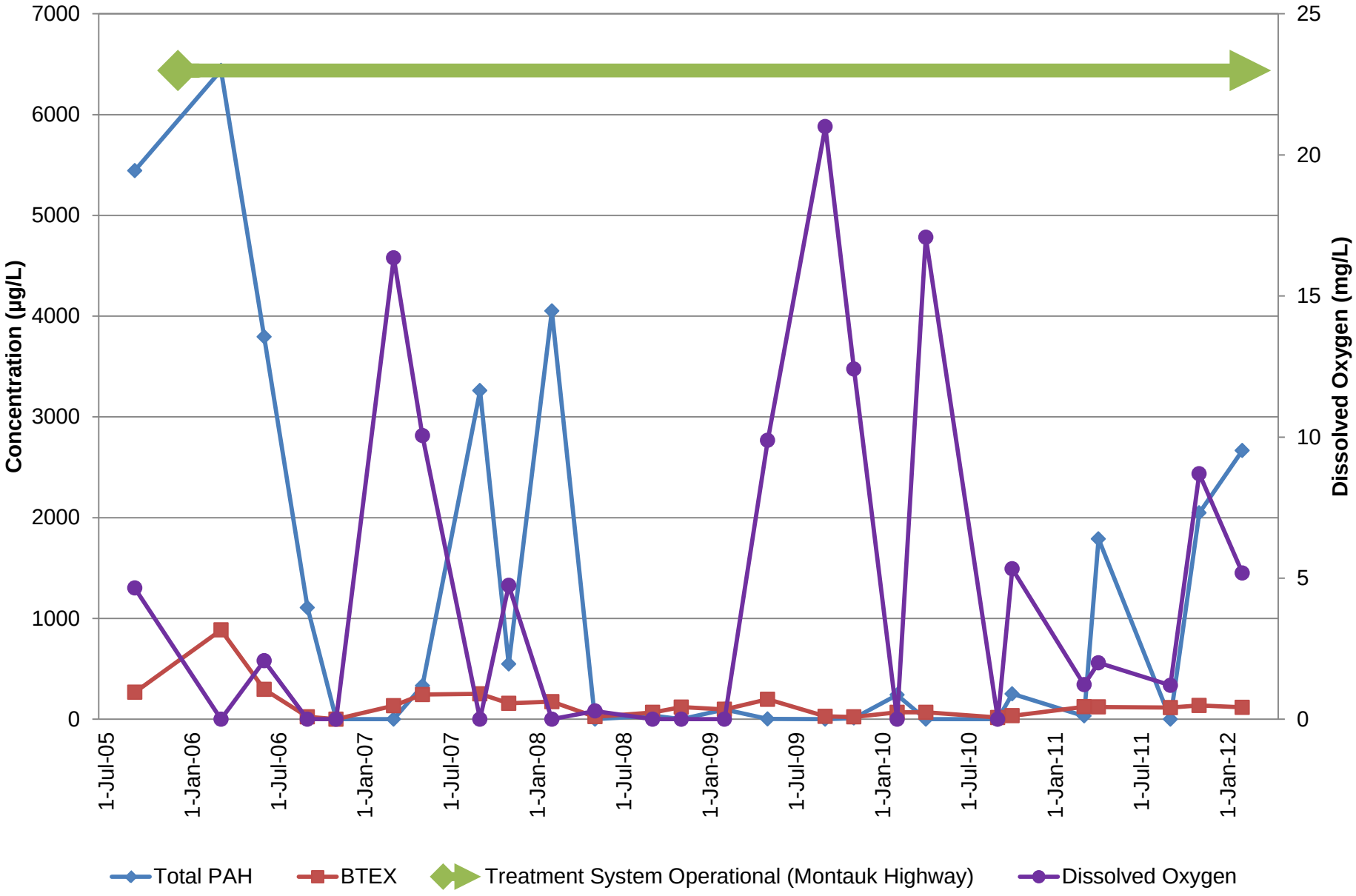
Monitoring Well OU2MW-04WT
3-8 ft bgs



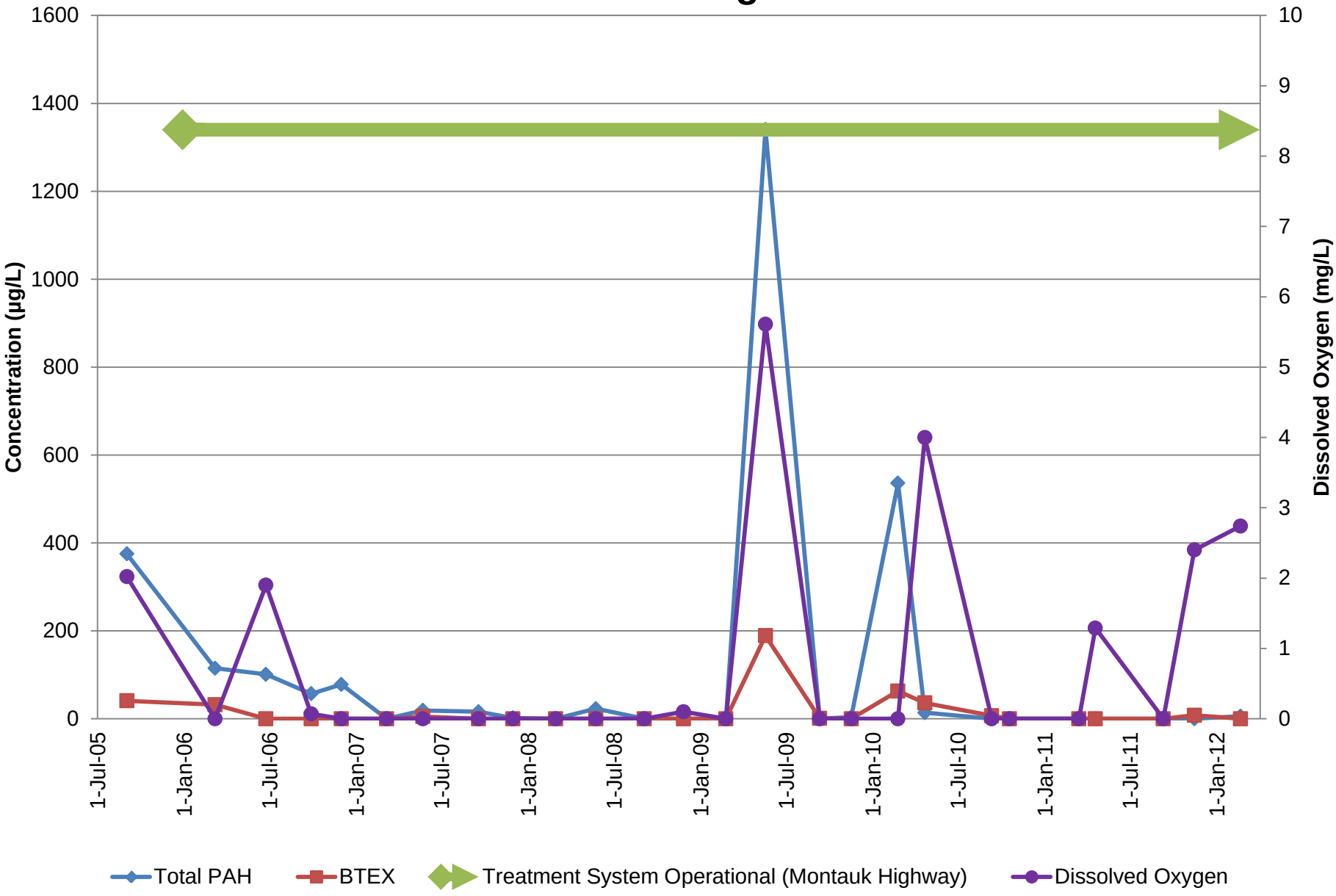
Monitoring Well OU2MW-04S
20-25 ft bgs



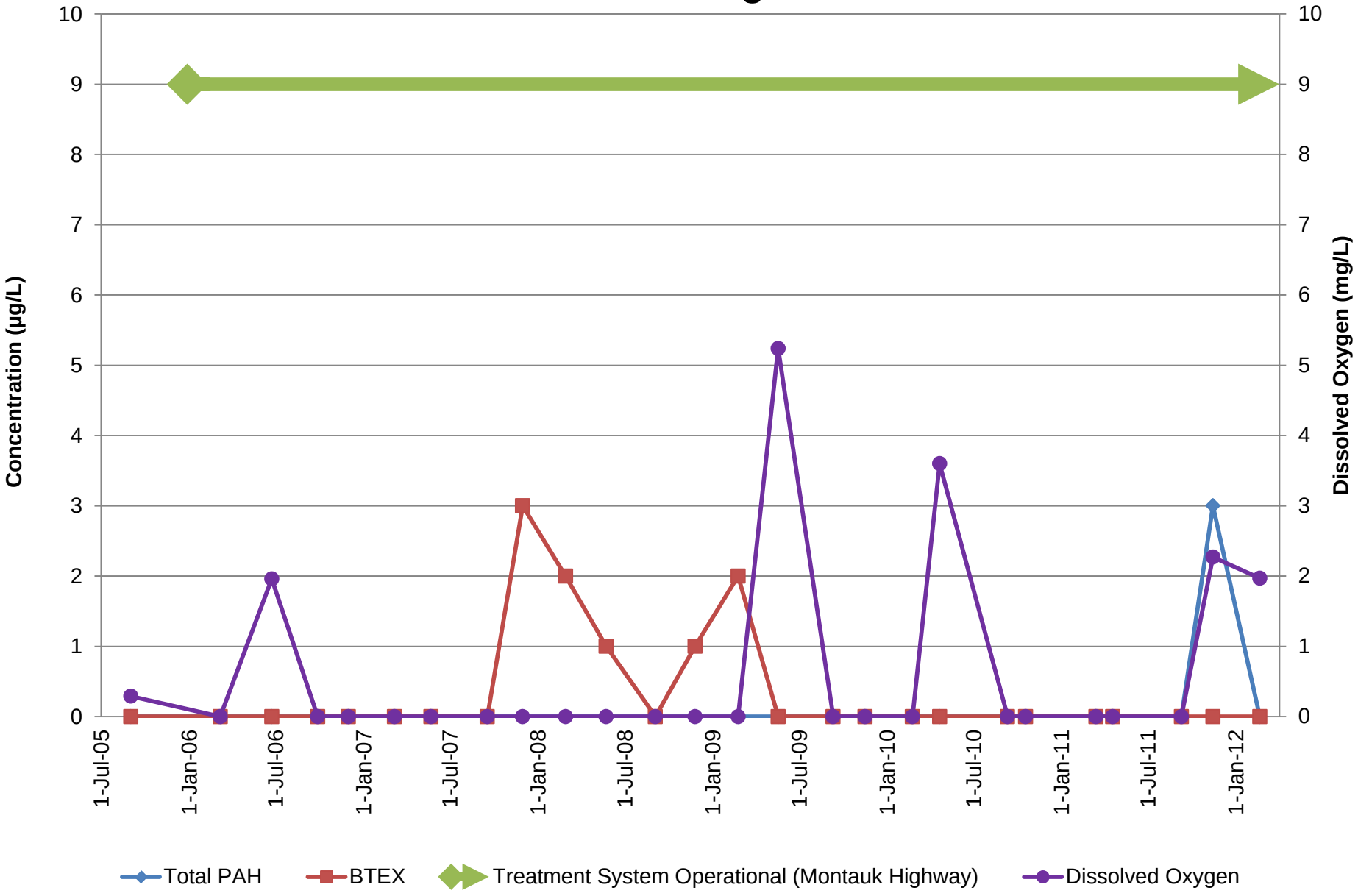
Monitoring Well OU2MW-04I
35-40 ft bgs



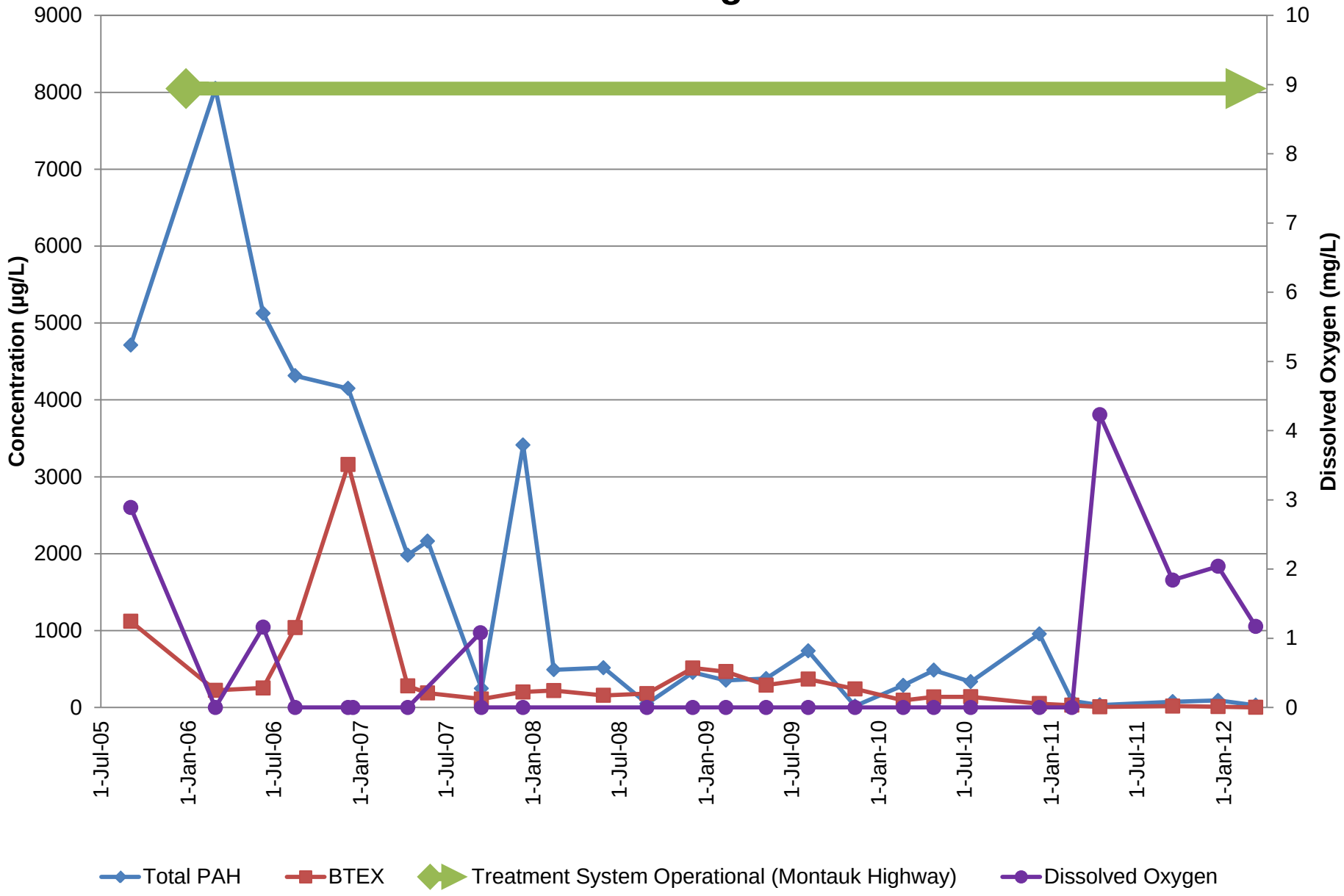
Monitoring Well OU2MW-04I2
50-55 ft bgs



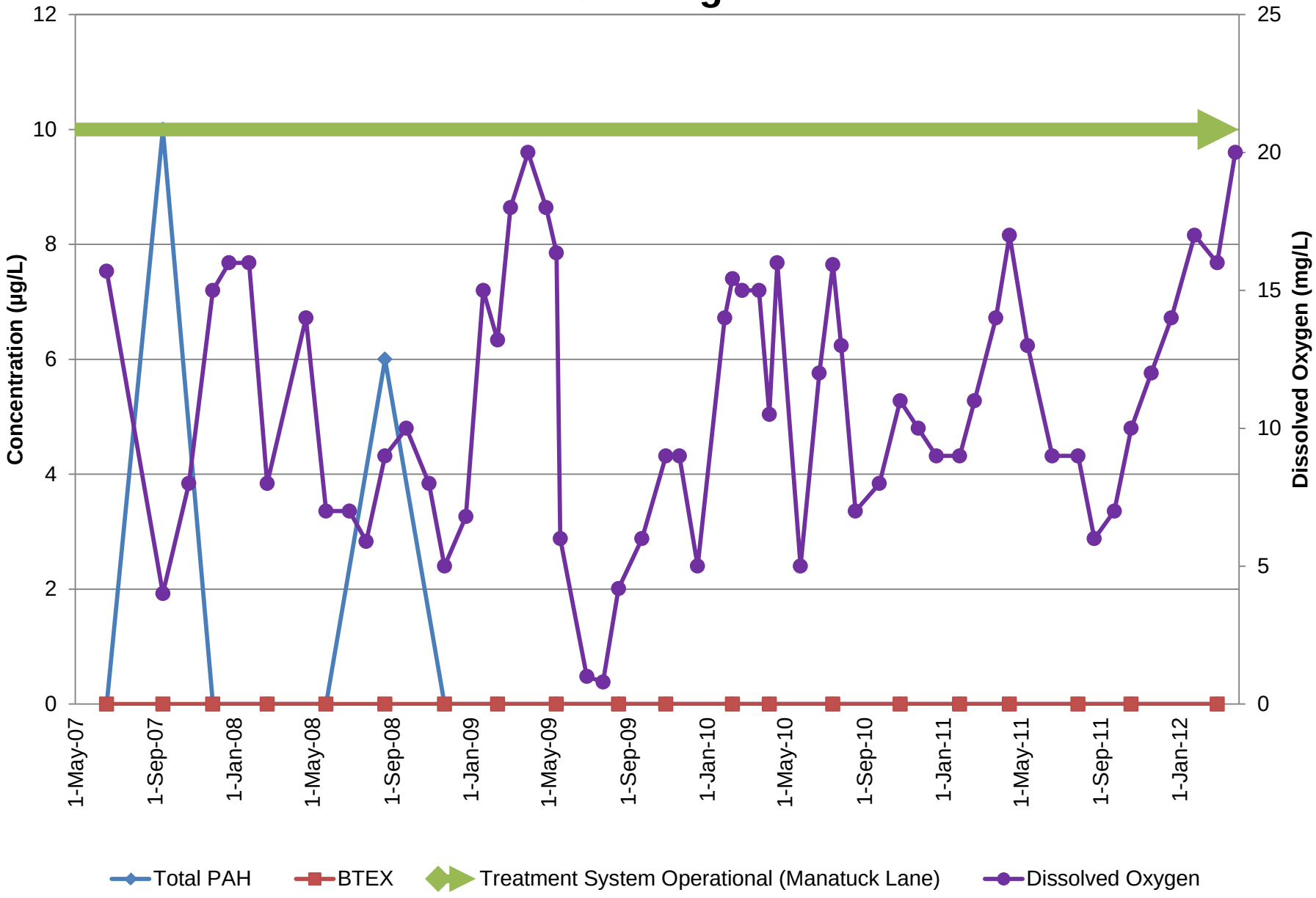
Monitoring Well OU2MW-04D
65-70 ft bgs



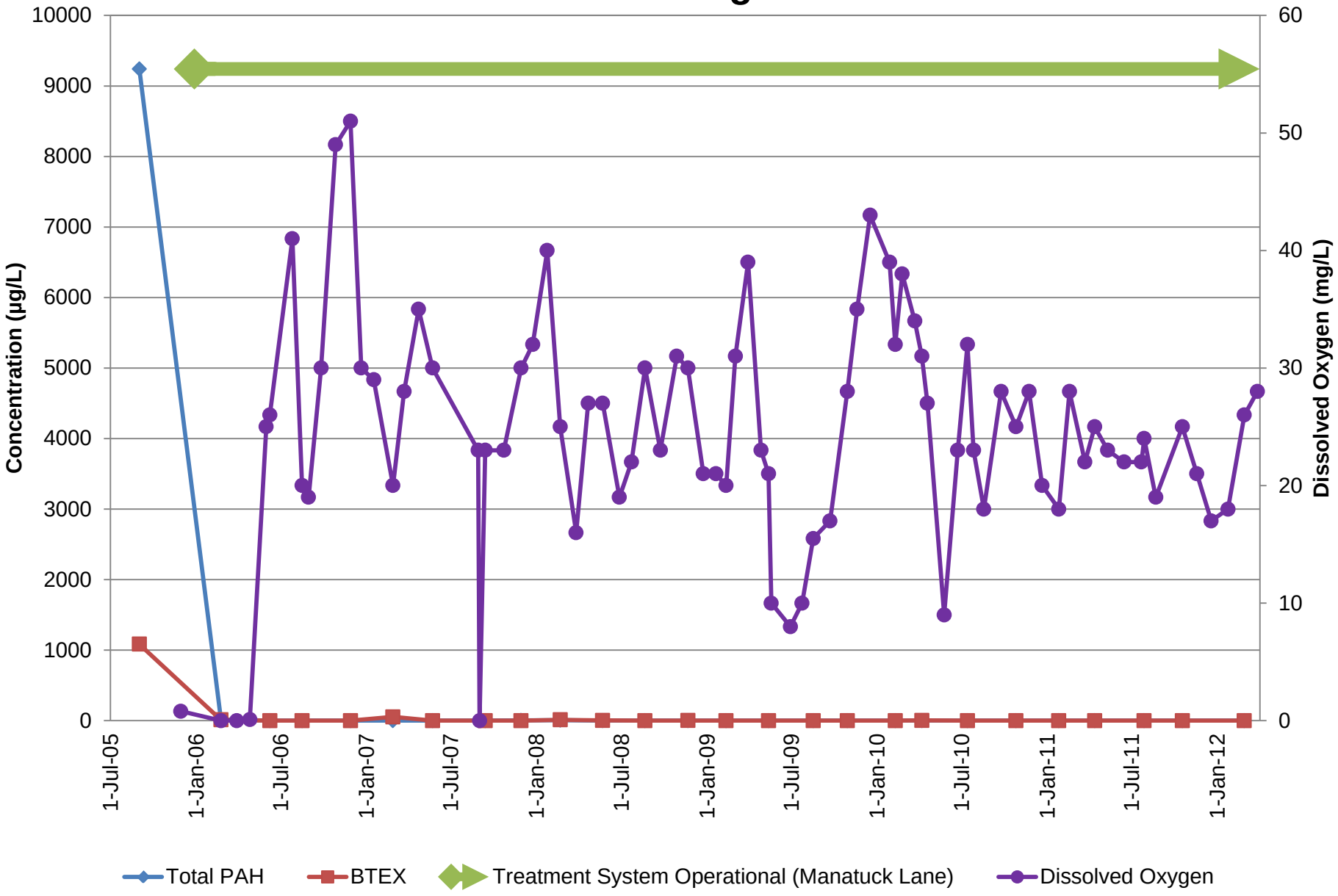
Monitoring Well OU2MW-05
25-35 ft bgs



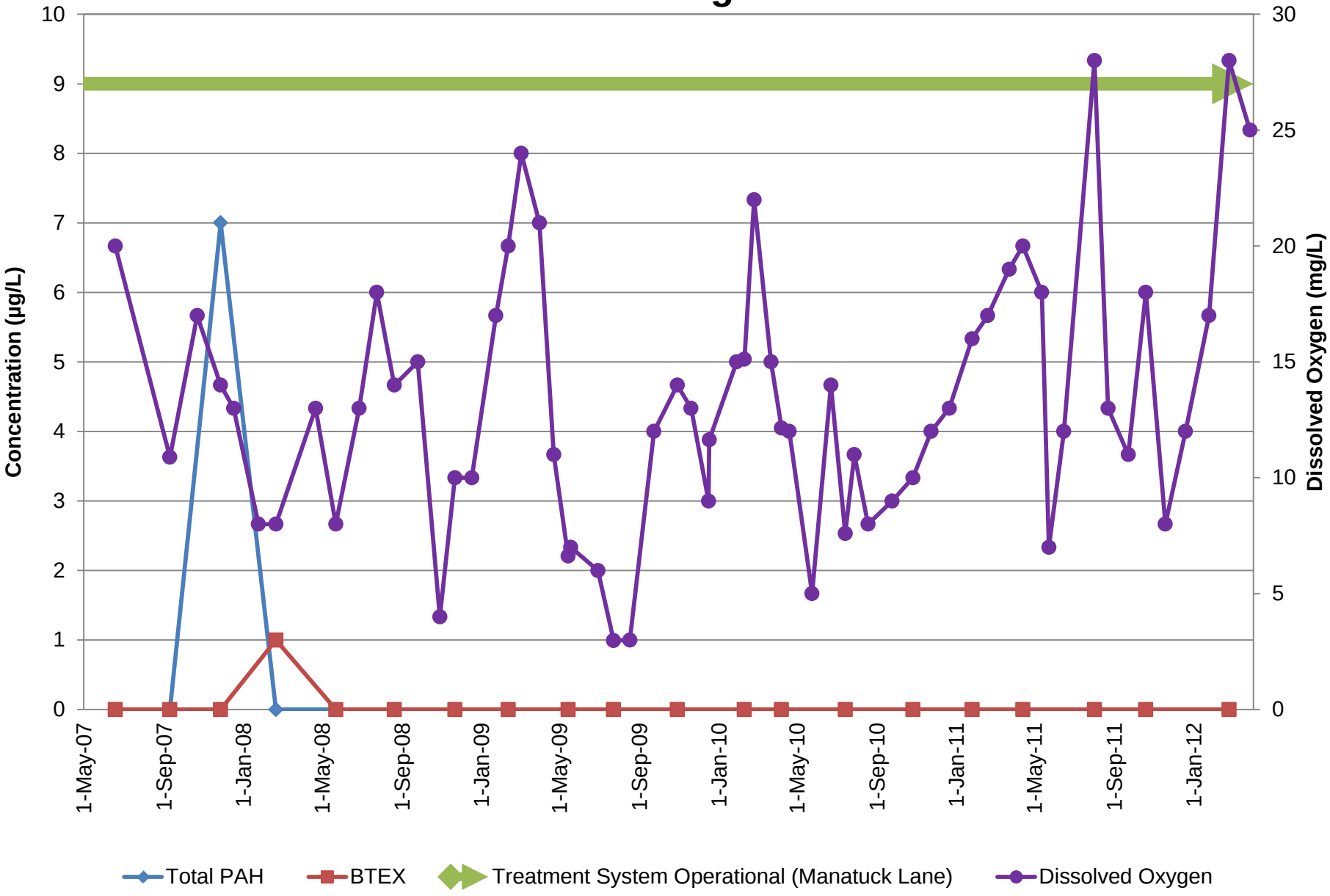
Monitoring Well OU2MW-06S
3-8 ft bgs



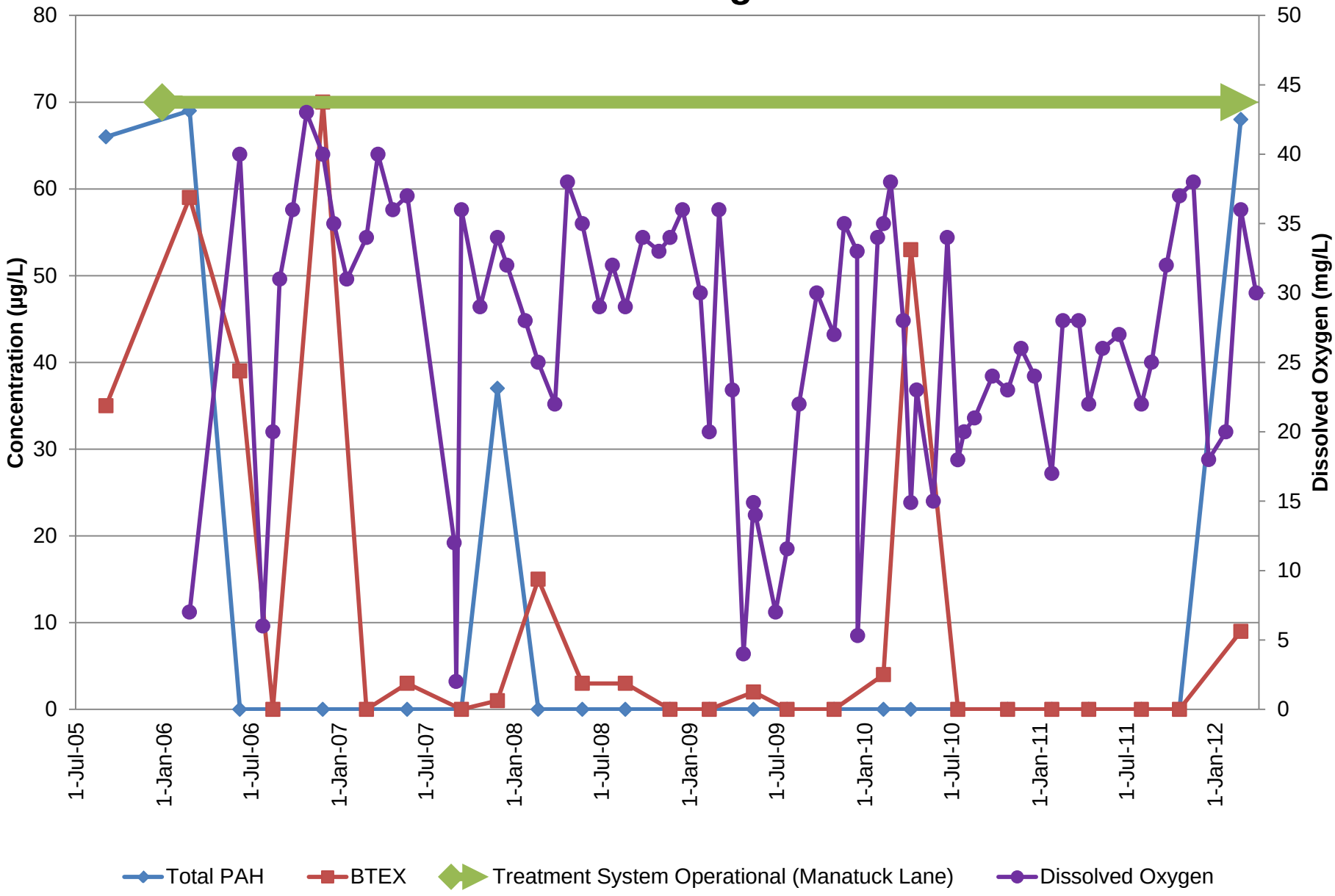
Monitoring Well OU2MW-06
15-25 ft bgs



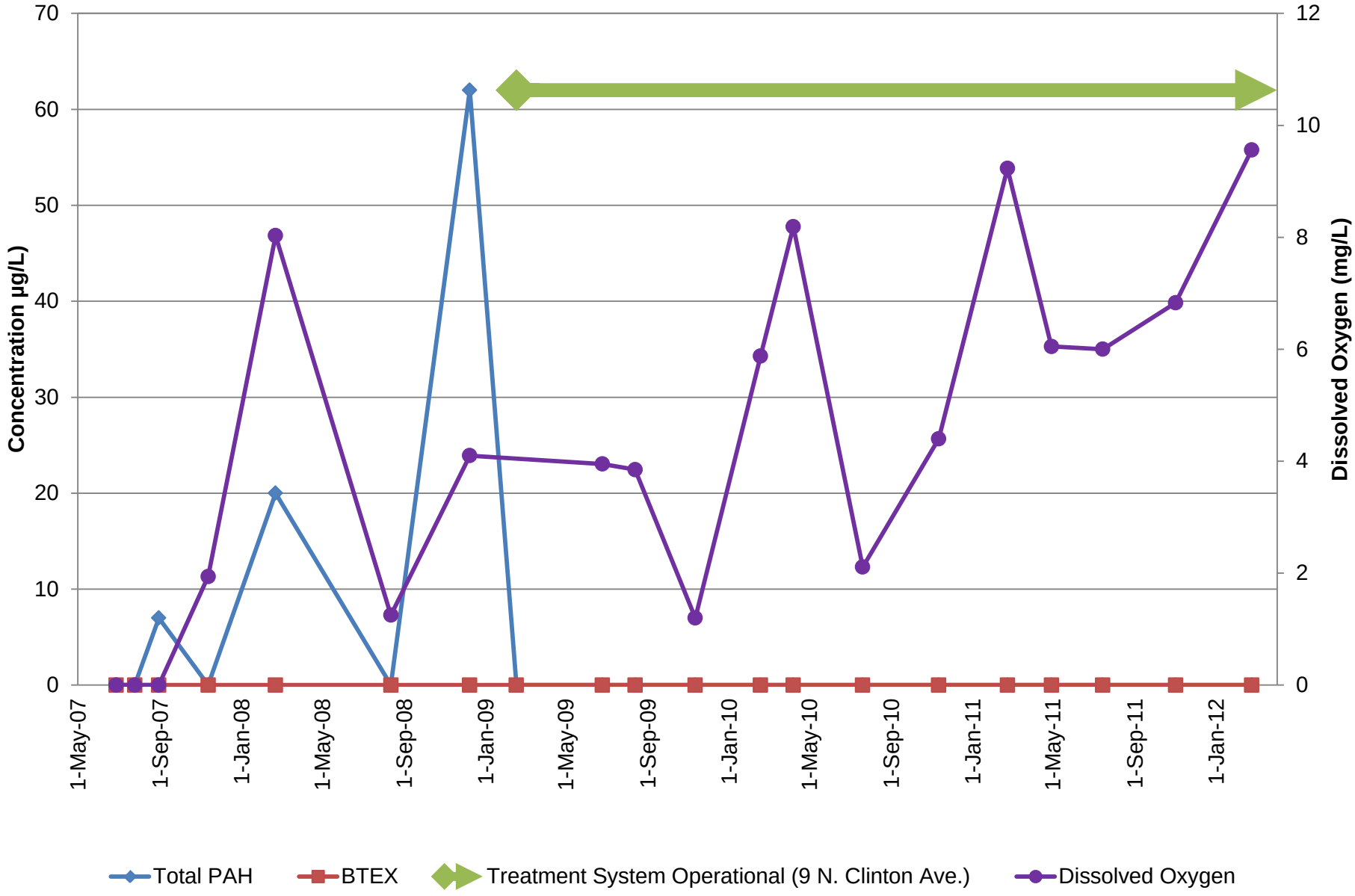
Monitoring Well OU2MW-07S
3-8 ft bgs



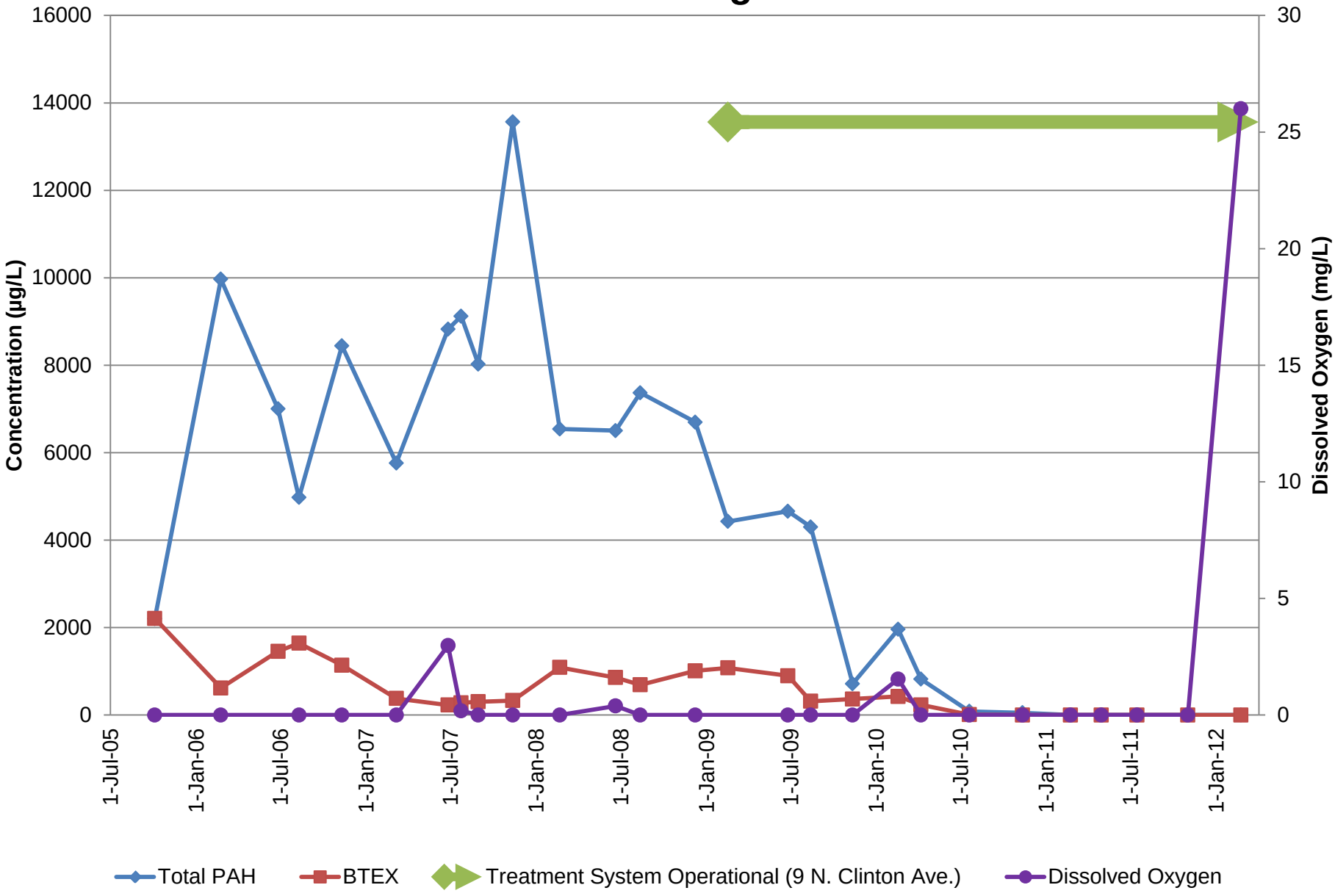
Monitoring Well OU2MW-07
15-25 ft bgs



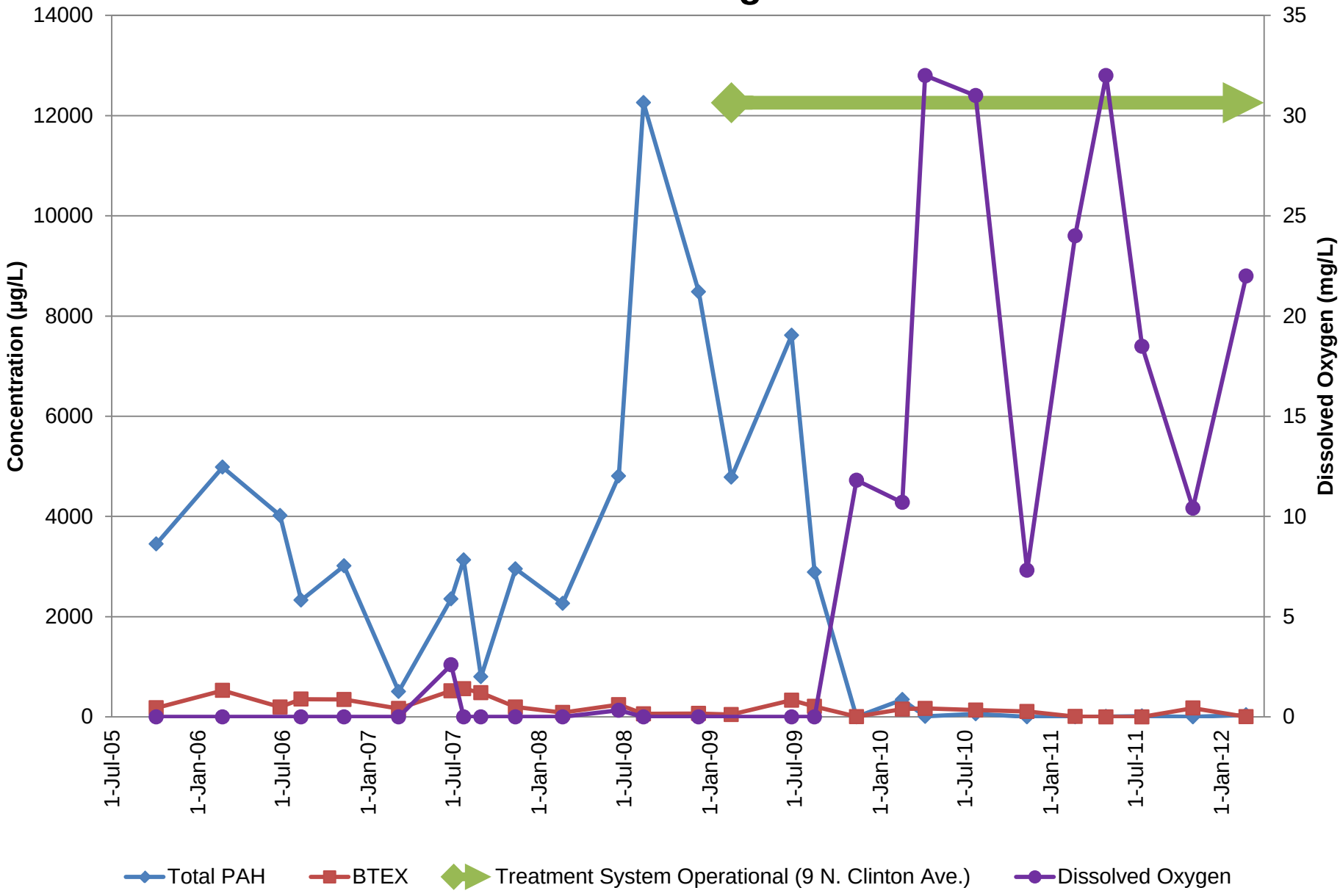
Monitoring Well OU2MW-08WT
3-8 ft bgs



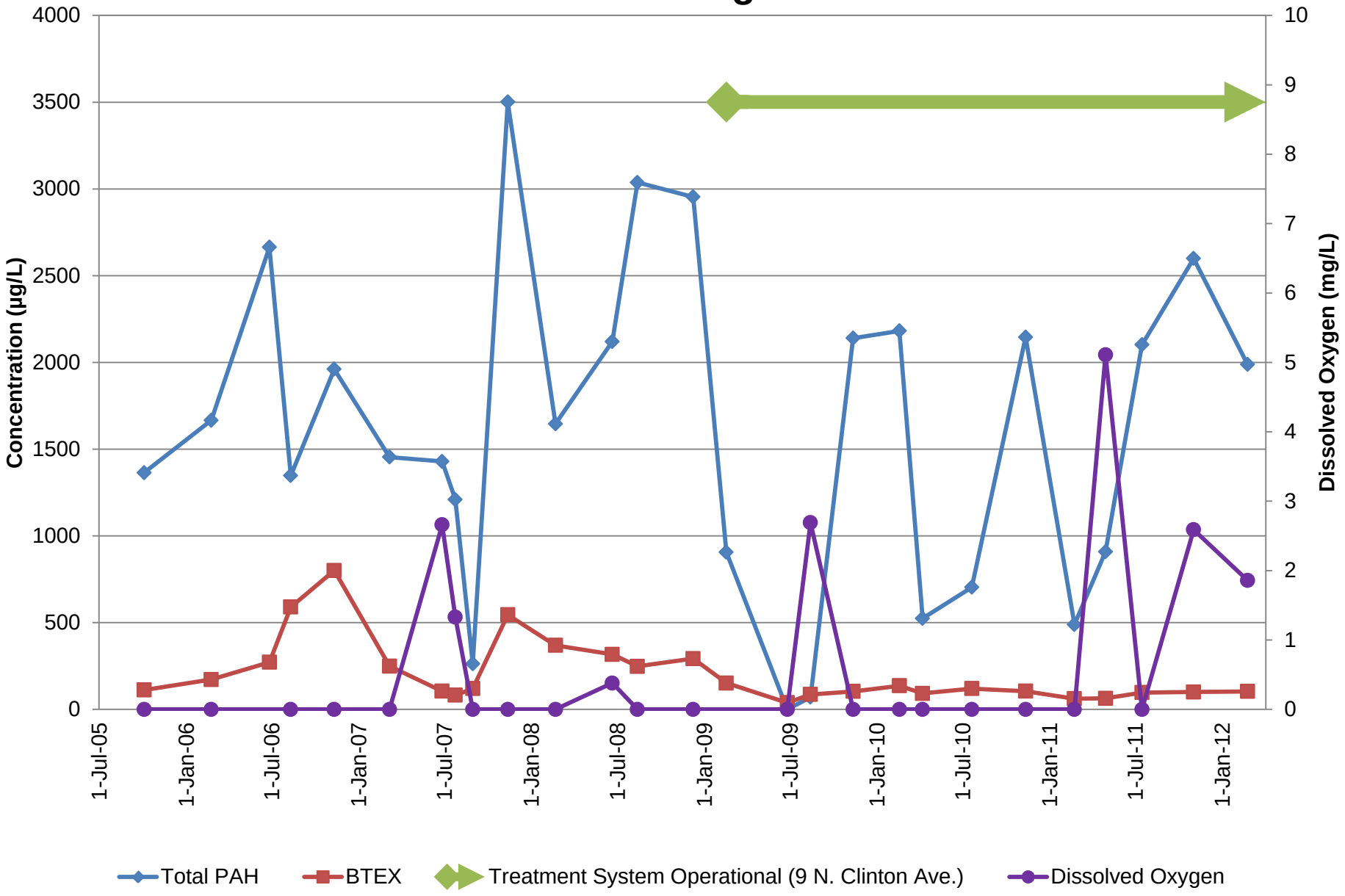
Monitoring Well OU2MW-08S
20-25 ft bgs

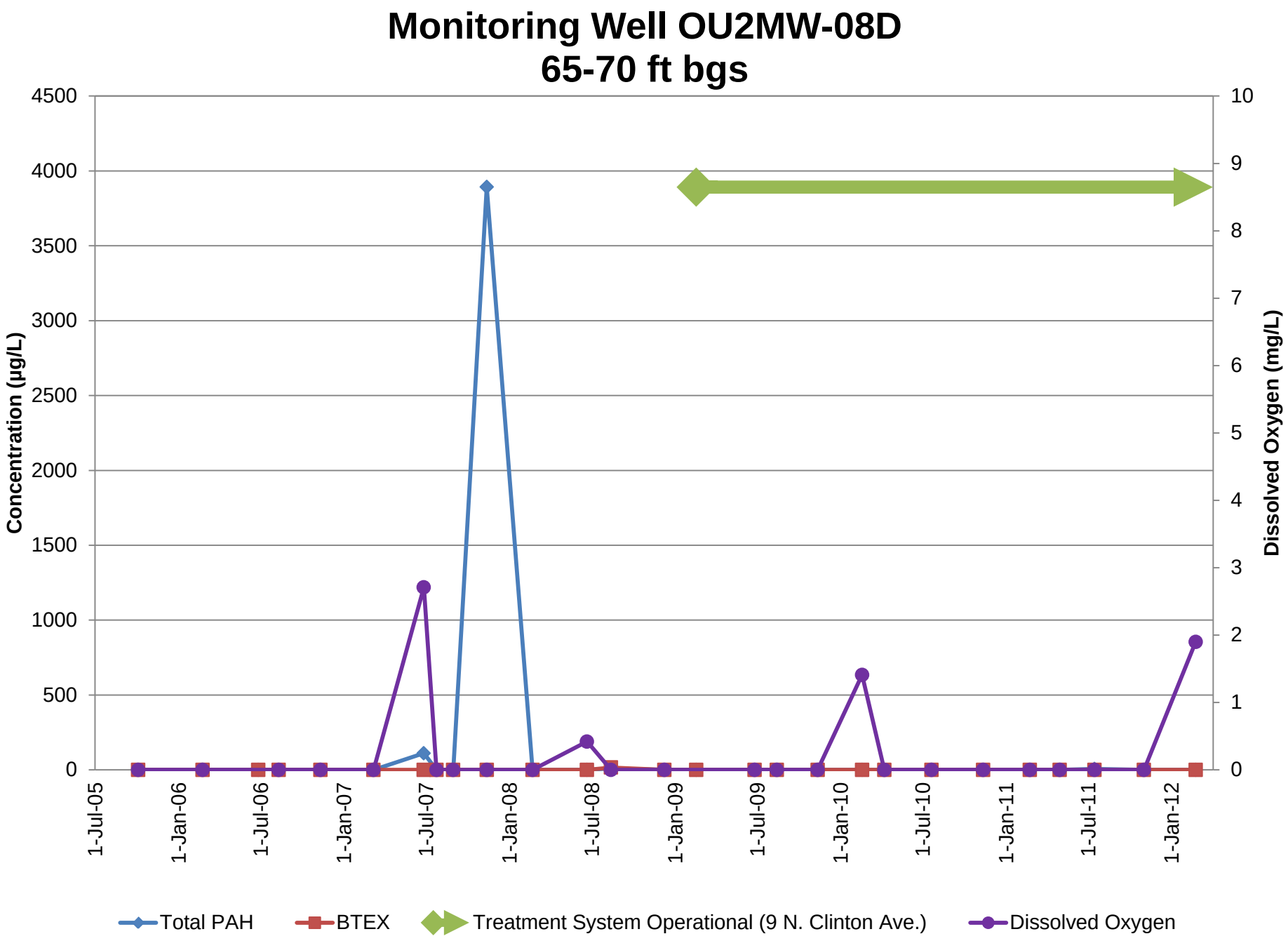


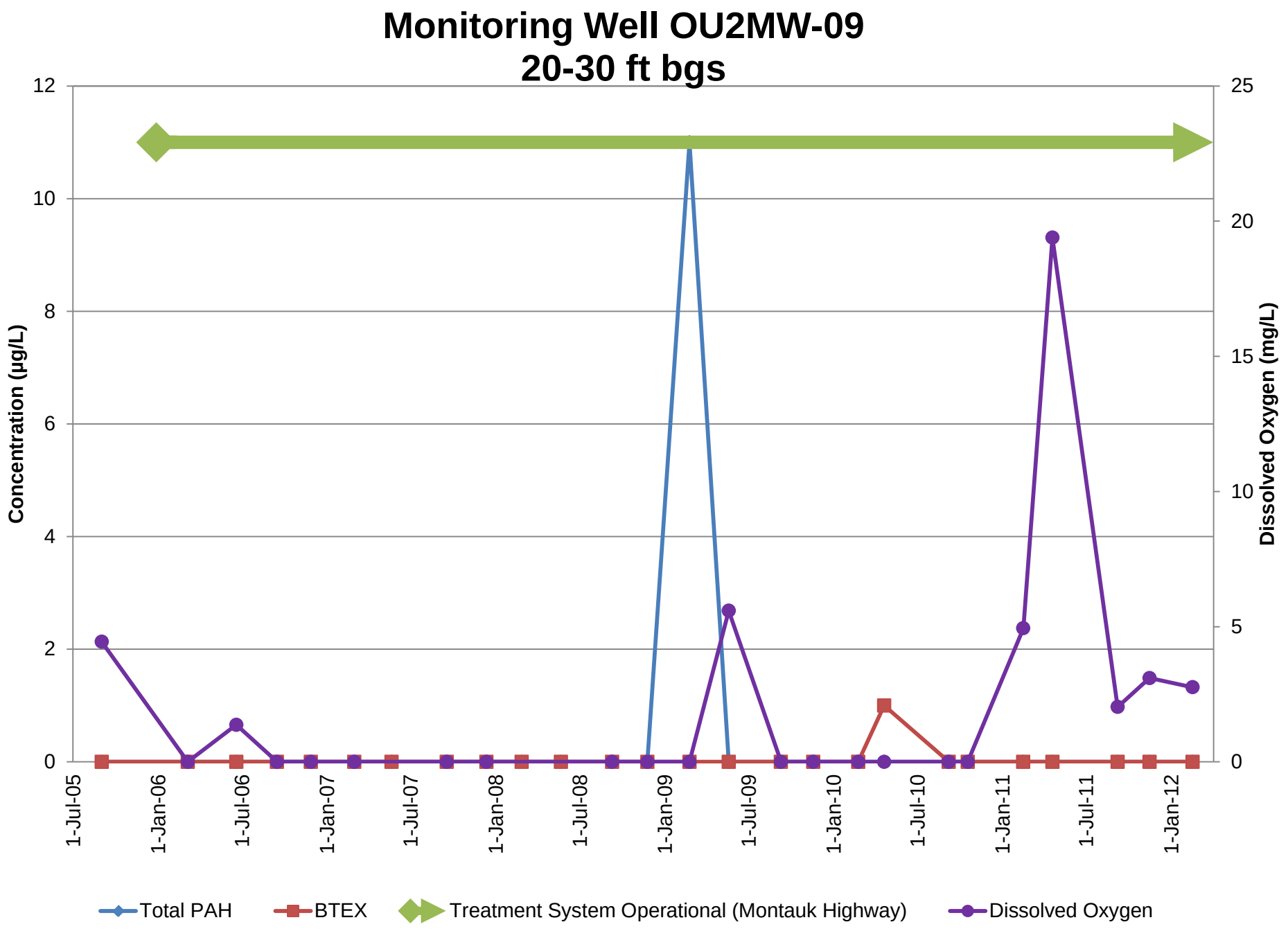
Monitoring Well OU2MW-08I
35-40 ft bgs



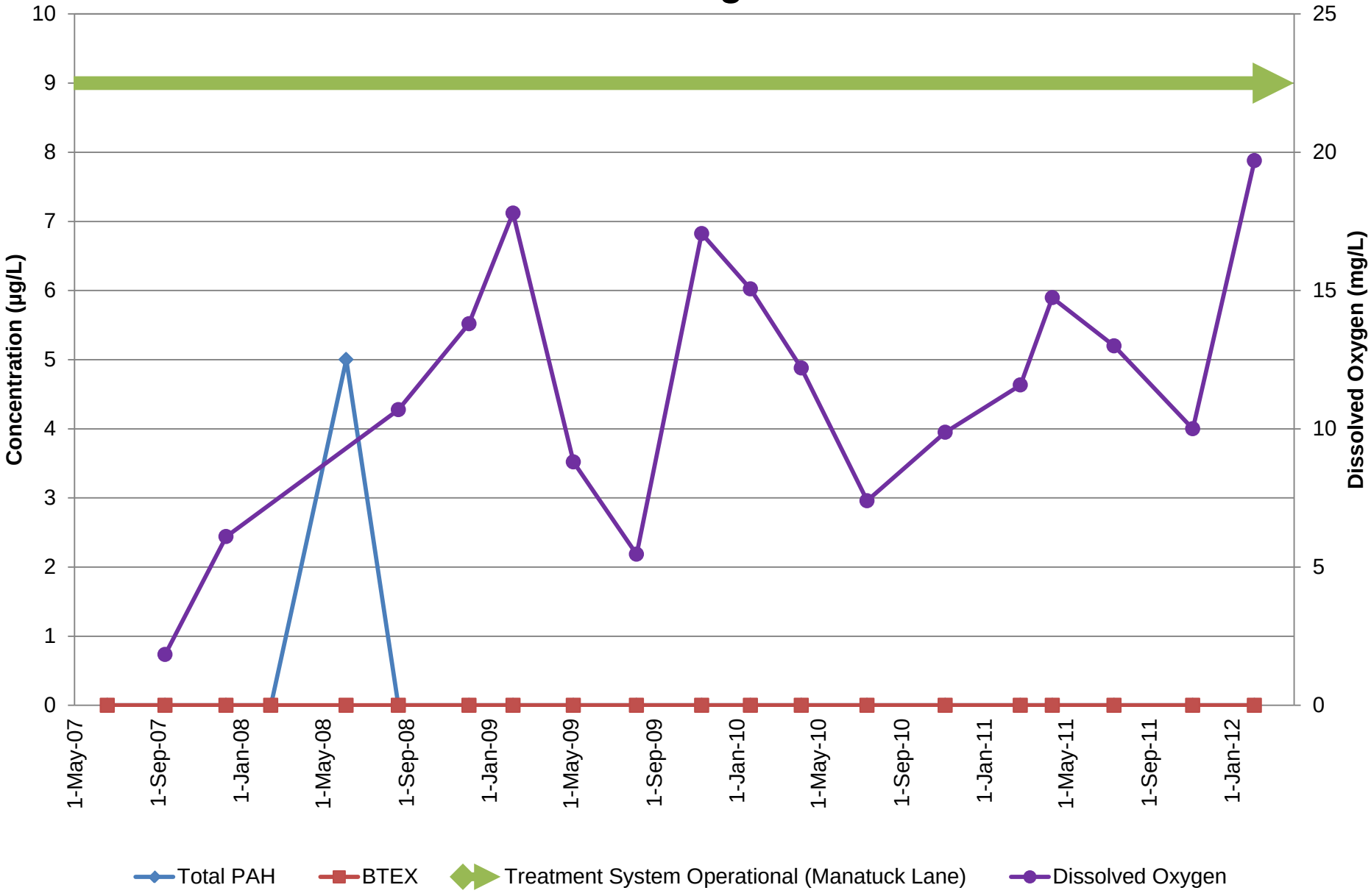
Monitoring Well OU2MW-08I2
50-55 ft bgs



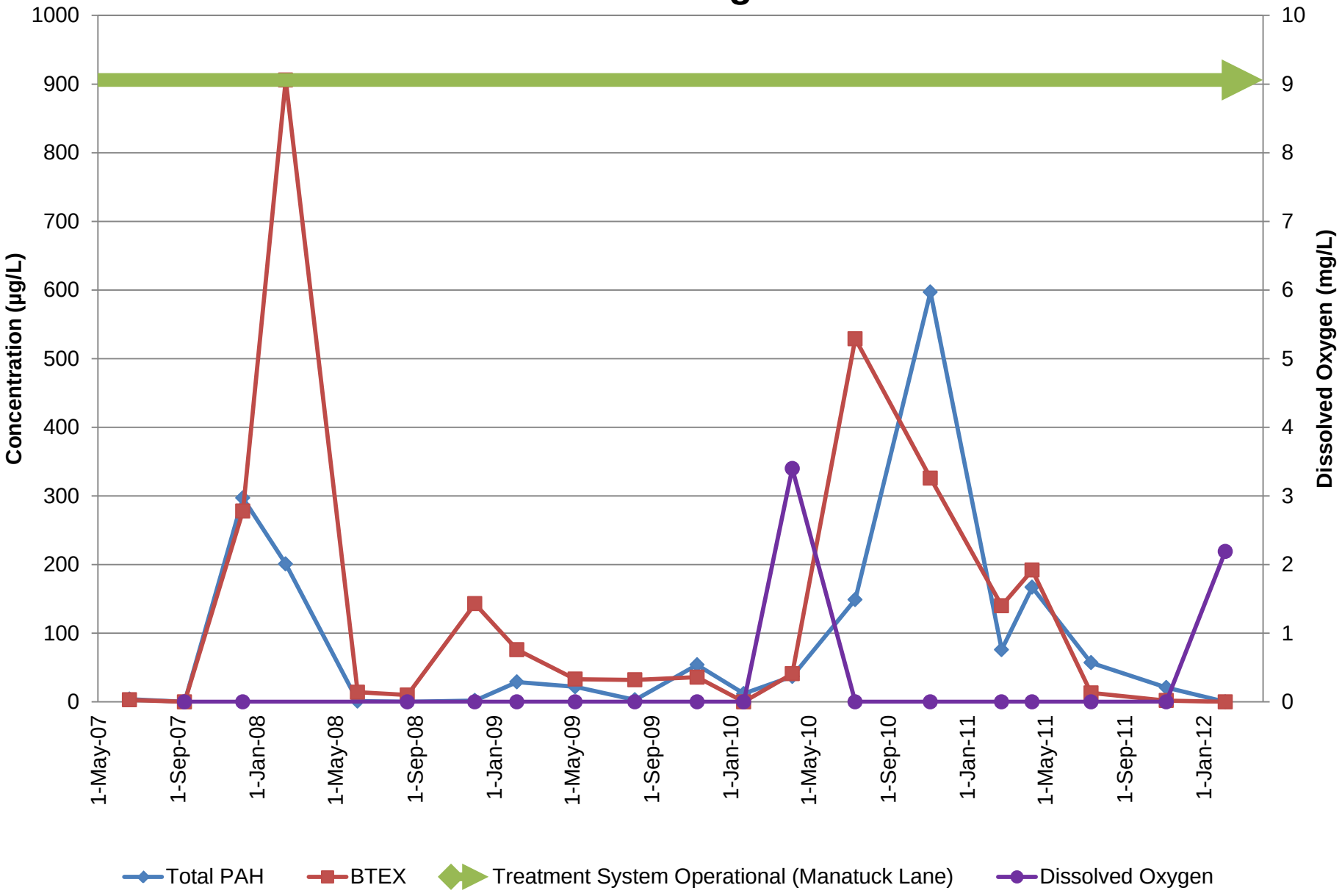

Monitoring Well OU2MW-08D
65-70 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (9 N. Clinton Ave.)
Dissolved Oxygen


Monitoring Well OU2MW-09
20-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
2
4
6
8
10
12
0
5
10
15
20
25
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (Montauk Highway)
Dissolved Oxygen

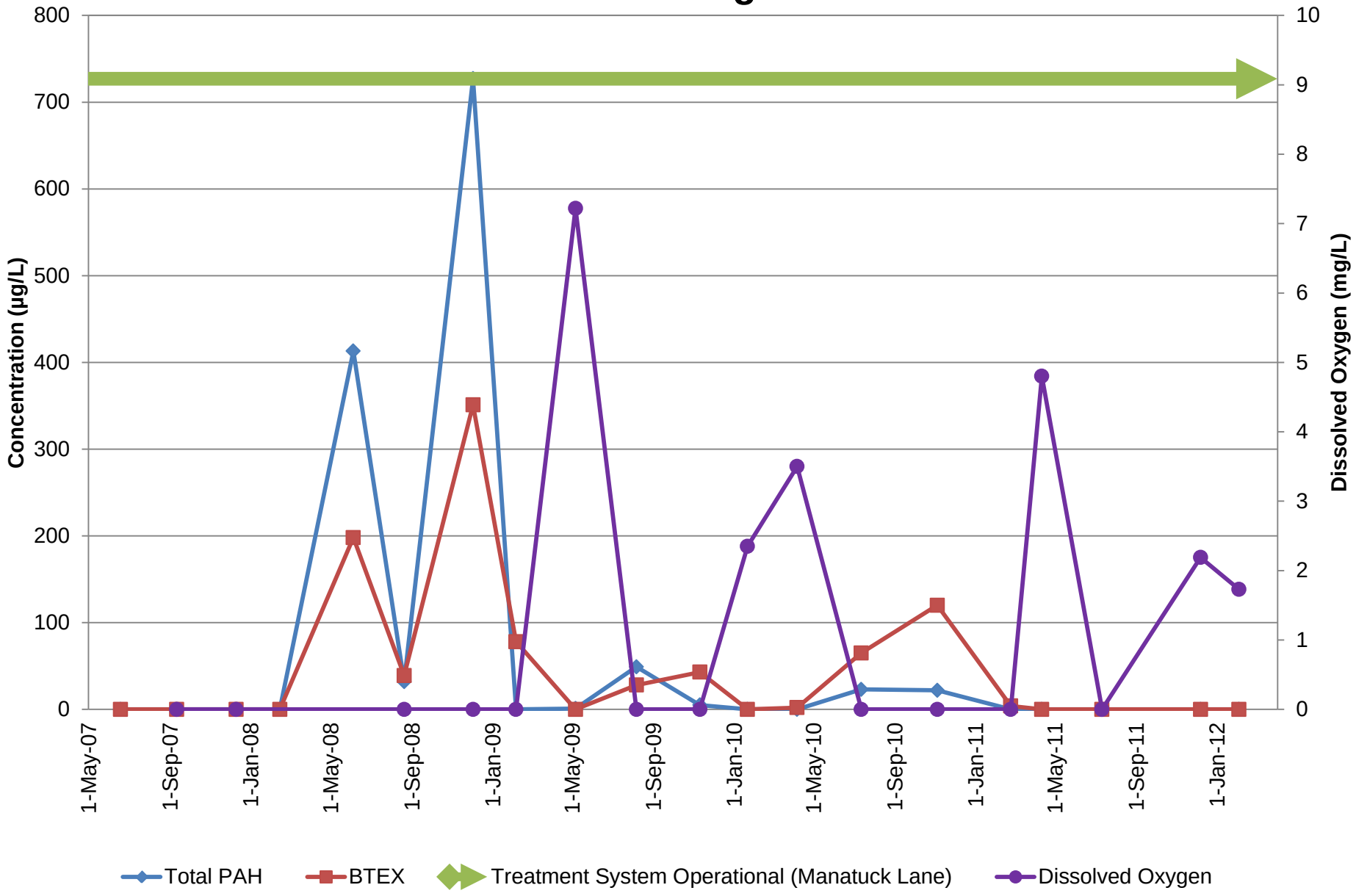
Monitoring Well OU2MW-10S
3-7 ft bgs



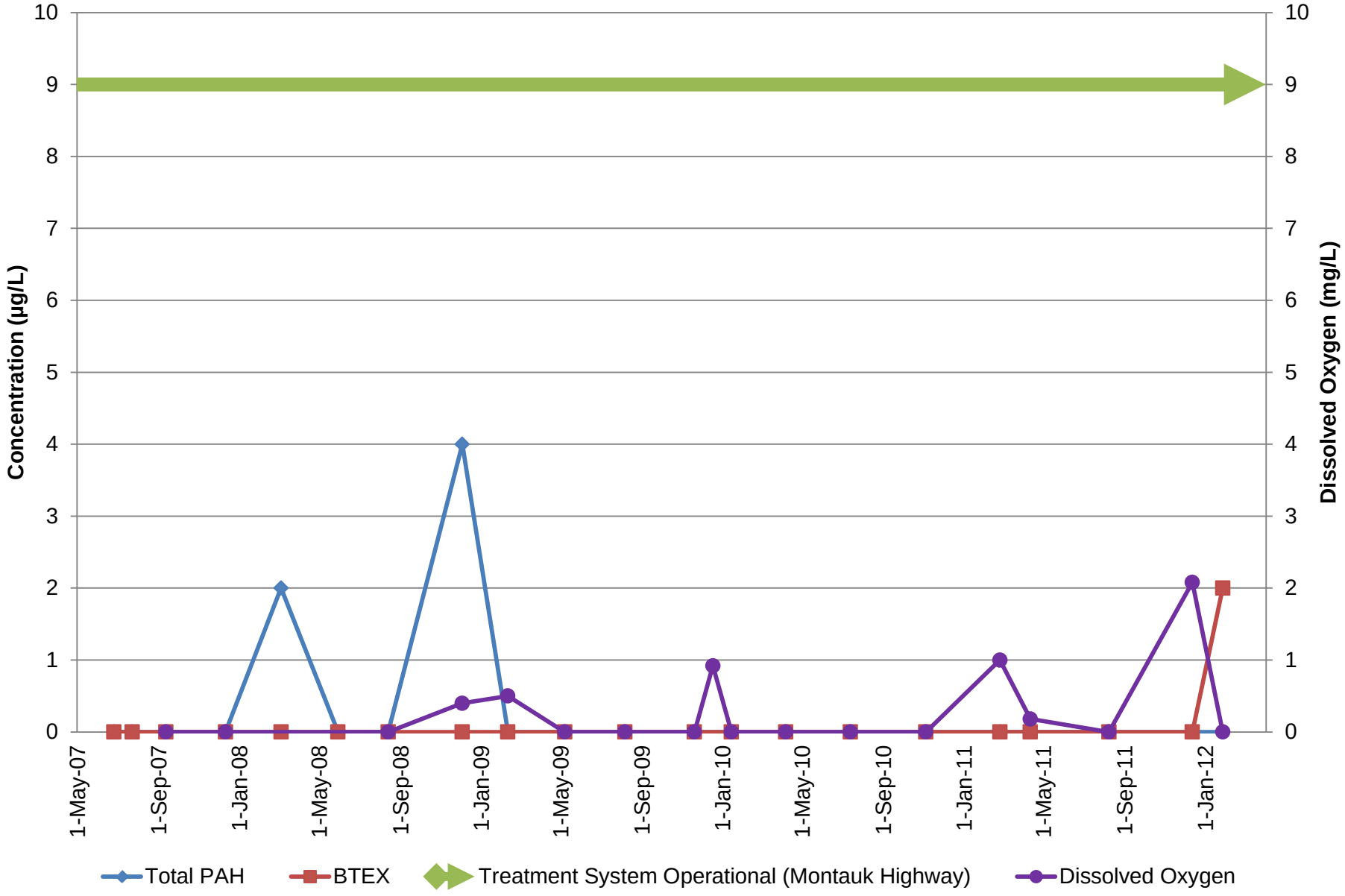
Monitoring Well OU2MW-10I
20-25 ft bgs

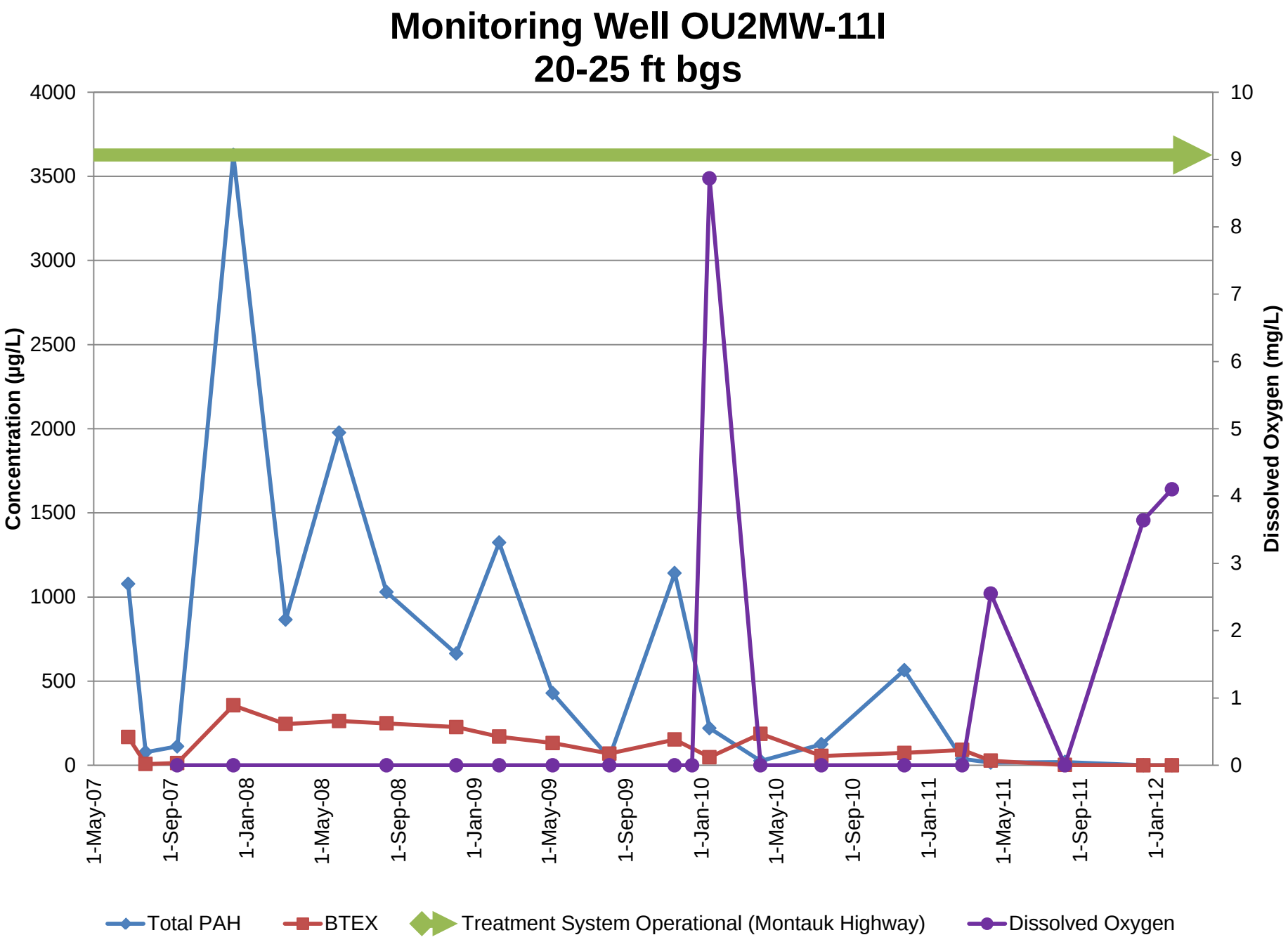


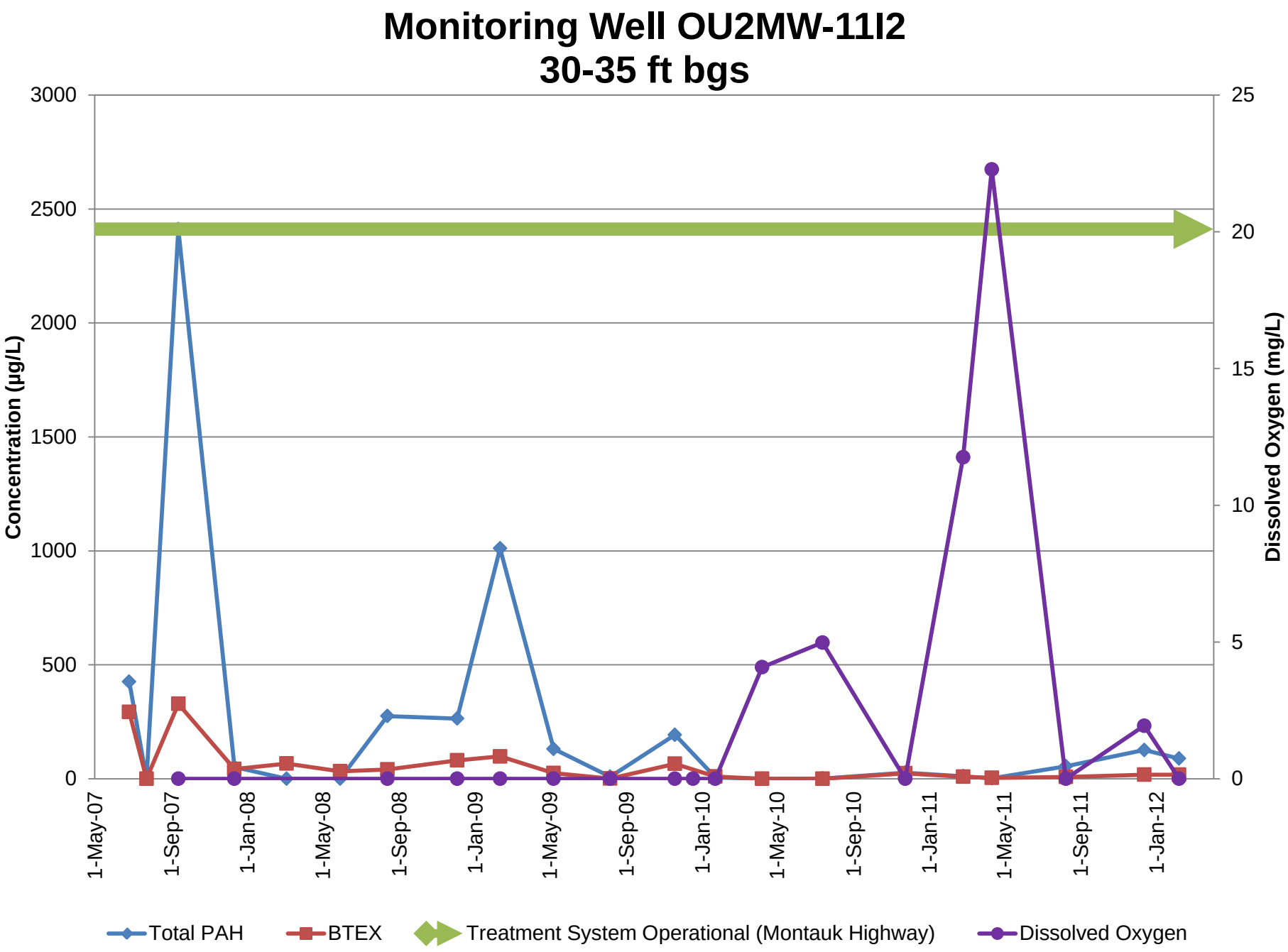
Monitoring Well OU2MW-10D
35-40 ft bgs



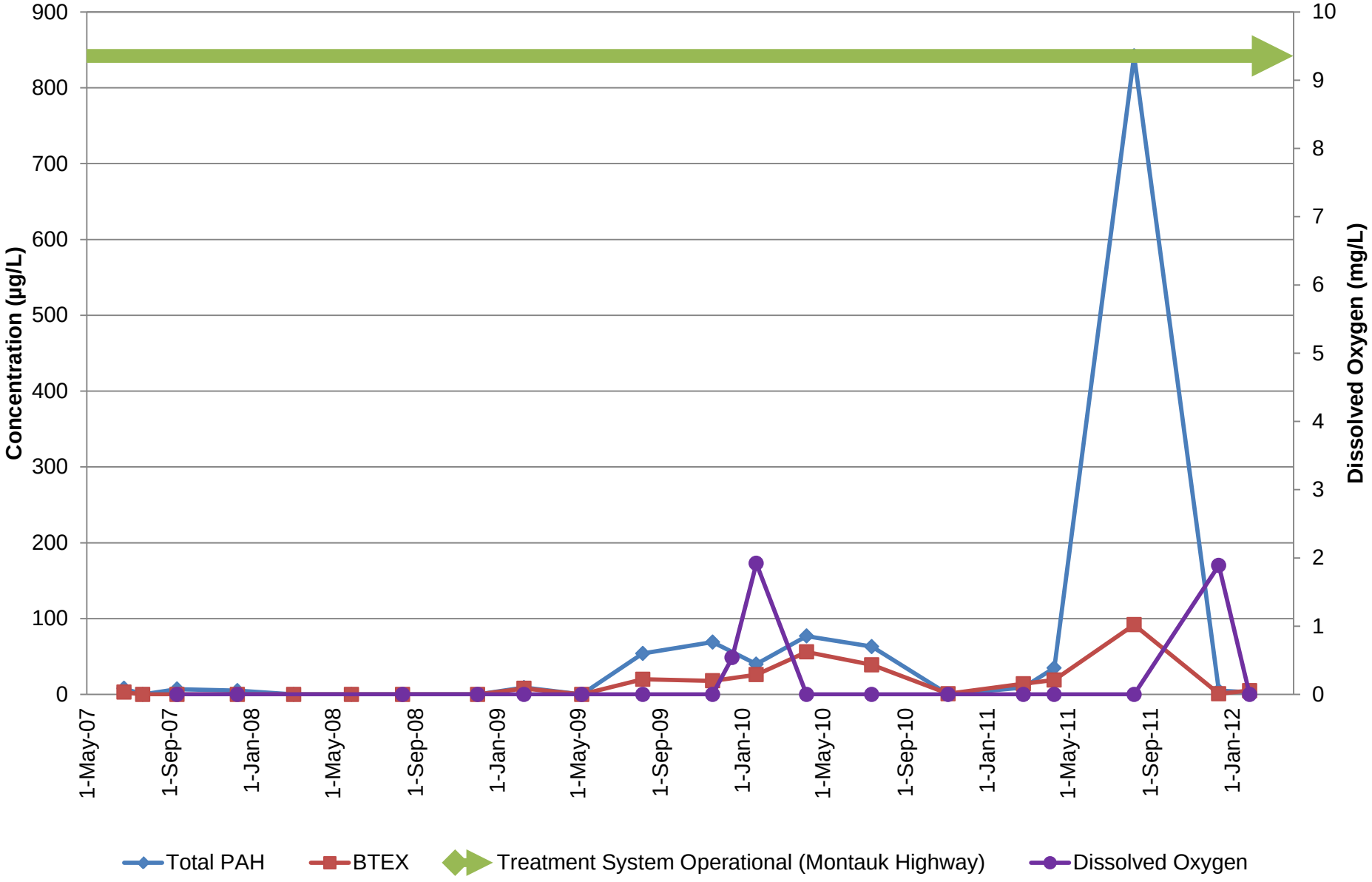
Monitoring Well OU2MW-11S
3-8 ft bgs



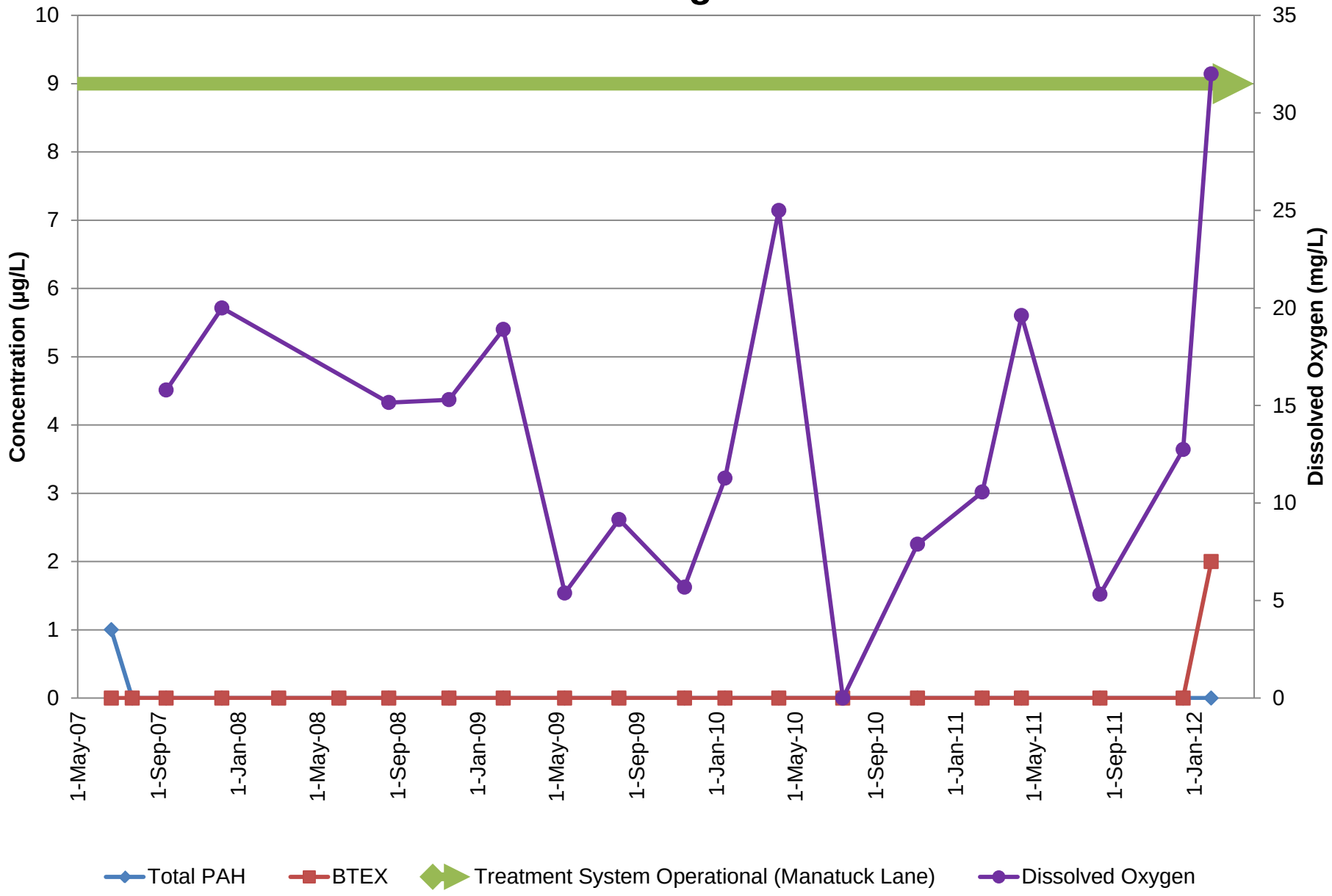

Monitoring Well OU2MW-11I
20-25 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
4000
3500
3000
2500
2000
1500
1000
500
0
10
9
8
7
6
5
4
3
2
1
0
1-May-07
1-Sep-07
1-Jan-08
1-May-08
1-Sep-08
1-Jan-09
1-May-09
1-Sep-09
1-Jan-10
1-May-10
1-Sep-10
1-Jan-11
1-May-11
1-Sep-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (Montauk Highway)
Dissolved Oxygen


Monitoring Well OU2MW-11I2
30-35 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
3000
2500
2000
1500
1000
500
0
25
20
15
10
5
0
1-May-07
1-Sep-07
1-Jan-08
1-May-08
1-Sep-08
1-Jan-09
1-May-09
1-Sep-09
1-Jan-10
1-May-10
1-Sep-10
1-Jan-11
1-May-11
1-Sep-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (Montauk Highway)
Dissolved Oxygen

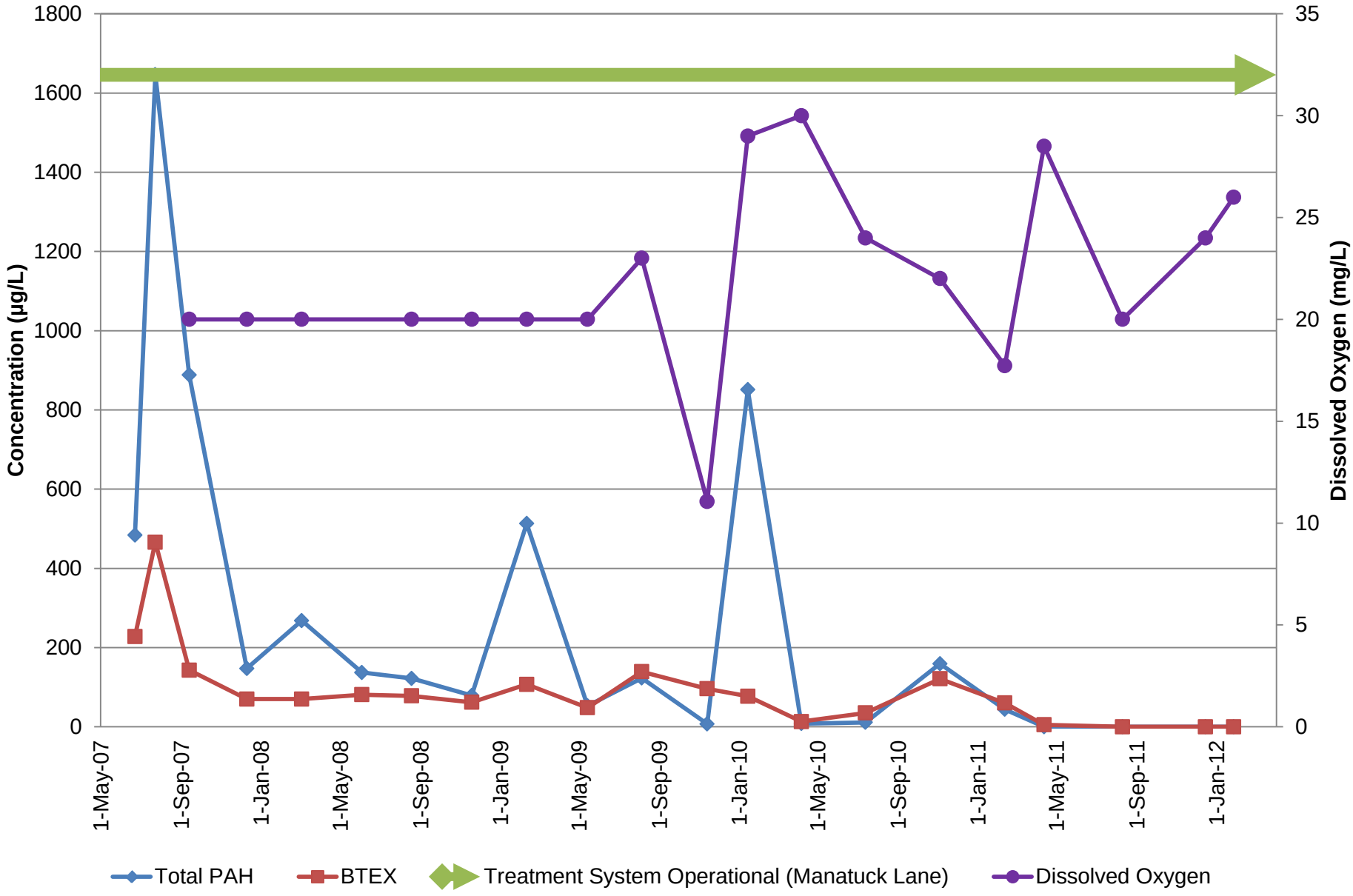
Monitoring Well OU2MW-11D
40-45 ft bgs



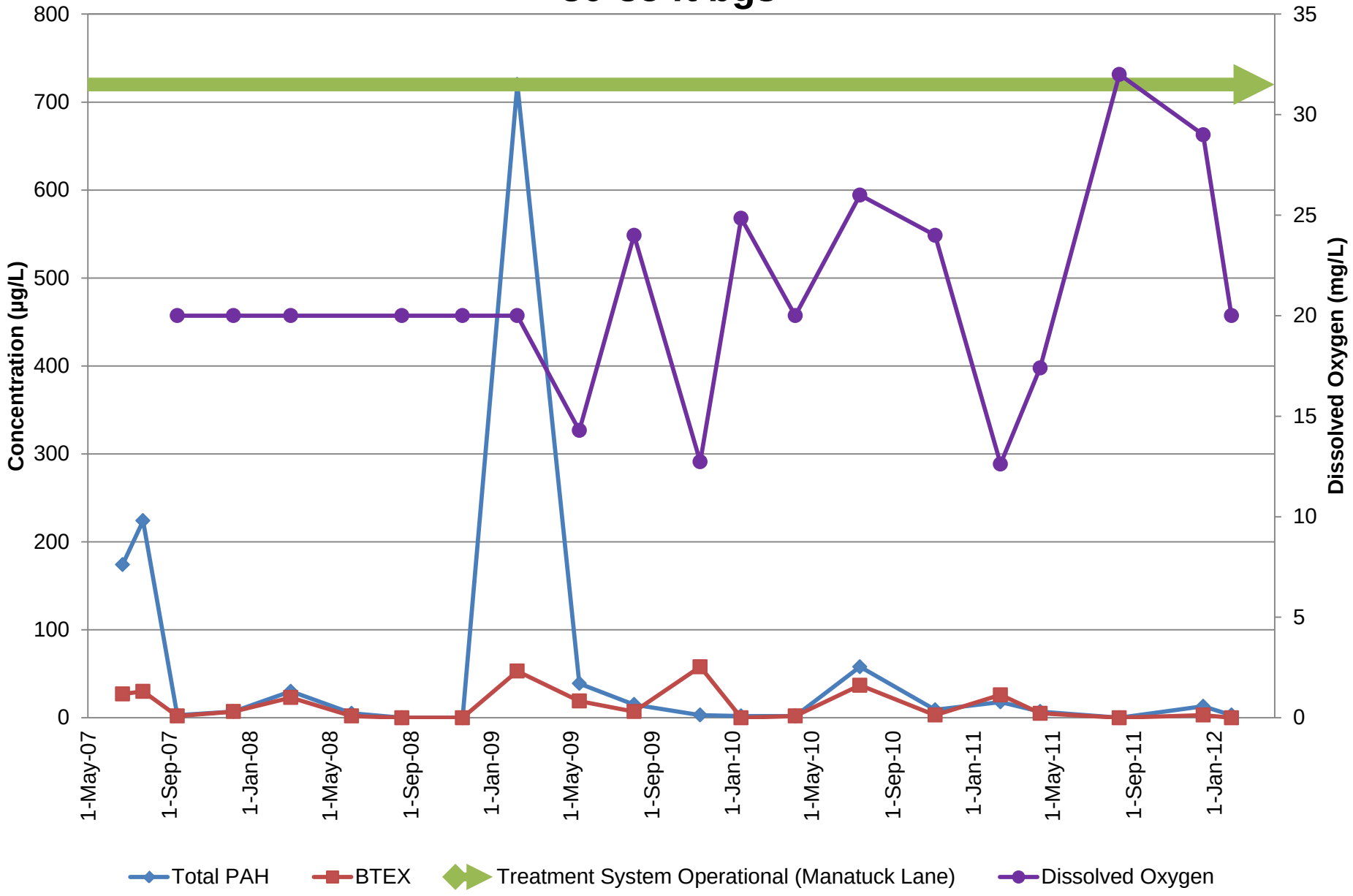
Monitoring Well OU2MW-12S
3-7 ft bgs



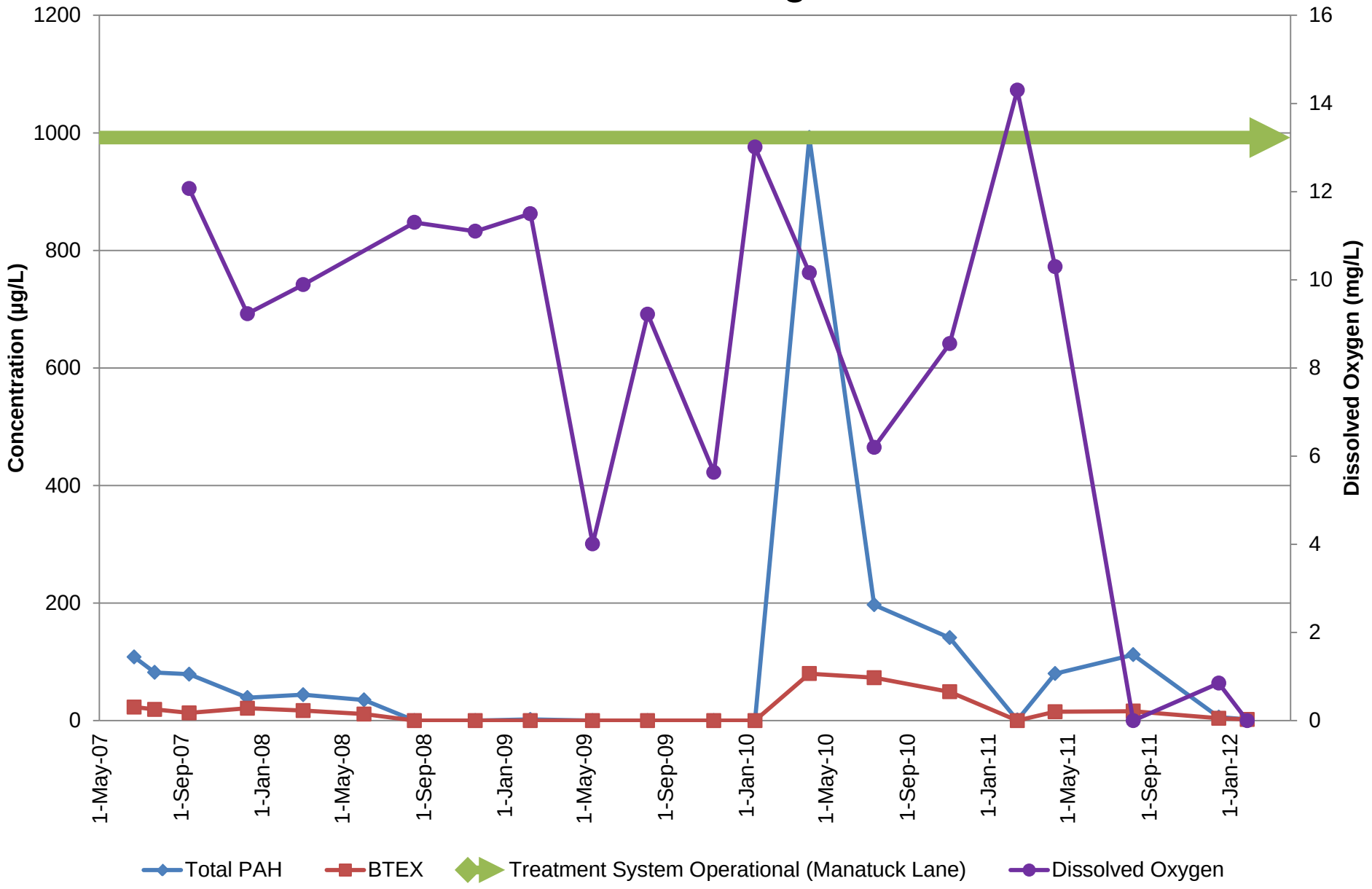
Monitoring Well OU2MW-12I
20-25 ft bgs



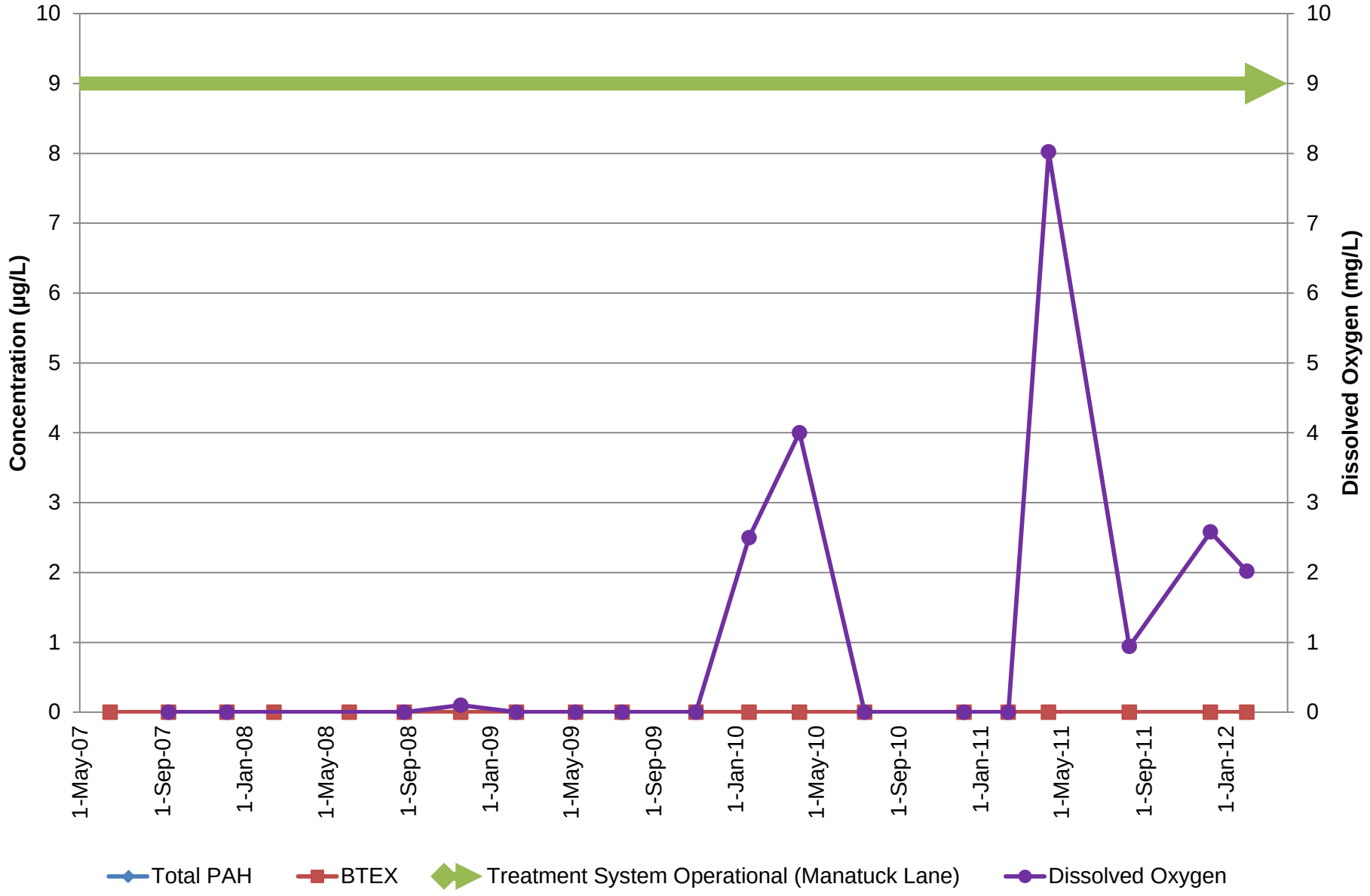
Monitoring Well OU2MW-12I2
30-35 ft bgs



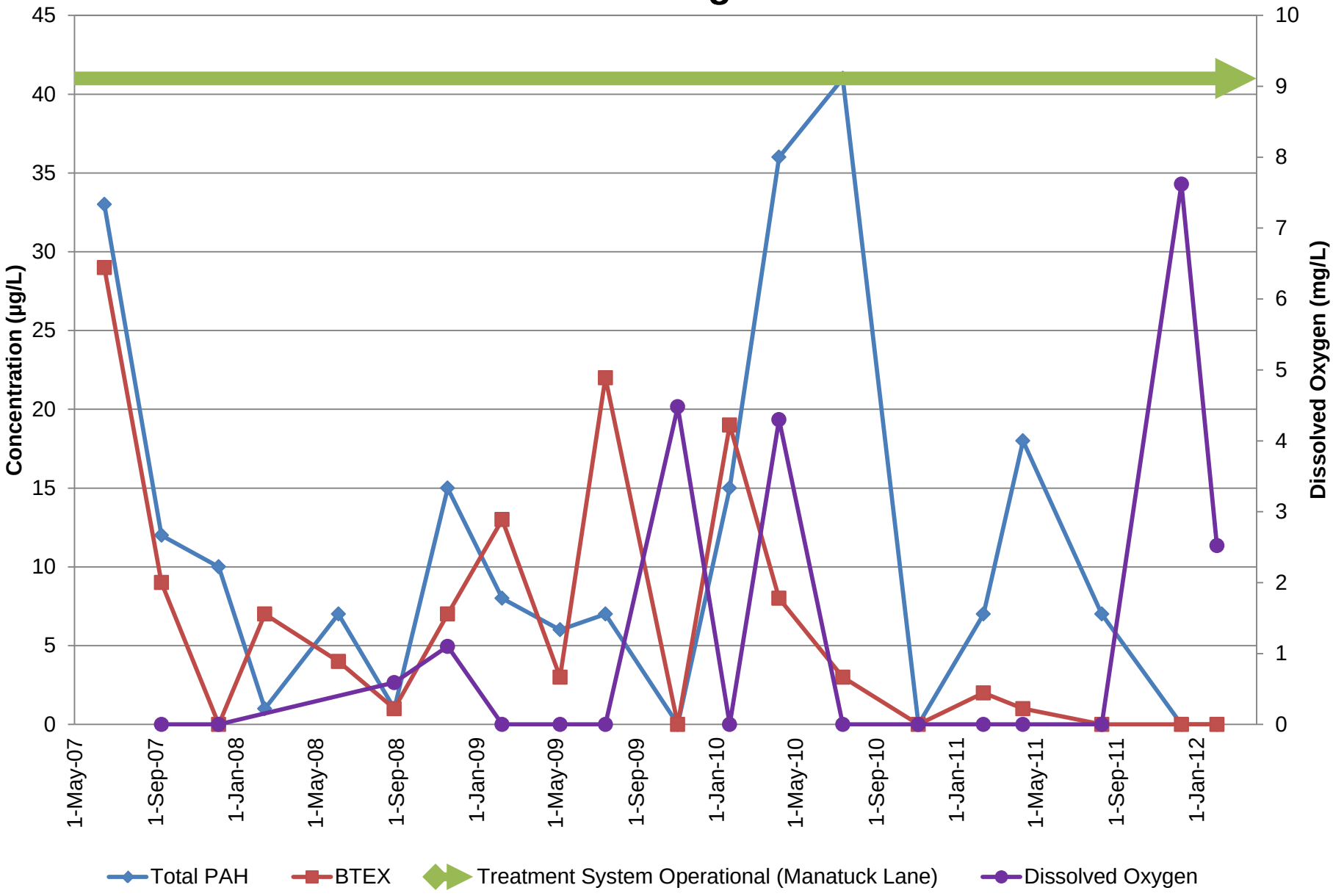
Monitoring Well OU2MW-12D
40-45 ft bgs



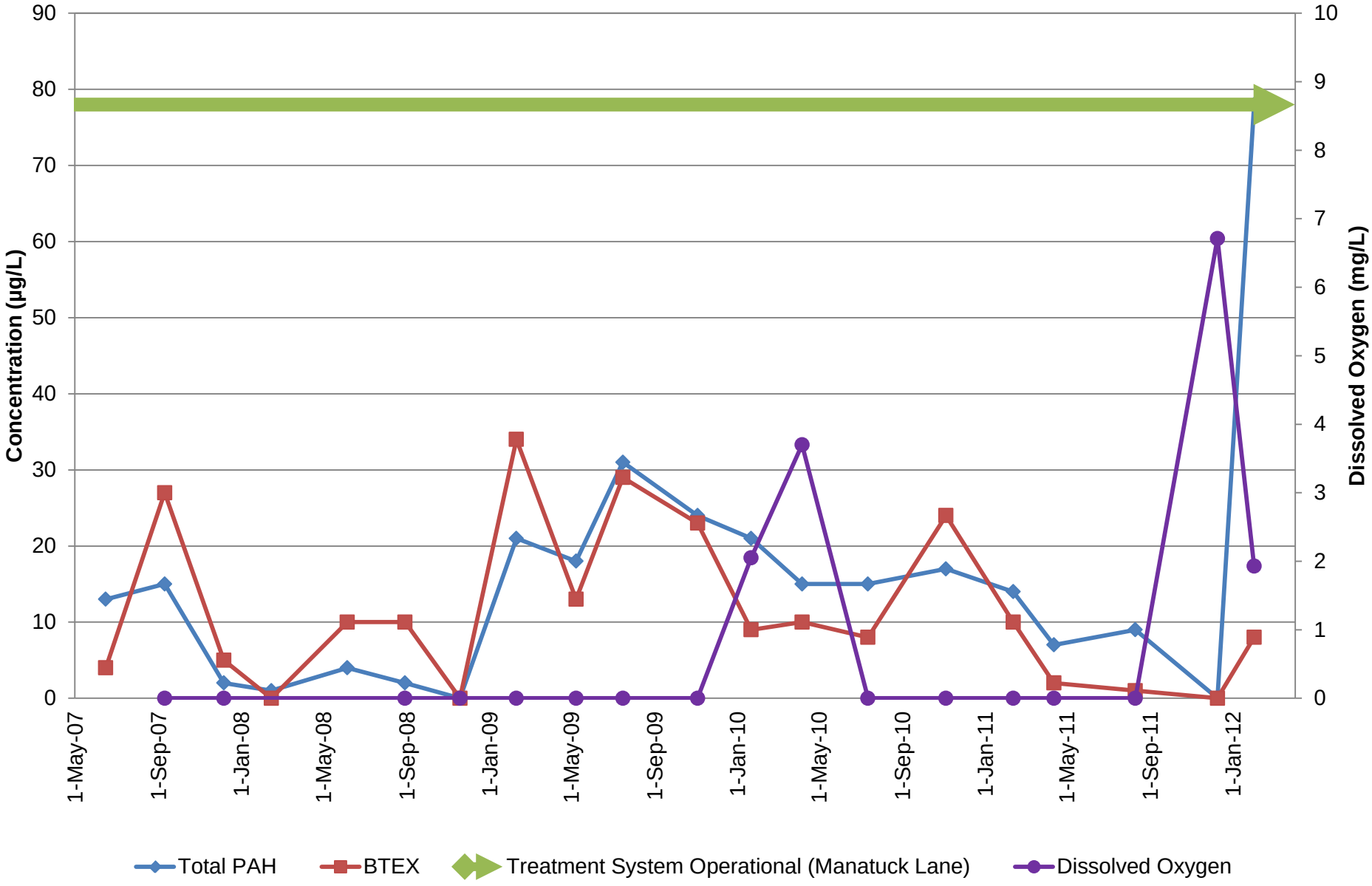
Monitoring Well OU2MW-13S
3-8 ft bgs



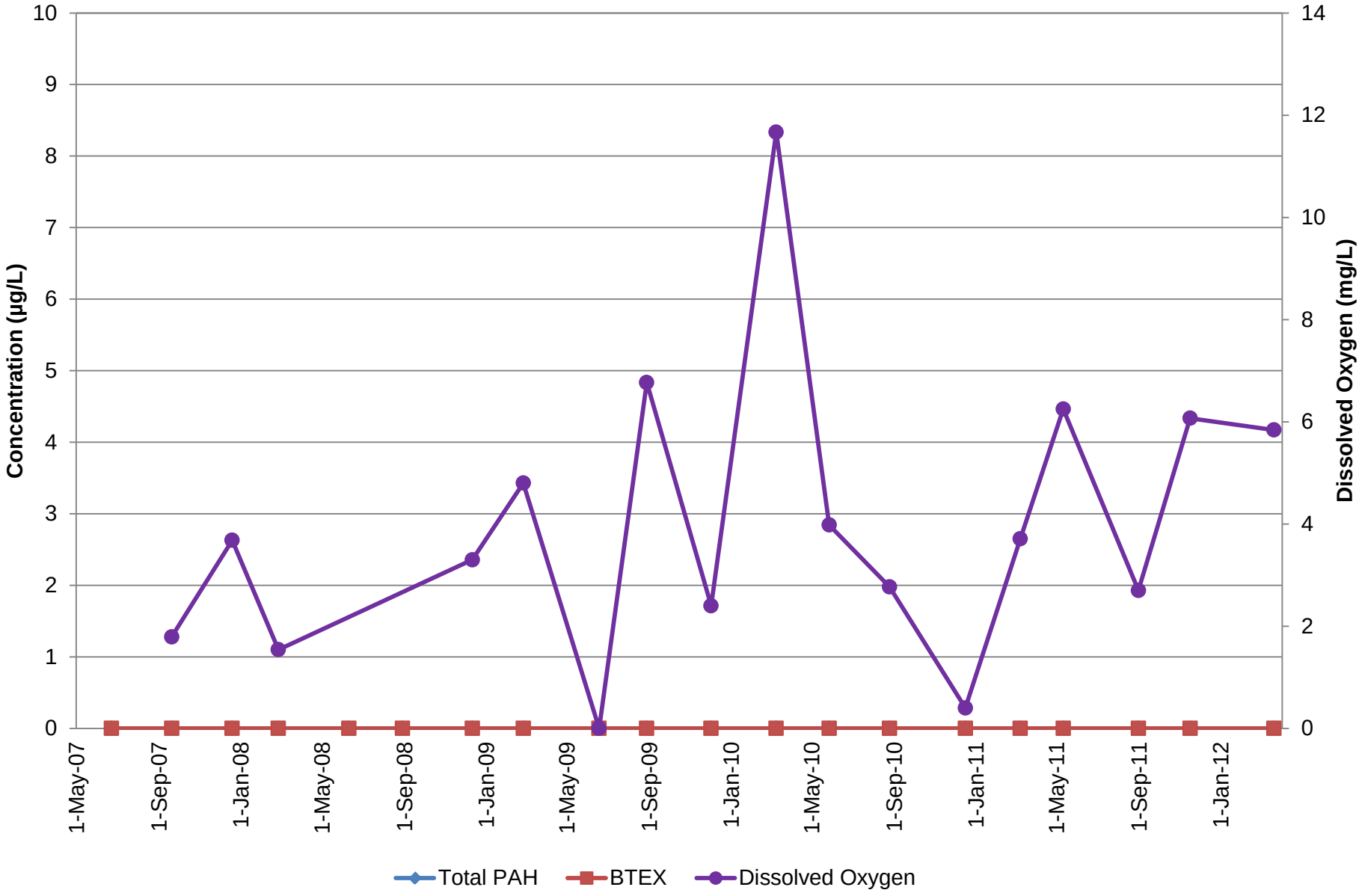
Monitoring Well OU2MW-13I
20-25ft bgs



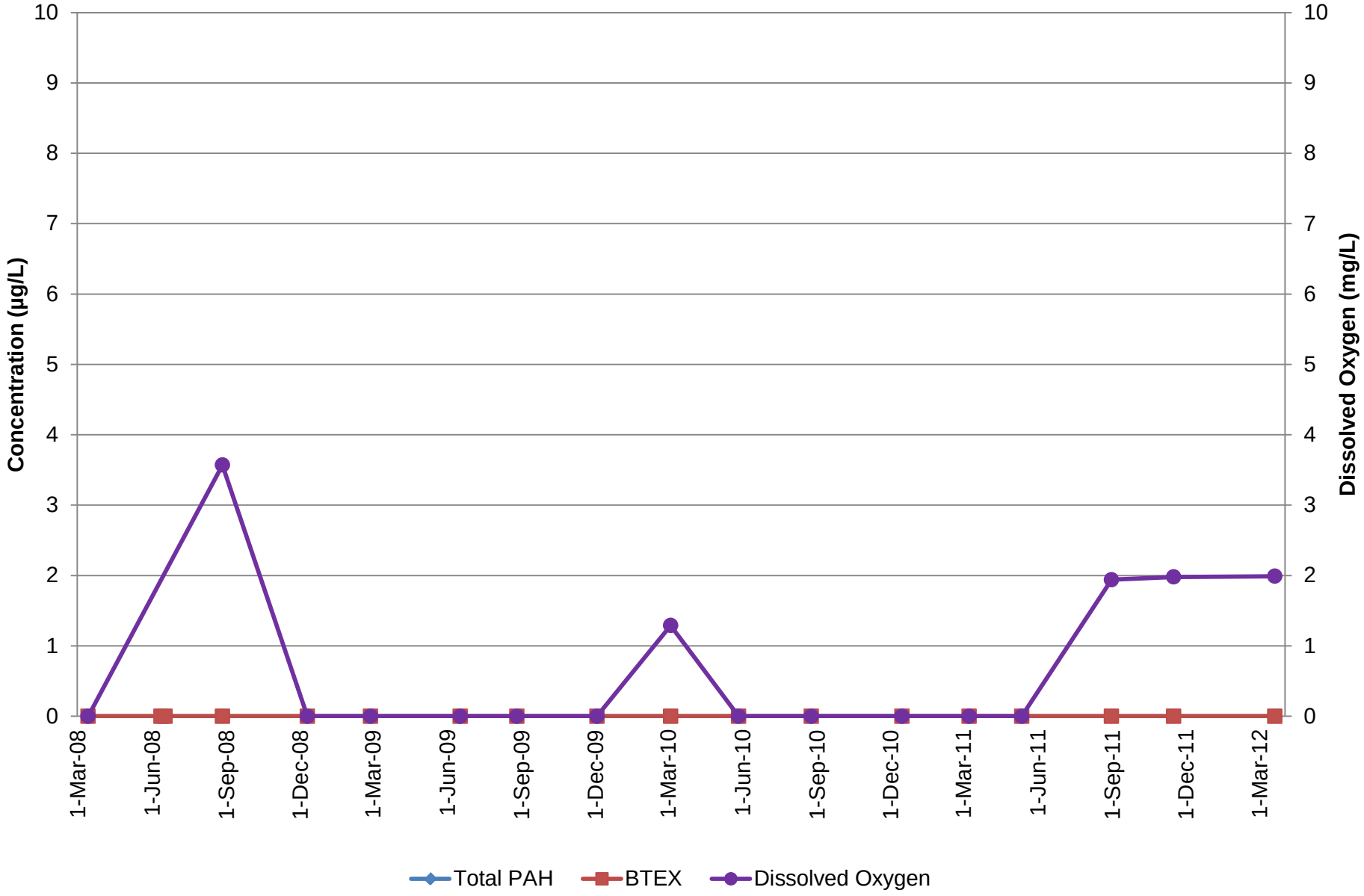
Monitoring Well OU2MW-13D
35-40 ft bgs



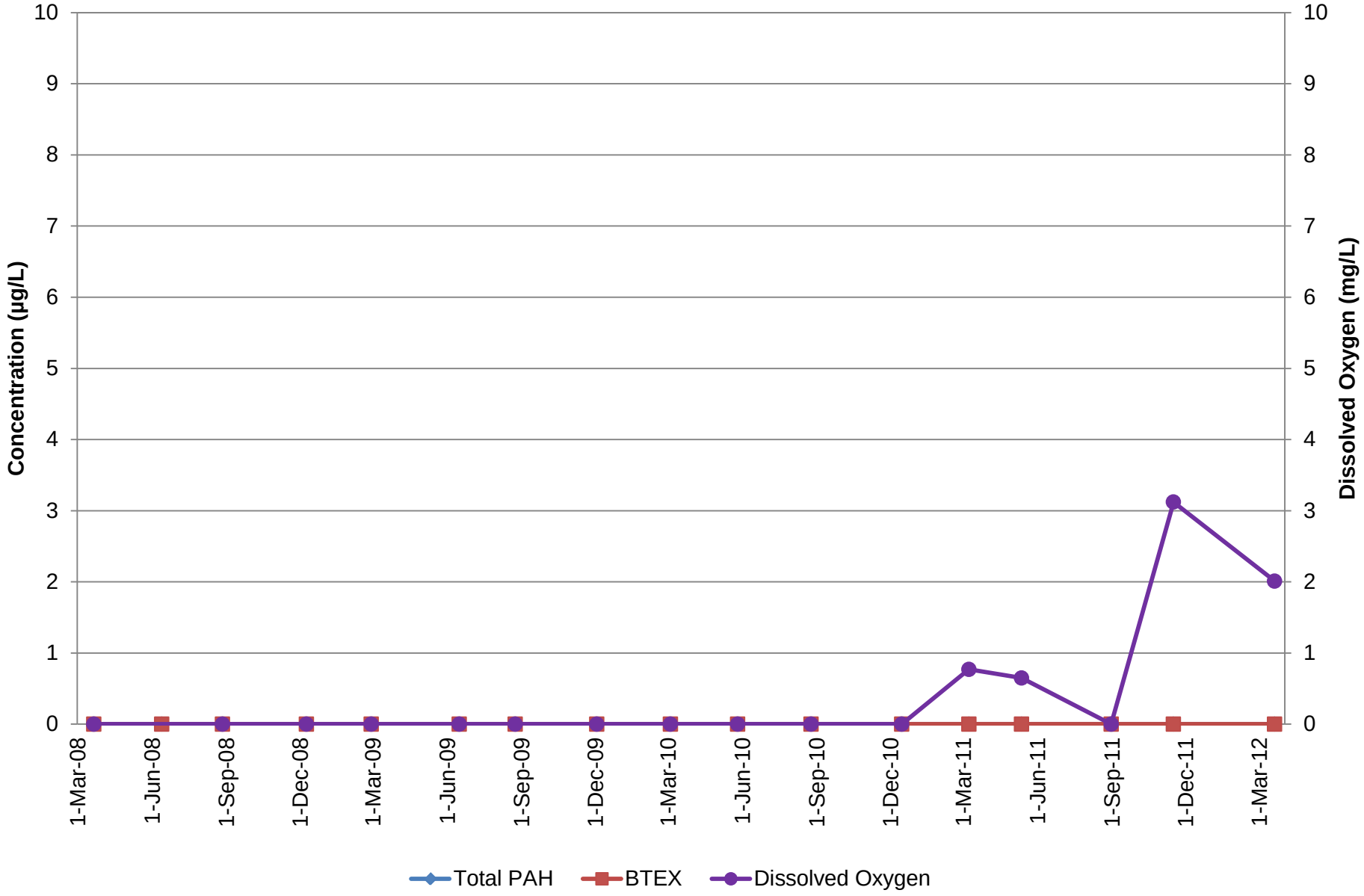
Monitoring Well OU2MW-14S
3-8 ft bgs

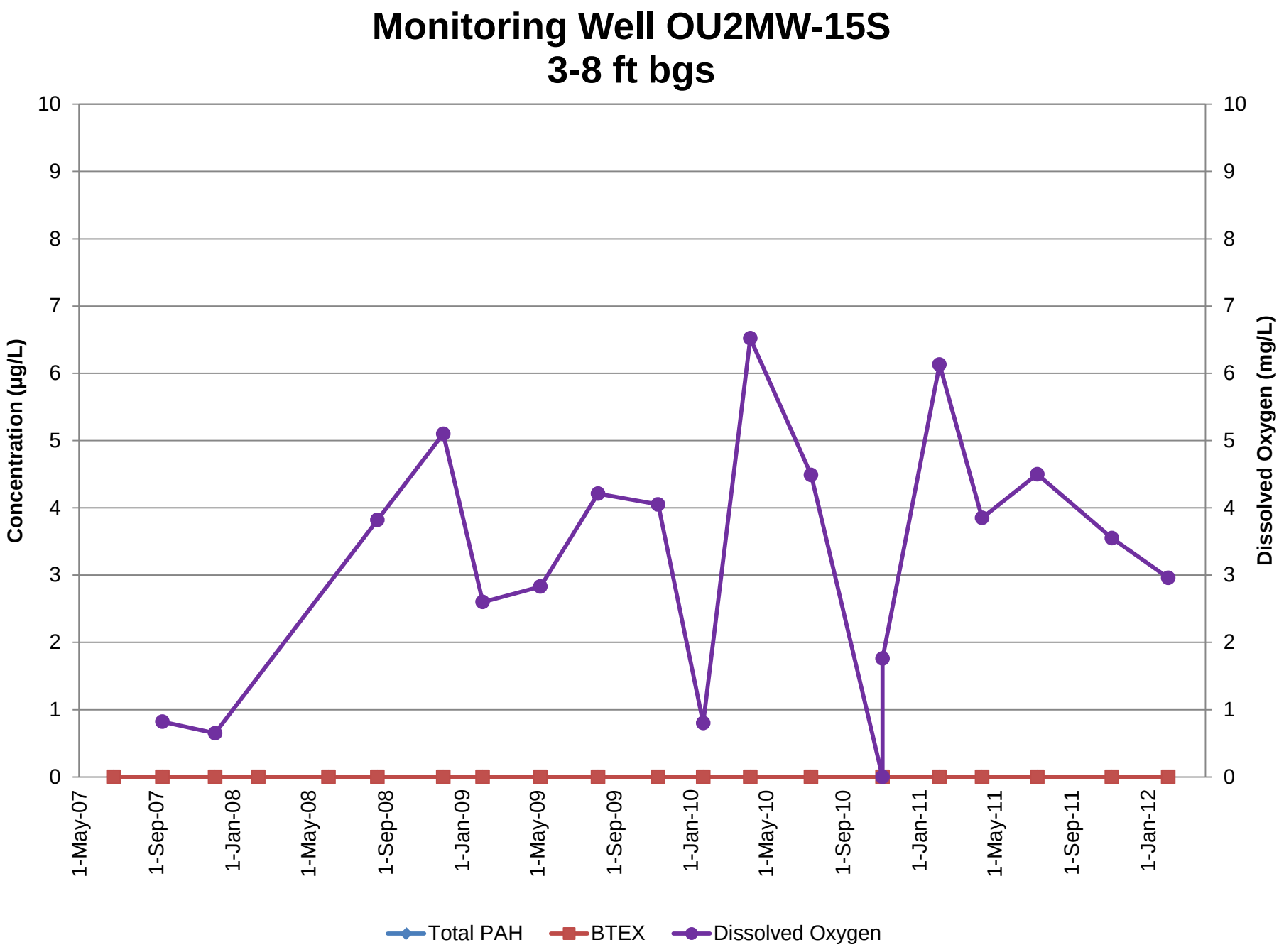


Monitoring Well OU2MW-14I
20-25 ft bgs

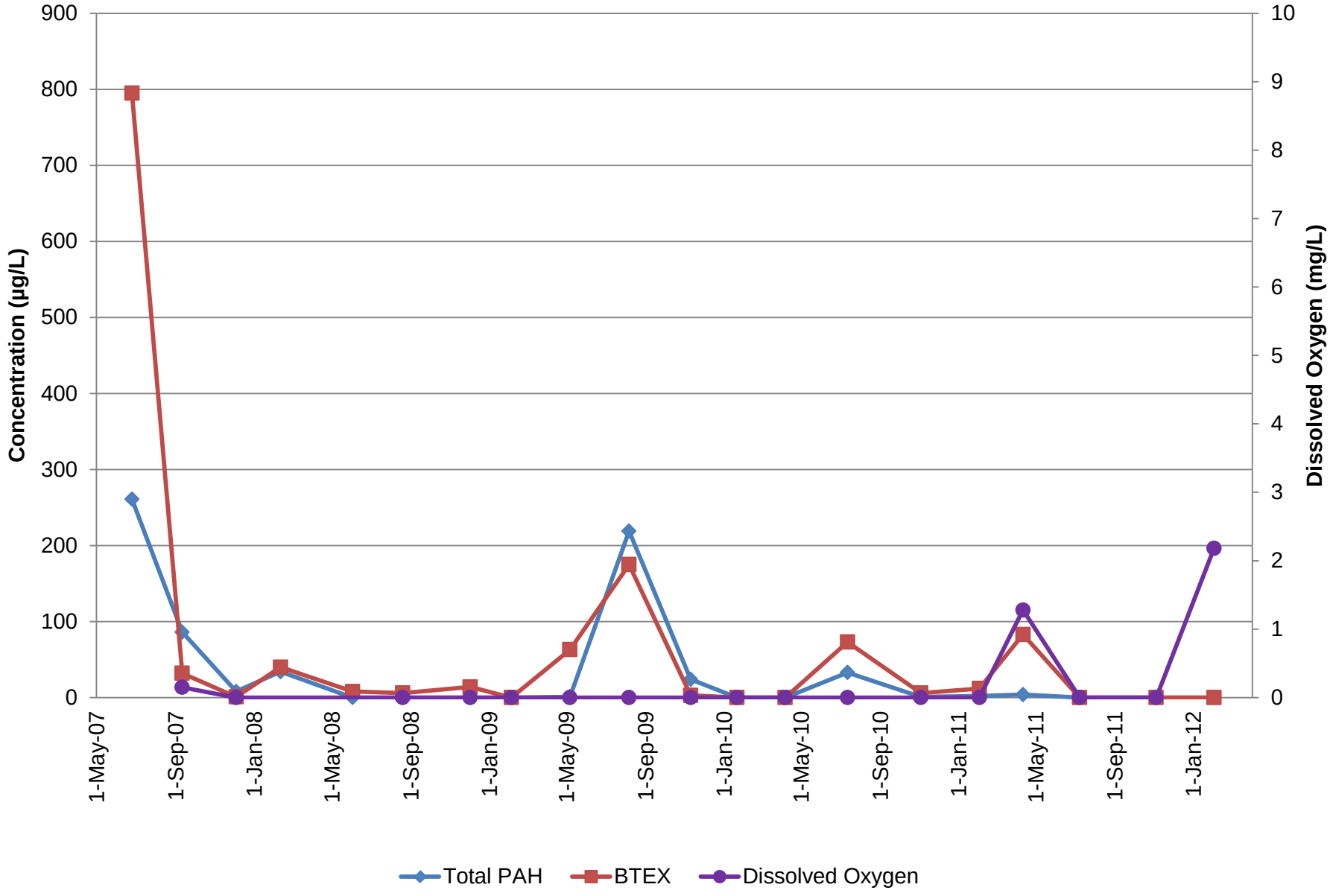


Monitoring Well OU2MW-14I2
45-50 ft bgs

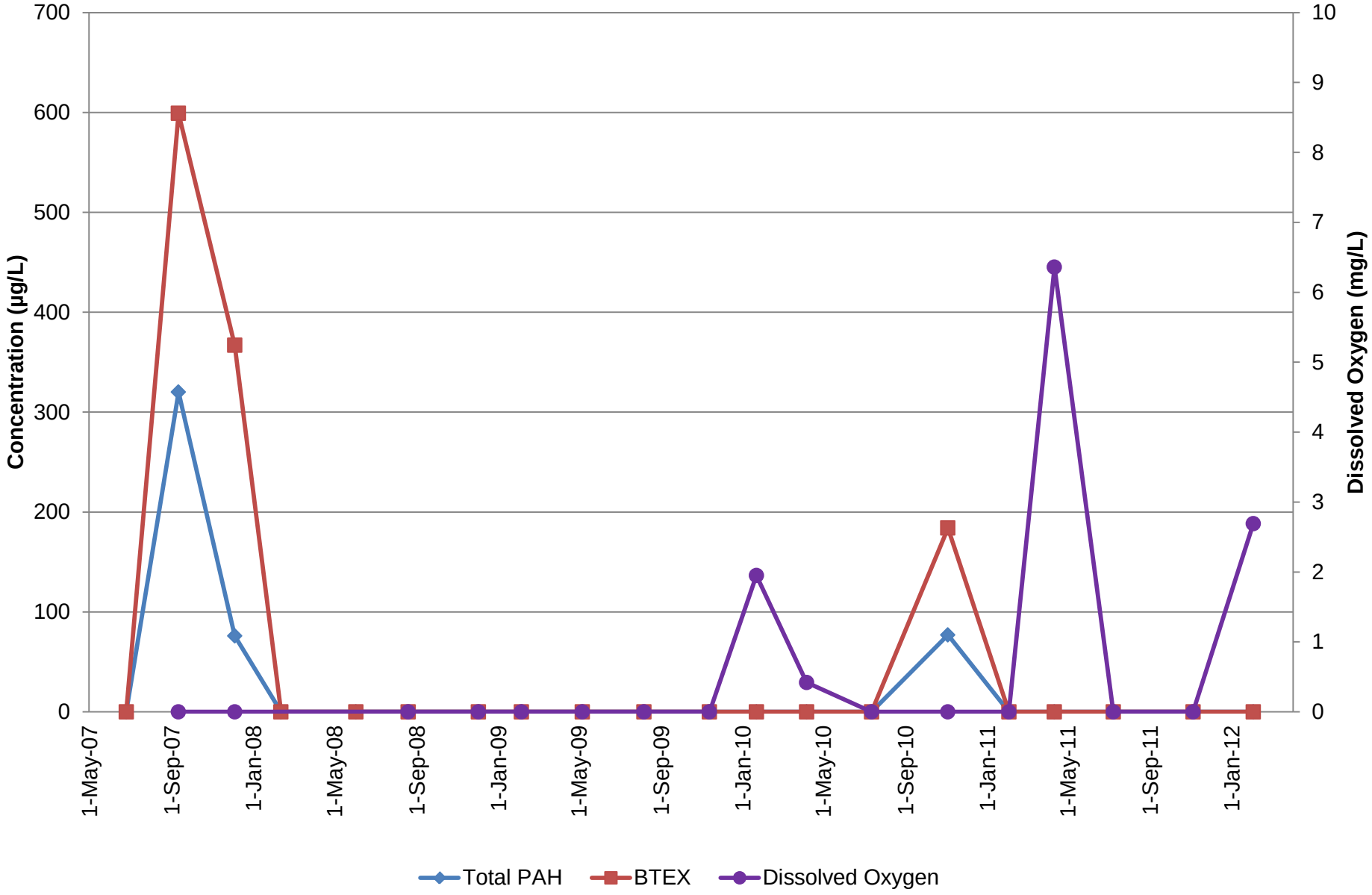



Monitoring Well OU2MW-15S
3-8 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
1-May-07
1-Sep-07
1-Jan-08
1-May-08
1-Sep-08
1-Jan-09
1-May-09
1-Sep-09
1-Jan-10
1-May-10
1-Sep-10
1-Jan-11
1-May-11
1-Sep-11
1-Jan-12
Total PAH
BTEX
Dissolved Oxygen

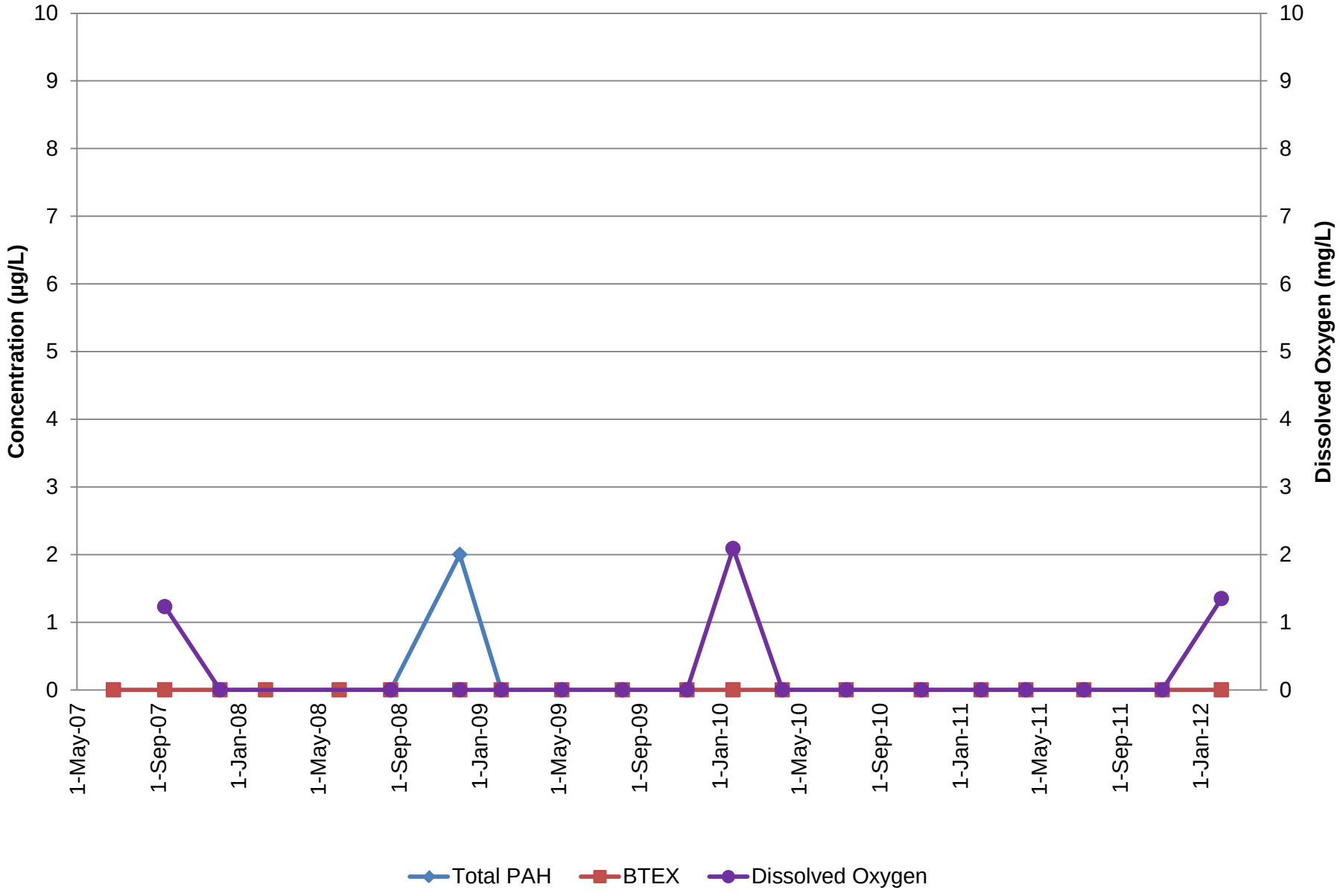
Monitoring Well OU2MW-15I
20-25 ft bgs



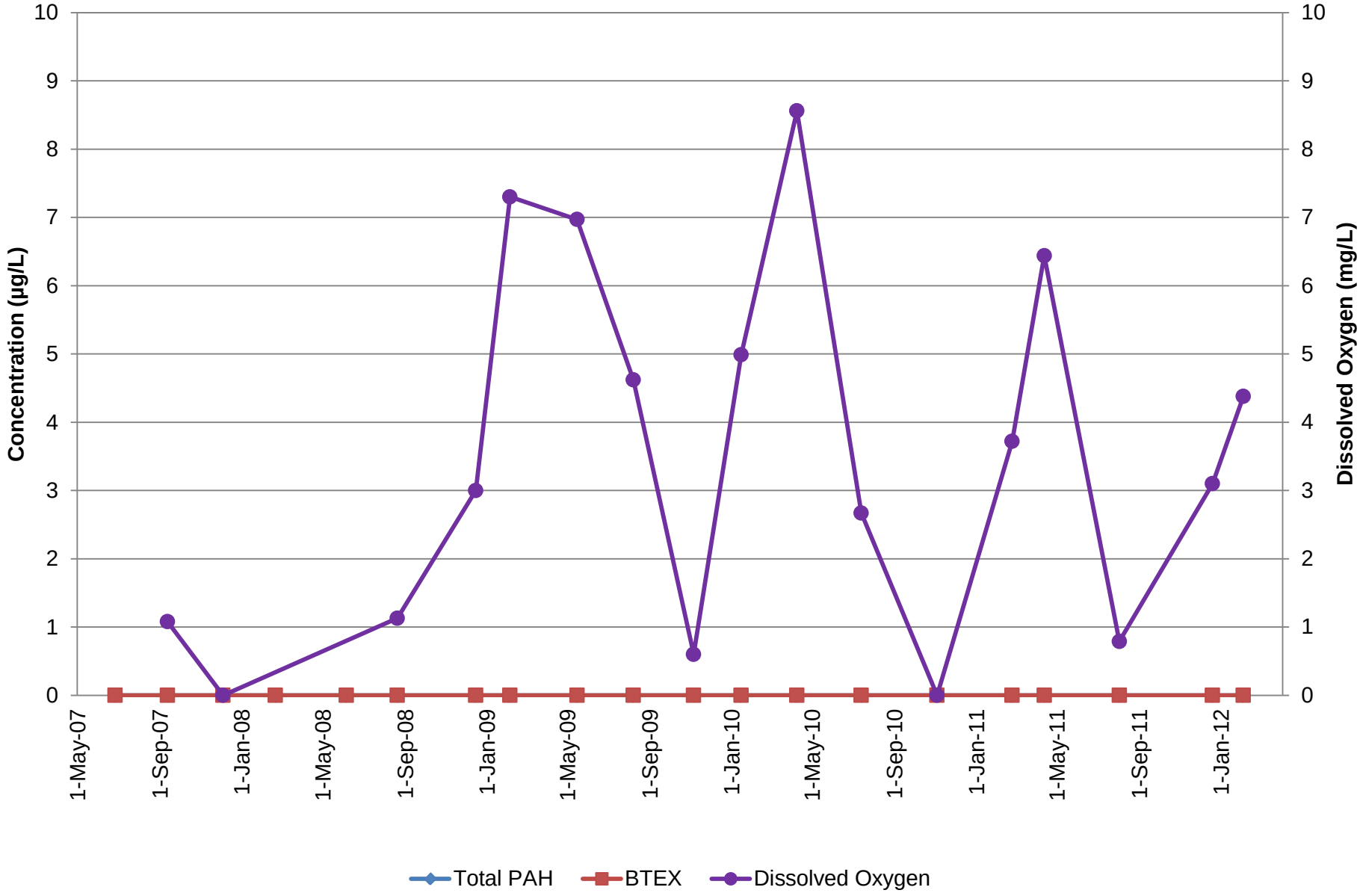
Monitoring Well OU2MW-15I2
30-35 ft bgs



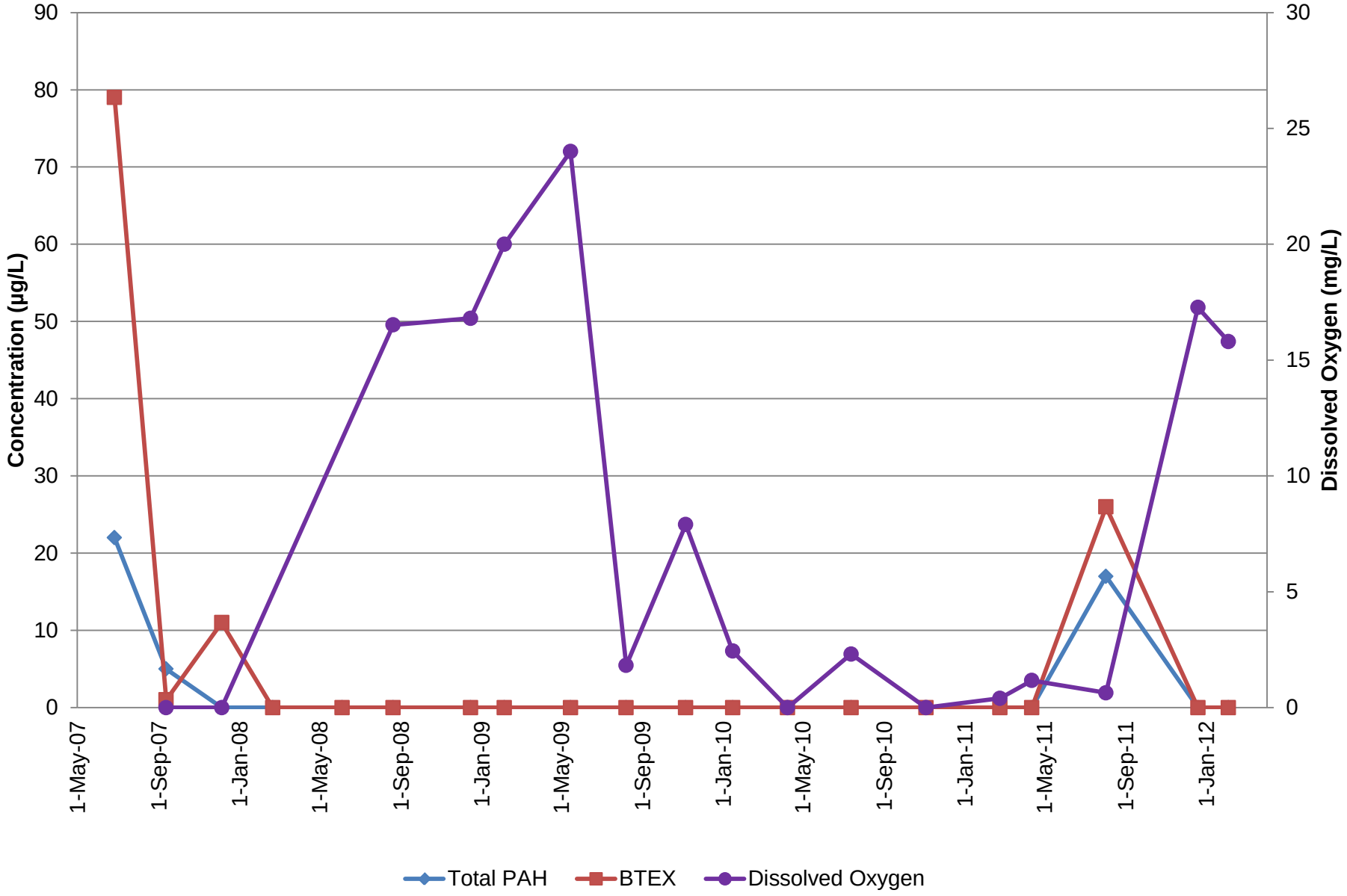
Monitoring Well OU2MW-15D
40-45 ft bgs



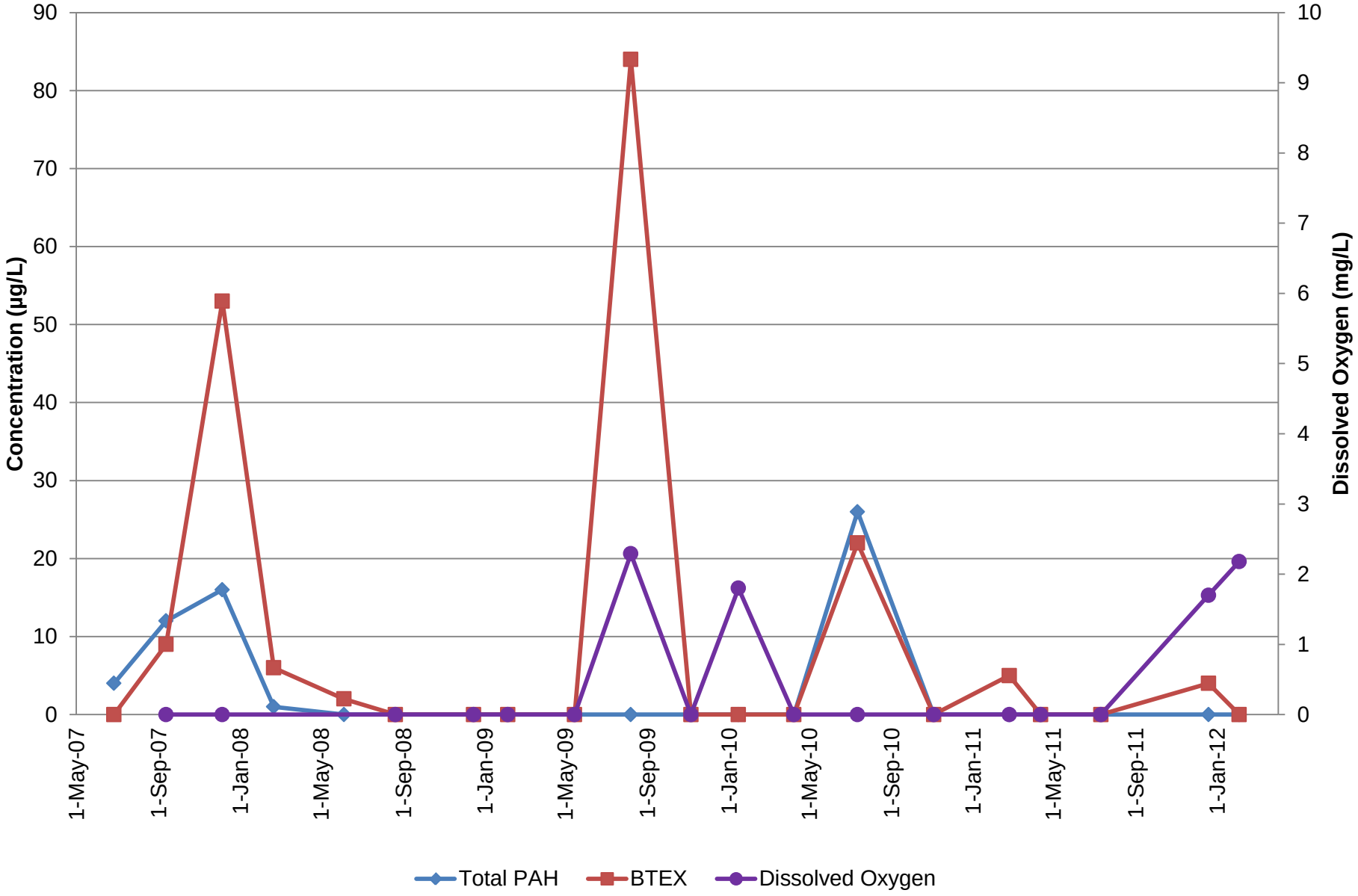
Monitoring Well OU2MW-16S
3-8 ft bgs



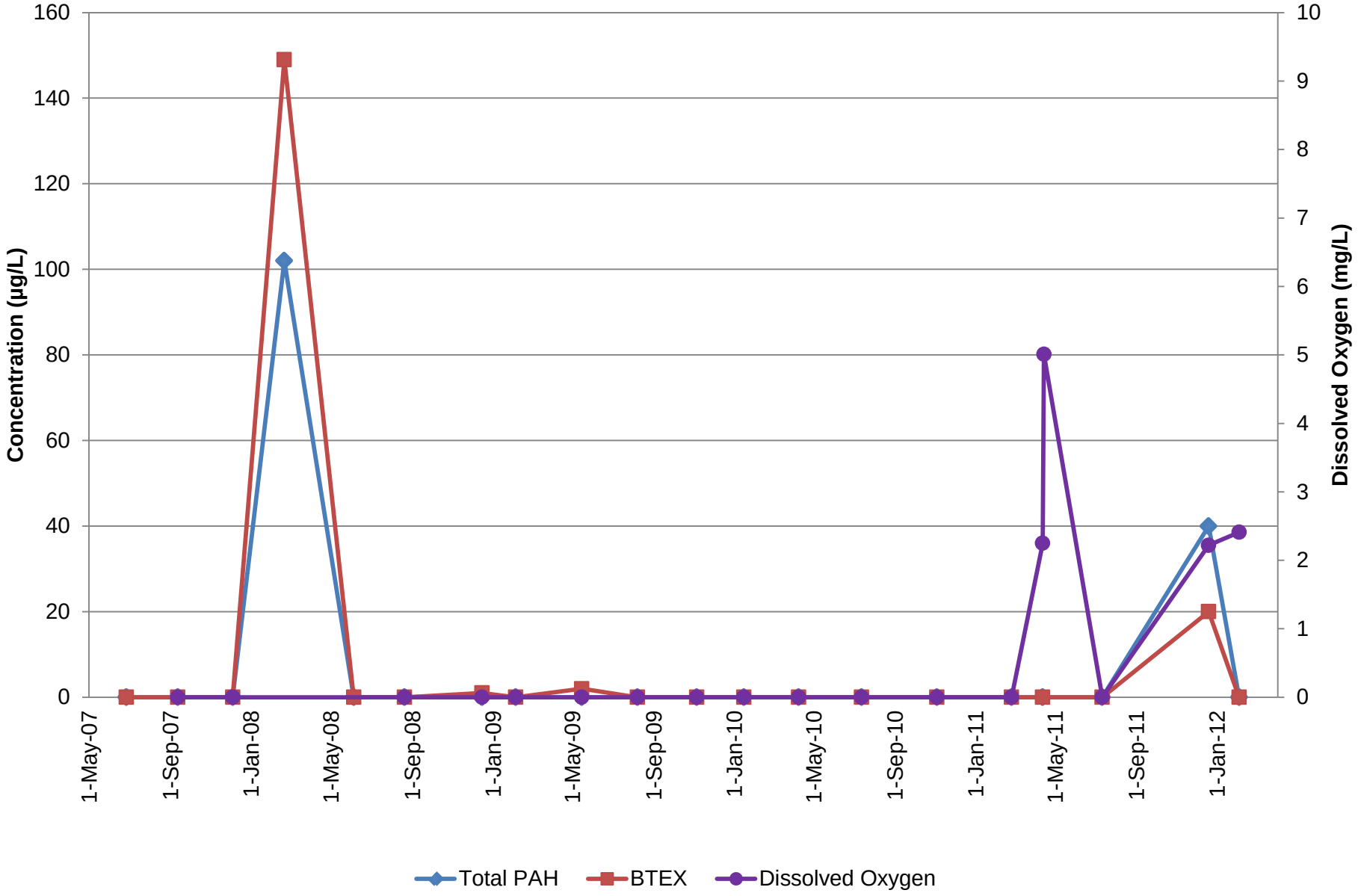
Monitoring Well OU2MW-16I
15-20 ft bgs



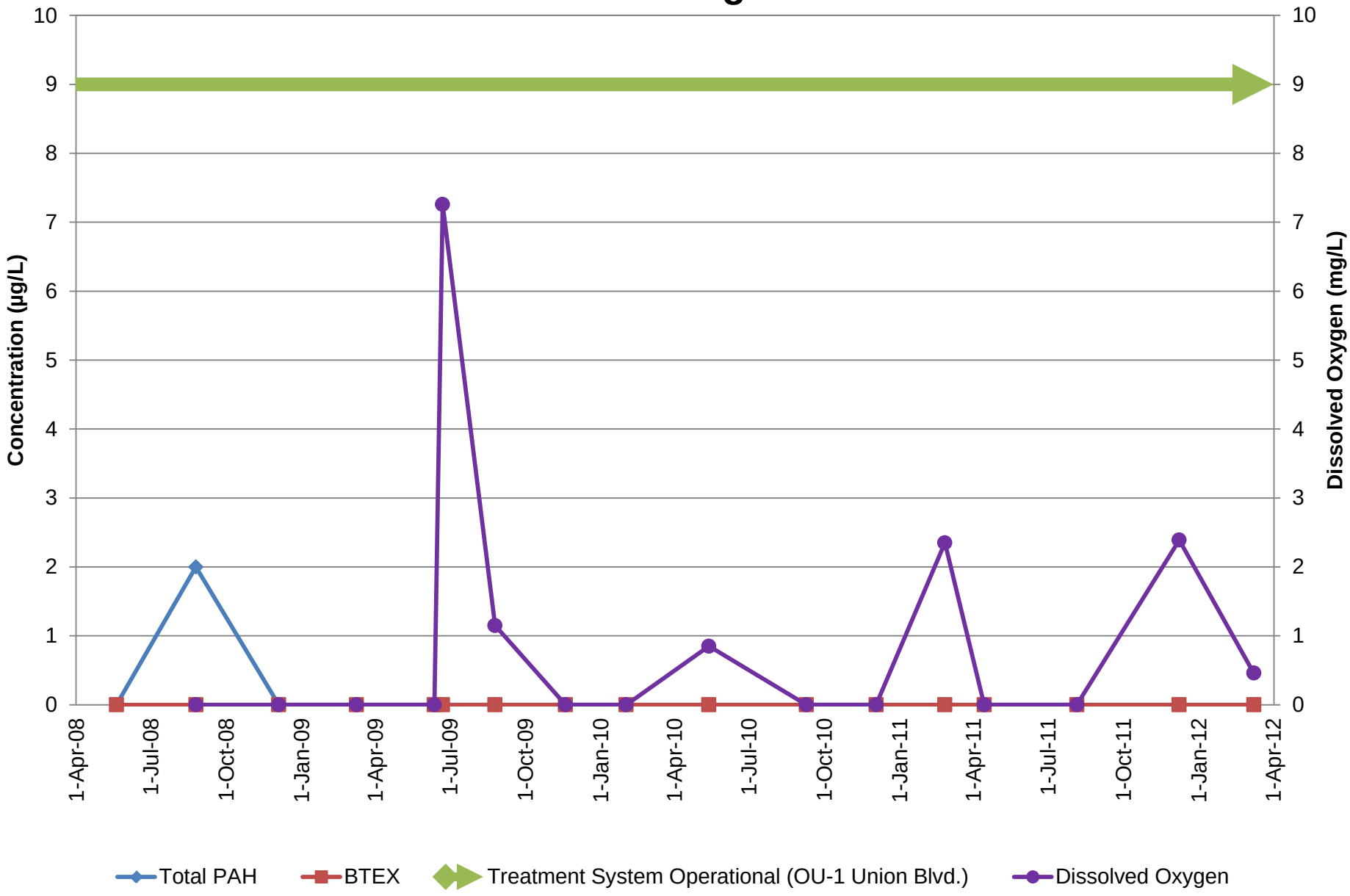
Monitoring Well OU2MW-16I2
25-30 ft bgs



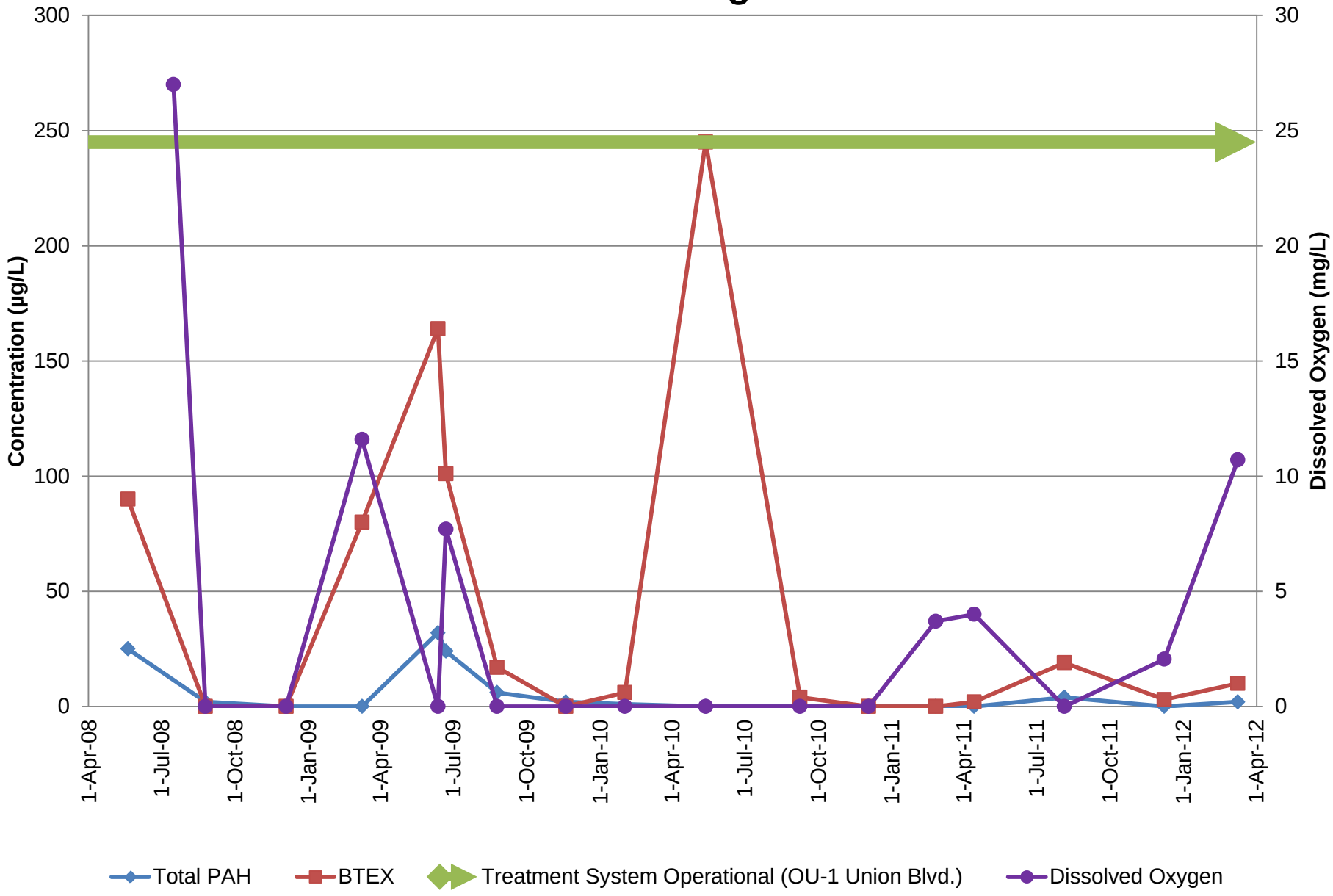
Monitoring Well OU2MW-16D
35-40 ft bgs

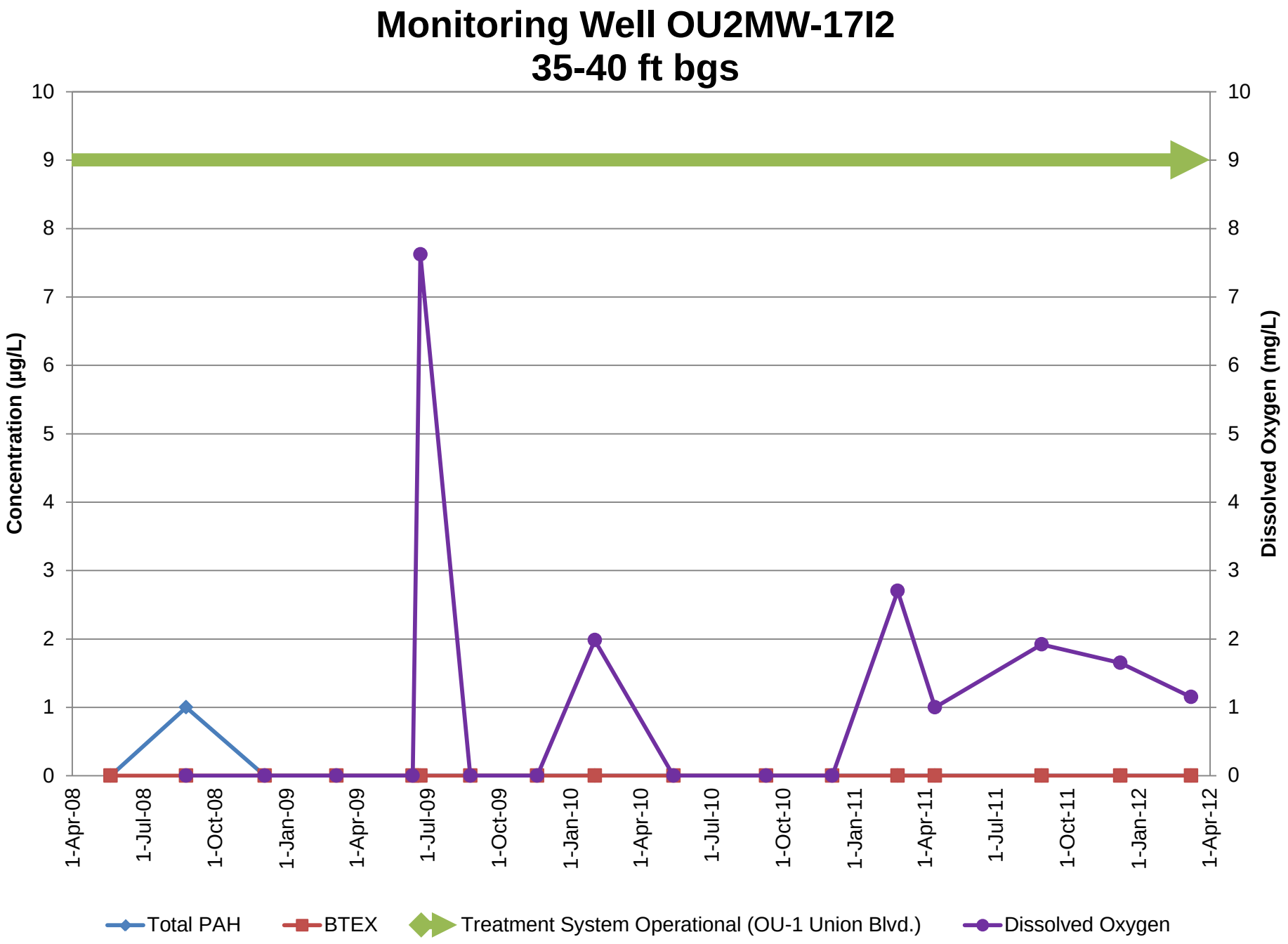


Monitoring Well OU2MW-17S
5-10 ft bgs

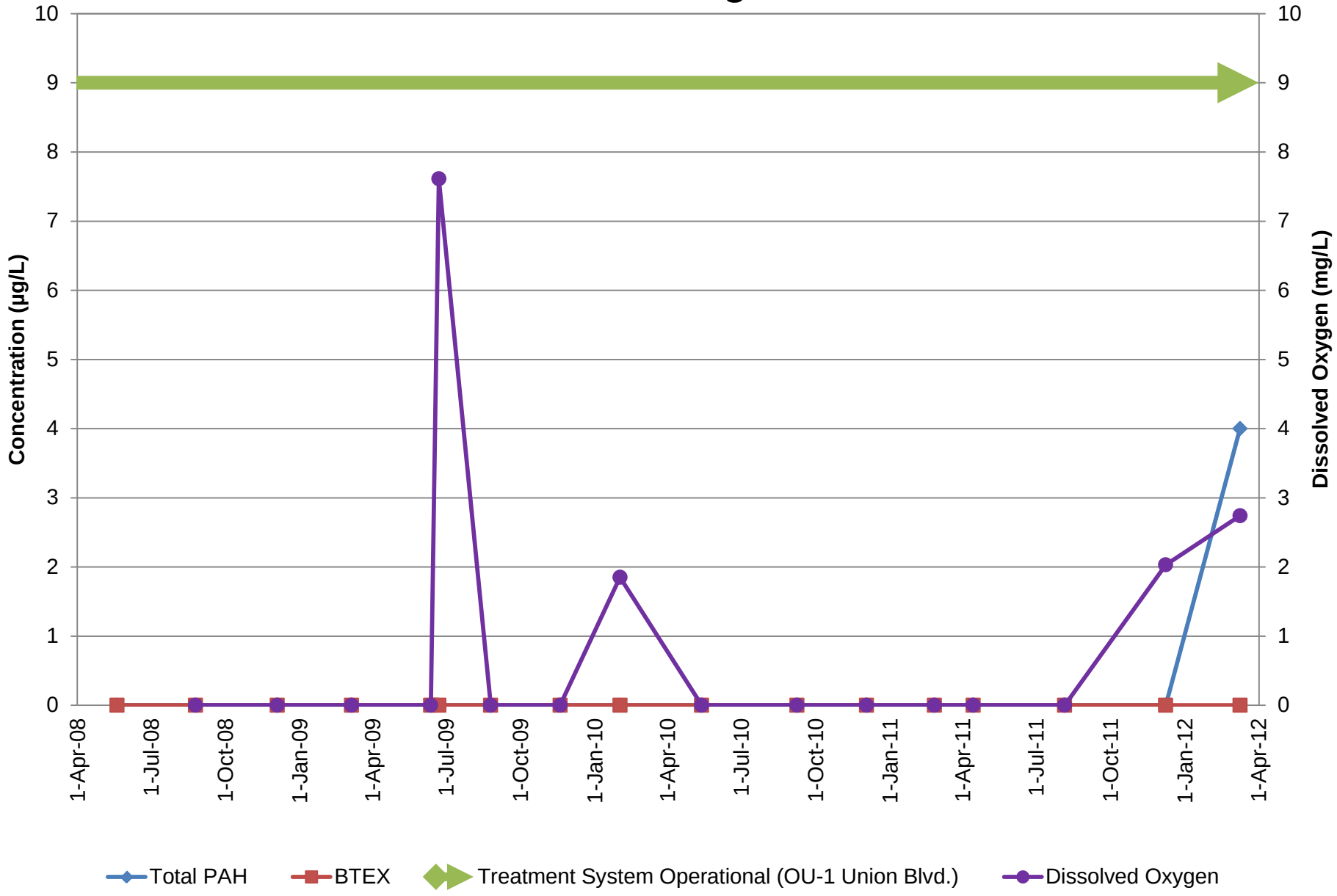


Monitoring Well OU2MW-17I
13-23 ft bgs

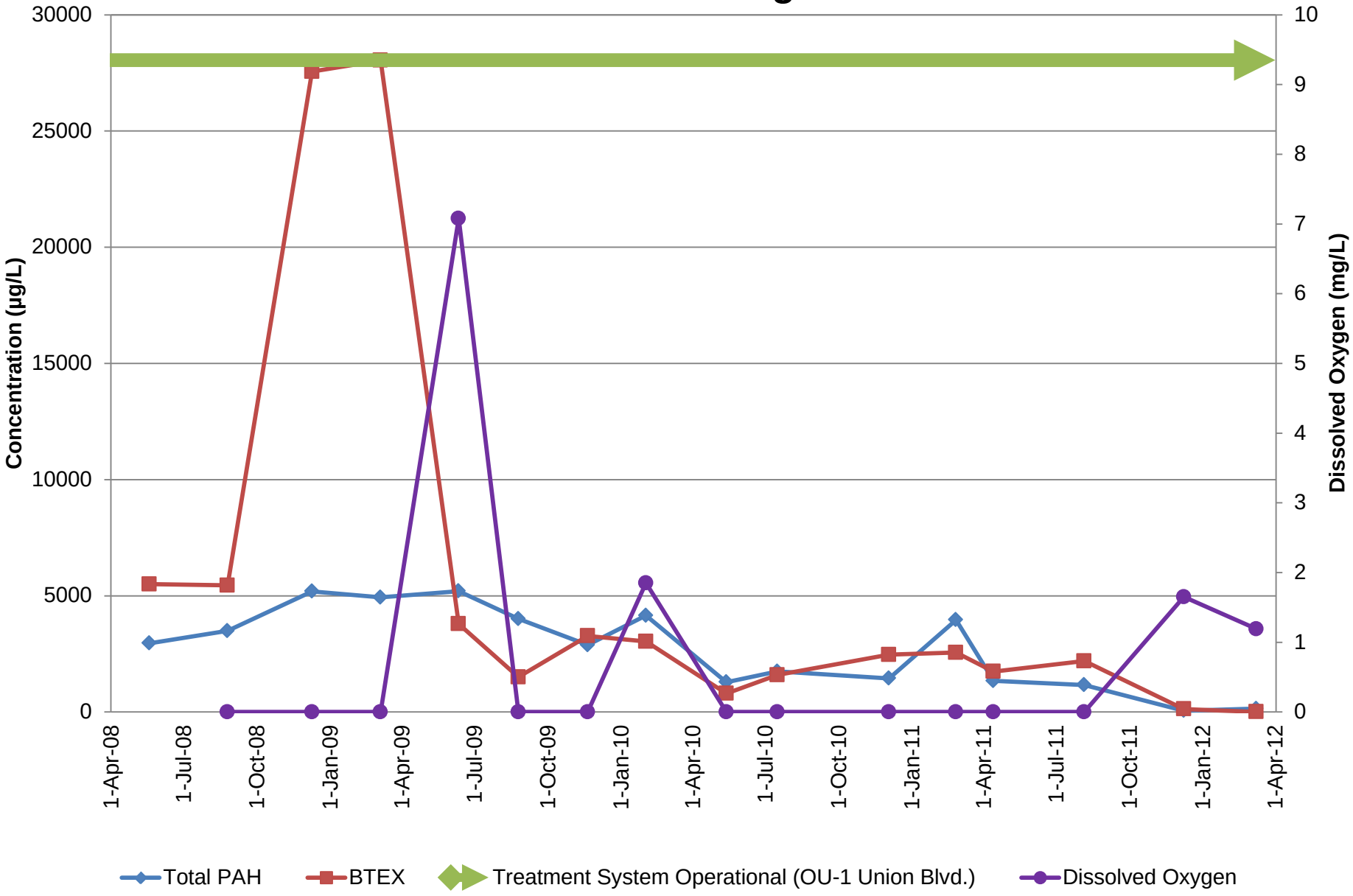



Monitoring Well OU2MW-17I2
35-40 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Apr-08
1-Jul-08
1-Oct-08
1-Jan-09
1-Apr-09
1-Jul-09
1-Oct-09
1-Jan-10
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (OU-1 Union Blvd.)
Dissolved Oxygen

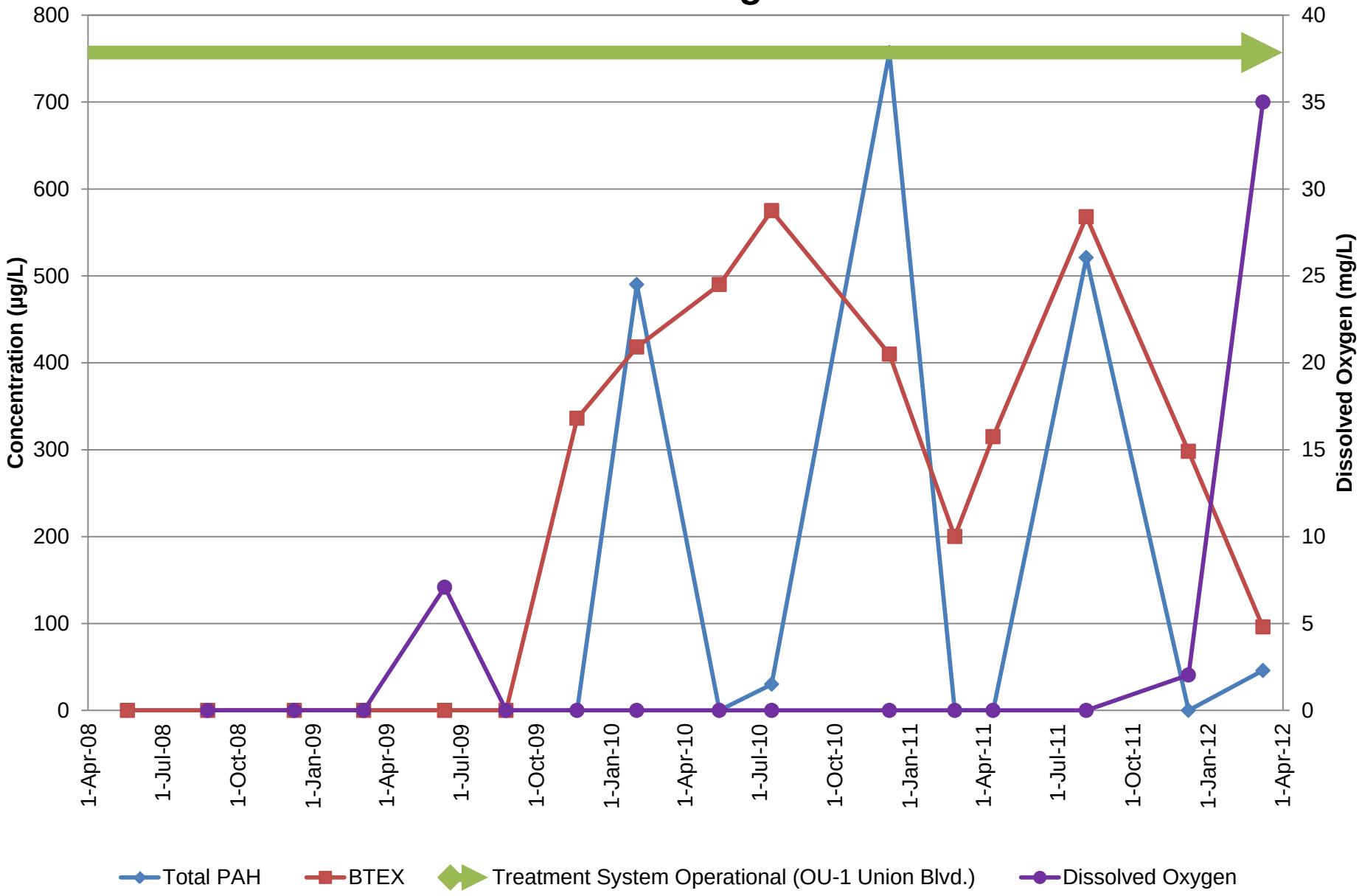
Monitoring Well OU2MW-17D
60-70 ft bgs



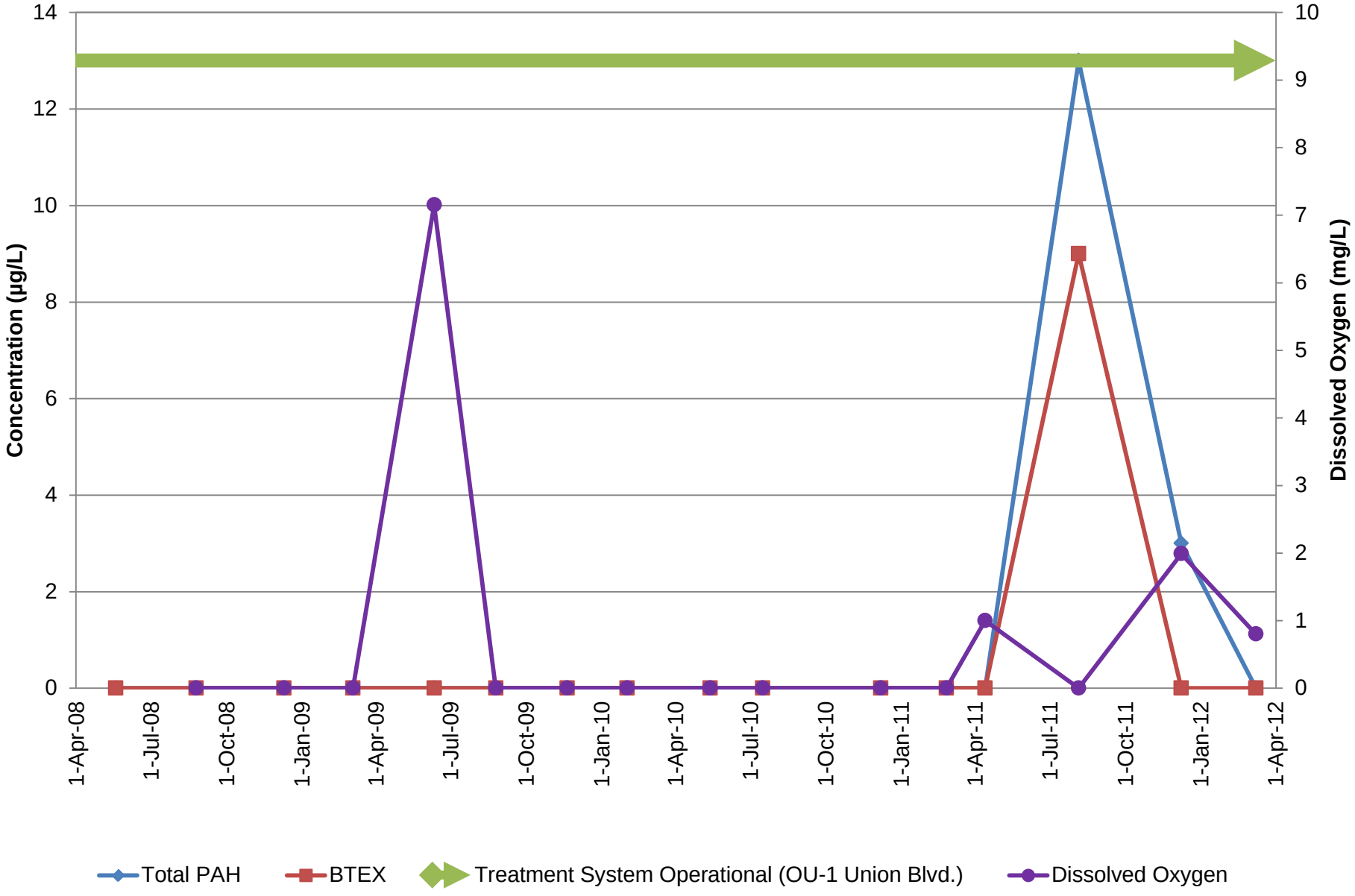
Monitoring Well OU2MW-18I
13-23 ft bgs



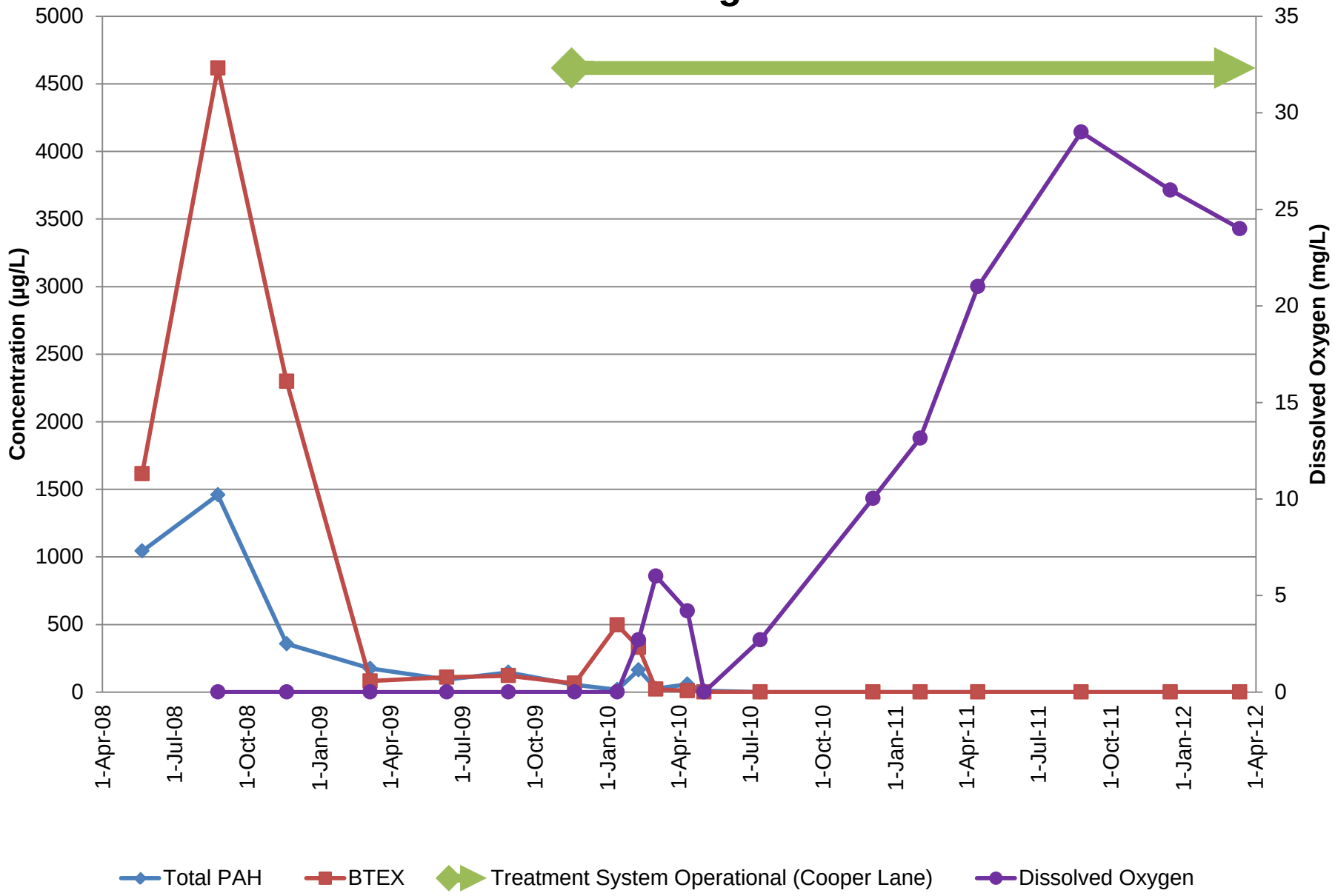
Monitoring Well OU2MW-18I2
35-45 ft bgs



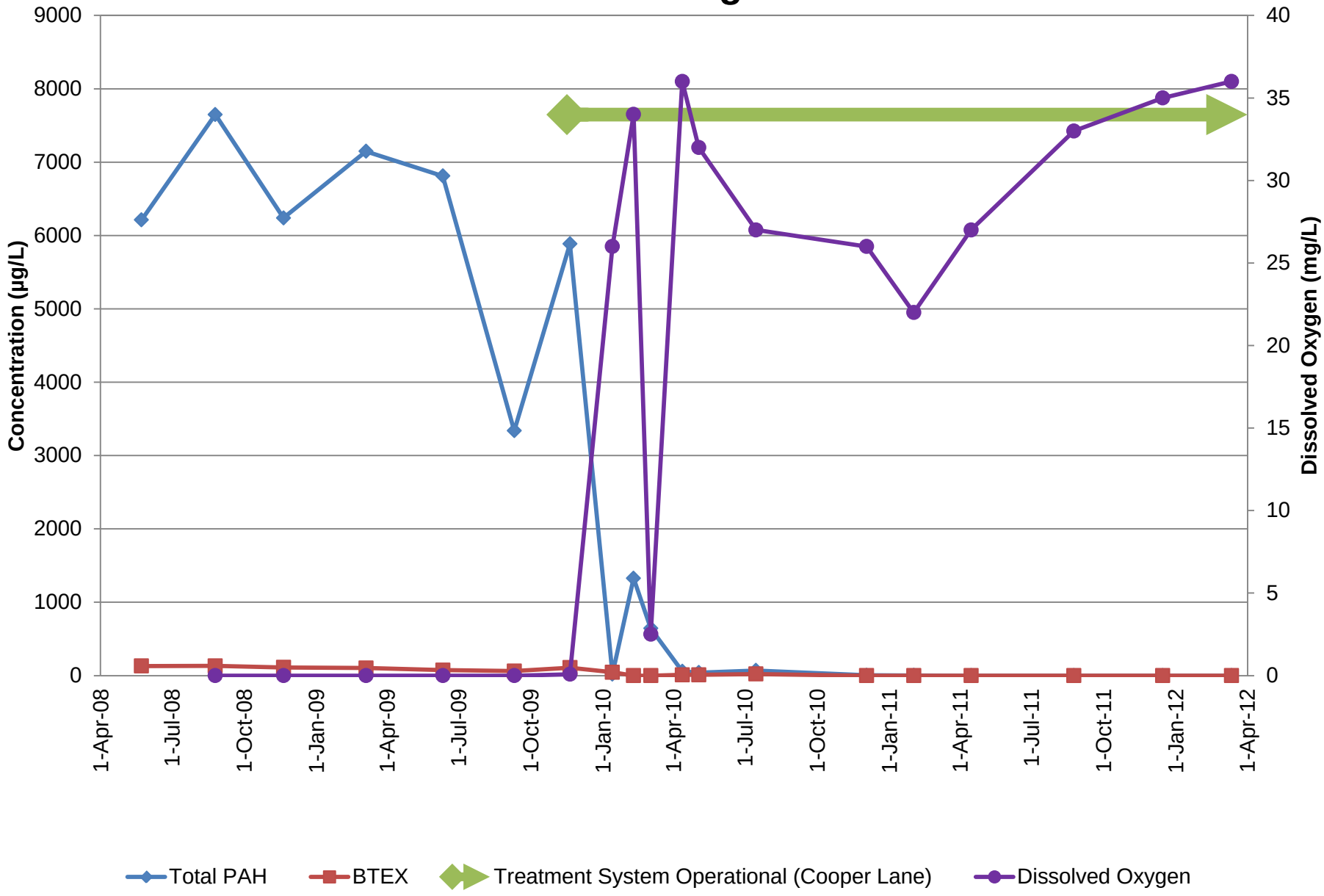
Monitoring Well OU2MW-18D
60-70 ft bgs



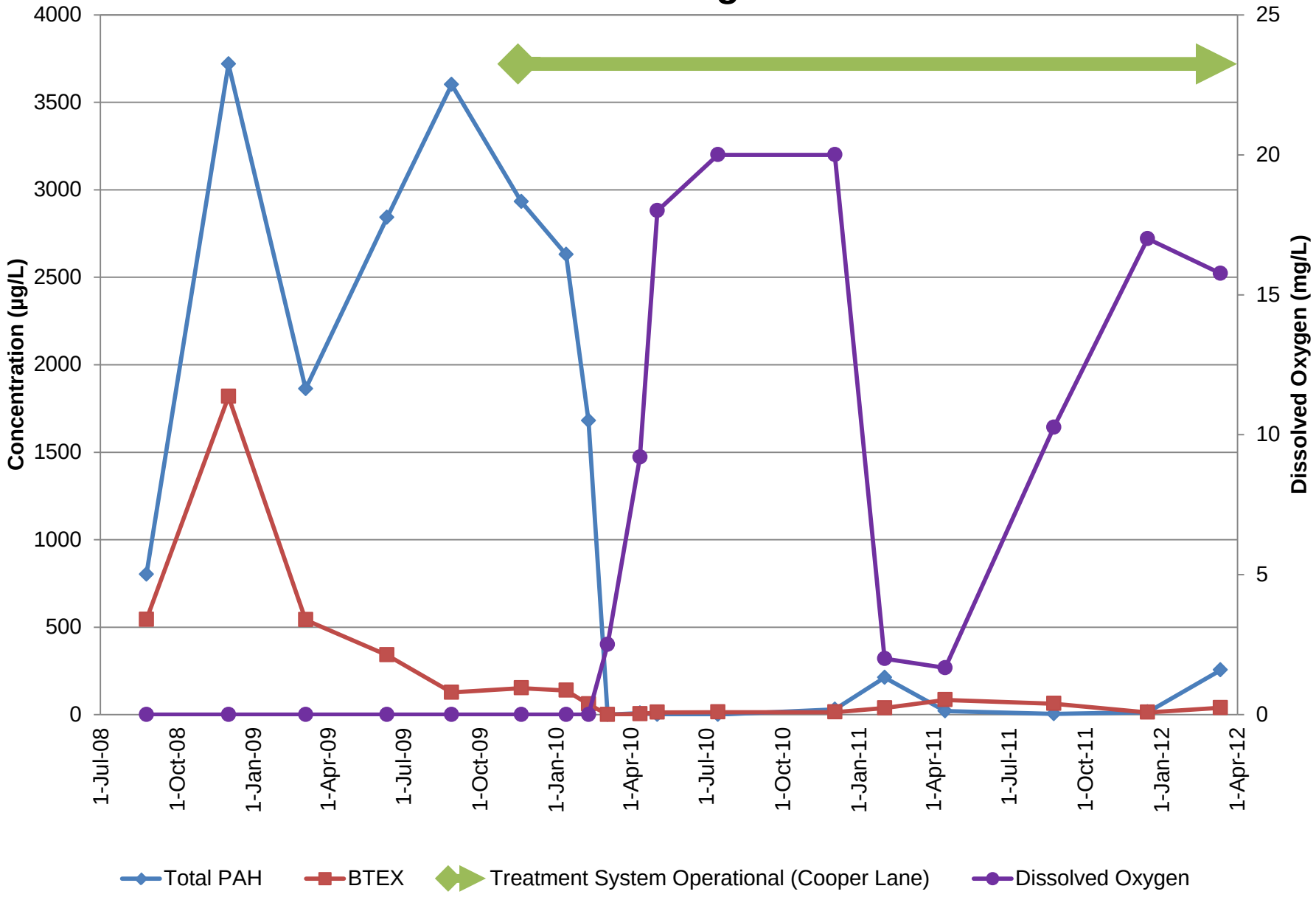
Monitoring Well OU2MW-19I
13-23 ft bgs



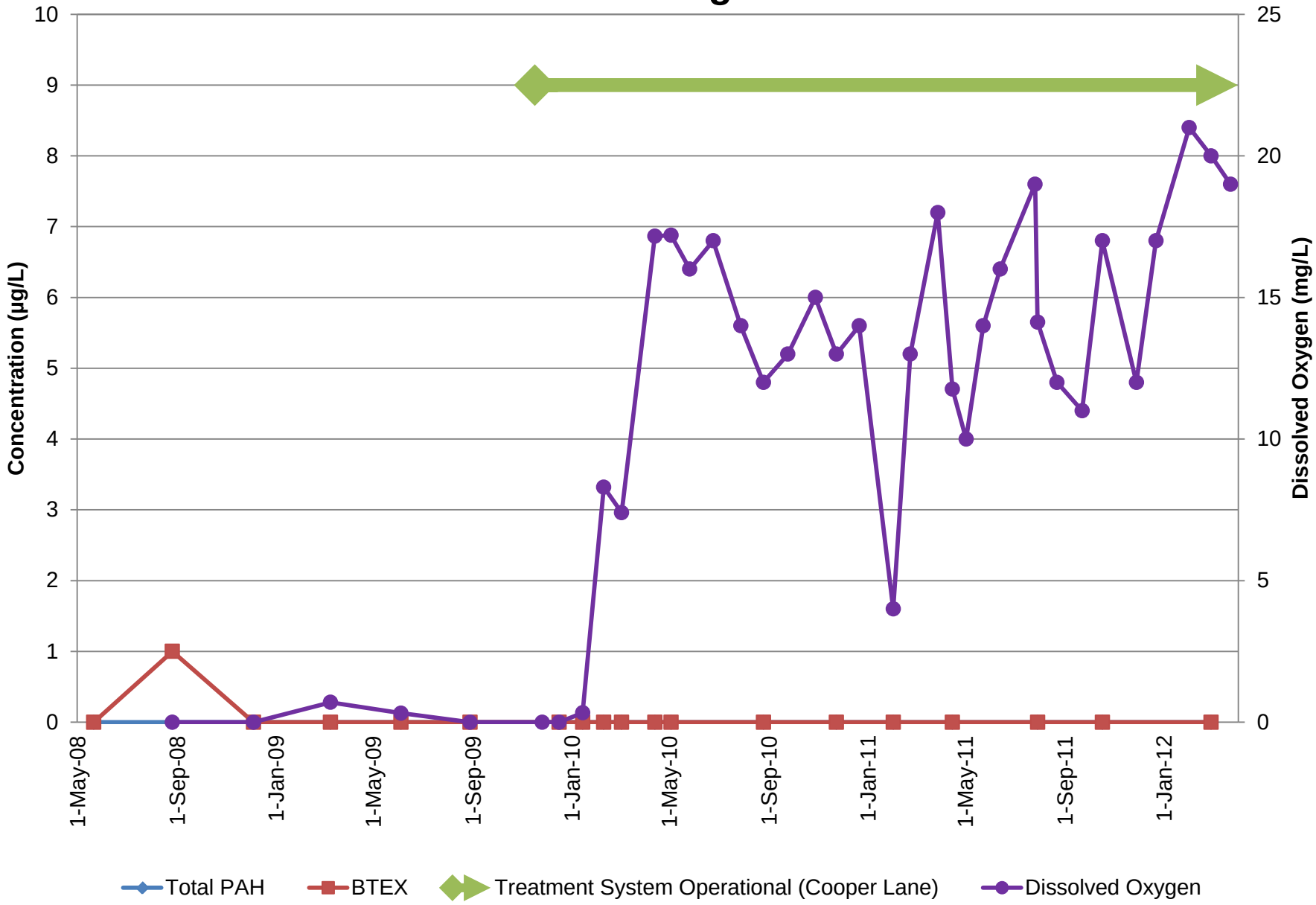
Monitoring Well OU2MW-19I2
35-45 ft bgs



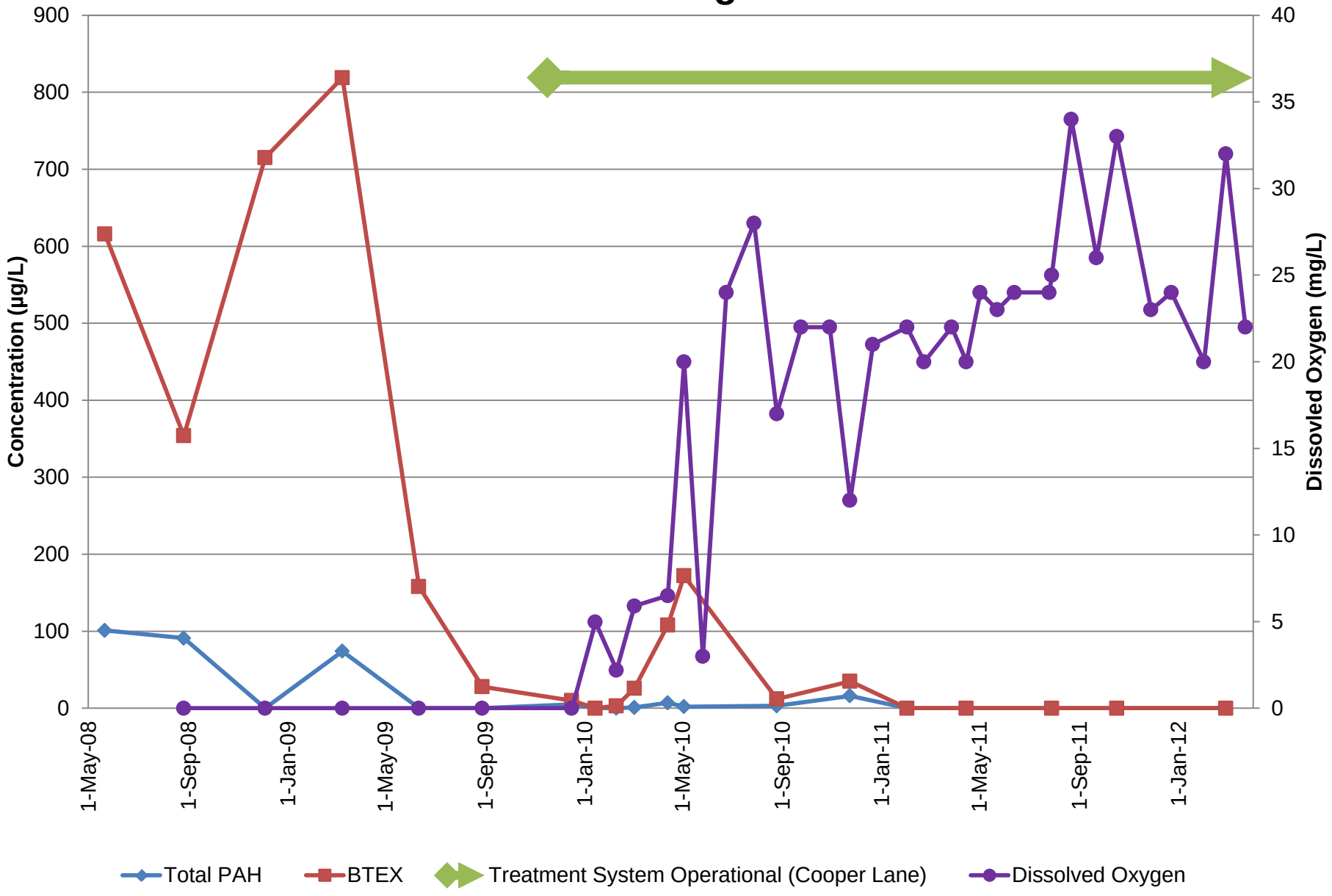
Monitoring Well OU2MW-19D
65-70 ft bgs



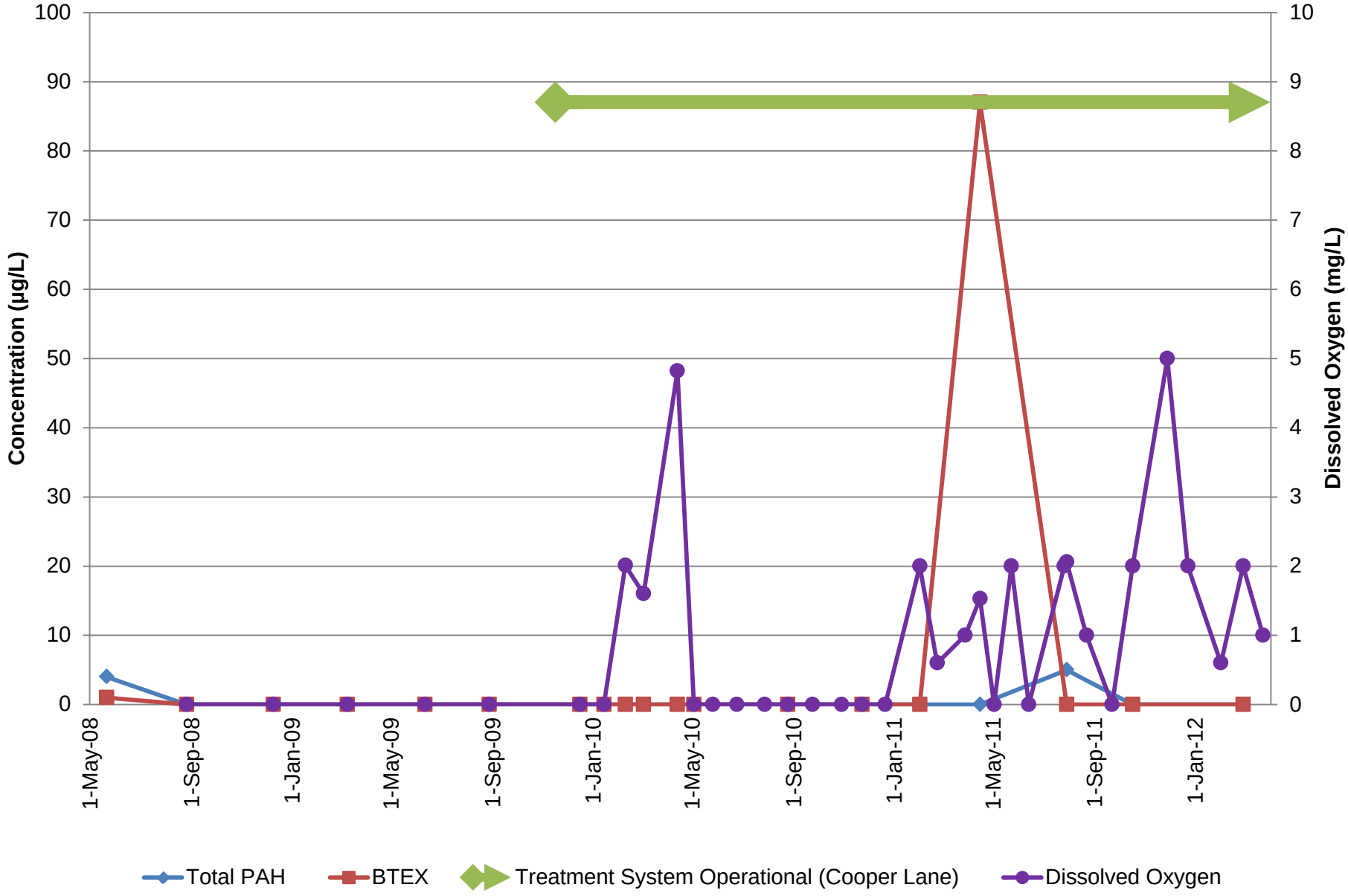
Monitoring Well OU2MW-20S
4-9 ft bgs



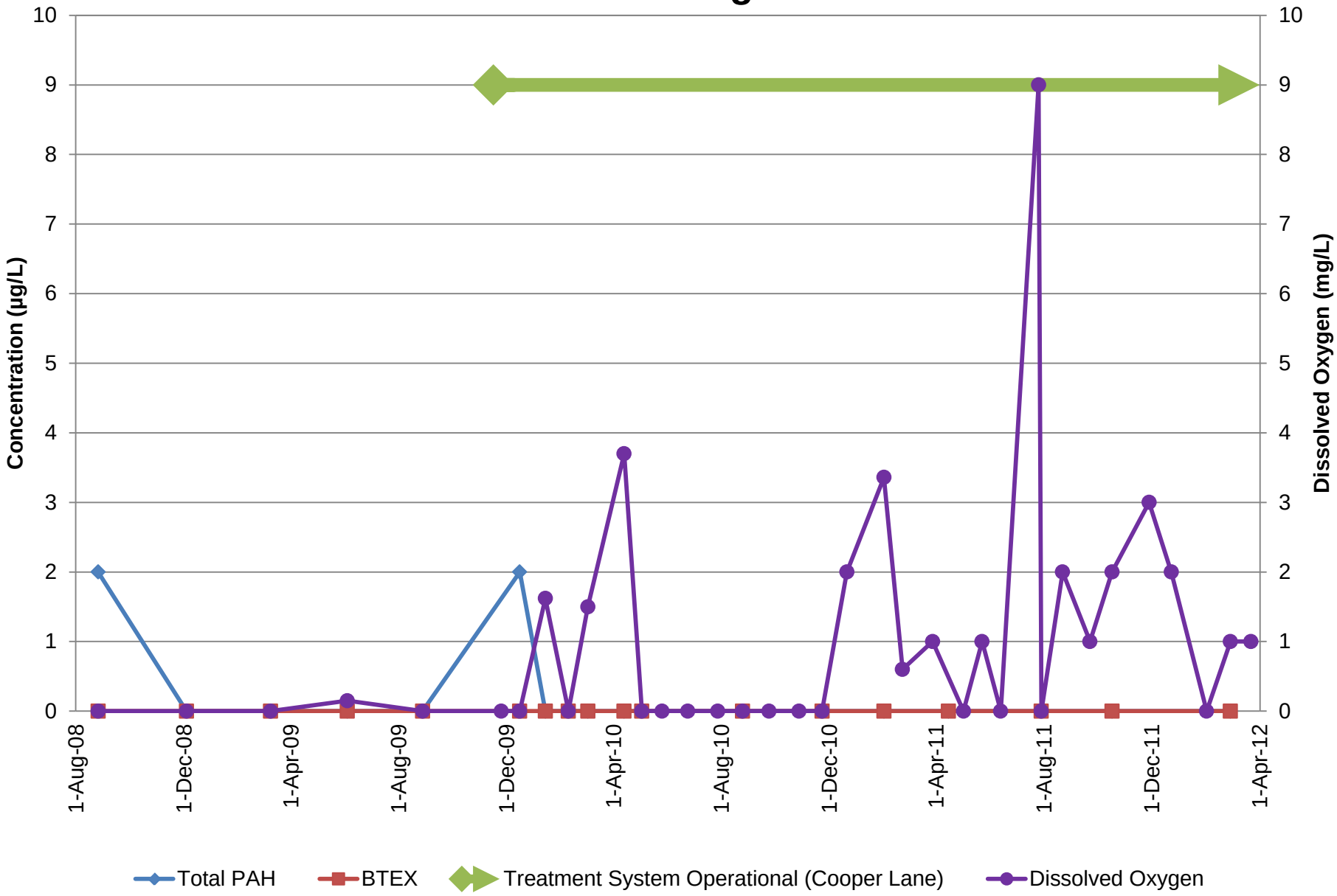
Monitoring Well OU2MW-20I
13-23 ft bgs



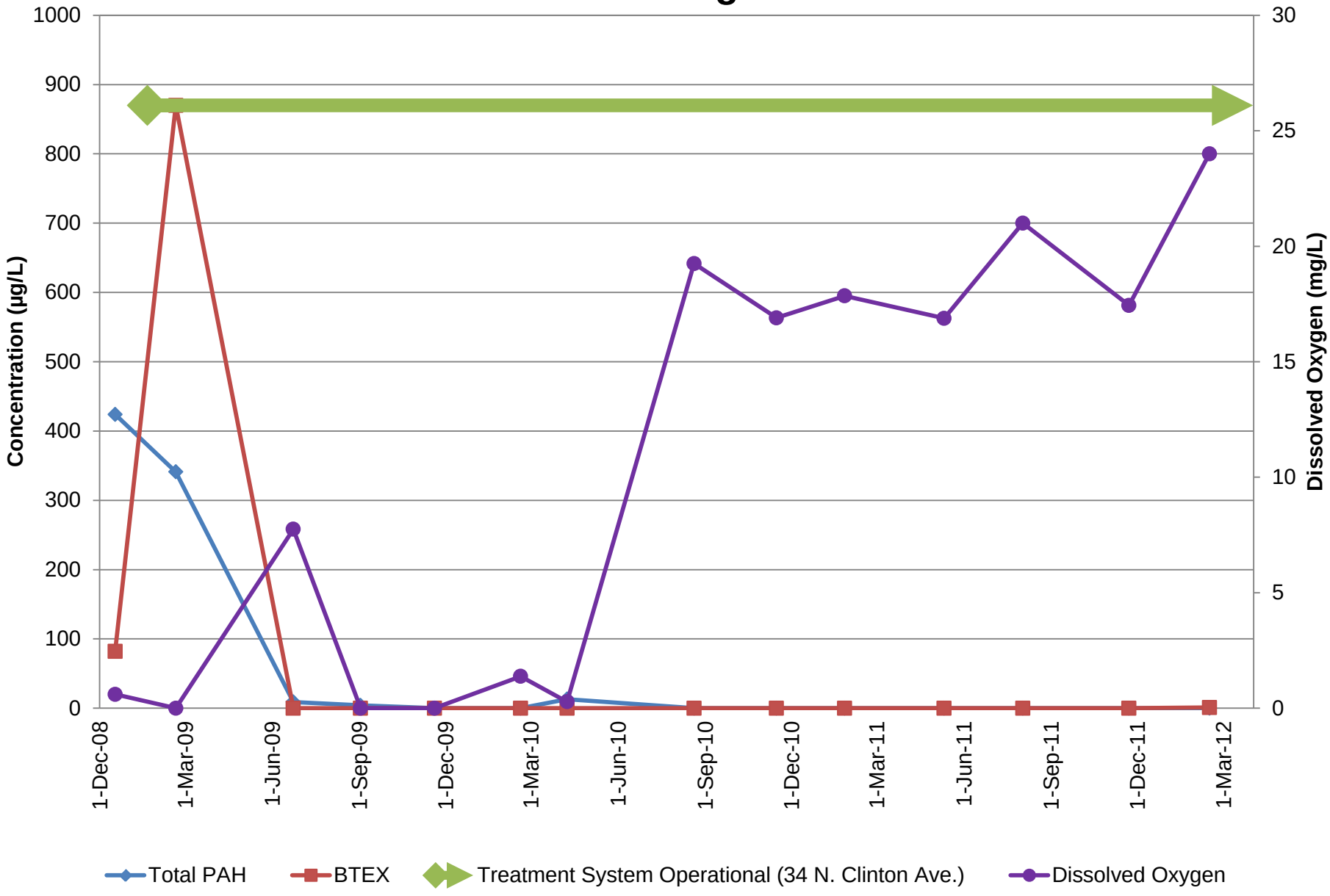
Monitoring Well OU2MW-20I2
35-45 ft bgs



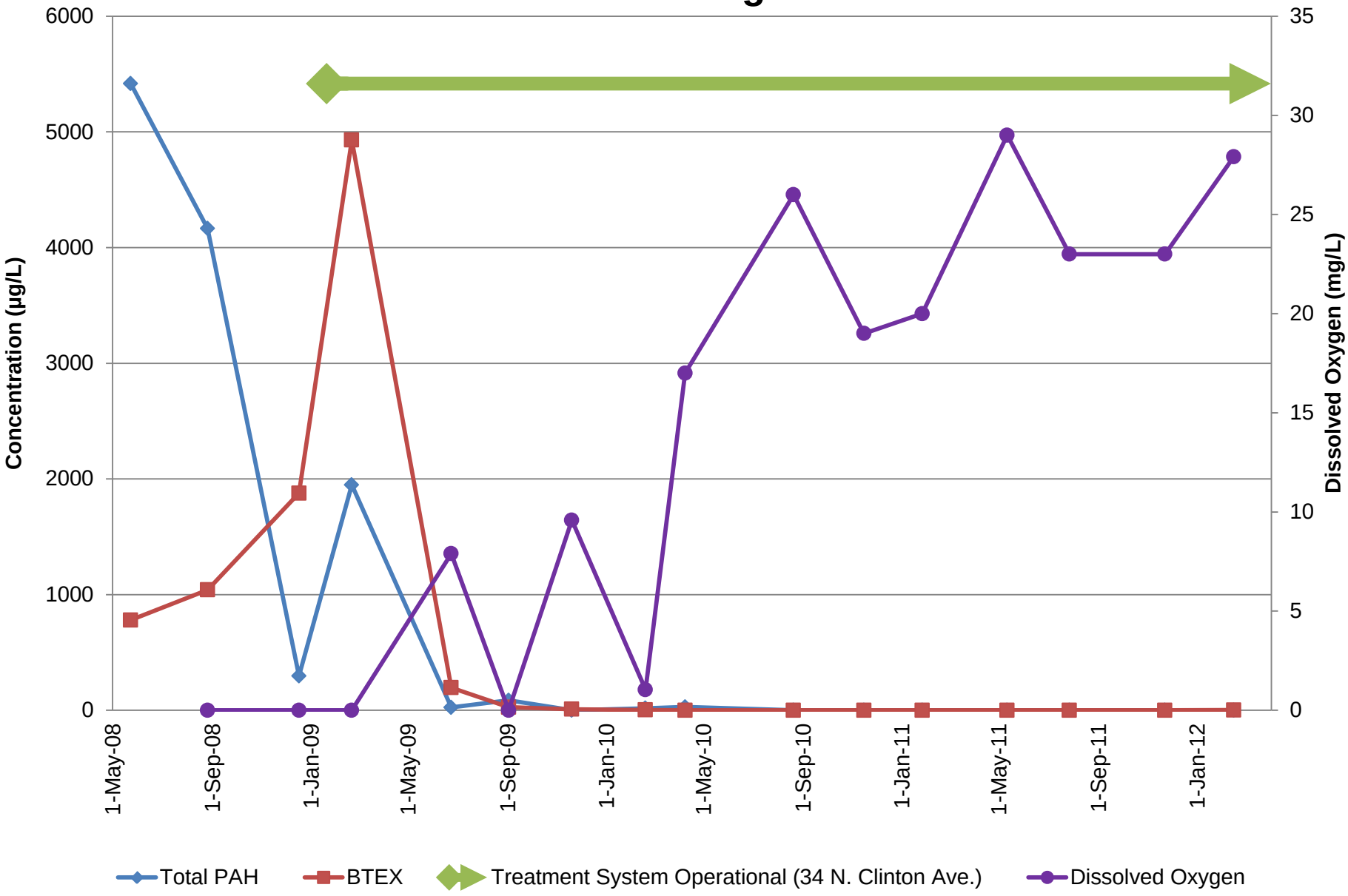
Monitoring Well OU2MW-20D
65-70 ft bgs

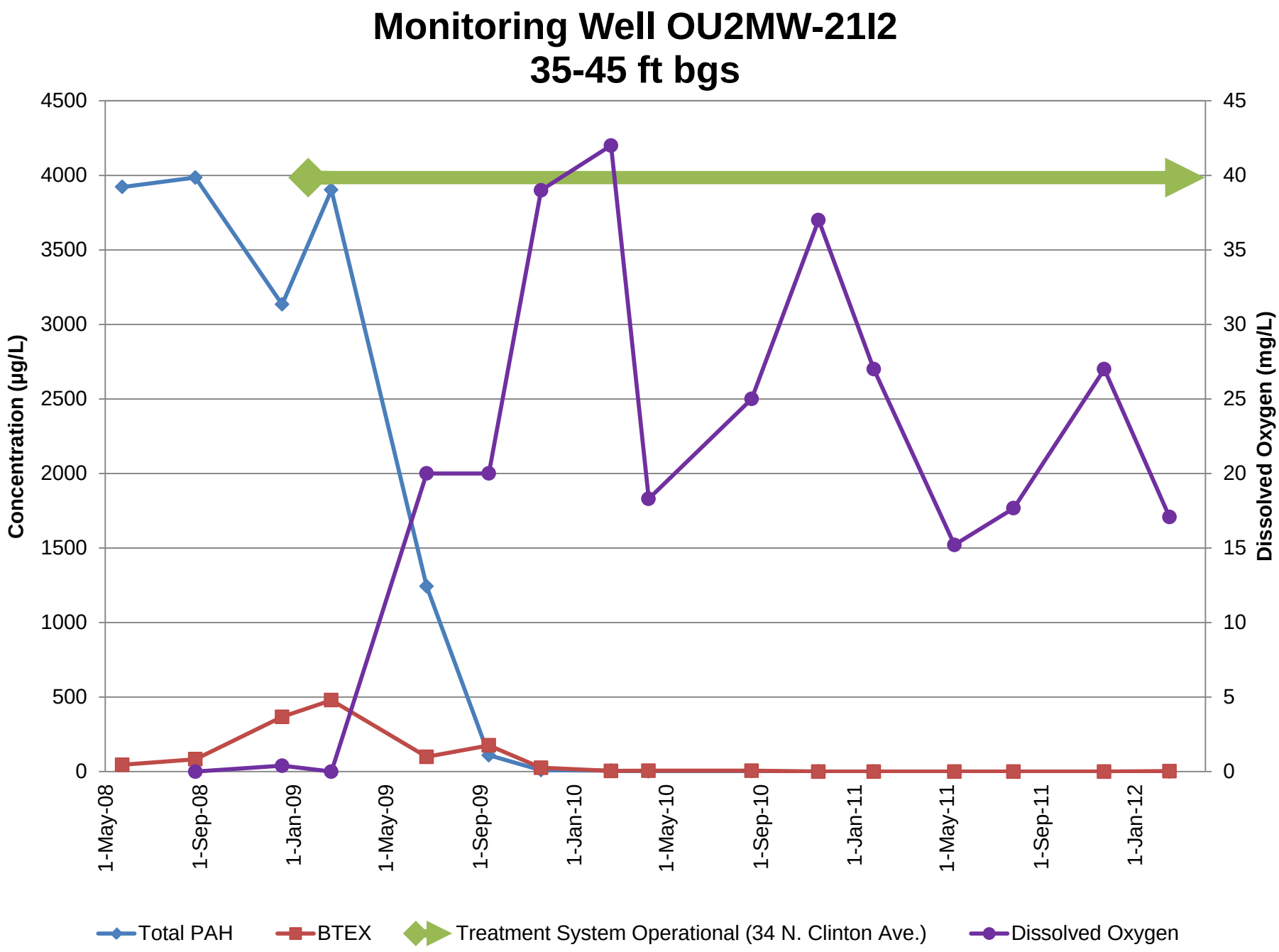


Monitoring Well OU2MW-21S
5-15 ft bgs

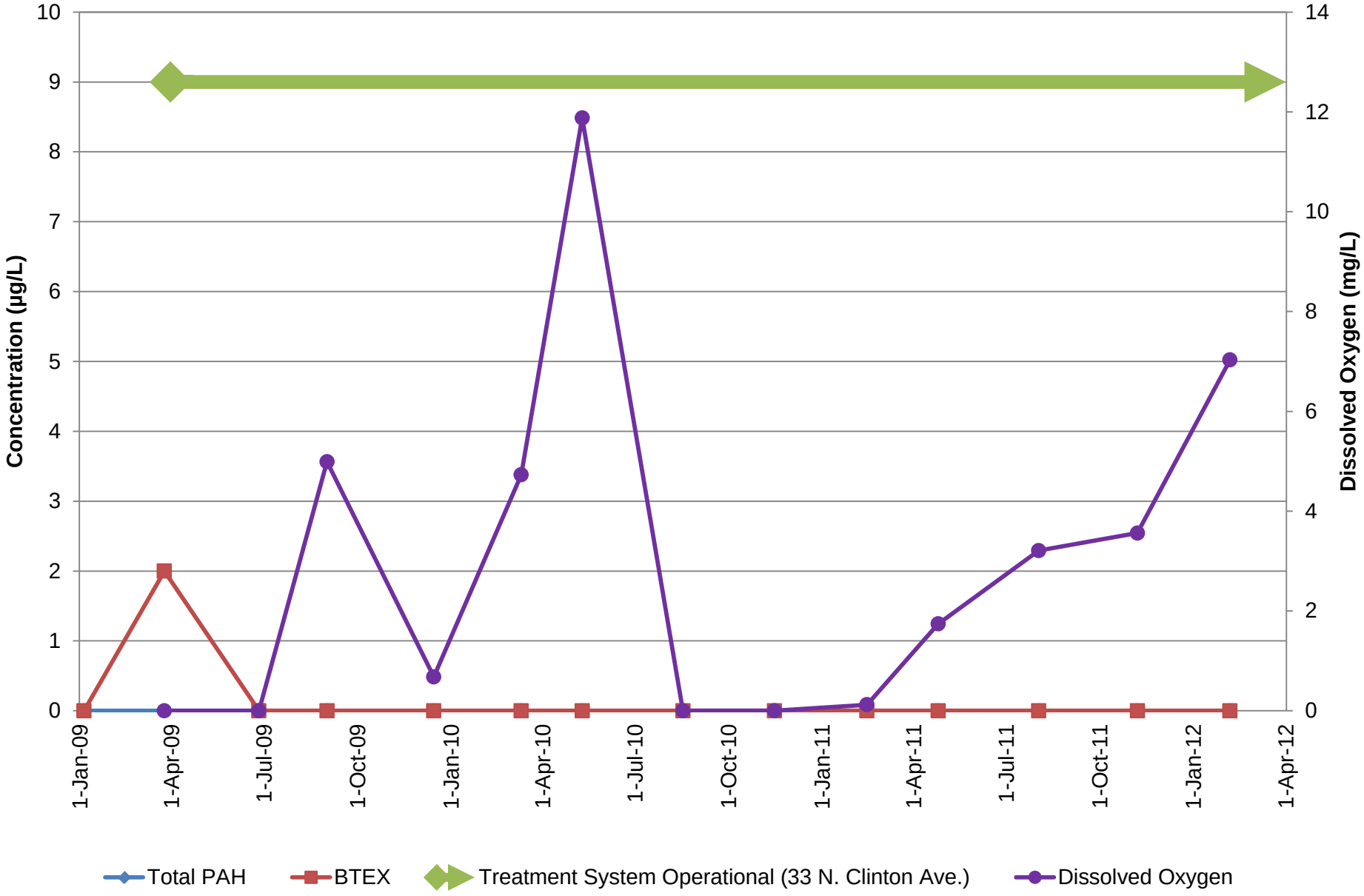


Monitoring Well OU2MW-21I
13-23 ft bgs

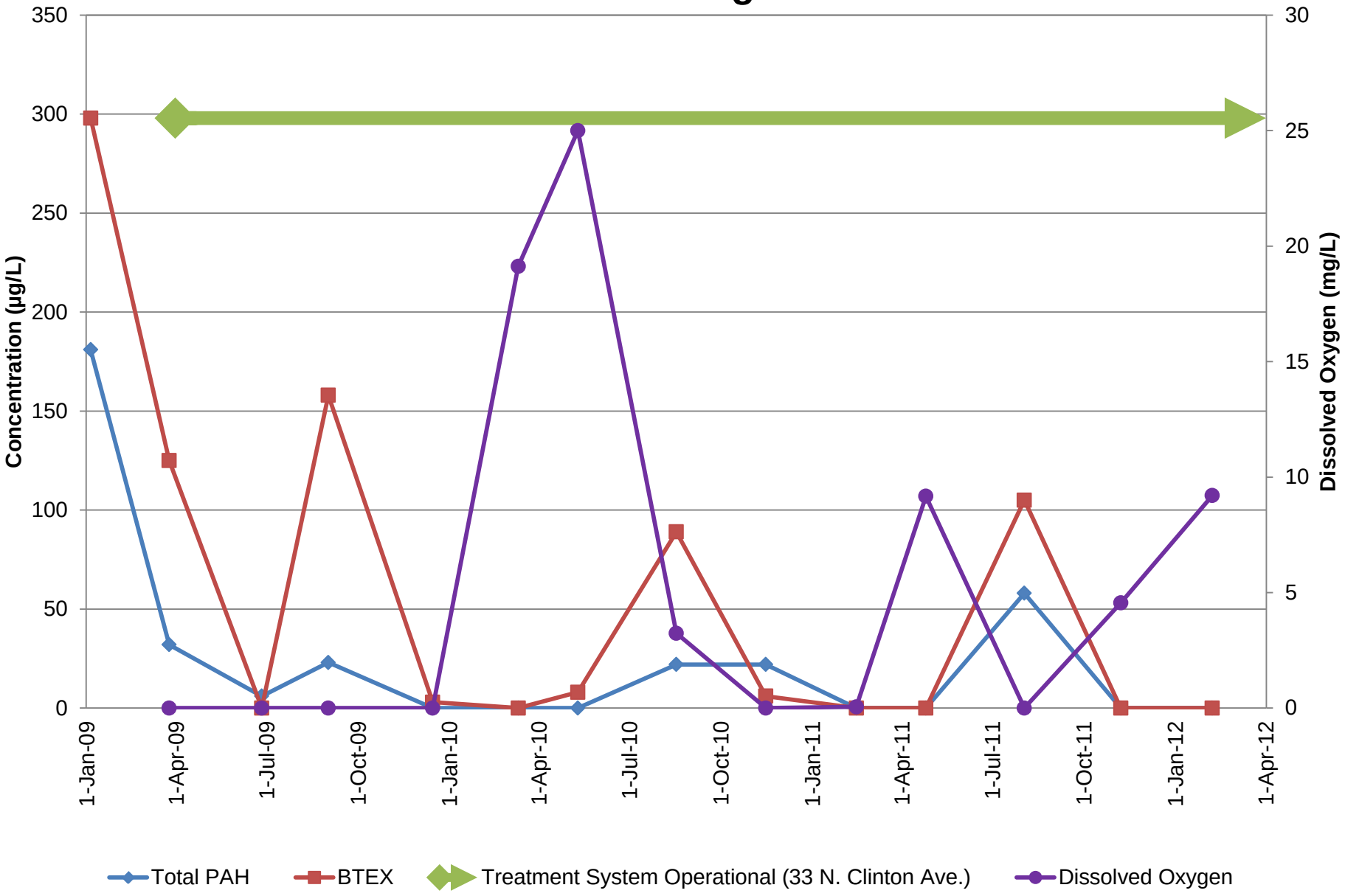


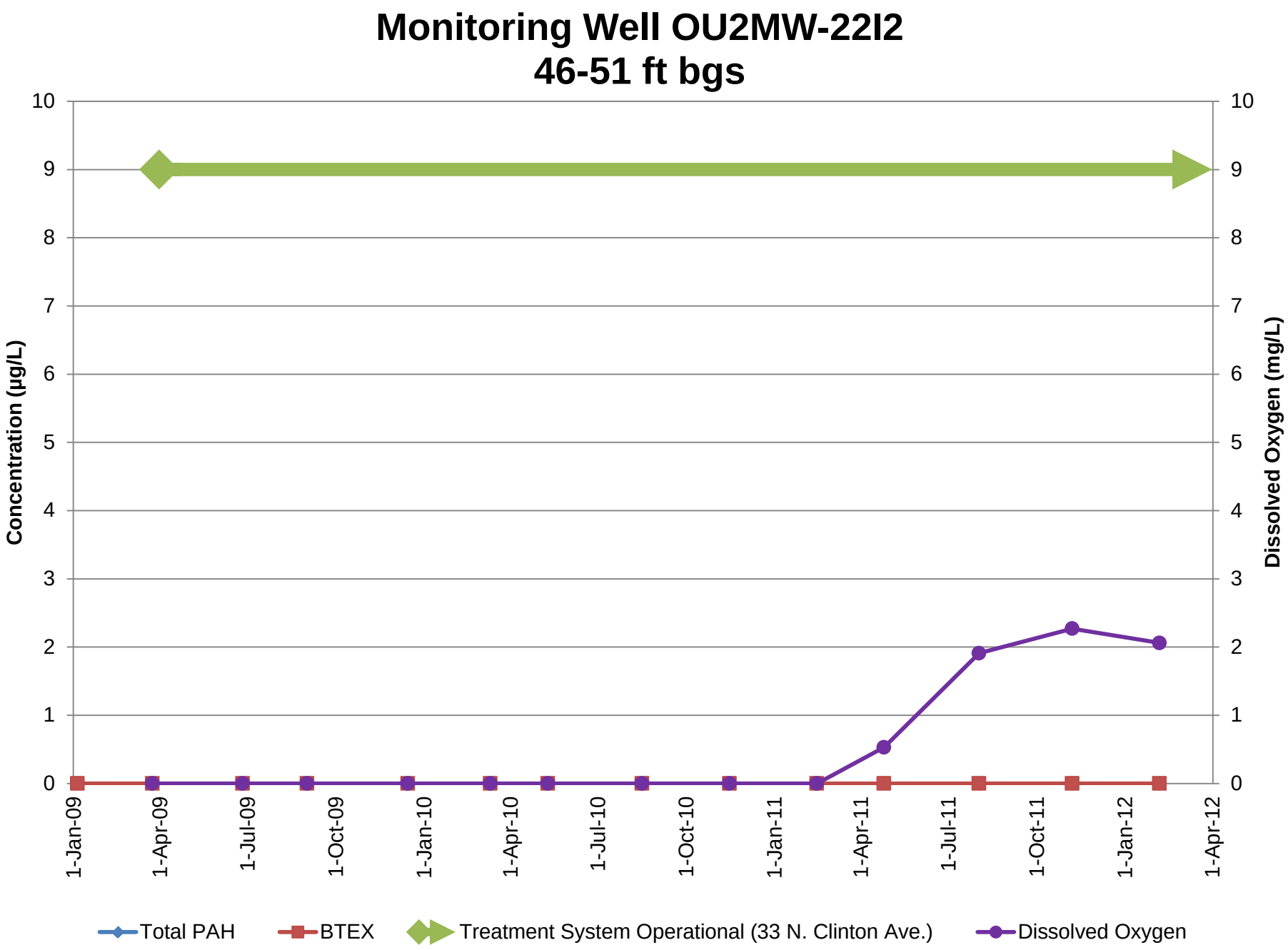

Monitoring Well OU2MW-21I2
35-45 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
45
40
35
30
25
20
15
10
5
0
1-May-08
1-Sep-08
1-Jan-09
1-May-09
1-Sep-09
1-Jan-10
1-May-10
1-Sep-10
1-Jan-11
1-May-11
1-Sep-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (34 N. Clinton Ave.)
Dissolved Oxygen

Monitoring Well OU2MW-22S
5-15 ft bgs

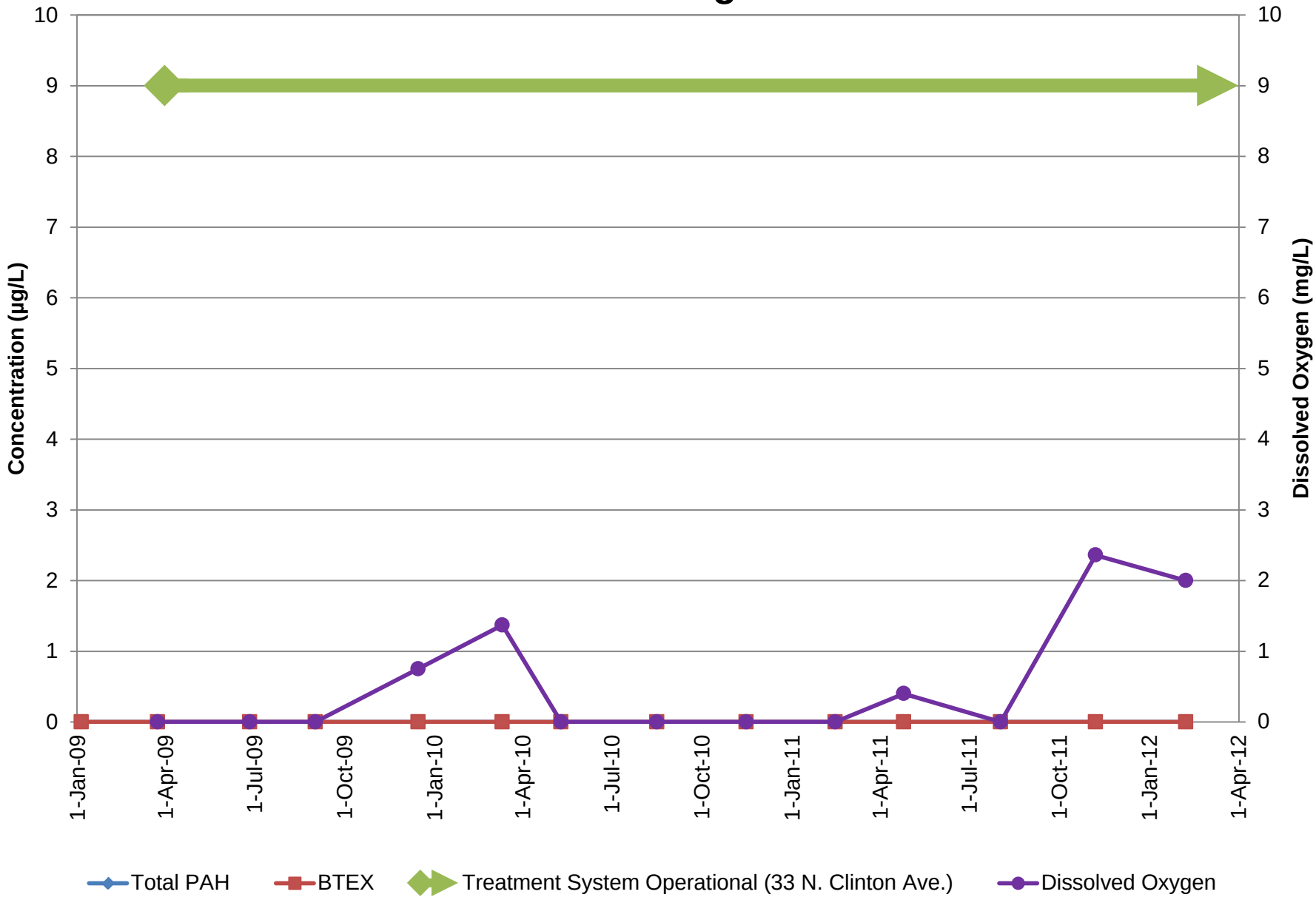


Monitoring Well OU2MW-22I
25-30 ft bgs

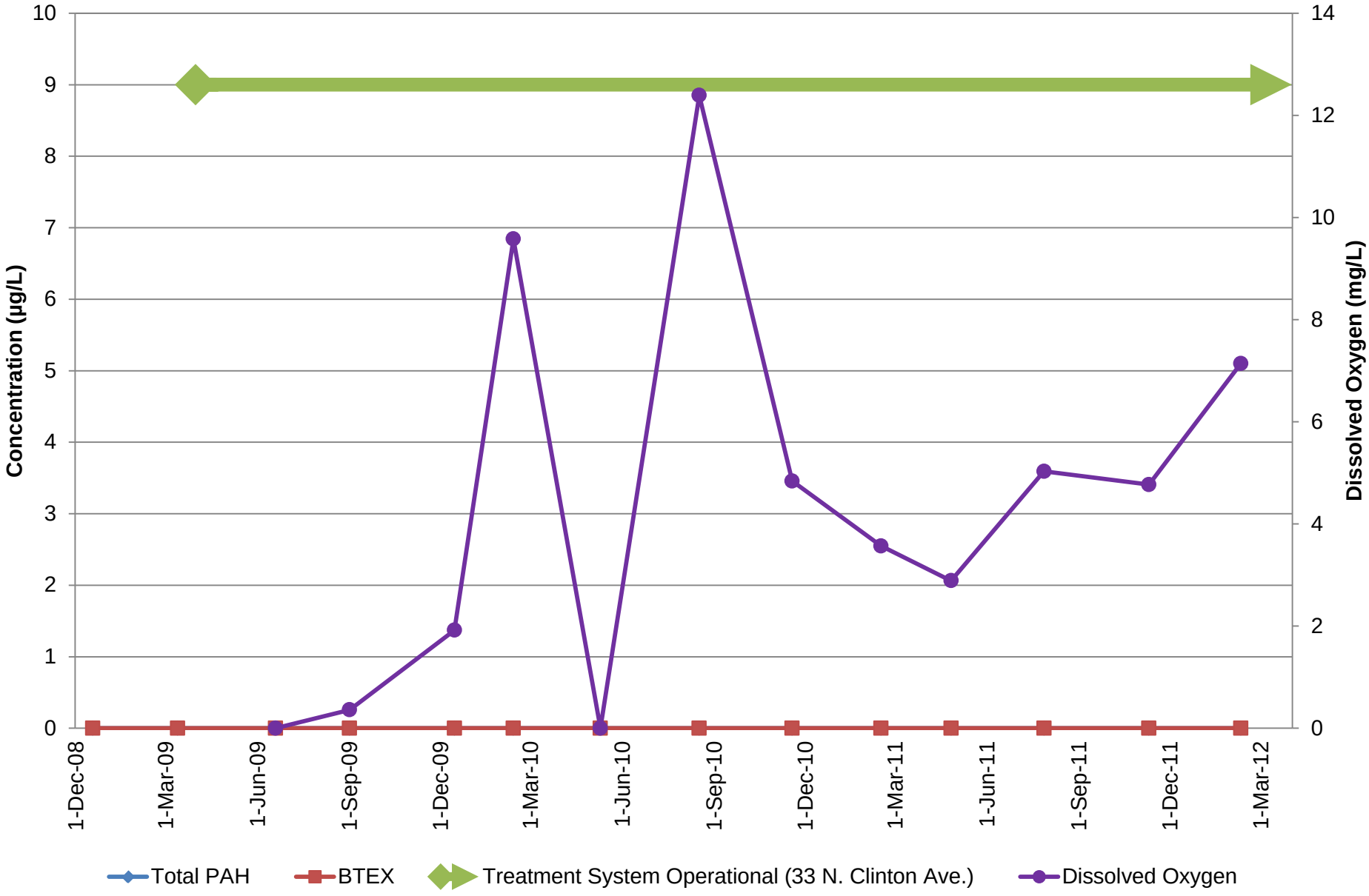



Monitoring Well OU2MW-22I2
46-51 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Jan-09
1-Apr-09
1-Jul-09
1-Oct-09
1-Jan-10
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (33 N. Clinton Ave.)
Dissolved Oxygen

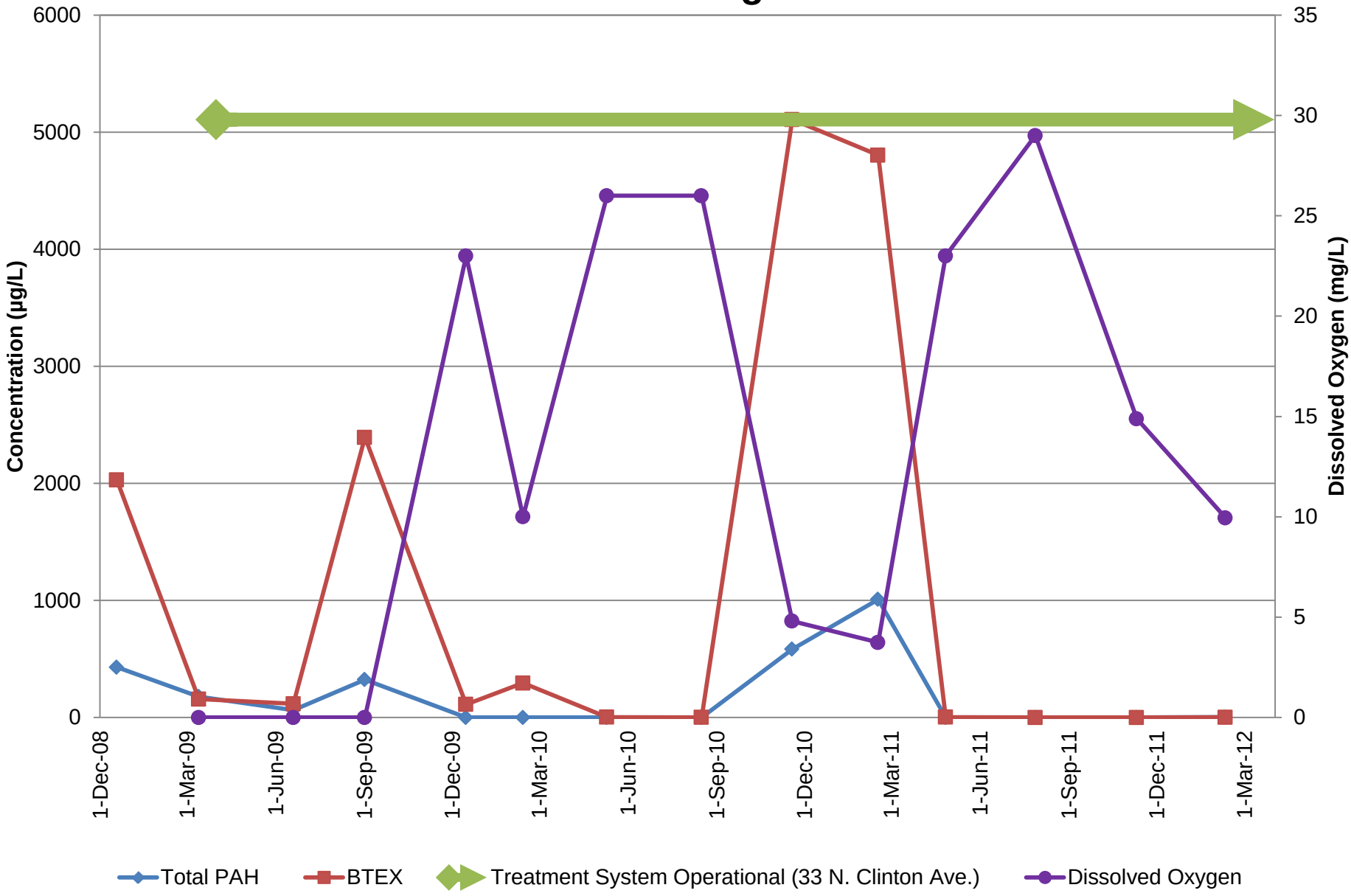
Monitoring Well OU2MW-22D
67-72 ft bgs



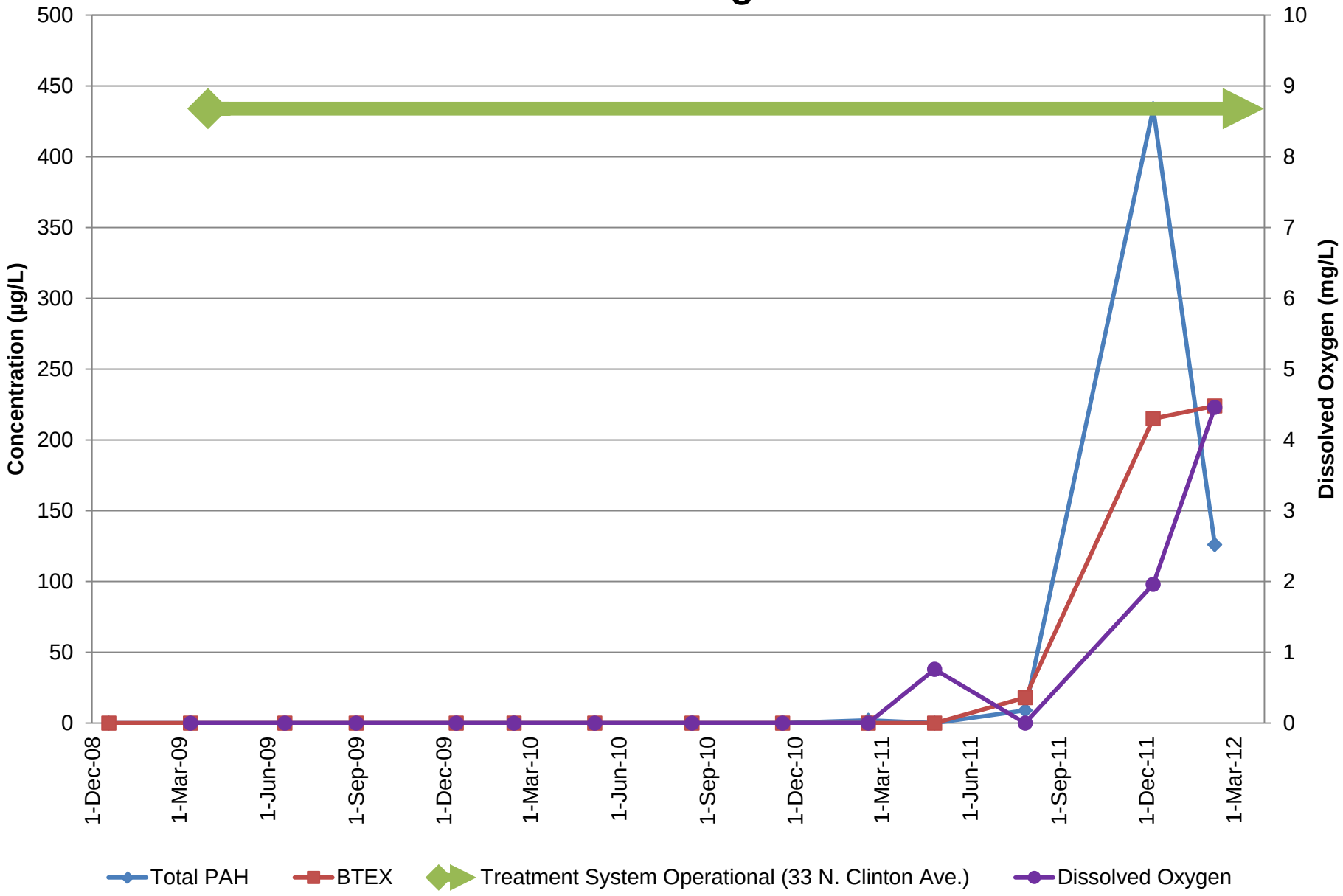
Monitoring Well OU2MW-23S
5-15 ft bgs

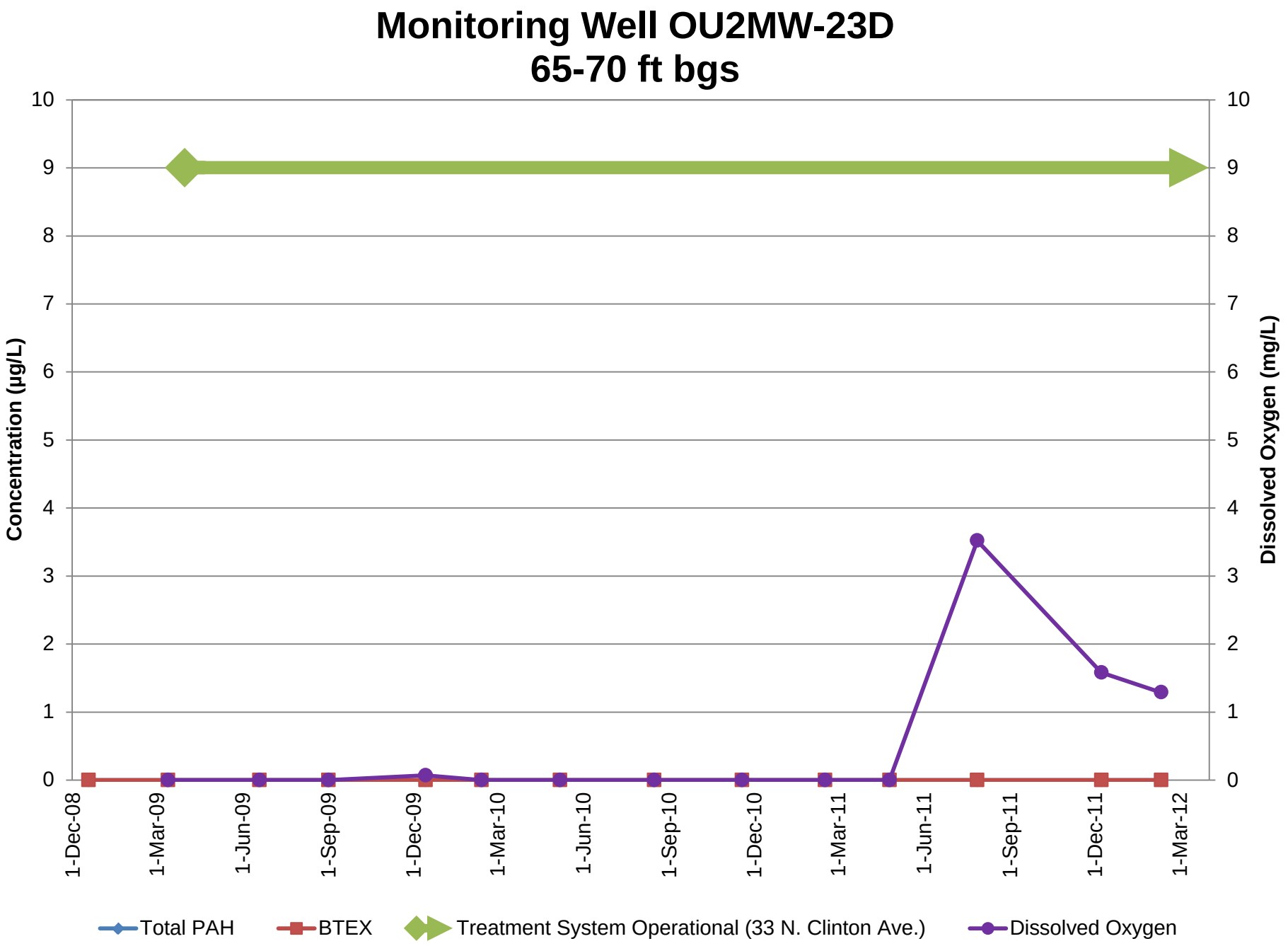


Monitoring Well OU2MW-23I
25-30 ft bgs

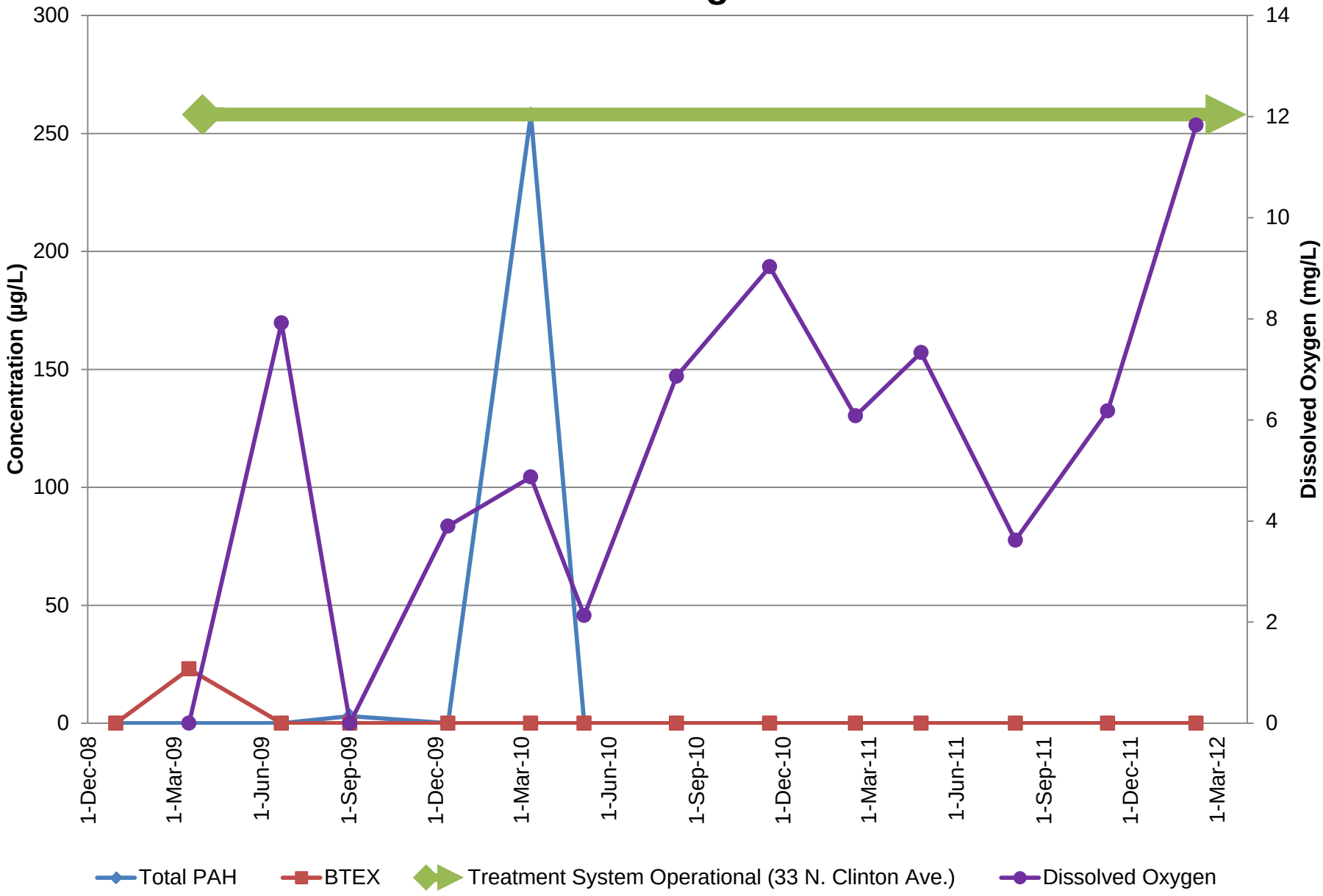


Monitoring Well OU2MW-23I2
45-50 ft bgs

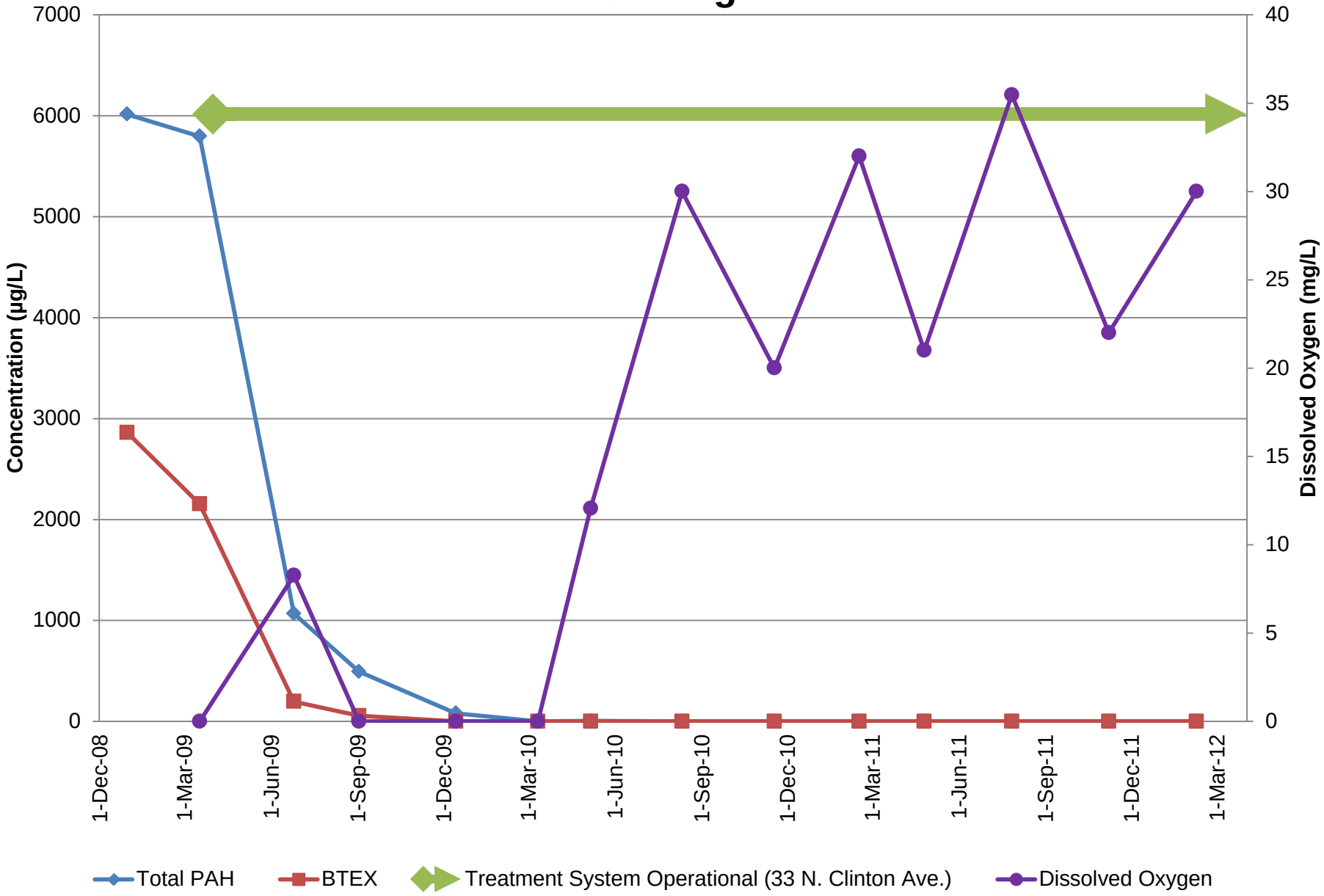



Monitoring Well OU2MW-23D
65-70 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
1-Dec-08
1-Mar-09
1-Jun-09
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
Total PAH
BTEX
Treatment System Operational (33 N. Clinton Ave.)
Dissolved Oxygen

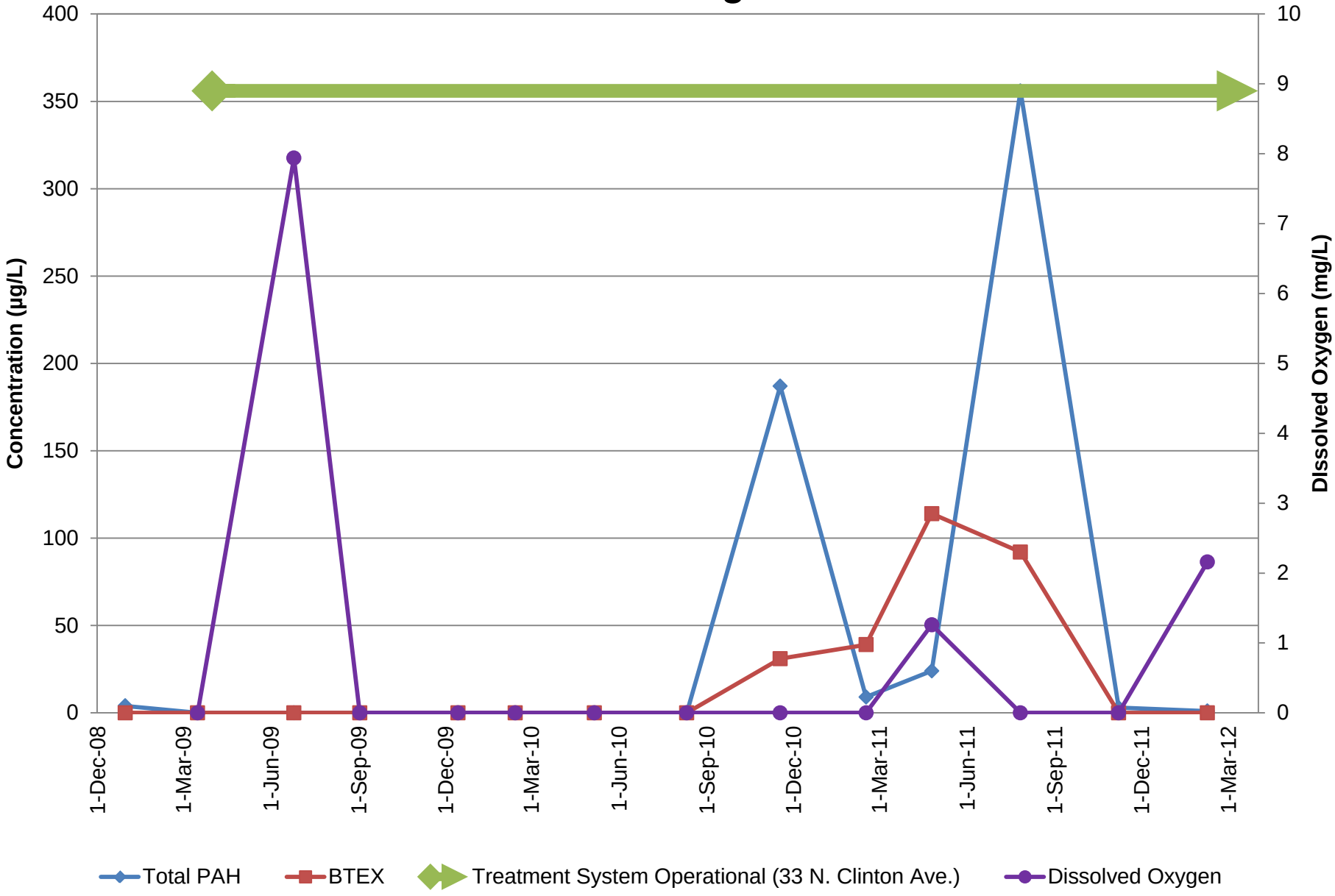
Monitoring Well OU2MW-24S
5-15 ft bgs



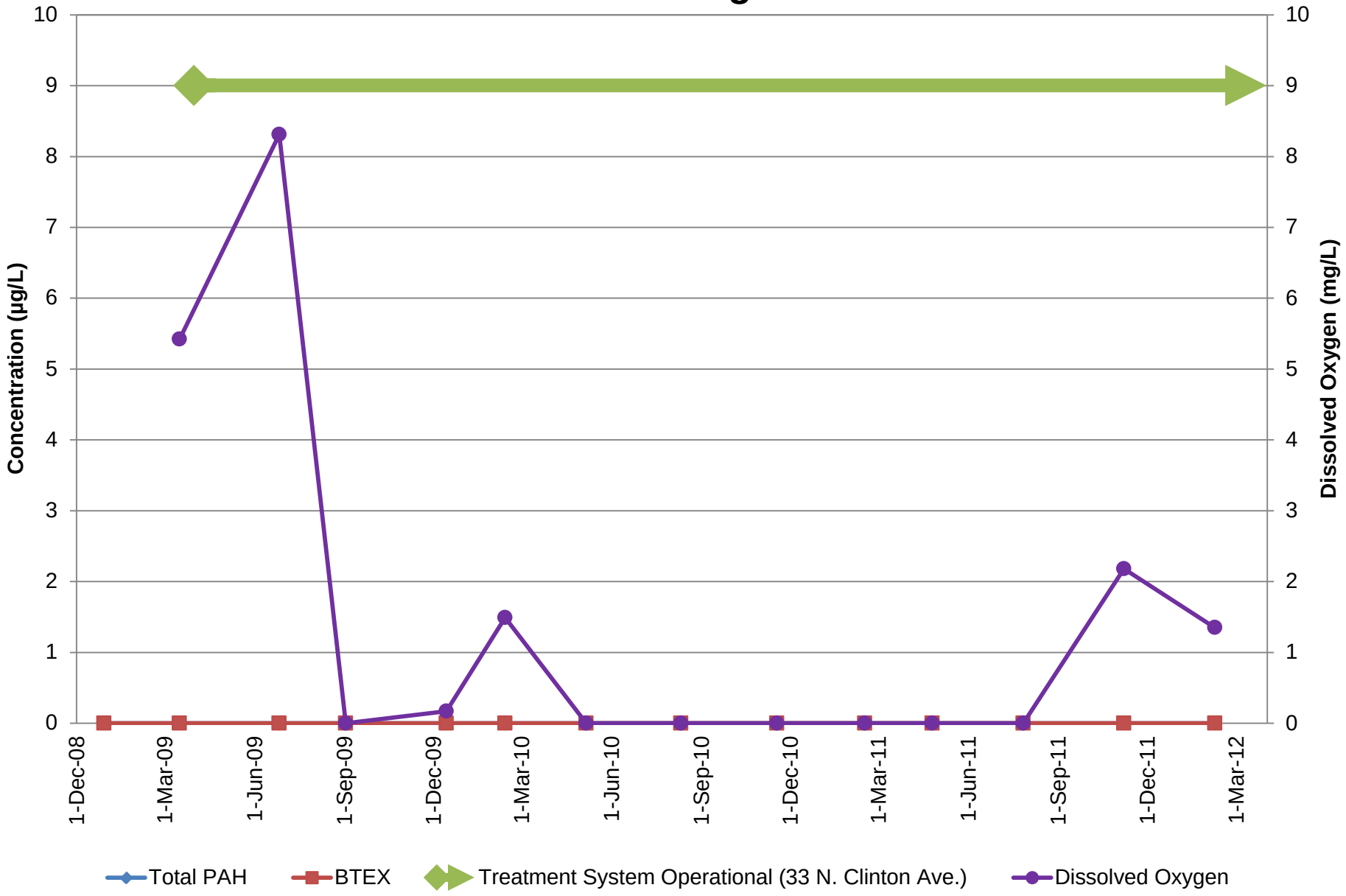
Monitoring Well OU2MW-24I
25-30 ft bgs



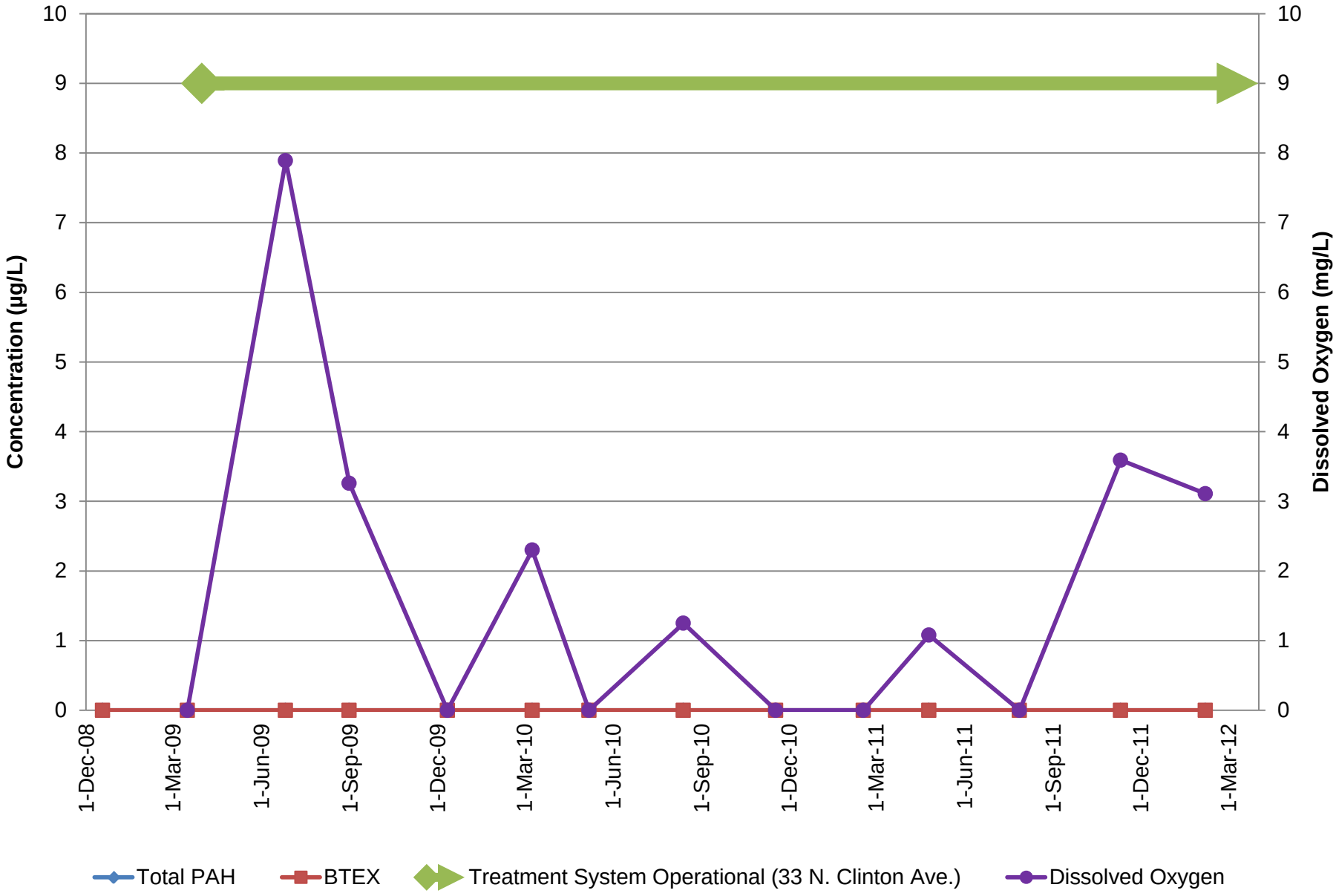
Monitoring Well OU2MW-24I2
45-50 ft bgs



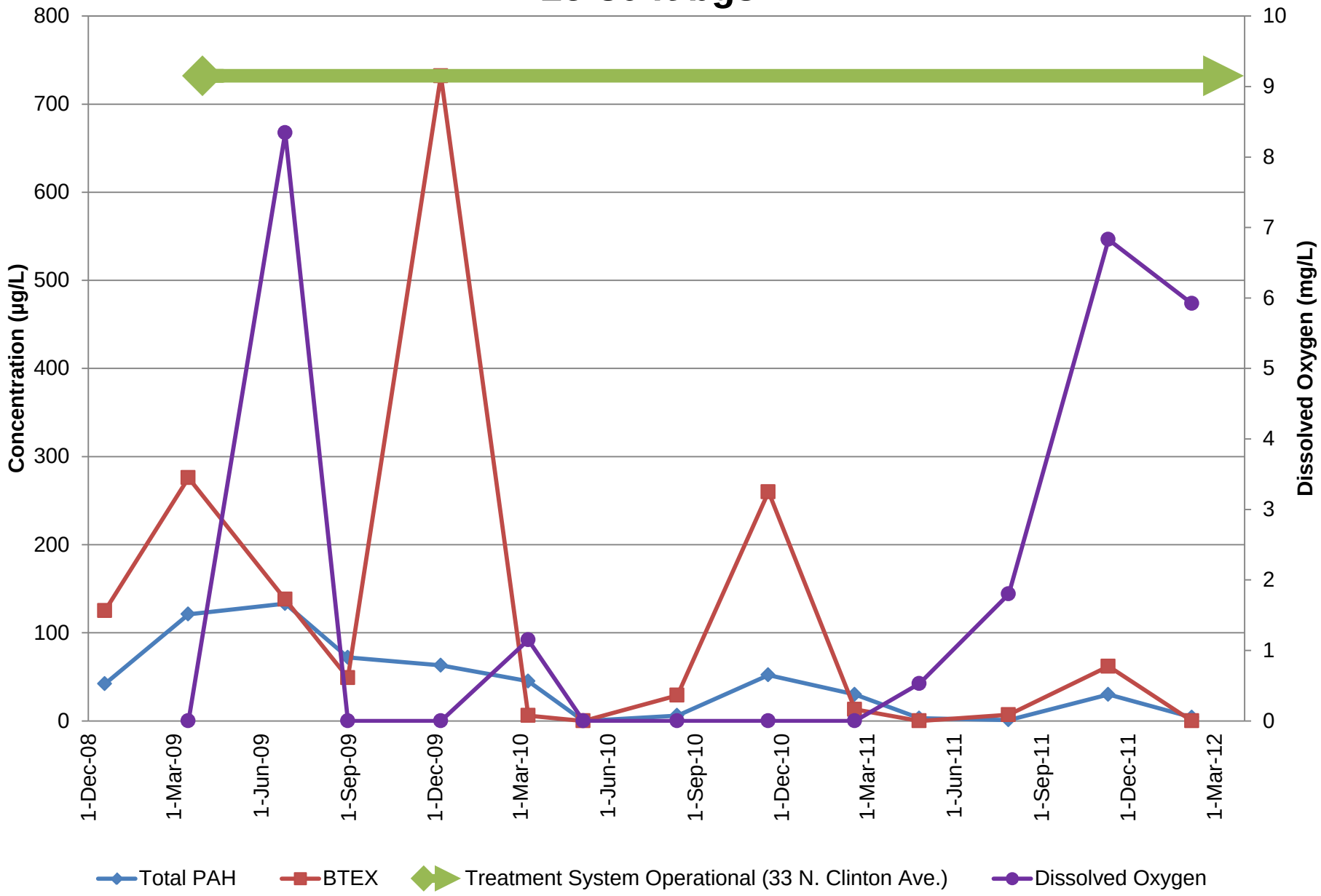
Monitoring Well OU2MW-24D
62-67 ft bgs

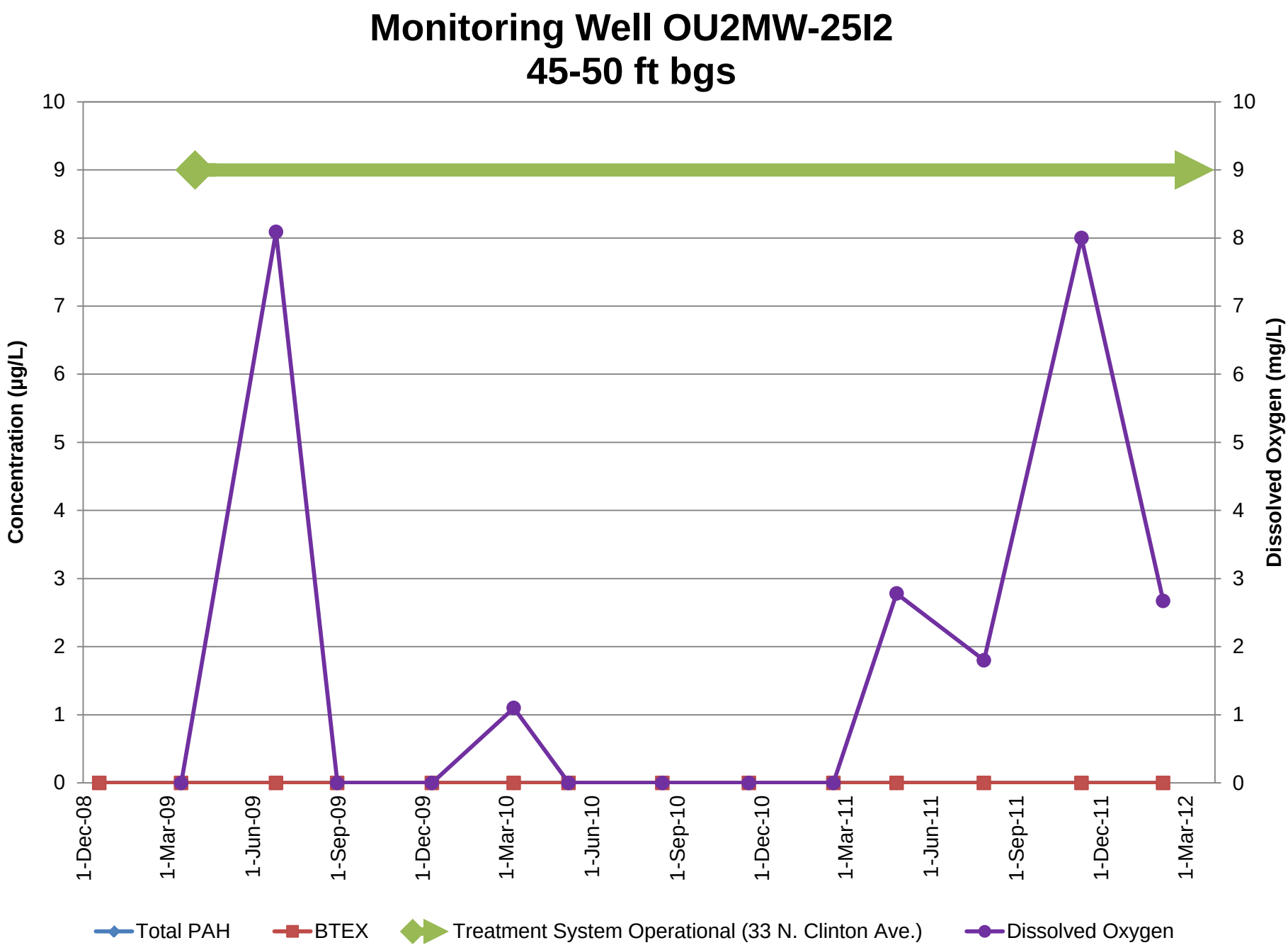


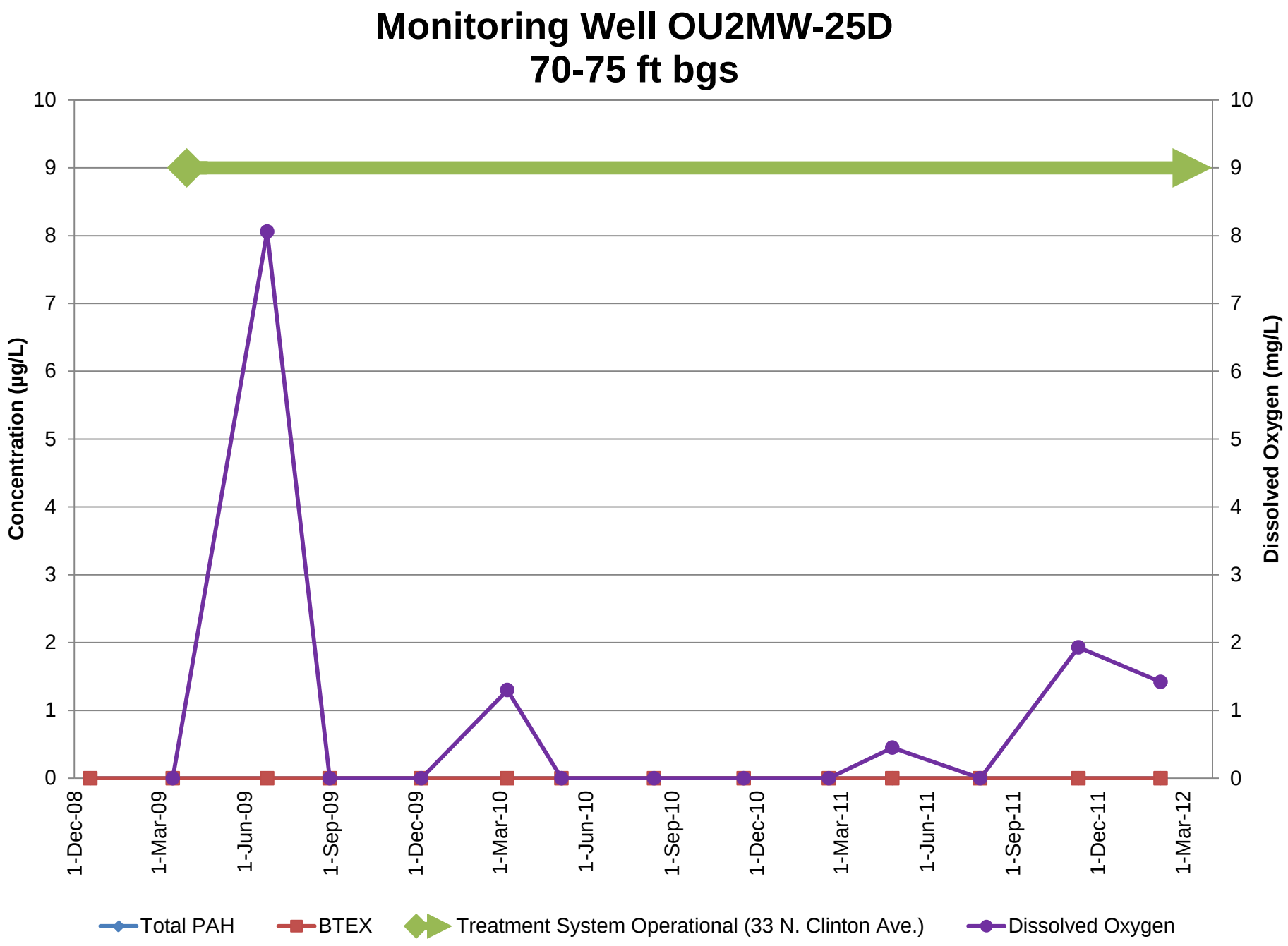
Monitoring Well OU2MW-25S
5-15 ft bgs

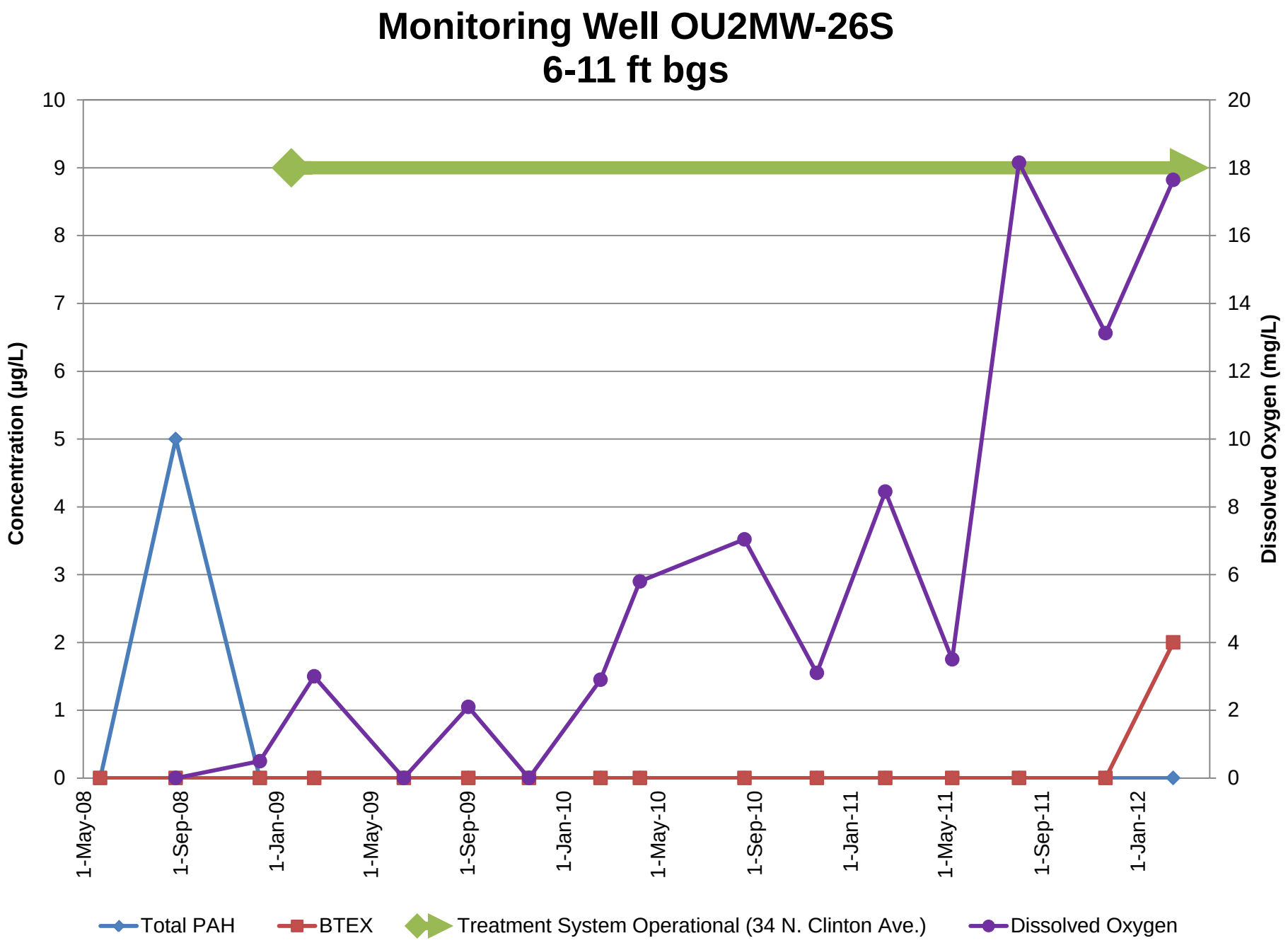


Monitoring Well OU2MW-25I
25-30 ft bgs

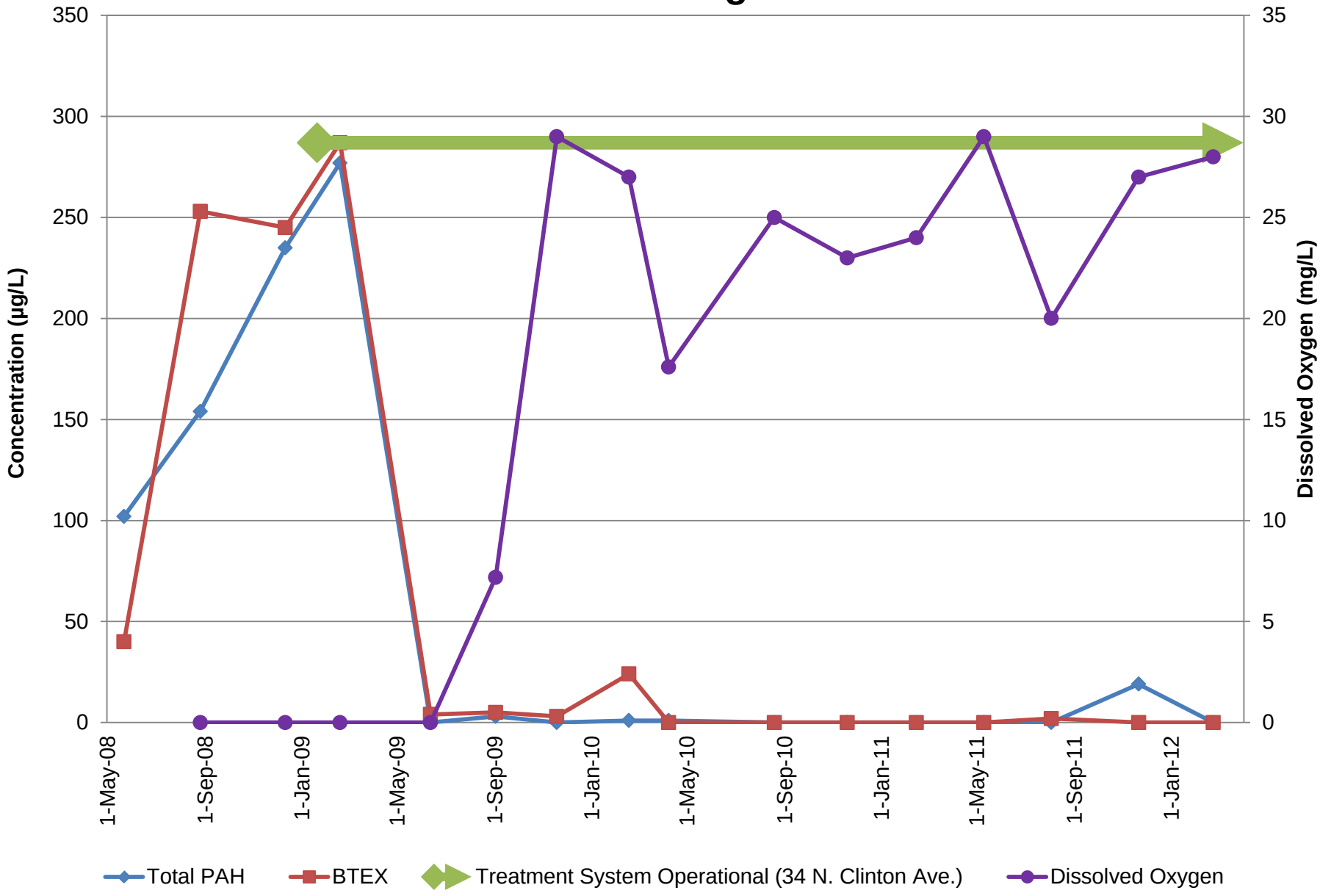


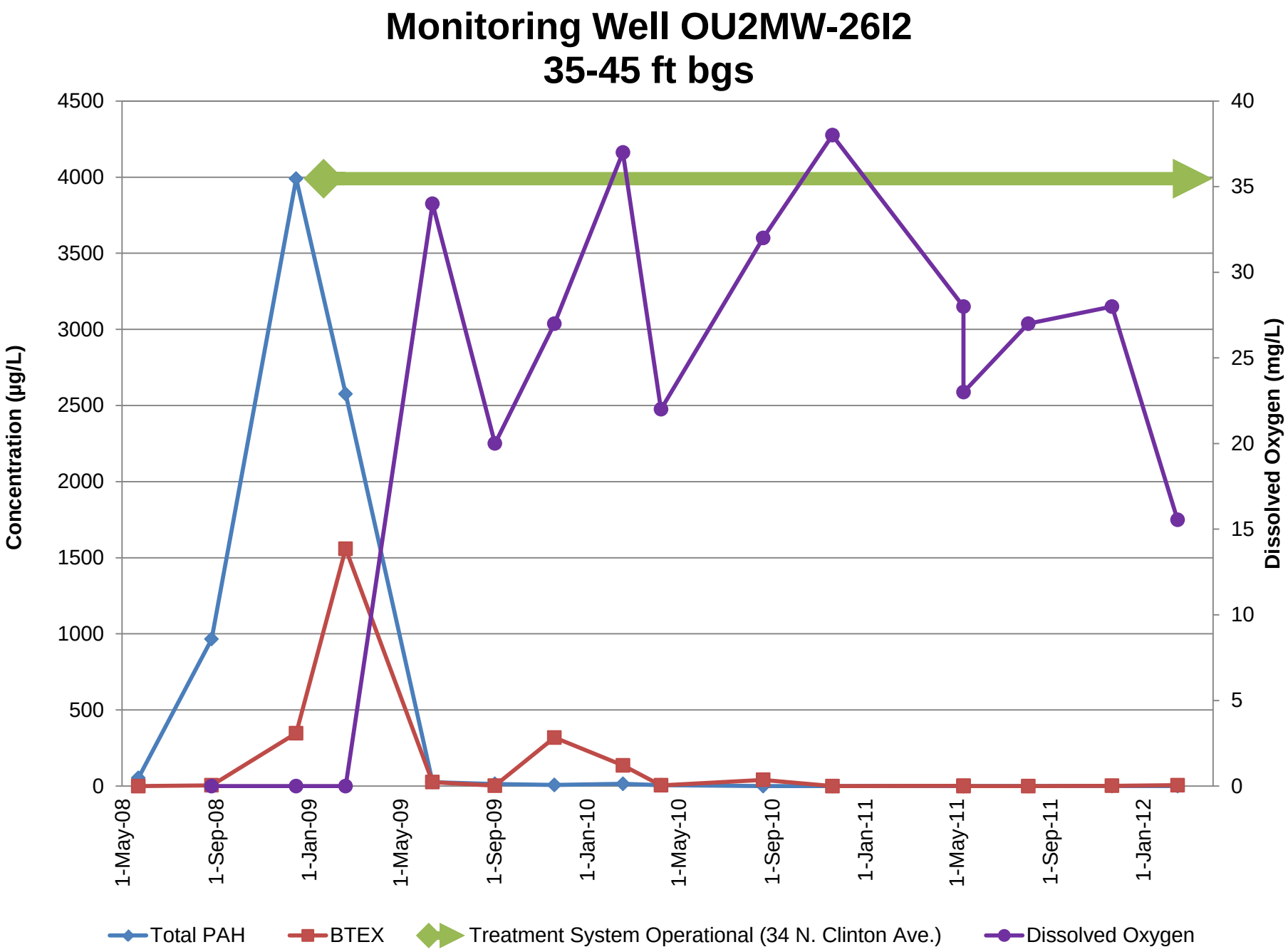

Monitoring Well OU2MW-25I2
45-50 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Dec-08
1-Mar-09
1-Jun-09
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
Total PAH
BTEX
Treatment System Operational (33 N. Clinton Ave.)
Dissolved Oxygen


Monitoring Well OU2MW-25D
70-75 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Dec-08
1-Mar-09
1-Jun-09
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
Total PAH
BTEX
Treatment System Operational (33 N. Clinton Ave.)
Dissolved Oxygen

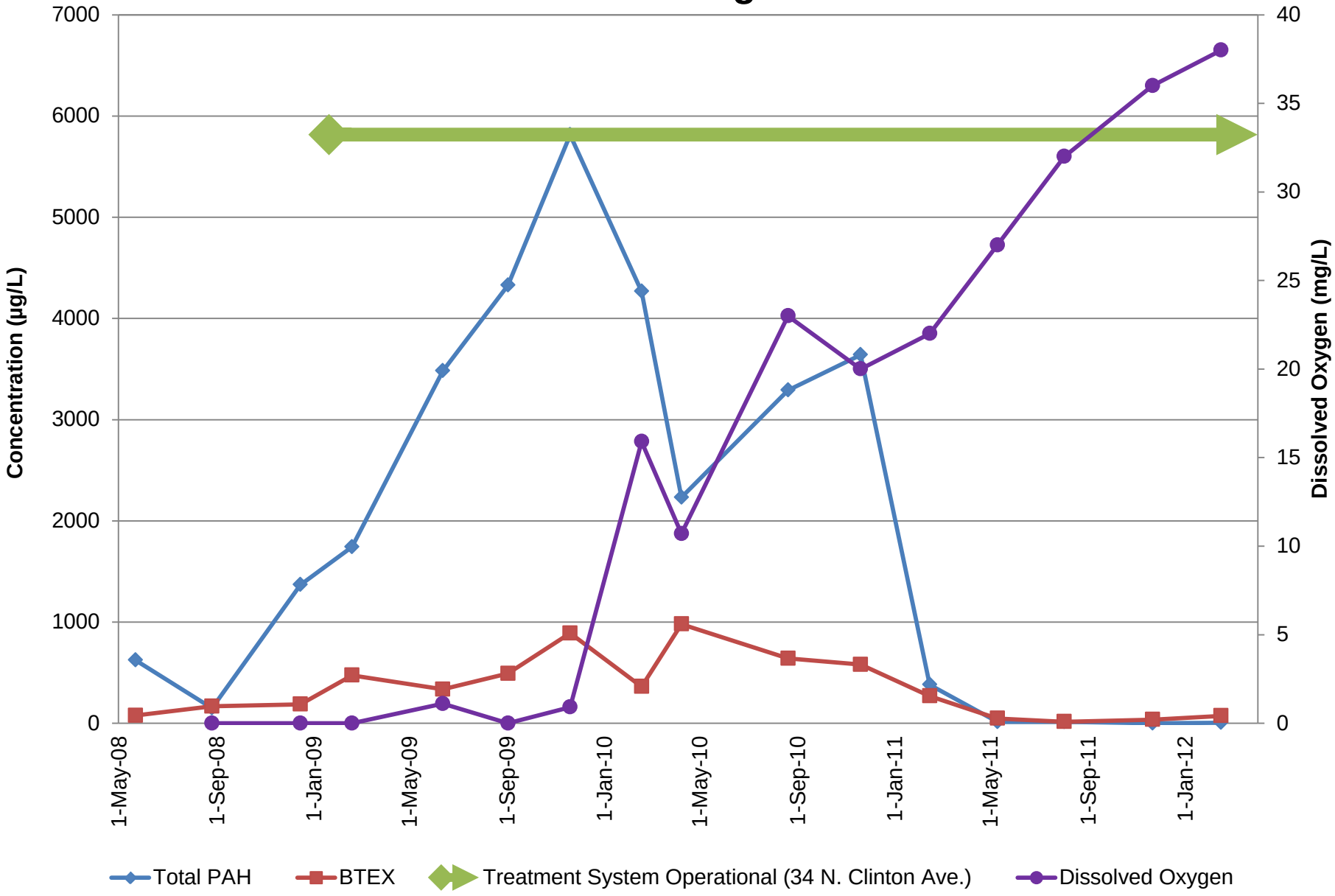

Monitoring Well OU2MW-26S
6-11 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
0
2
4
6
8
10
12
14
16
18
20
1-May-08
1-Sep-08
1-Jan-09
1-May-09
1-Sep-09
1-Jan-10
1-May-10
1-Sep-10
1-Jan-11
1-May-11
1-Sep-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (34 N. Clinton Ave.)
Dissolved Oxygen

Monitoring Well OU2MW-26I
13-23 ft bgs

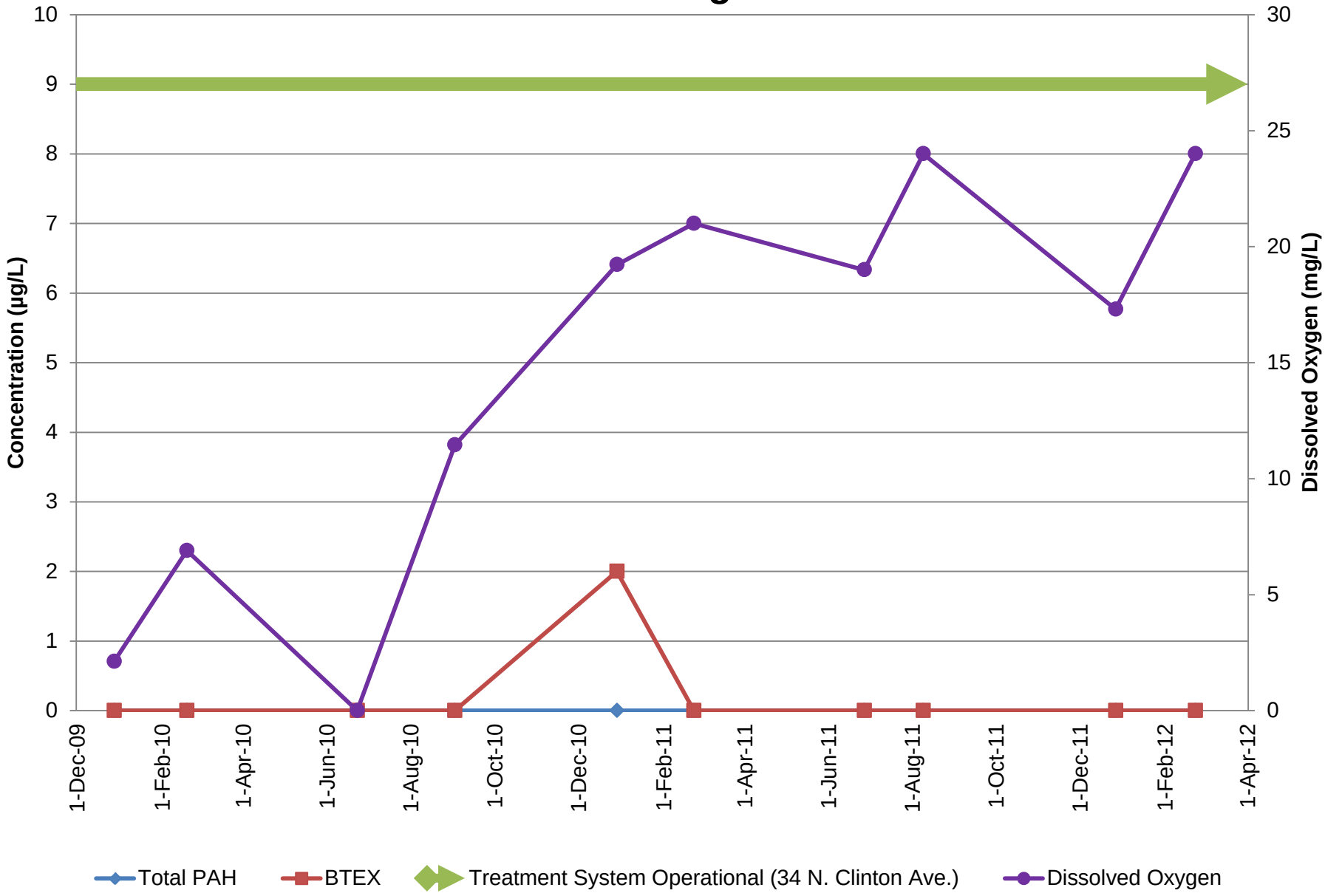


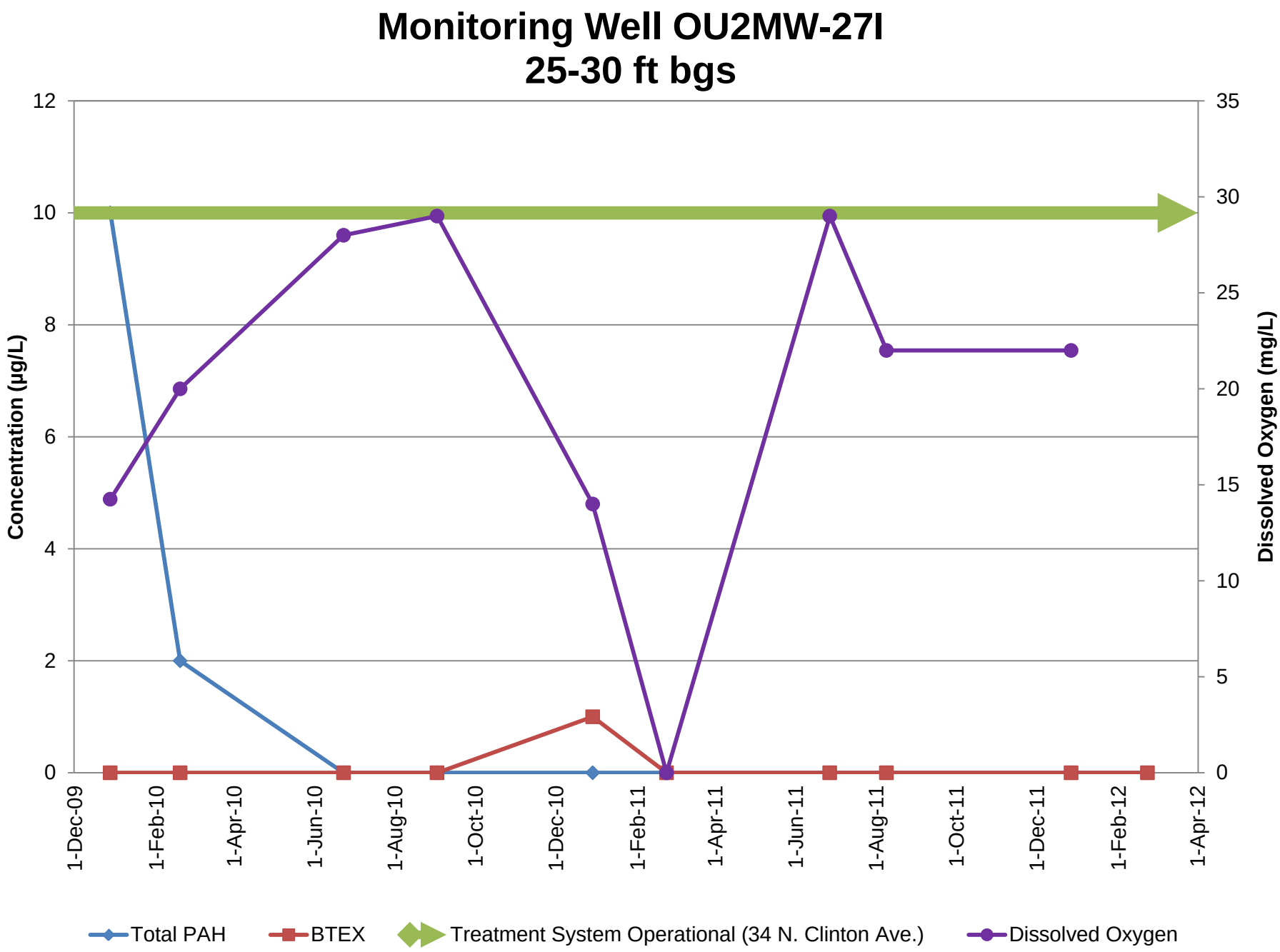

Monitoring Well OU2MW-26I2
35-45 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
40
35
30
25
20
15
10
5
0
1-May-08
1-Sep-08
1-Jan-09
1-May-09
1-Sep-09
1-Jan-10
1-May-10
1-Sep-10
1-Jan-11
1-May-11
1-Sep-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (34 N. Clinton Ave.)
Dissolved Oxygen

Monitoring Well OU2MW-26D
60-70 ft bgs

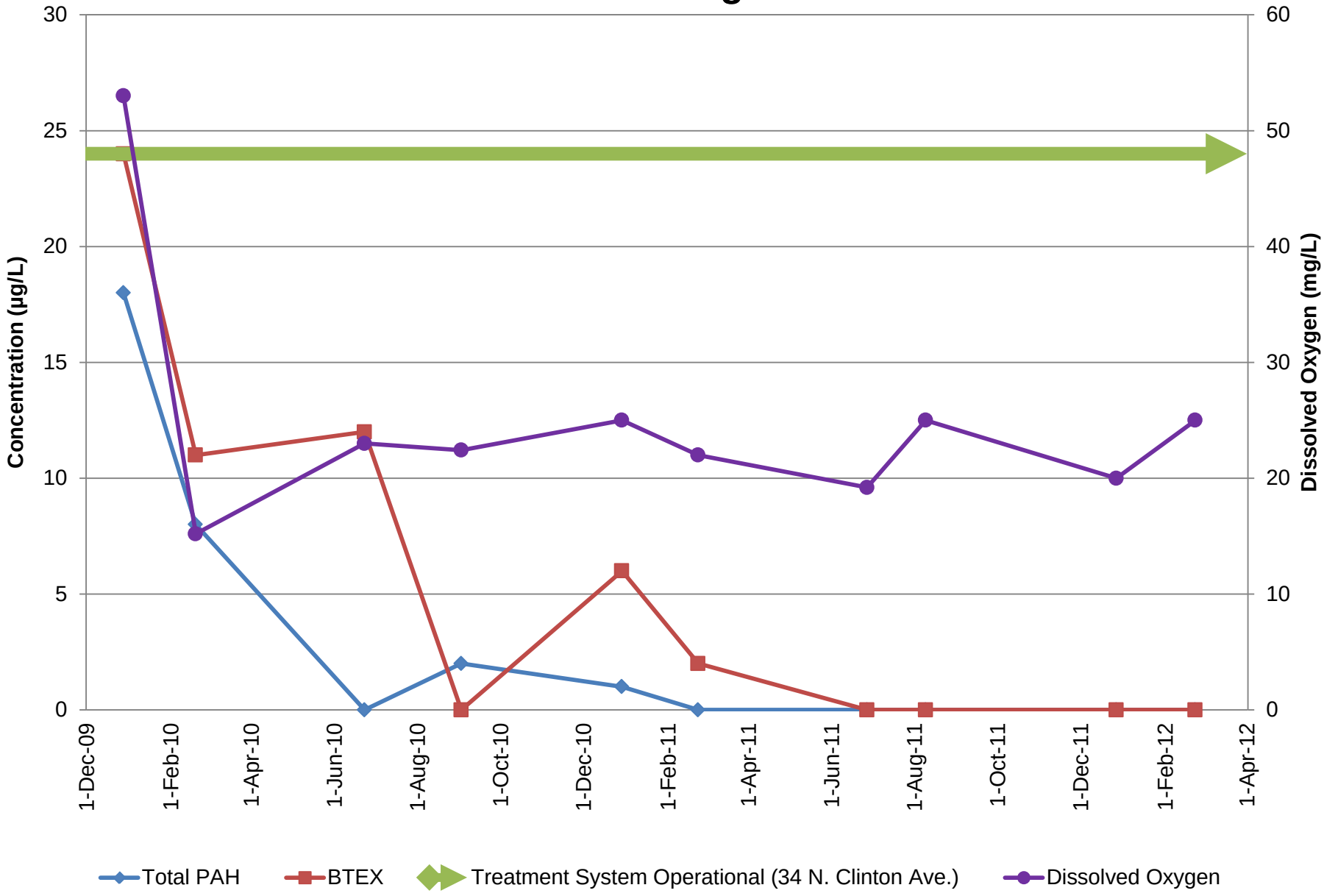


Monitoring Well OU2MW-27S
5-15 ft bgs

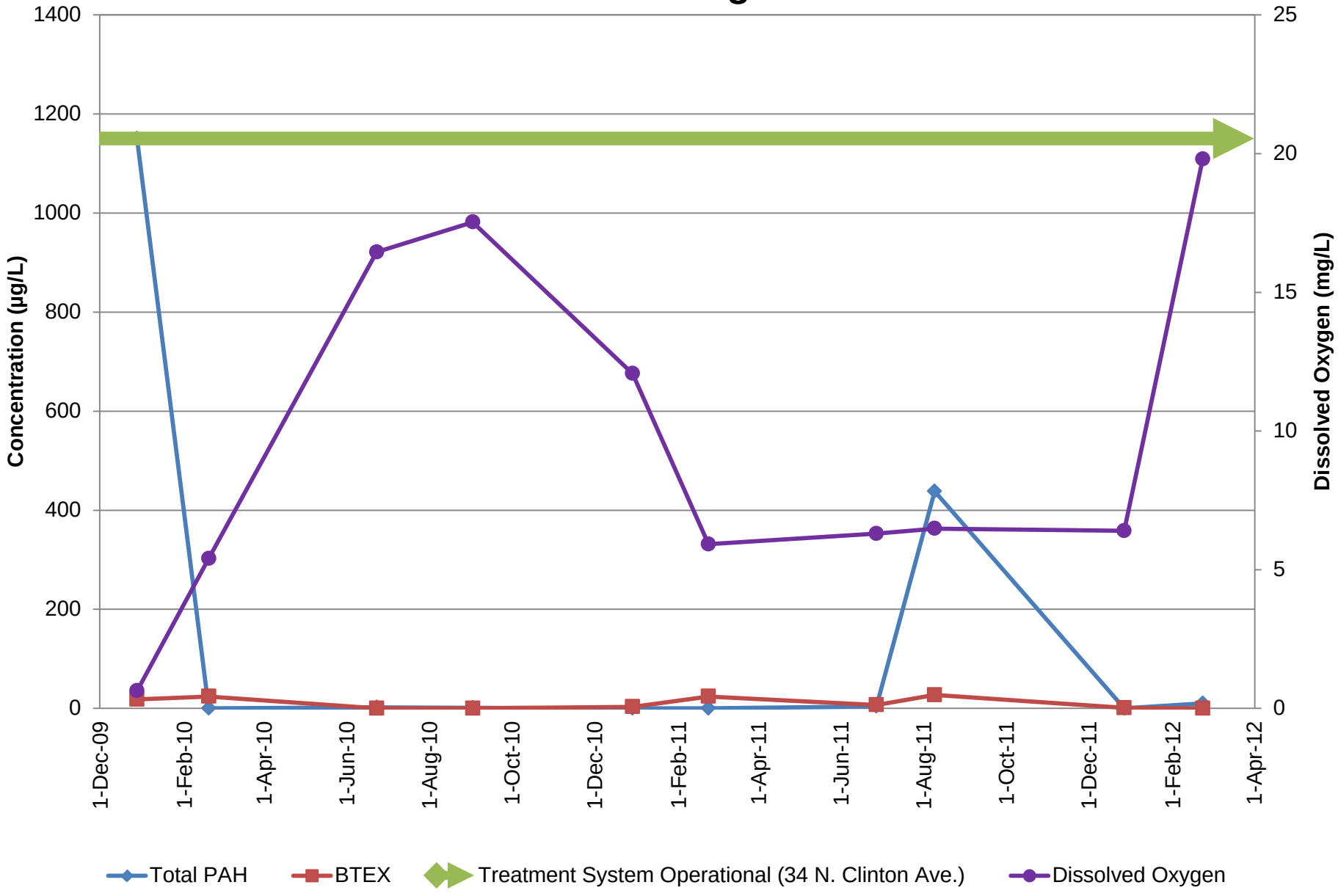


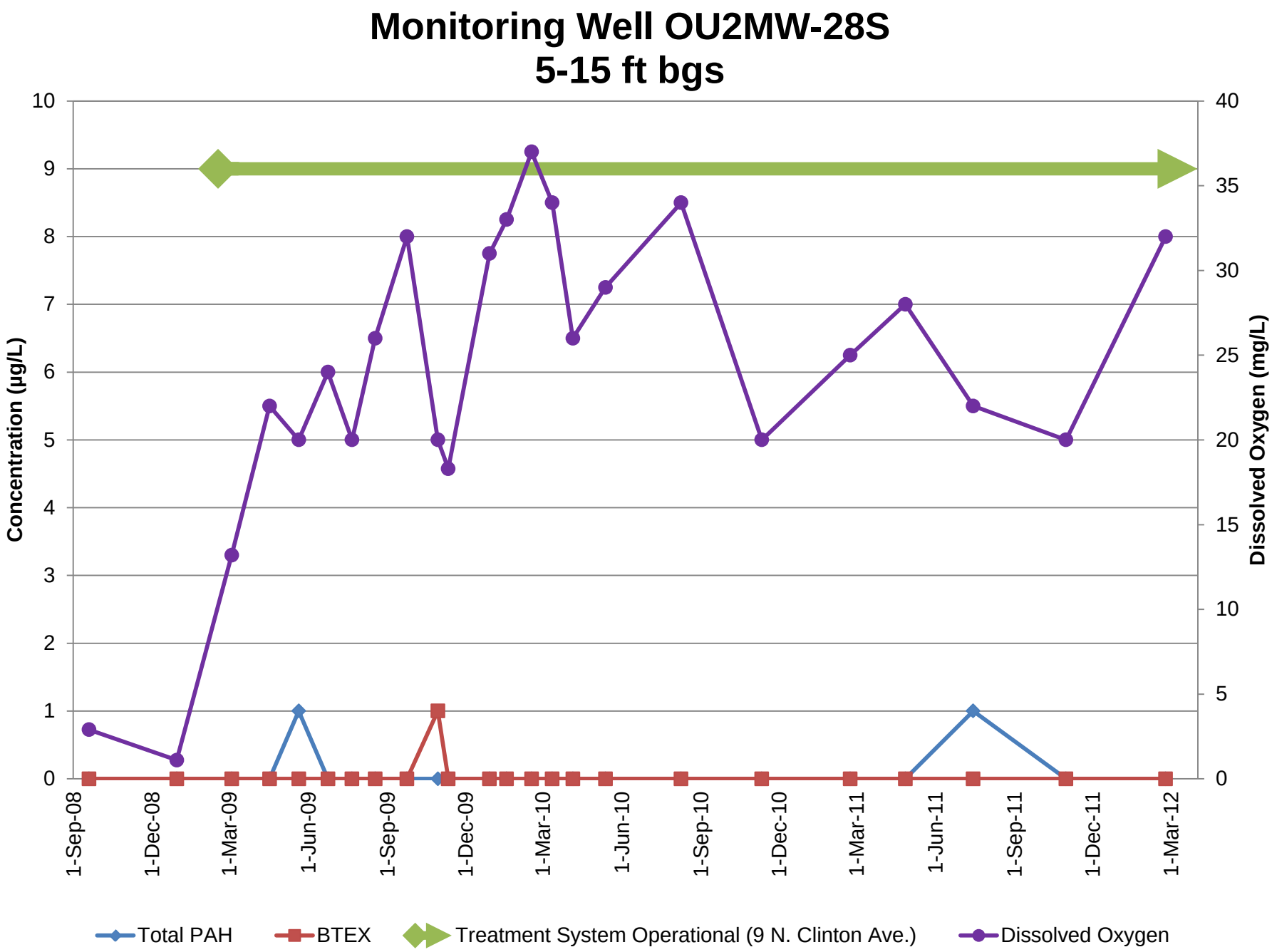

Monitoring Well OU2MW-27I
25-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
2
4
6
8
10
12
0
5
10
15
20
25
30
35
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (34 N. Clinton Ave.)
Dissolved Oxygen

Monitoring Well OU2MW-27I2
45-50 ft bgs

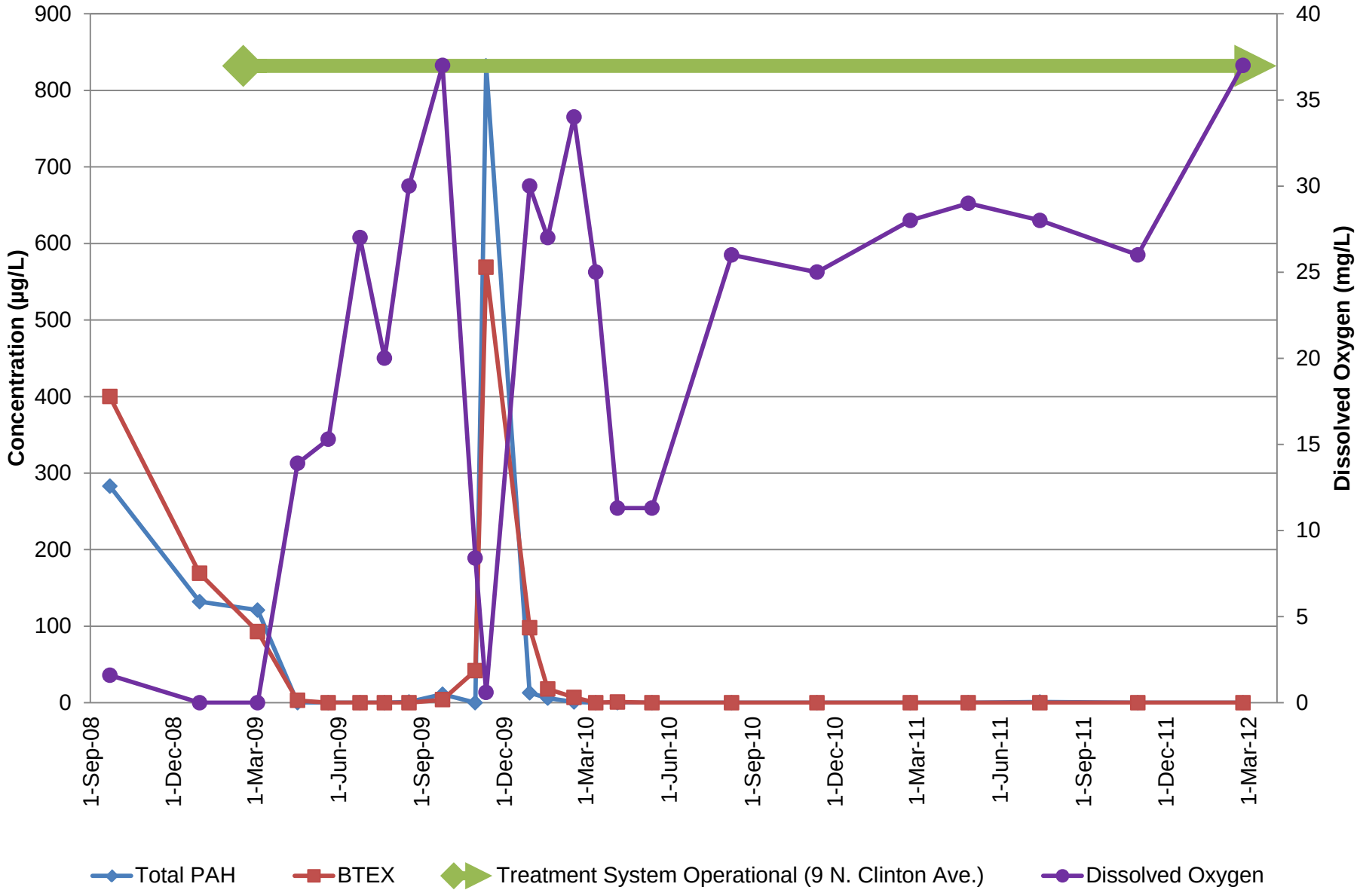


Monitoring Well OU2MW-27D
65-70 ft bgs

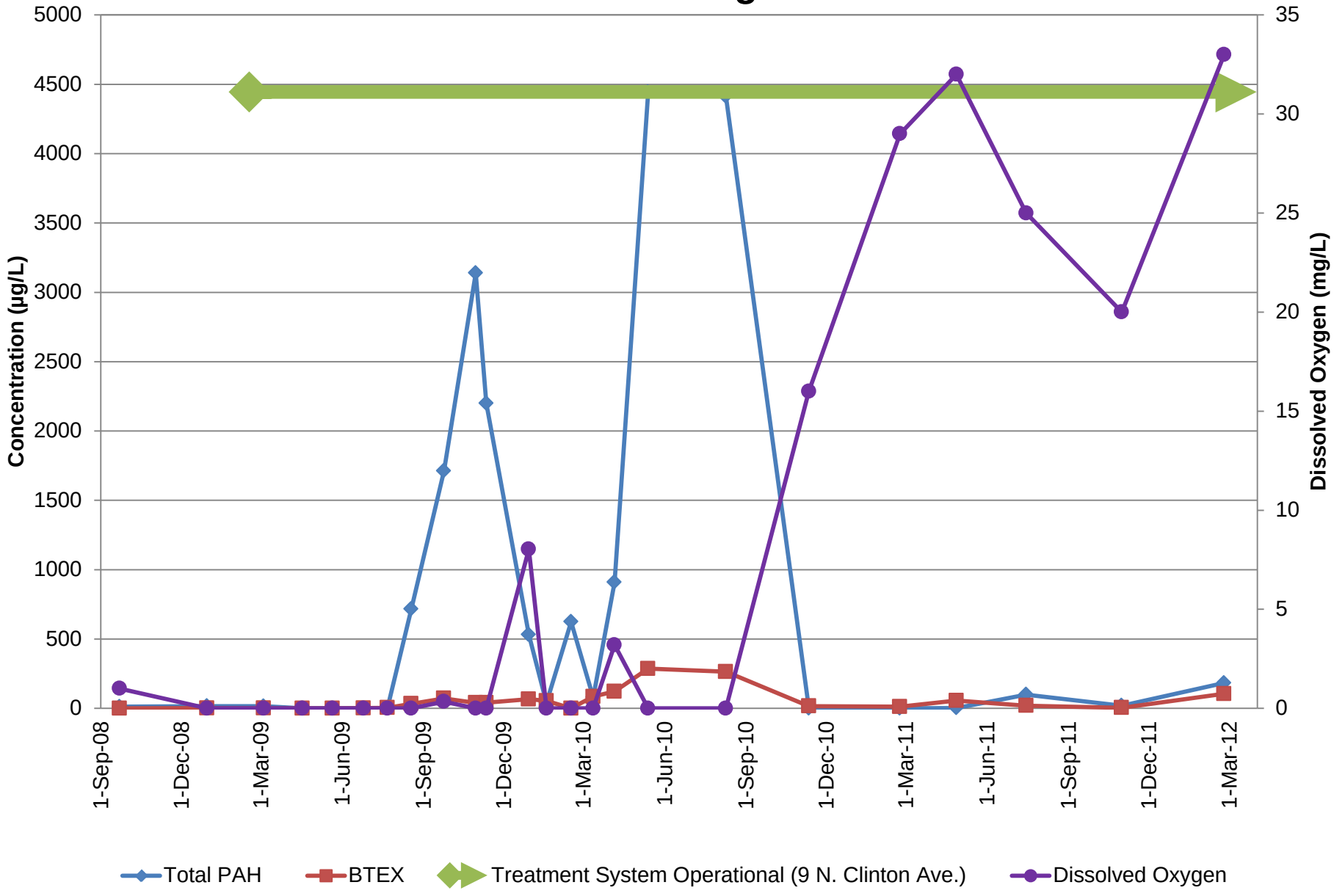



Monitoring Well OU2MW-28S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
0
5
10
15
20
25
30
35
40
1-Sep-08
1-Dec-08
1-Mar-09
1-Jun-09
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
Total PAH
BTEX
Treatment System Operational (9 N. Clinton Ave.)
Dissolved Oxygen

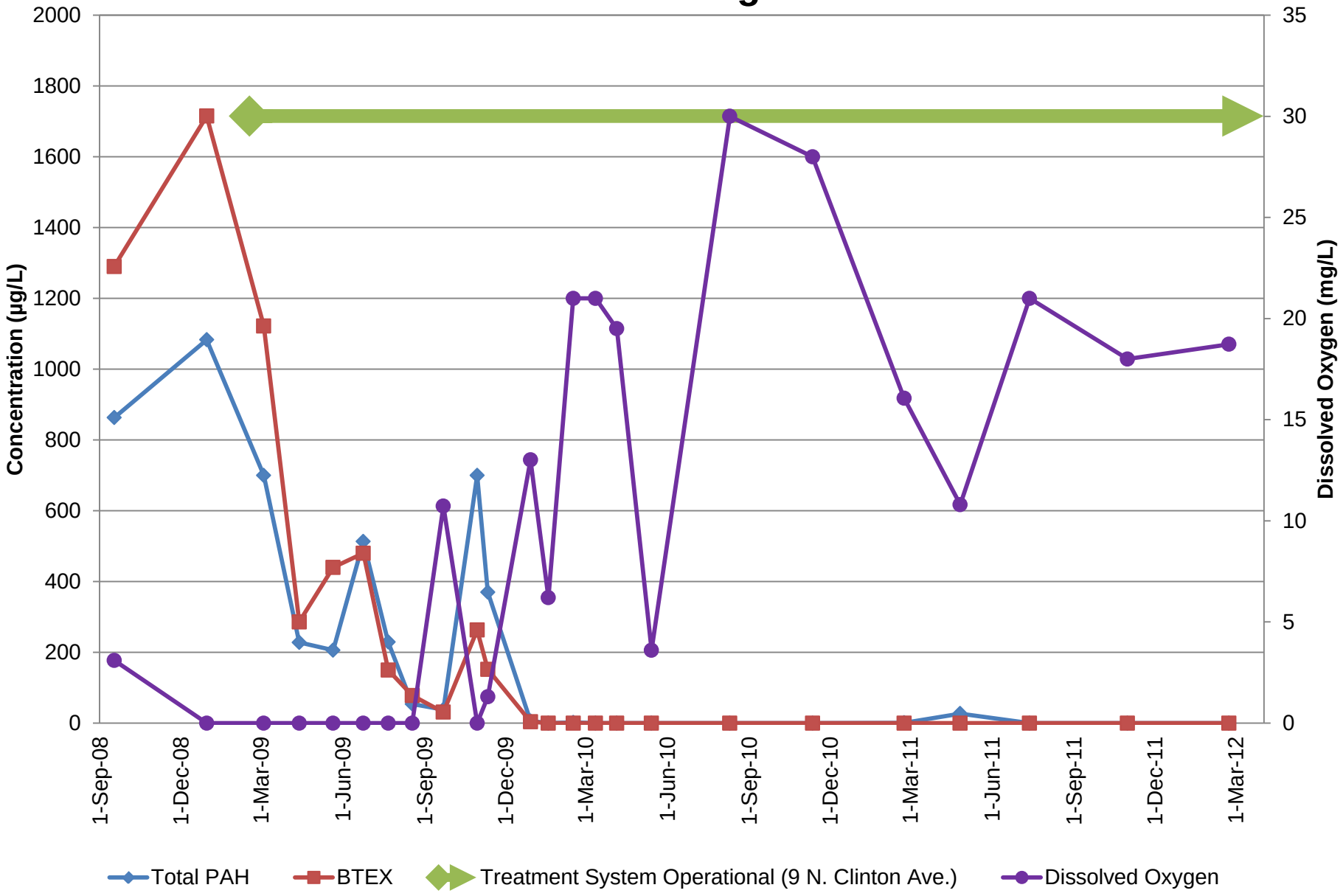
Monitoring Well OU2MW-28I
28-33 ft bgs



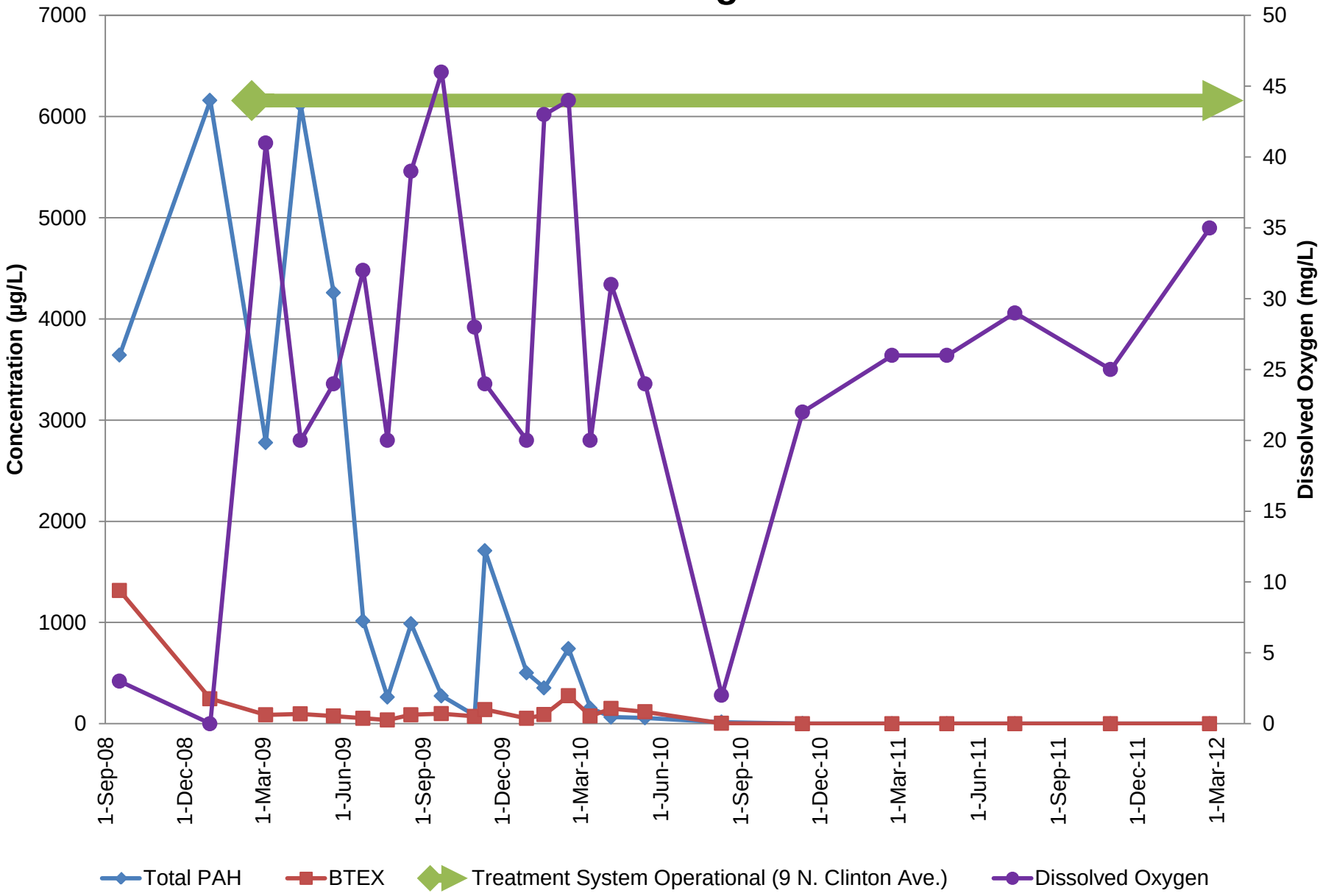
Monitoring Well OU2MW-28I2
40-45 ft bgs



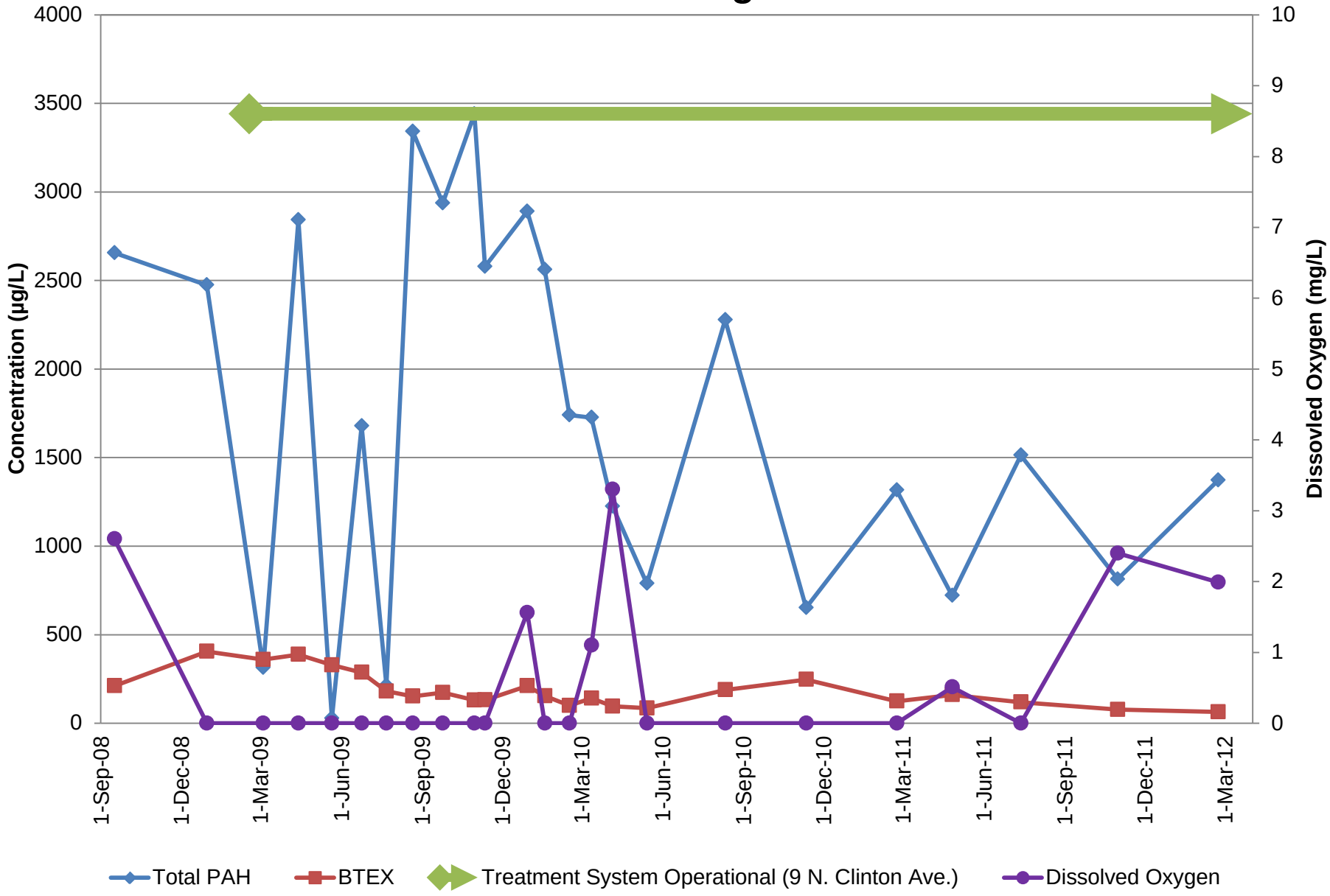
Monitoring Well OU2MW-29I
18-23 ft bgs



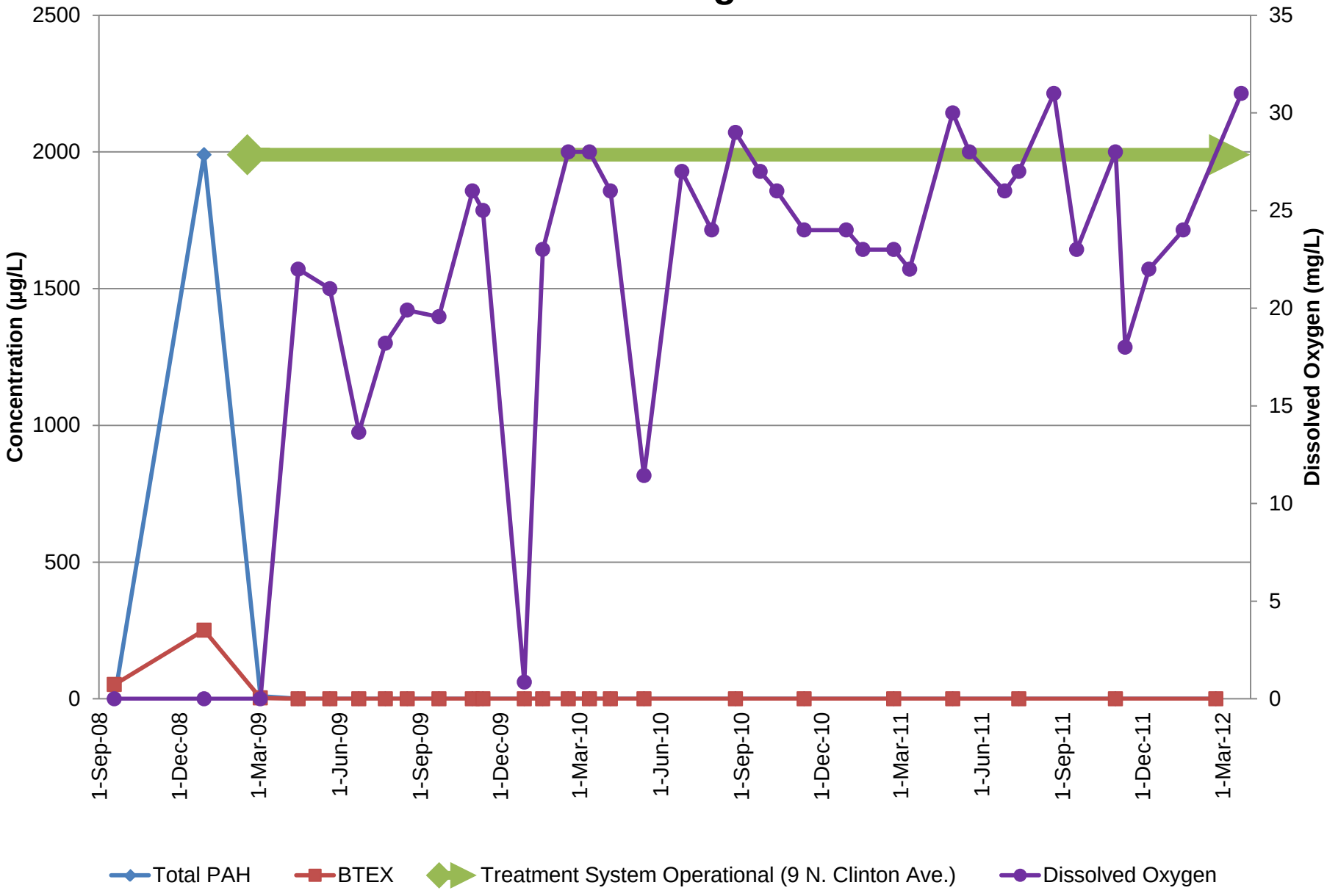
Monitoring Well OU2MW-29I2
30-35 ft bgs



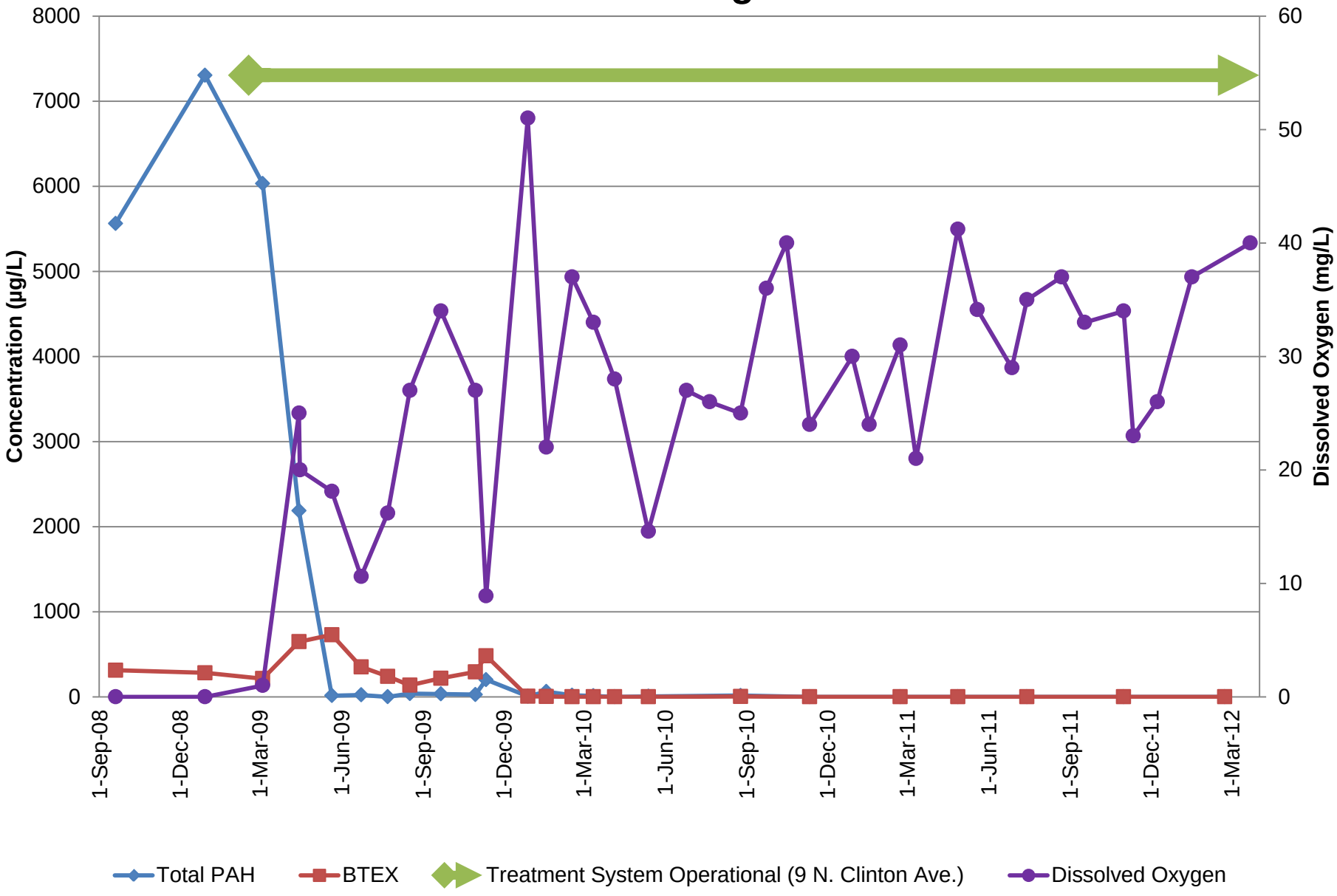
Monitoring Well OU2MW-29D
45-50 ft bgs



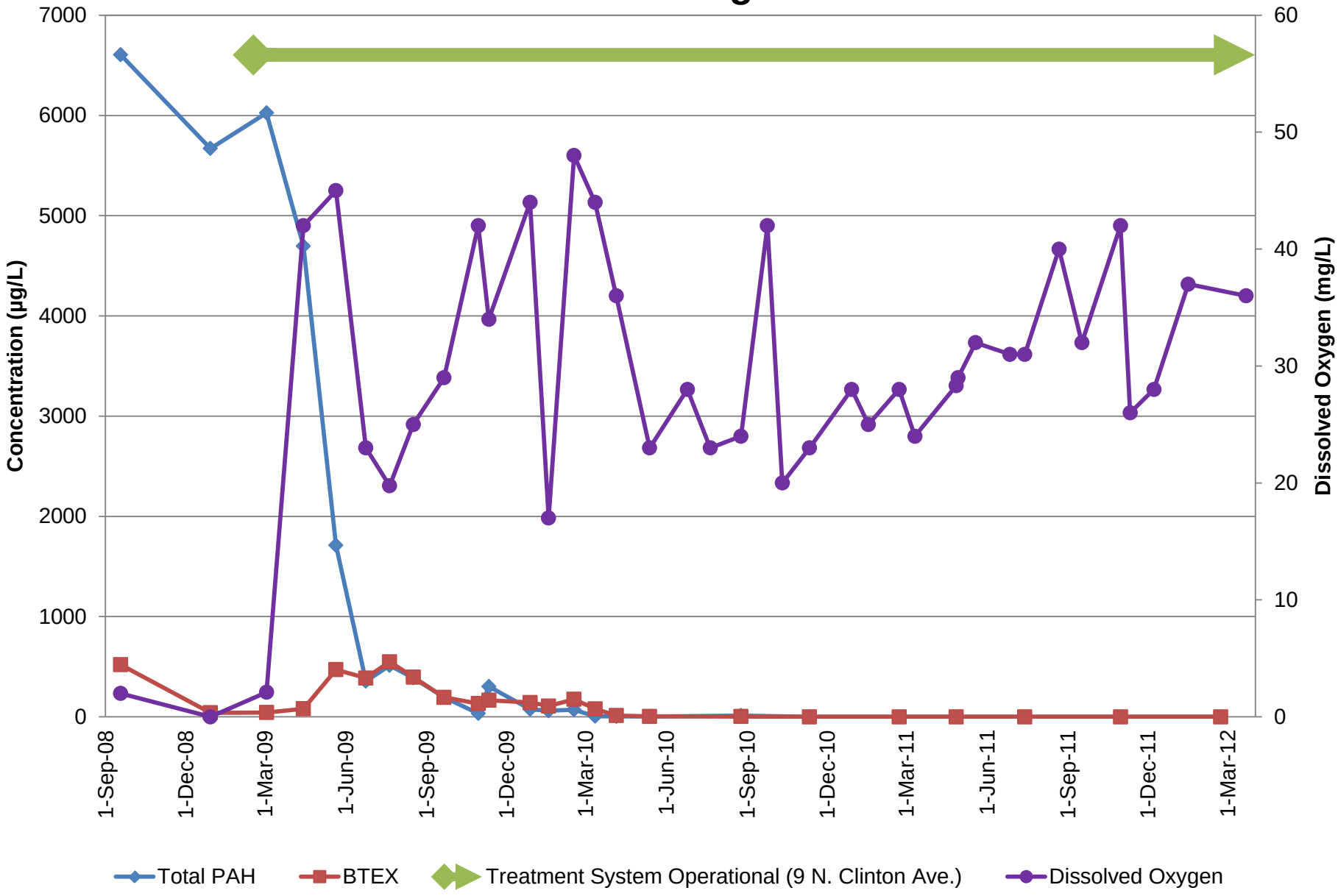
Monitoring Well OU2MW-30S
5-15 ft bgs



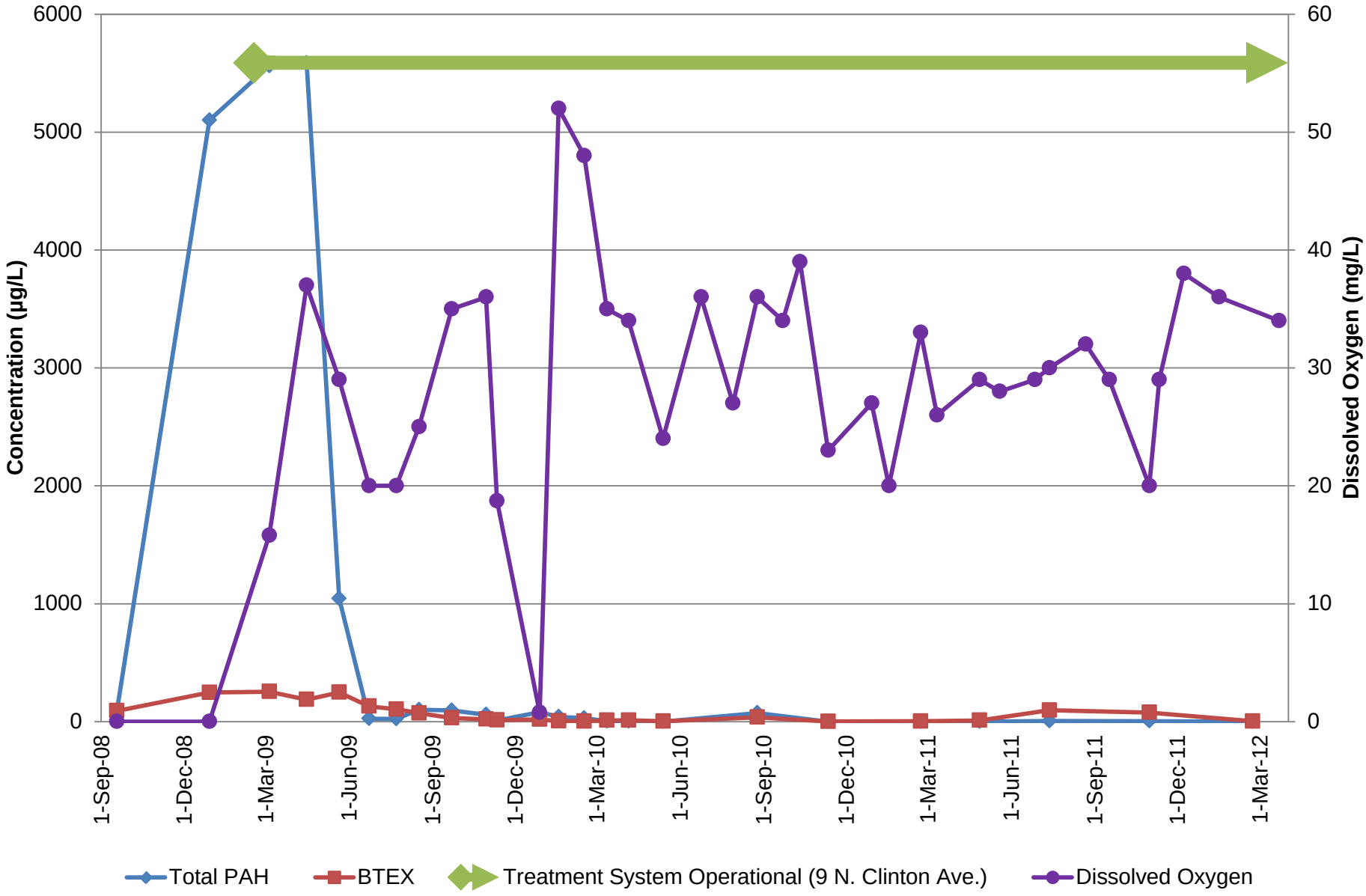
Monitoring Well OU2MW-30I
25-30 ft bgs



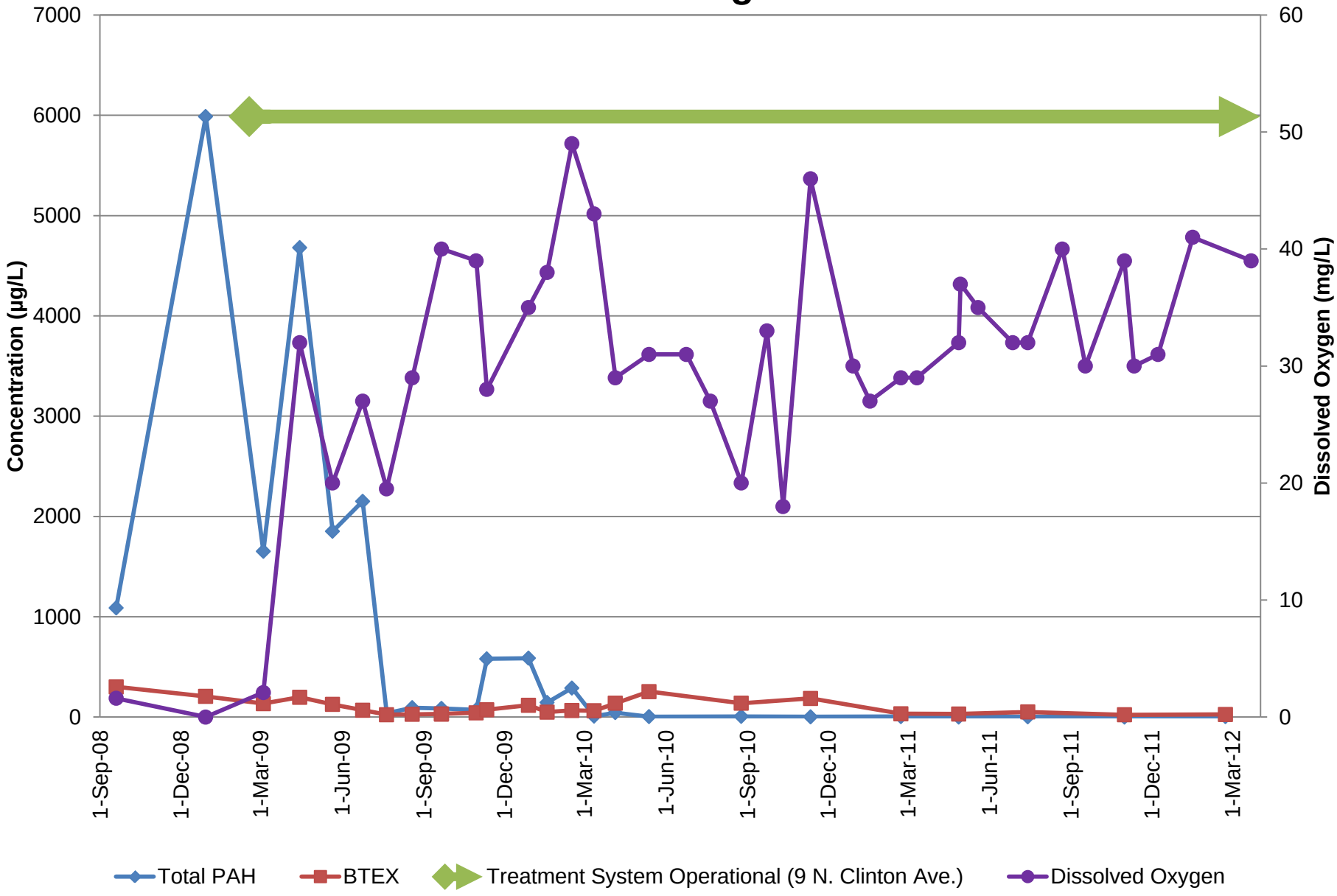
Monitoring Well OU2MW-30I2
30-35 ft bgs



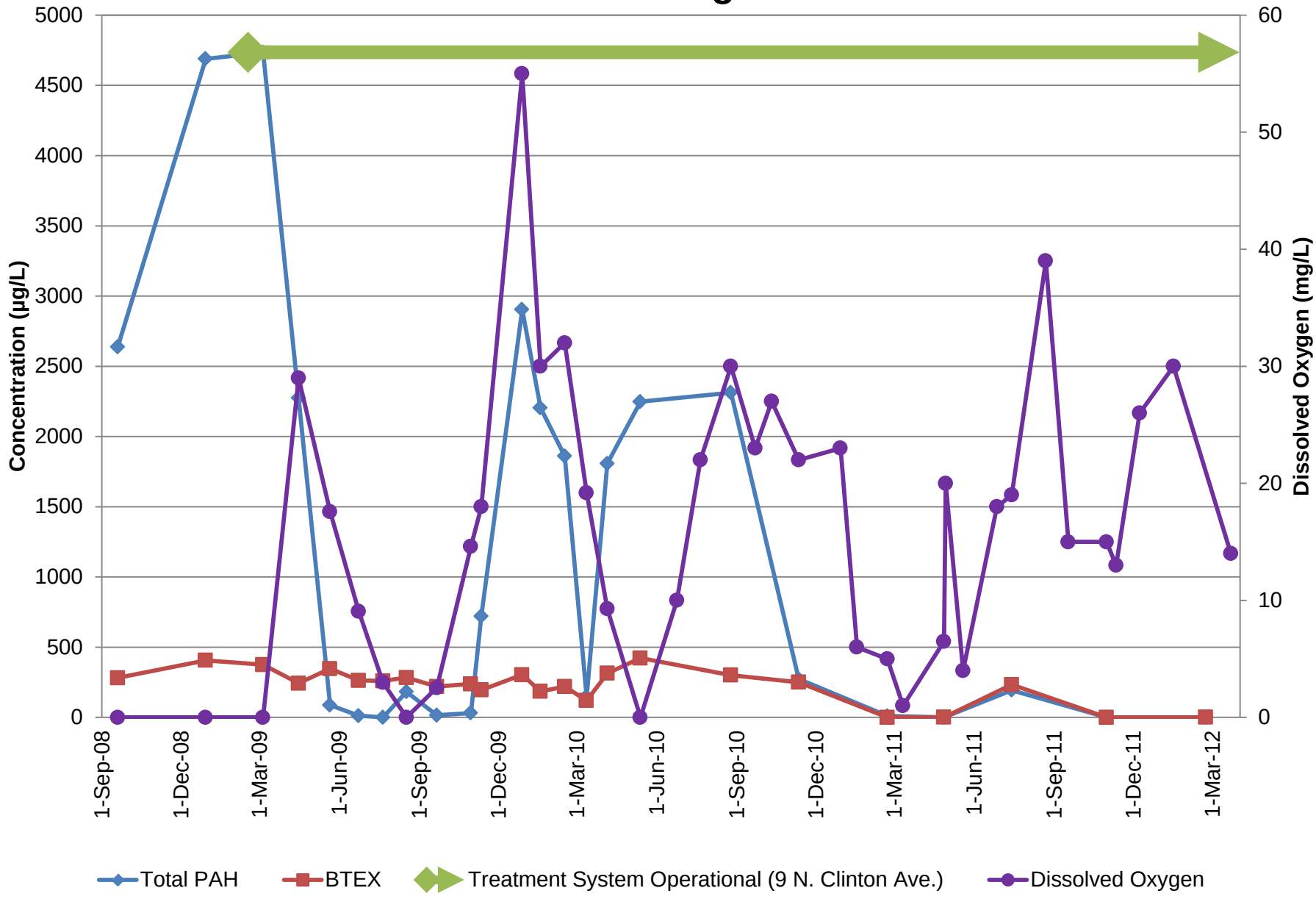
Monitoring Well OU2MW-30I3
45-50 ft bgs



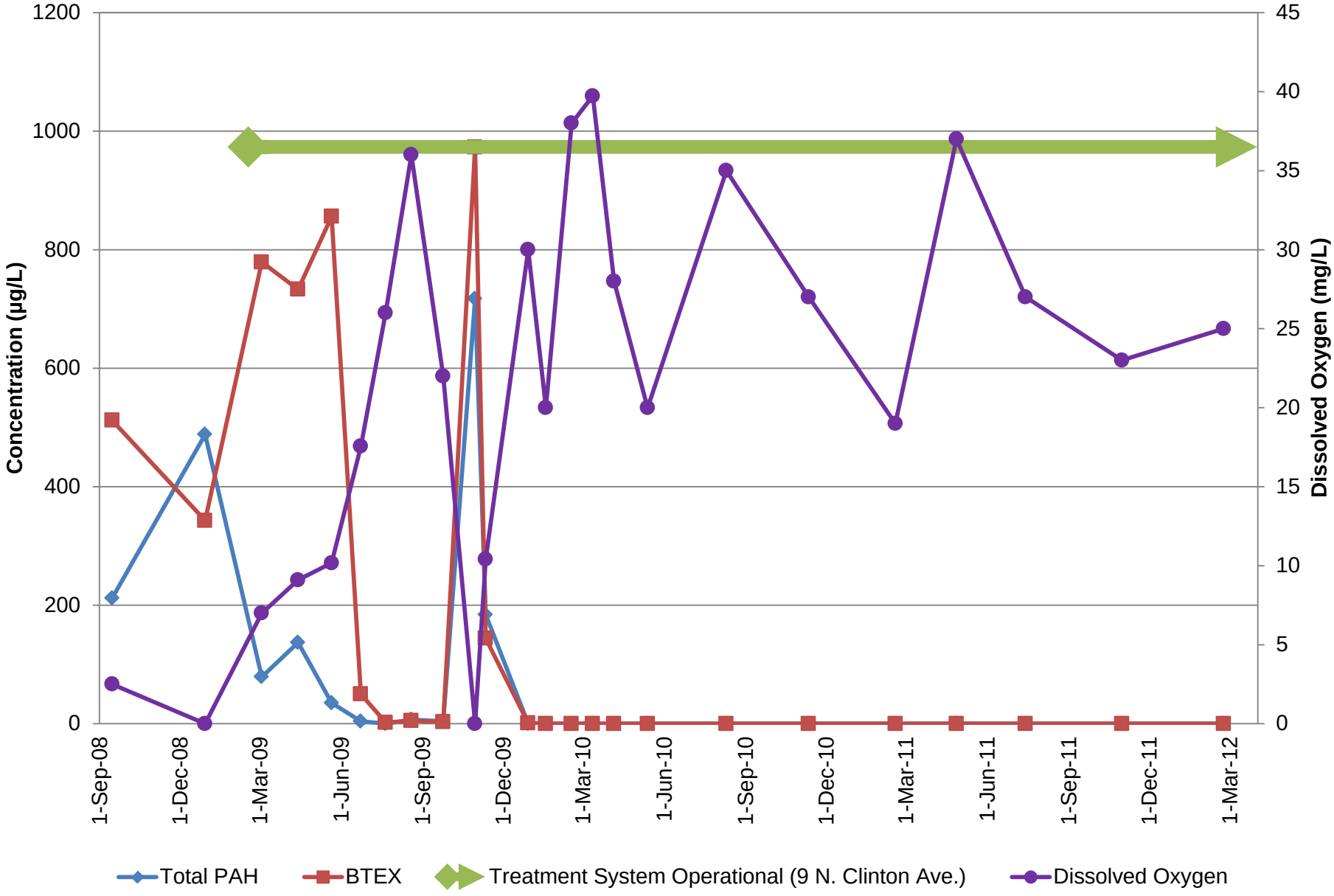
Monitoring Well OU2MW-30D
50-55 ft bgs



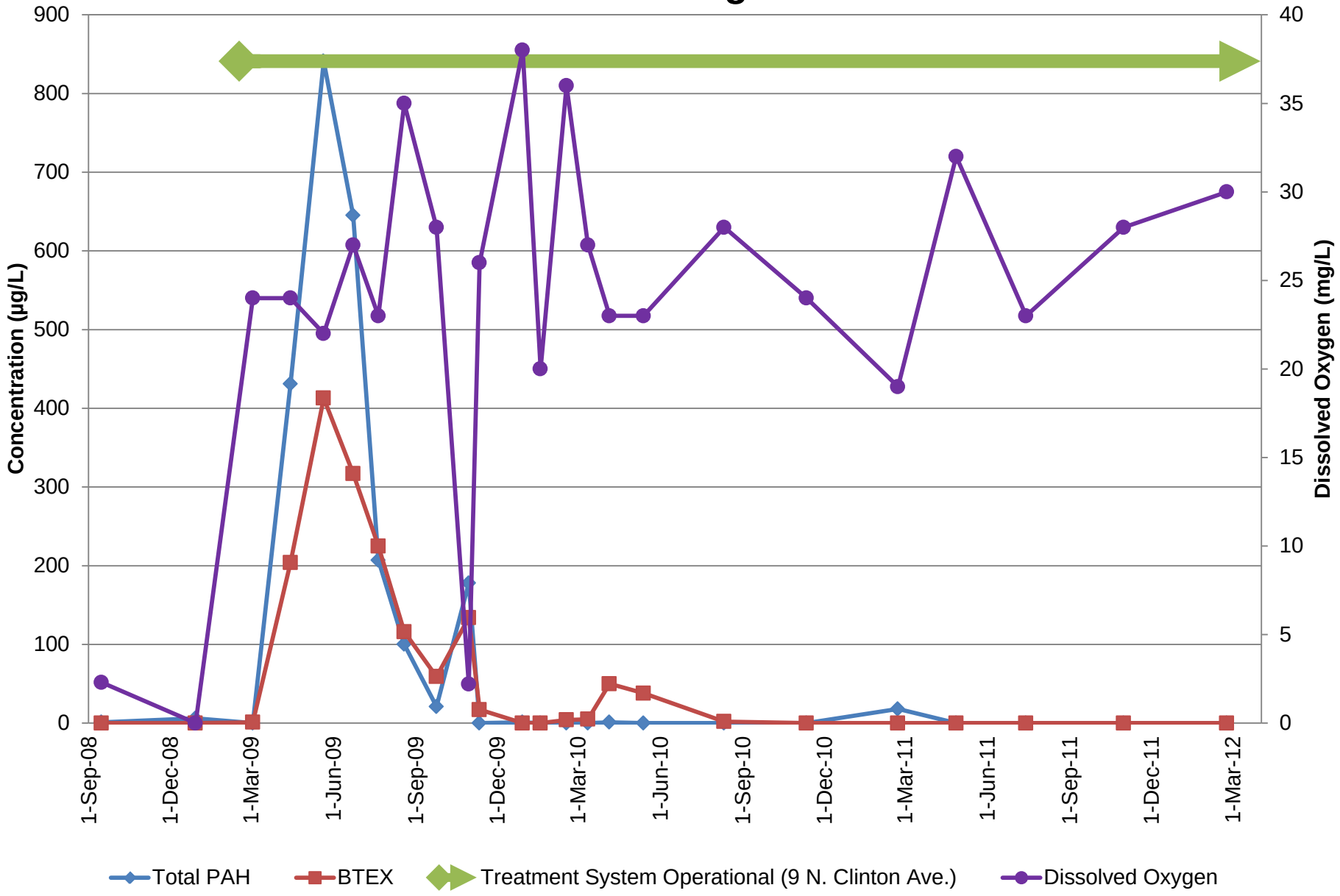
Monitoring Well OU2MW-30D2
60-65 ft bgs



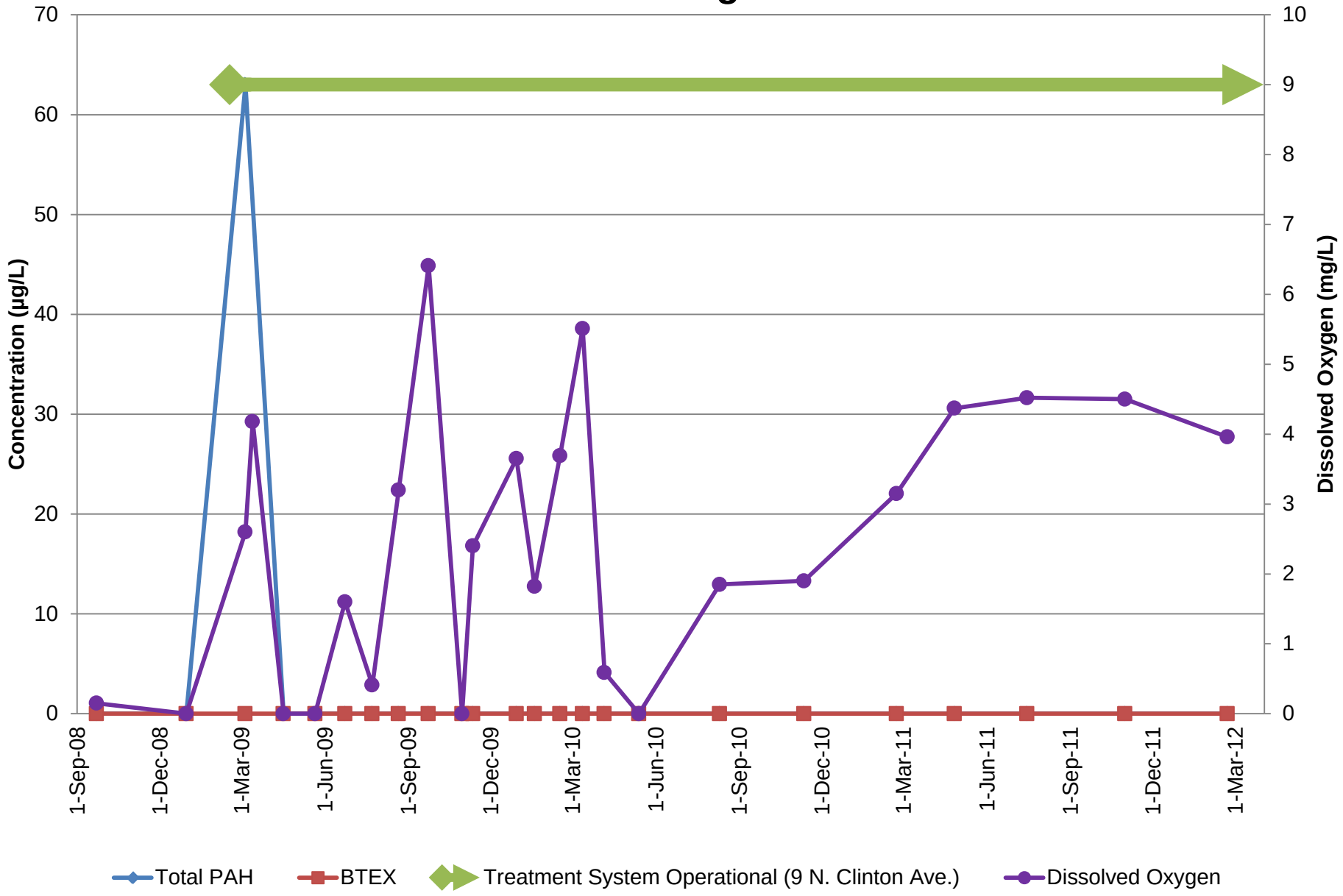
Monitoring Well OU2MW-31I
18-23 ft bgs



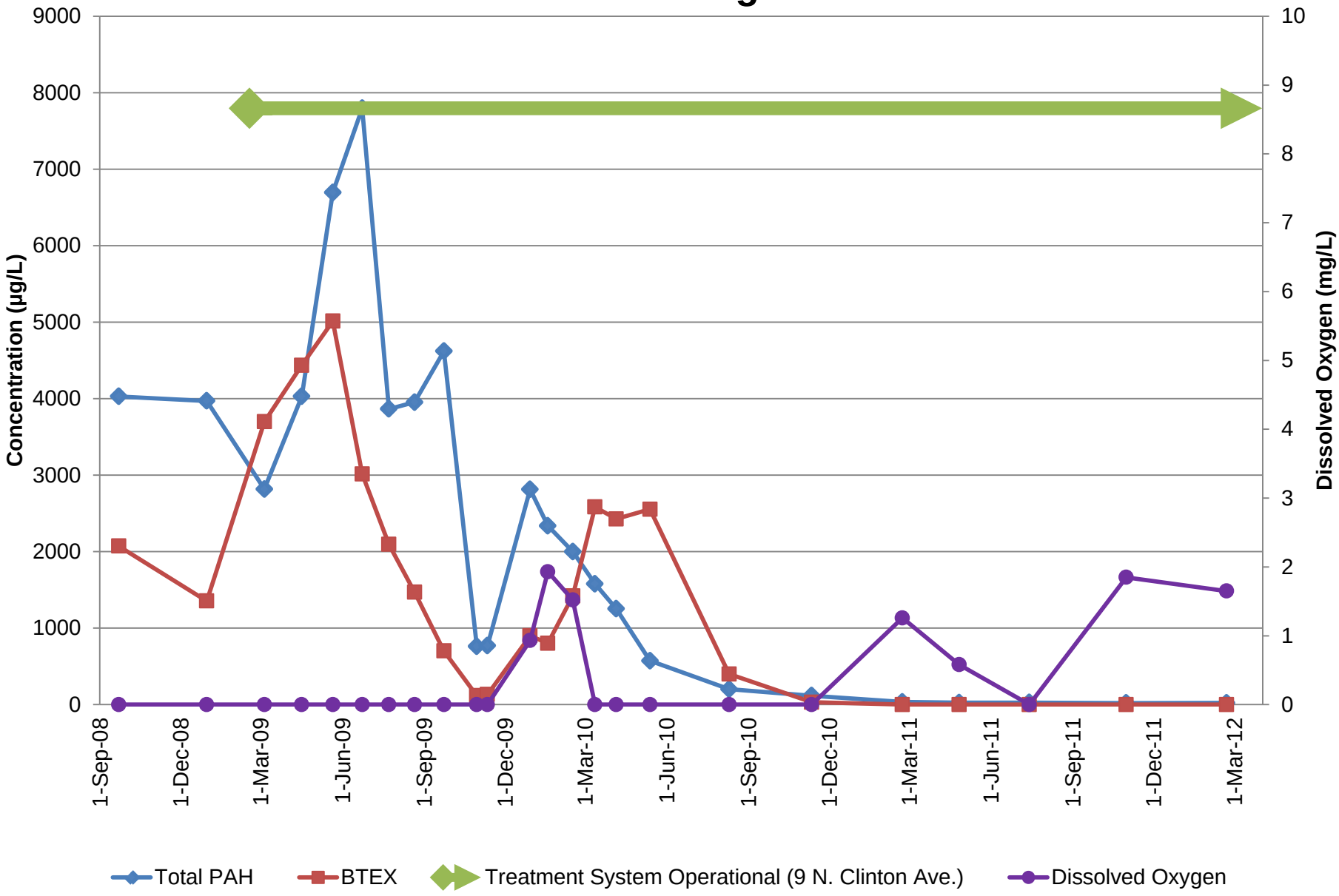
Monitoring Well OU2MW-31I2
30-35 ft bgs



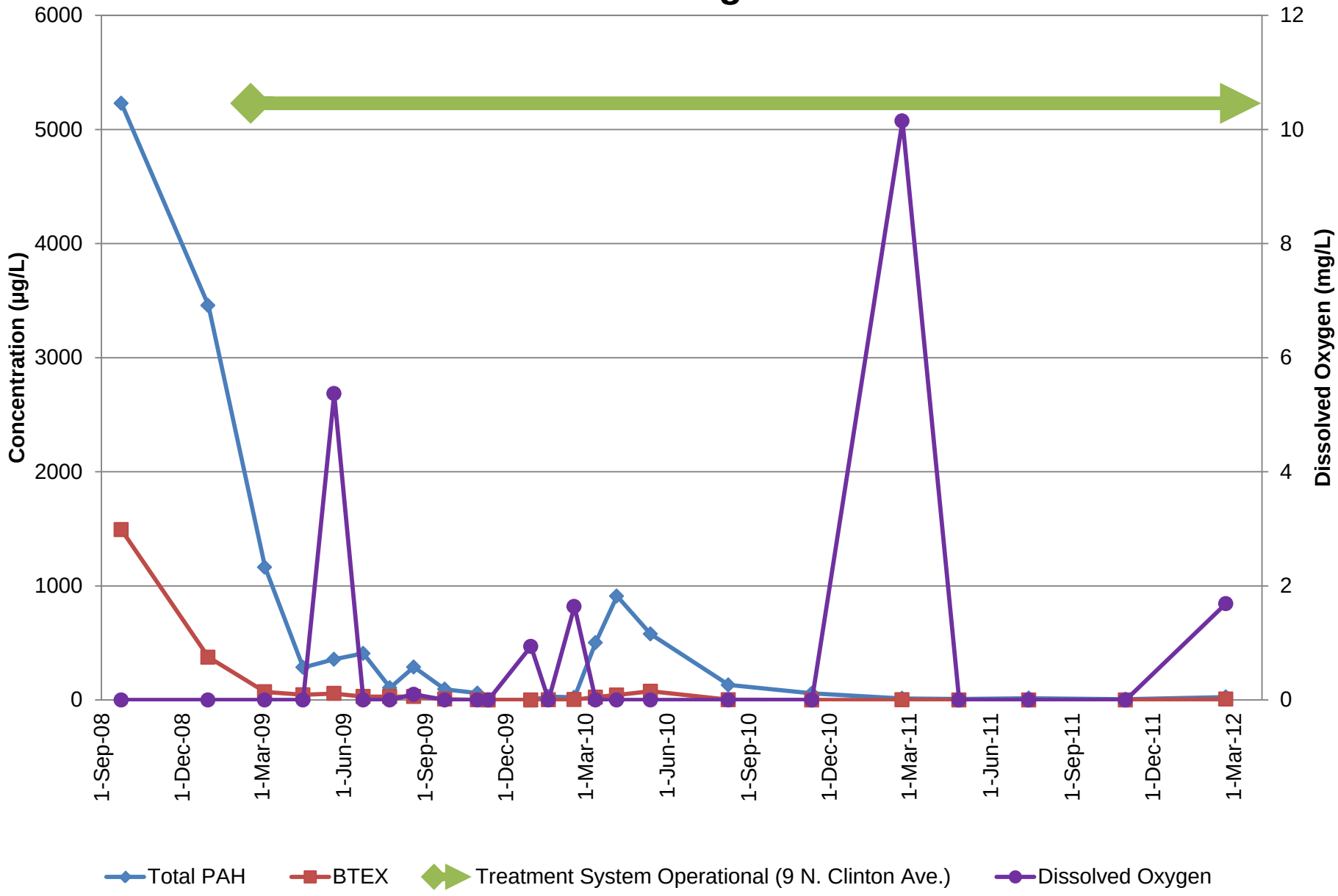
Monitoring Well OU2MW-32S
5-15 ft bgs



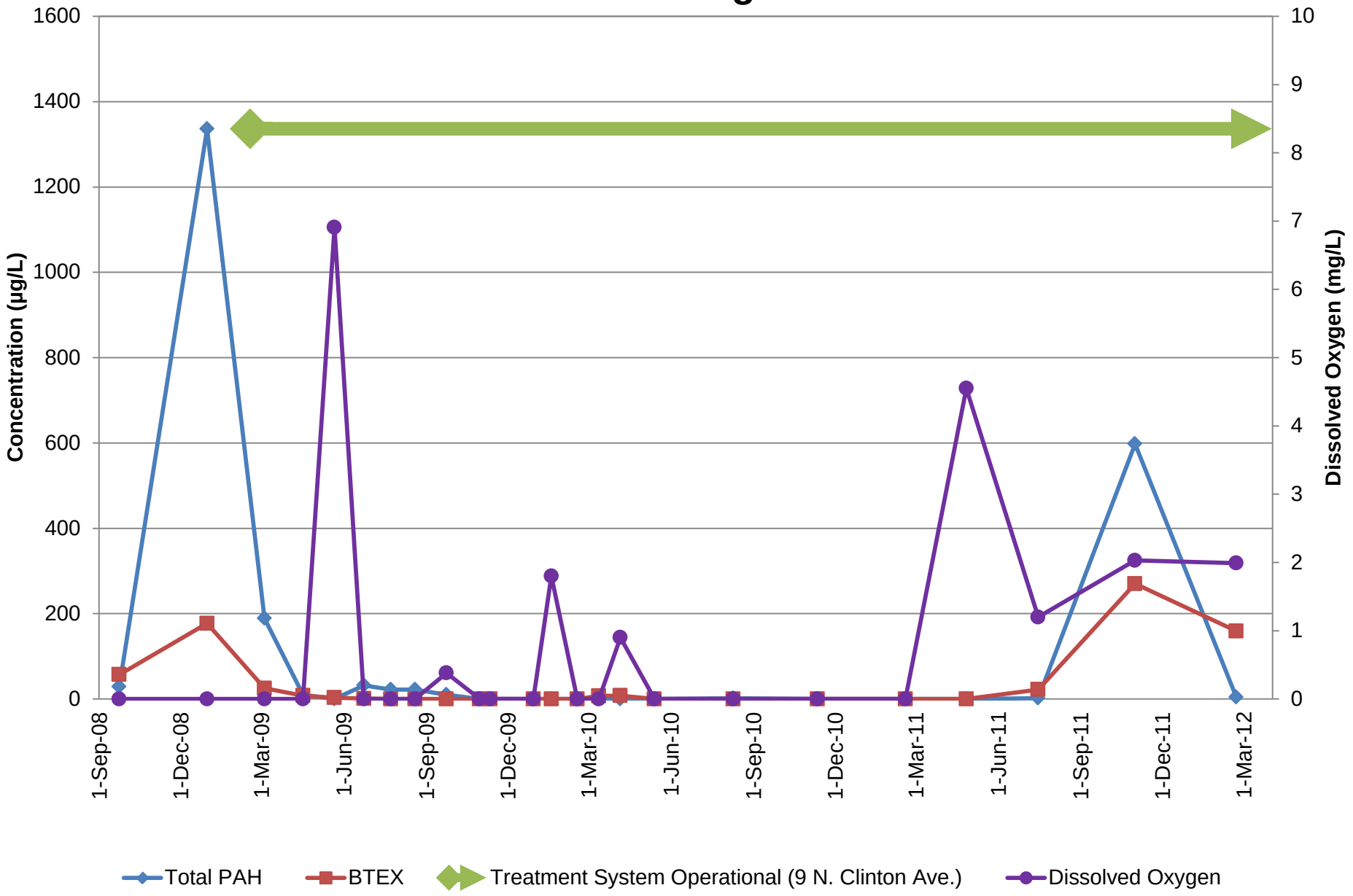
Monitoring Well OU2MW-32I
20-25 ft bgs

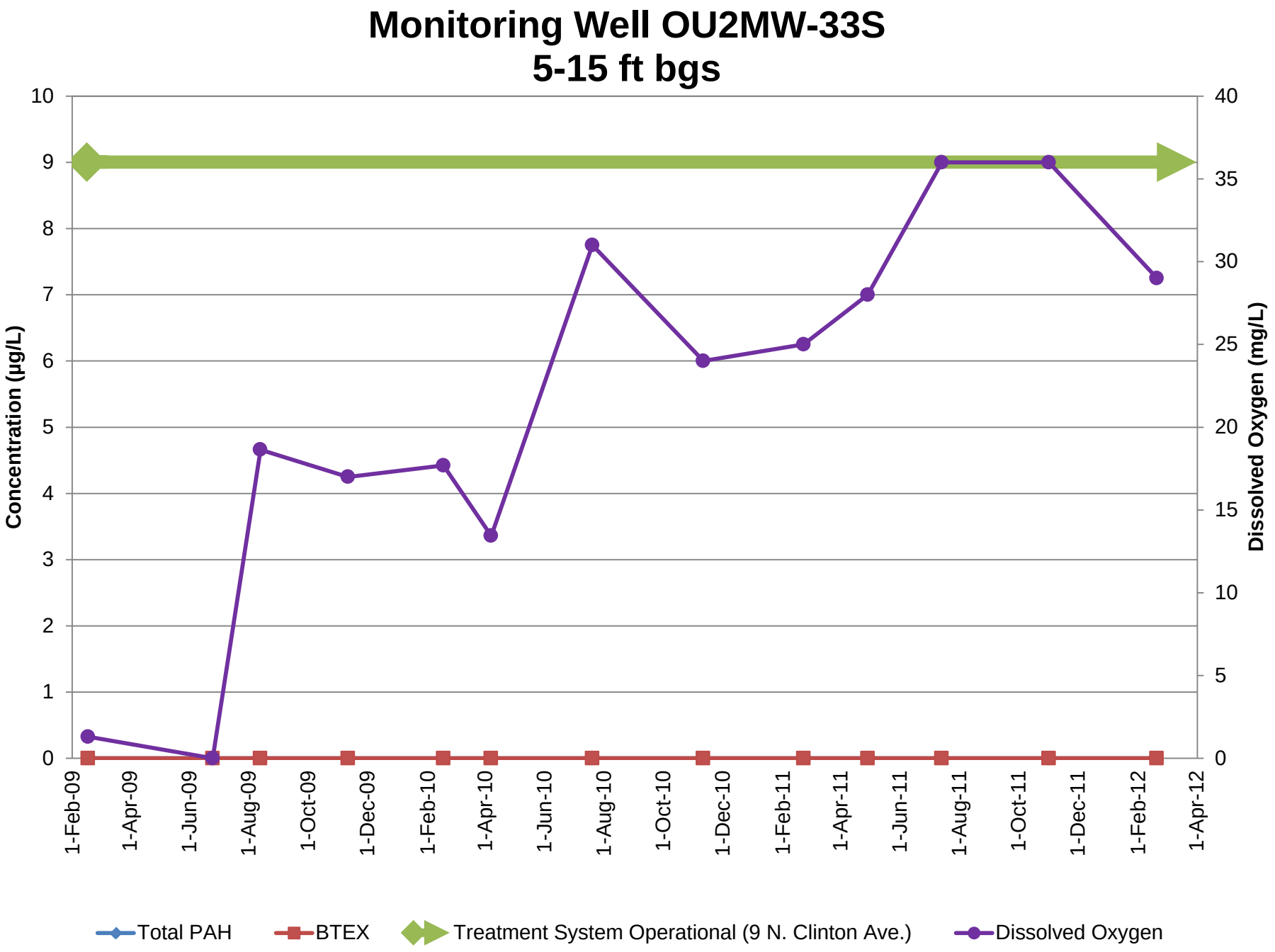


Monitoring Well OU2MW-32I2
30-35 ft bgs

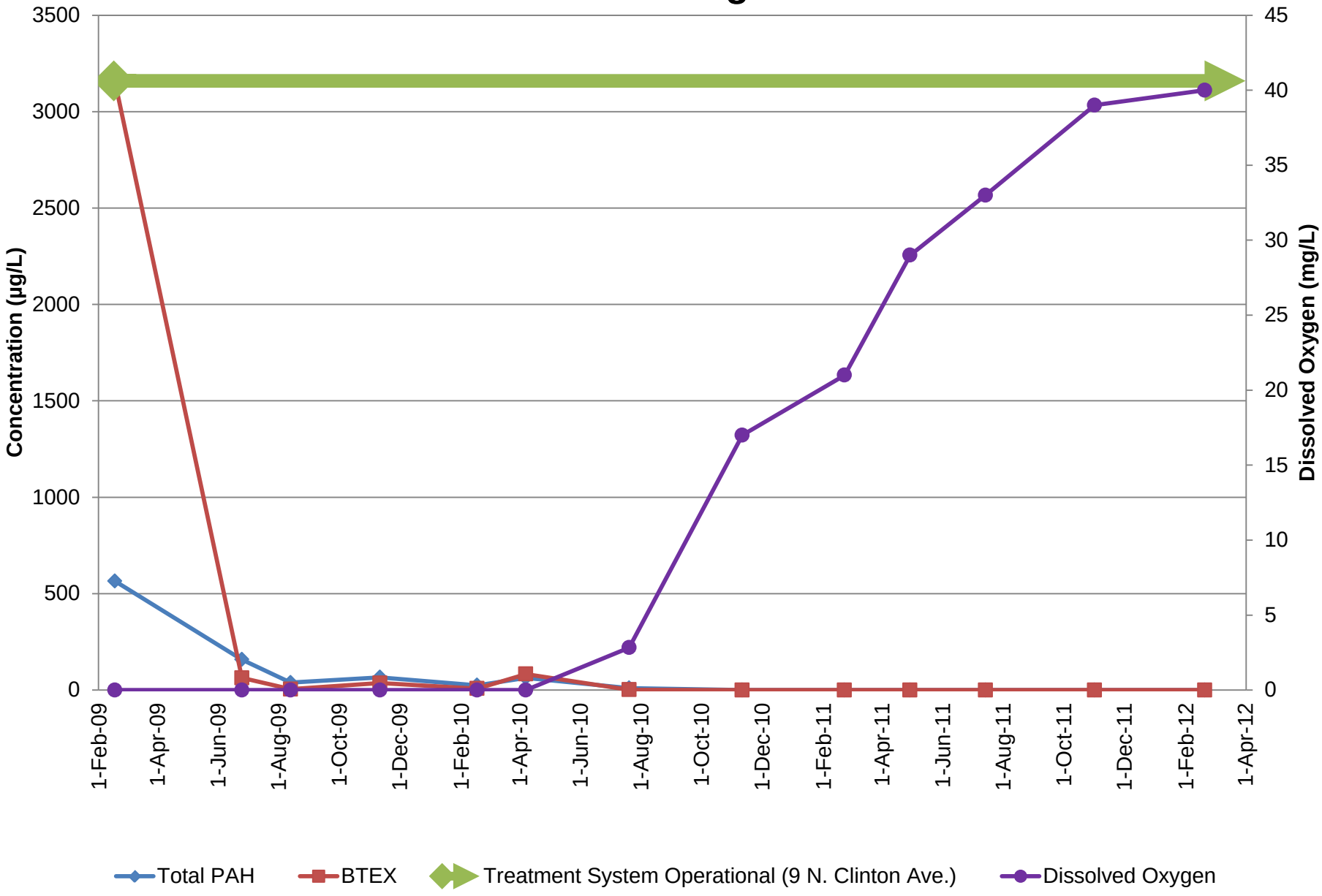


Monitoring Well OU2MW-32D
40-45 ft bgs

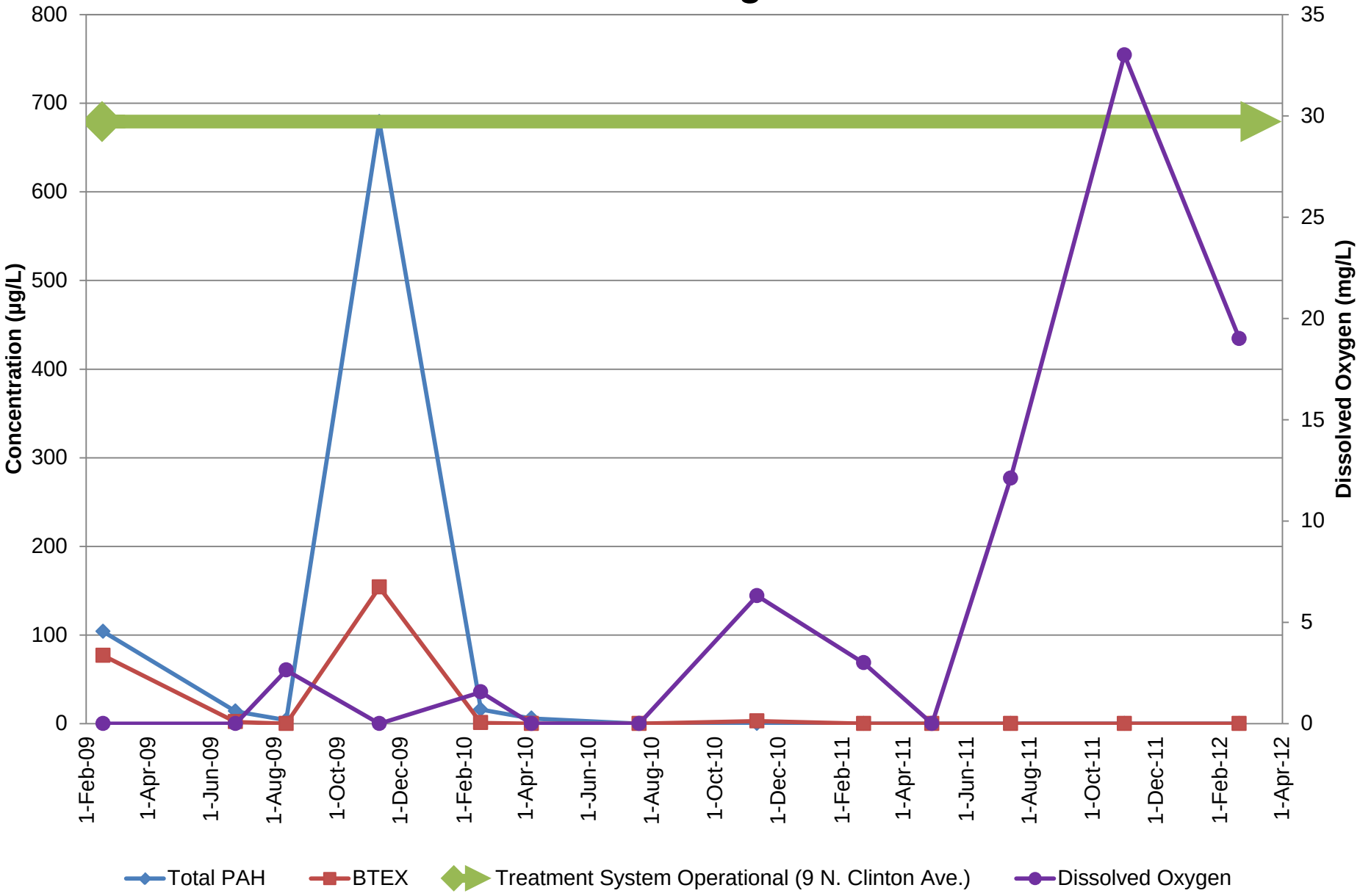


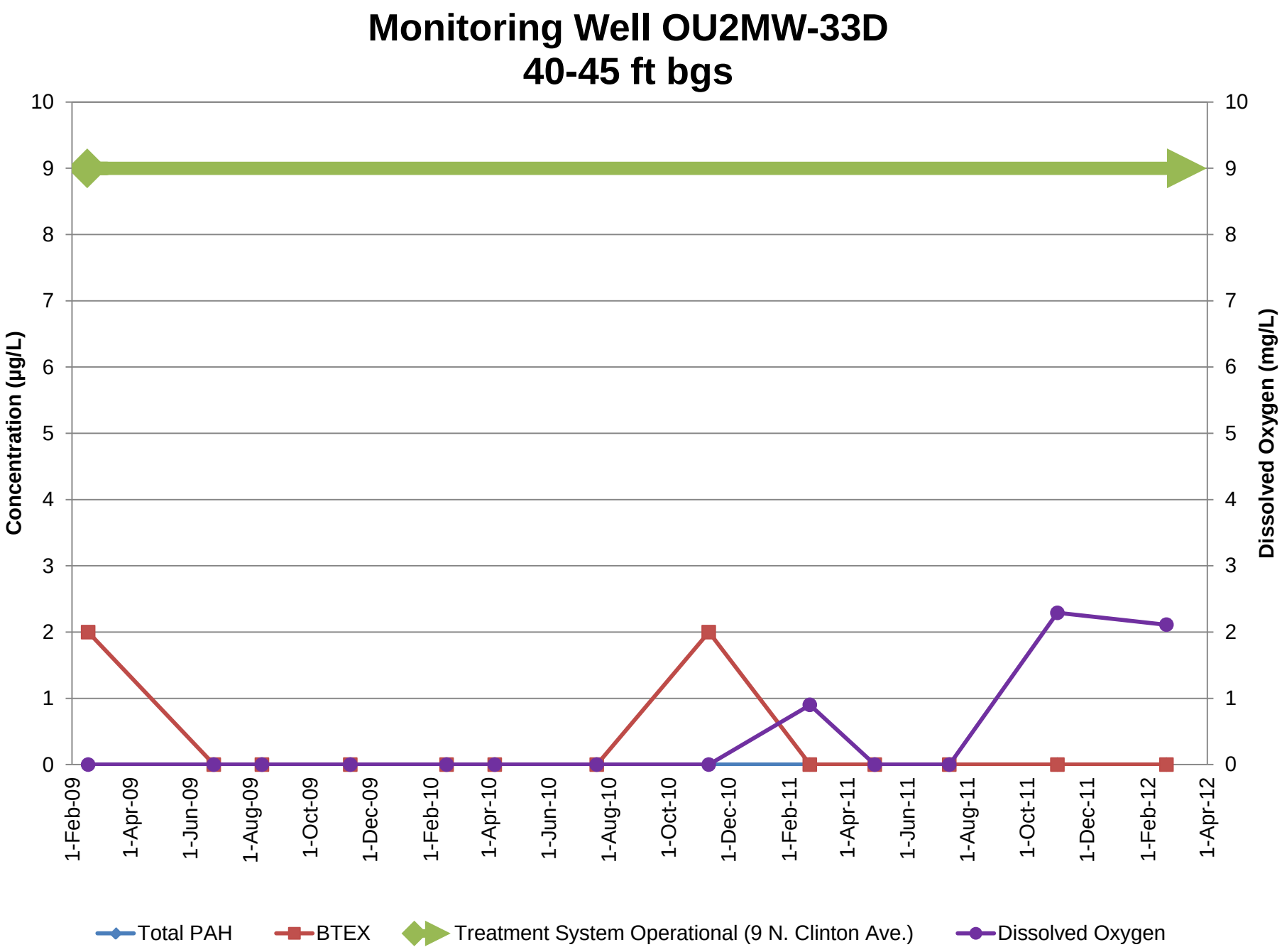

Monitoring Well OU2MW-33S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
0
5
10
15
20
25
30
35
40
1-Feb-09
1-Apr-09
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (9 N. Clinton Ave.)
Dissolved Oxygen

Monitoring Well OU2MW-33I
25-30 ft bgs

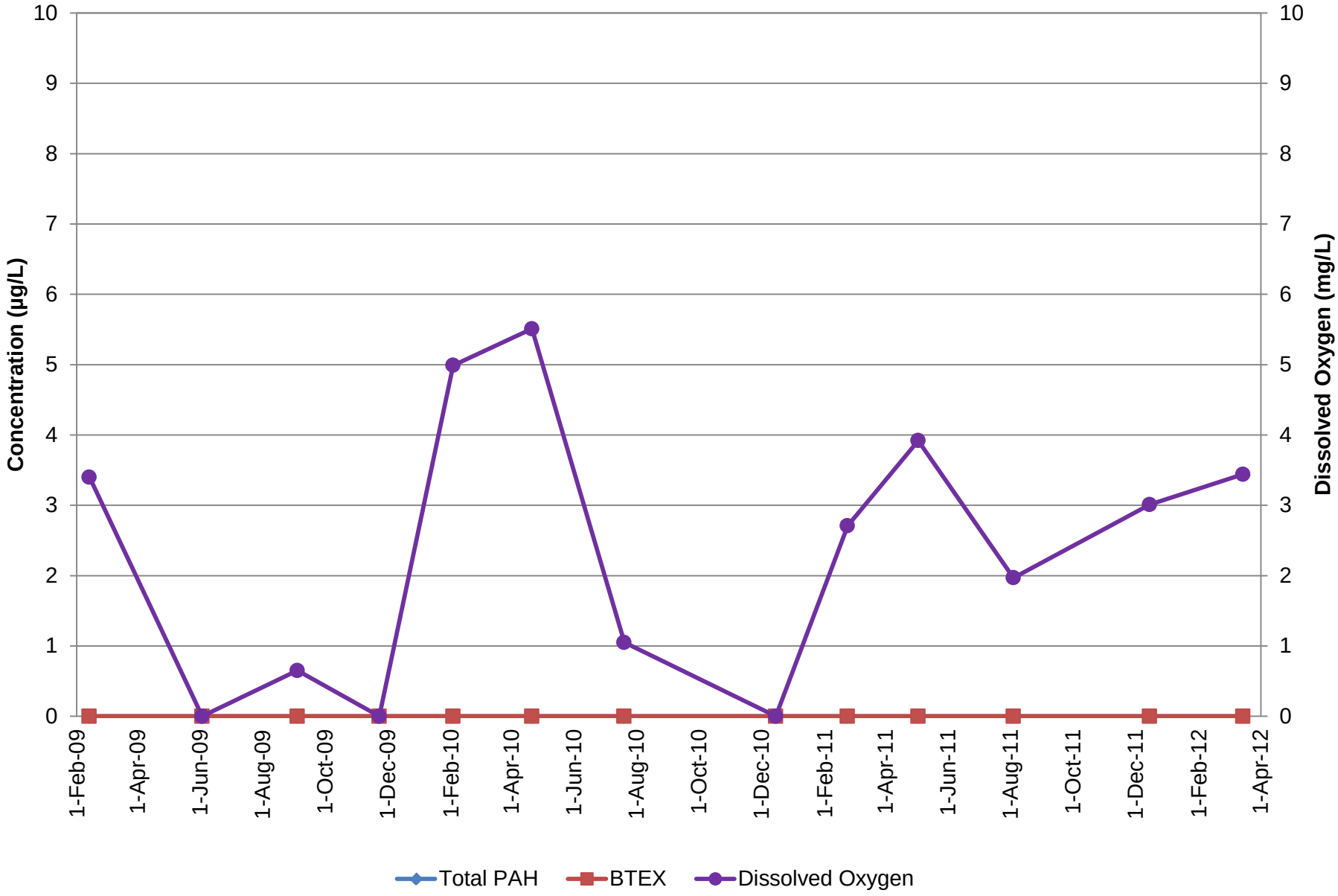


Monitoring Well OU2MW-33I2
35-40 ft bgs

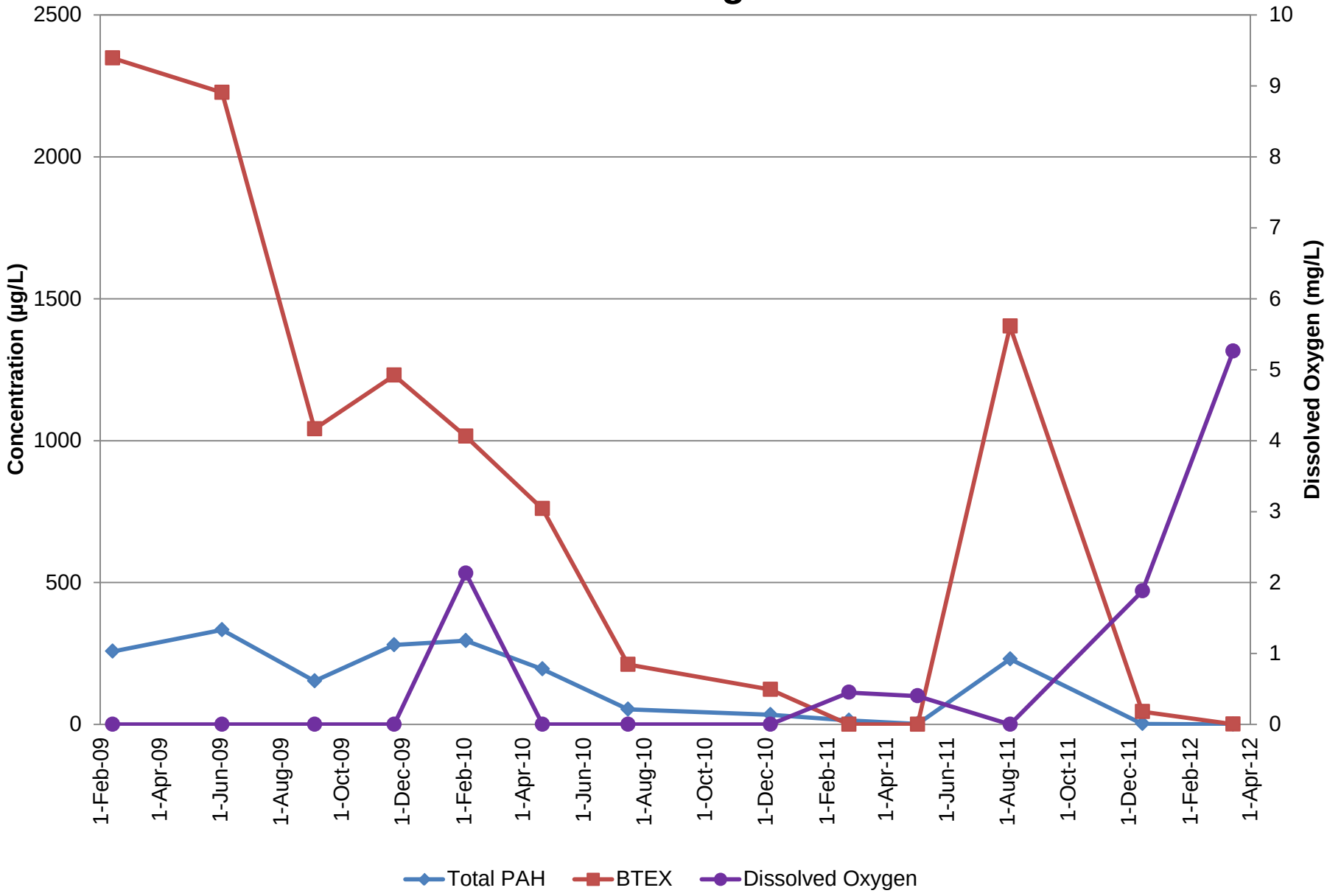



Monitoring Well OU2MW-33D
40-45 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Feb-09
1-Apr-09
1-Jun-09
1-Aug-09
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (9 N. Clinton Ave.)
Dissolved Oxygen

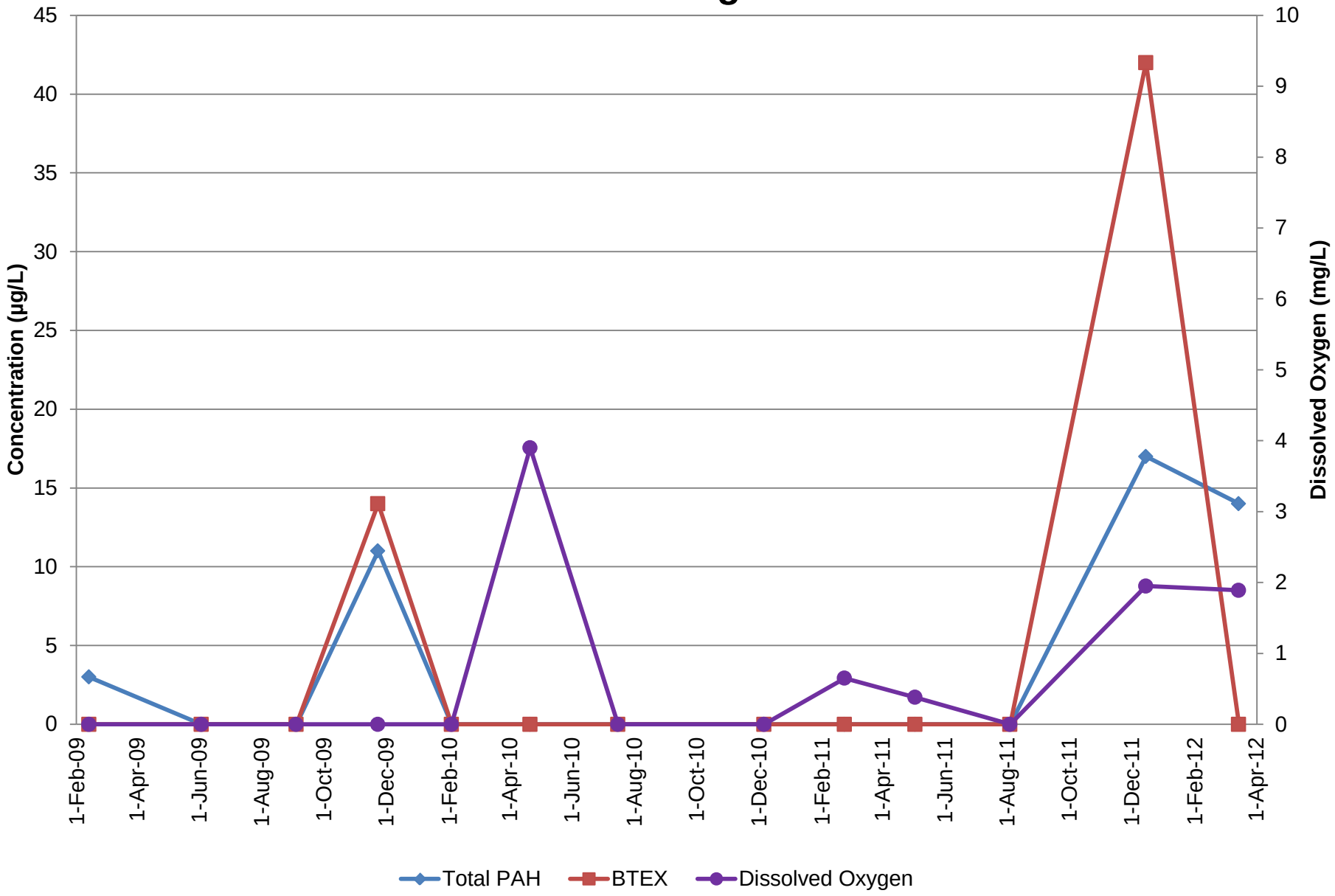
Monitoring Well OU2MW-34S
5-15 ft bgs



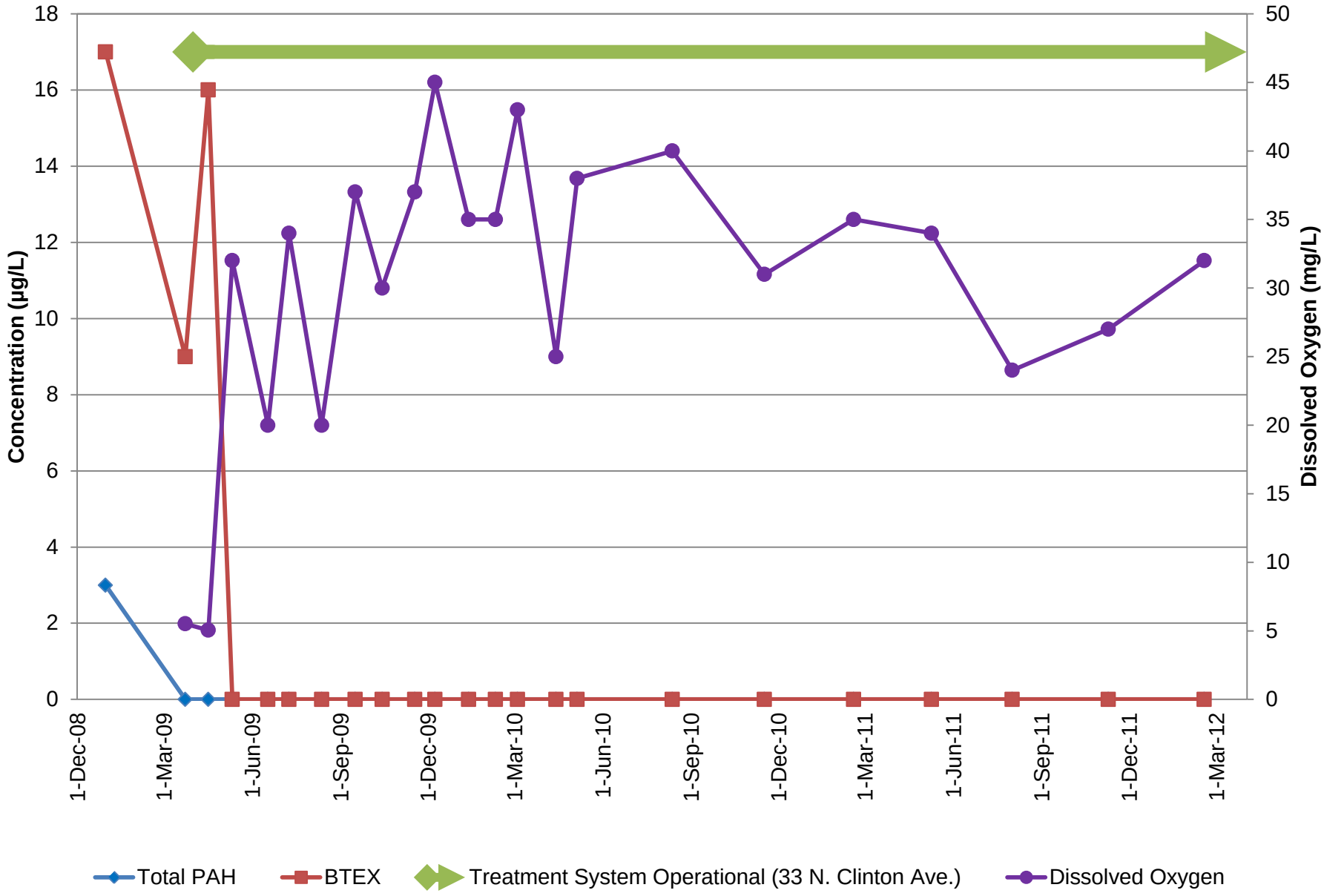
Monitoring Well OU2MW-34I
25-30 ft bgs

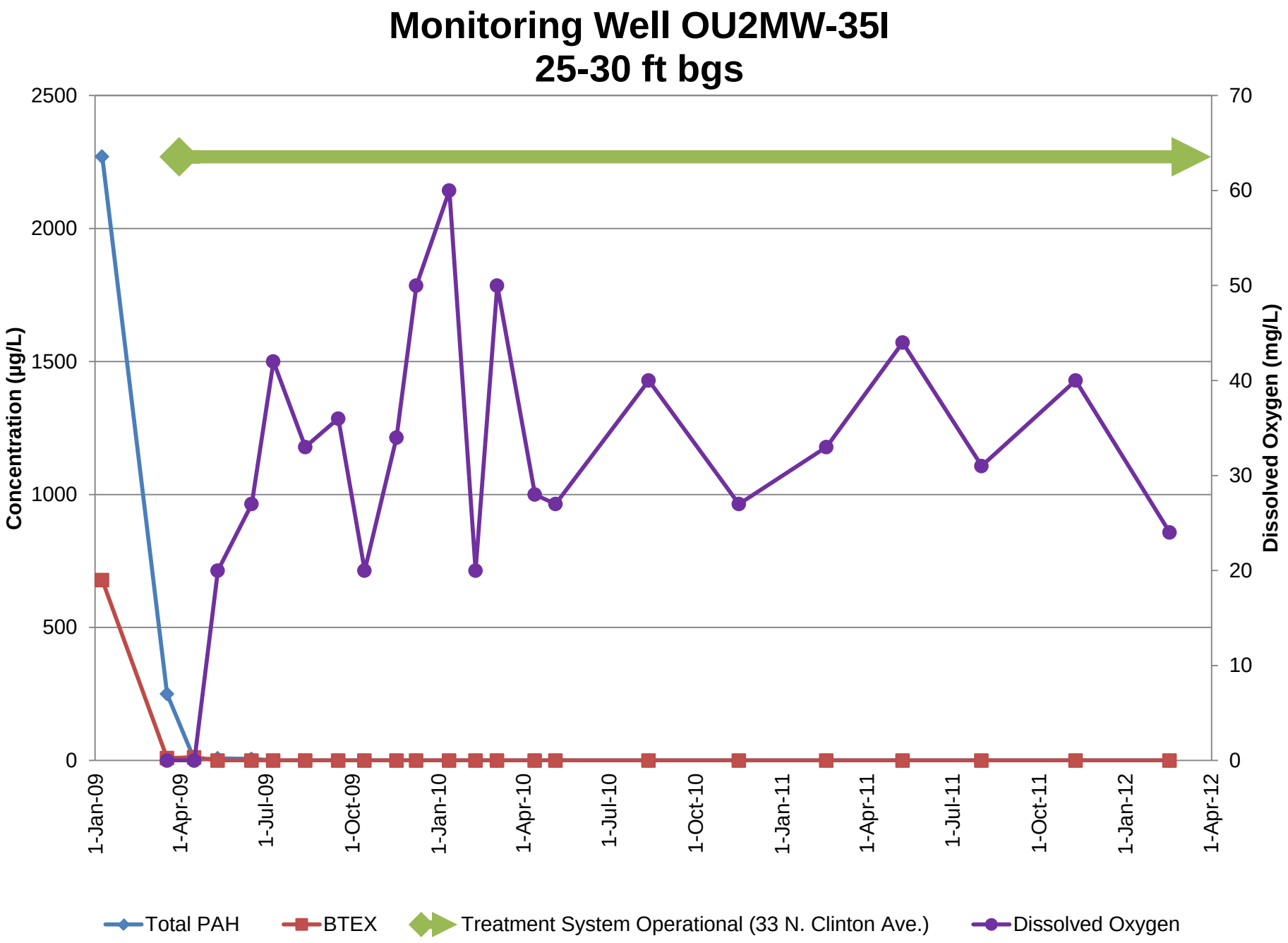


Monitoring Well OU2MW-34I2
45-50 ft bgs

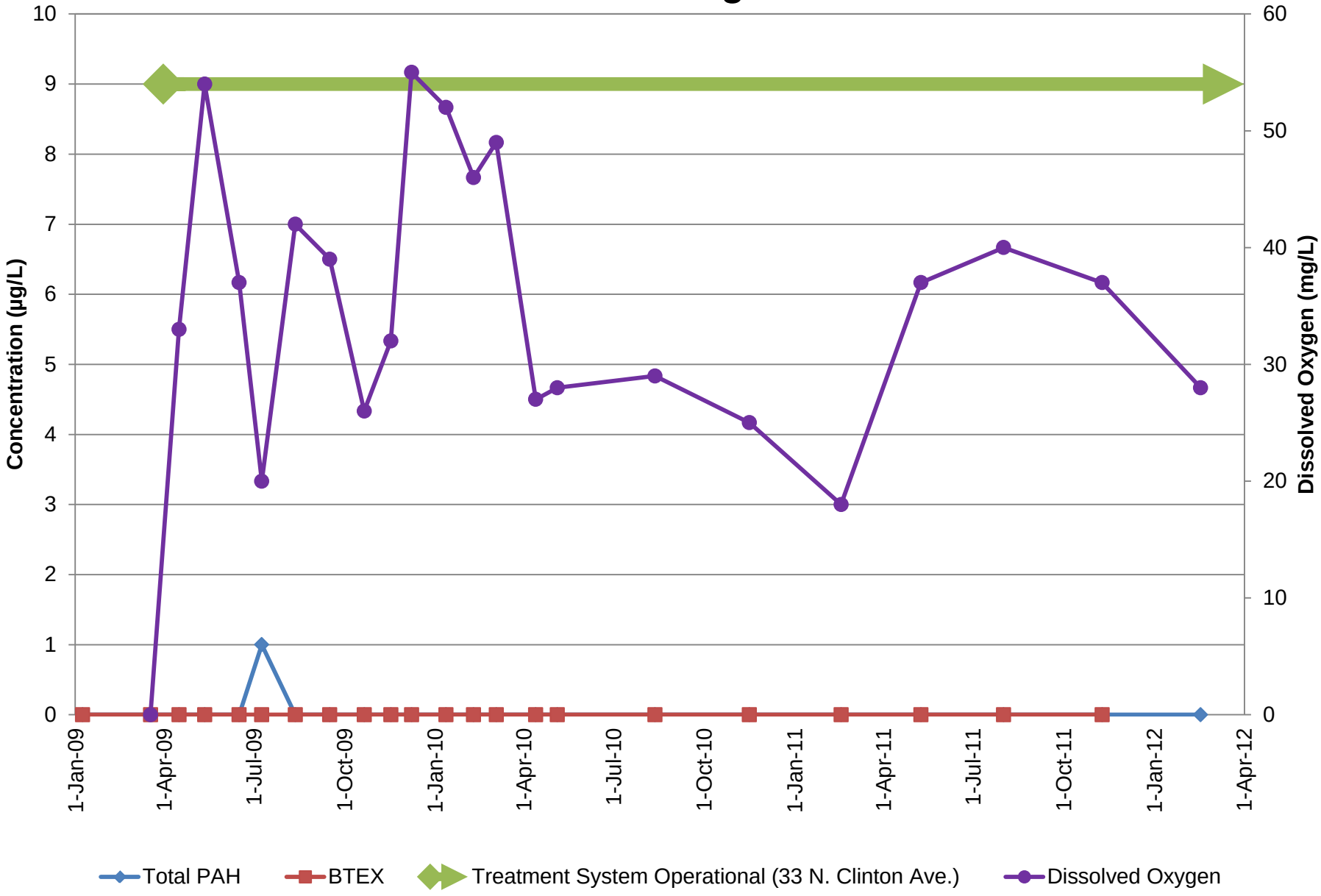


Monitoring Well OU2MW-35S
5-15 ft bgs

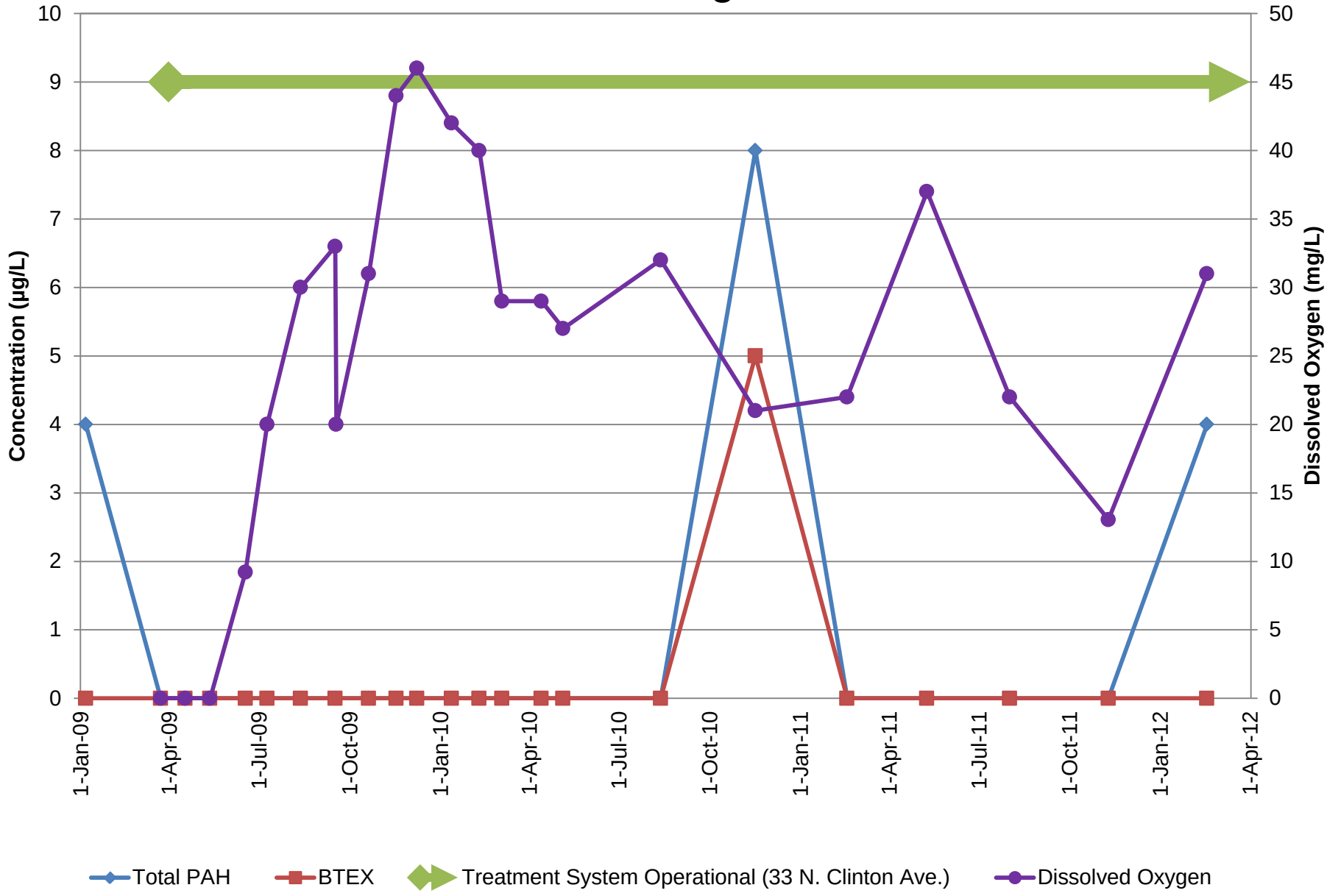


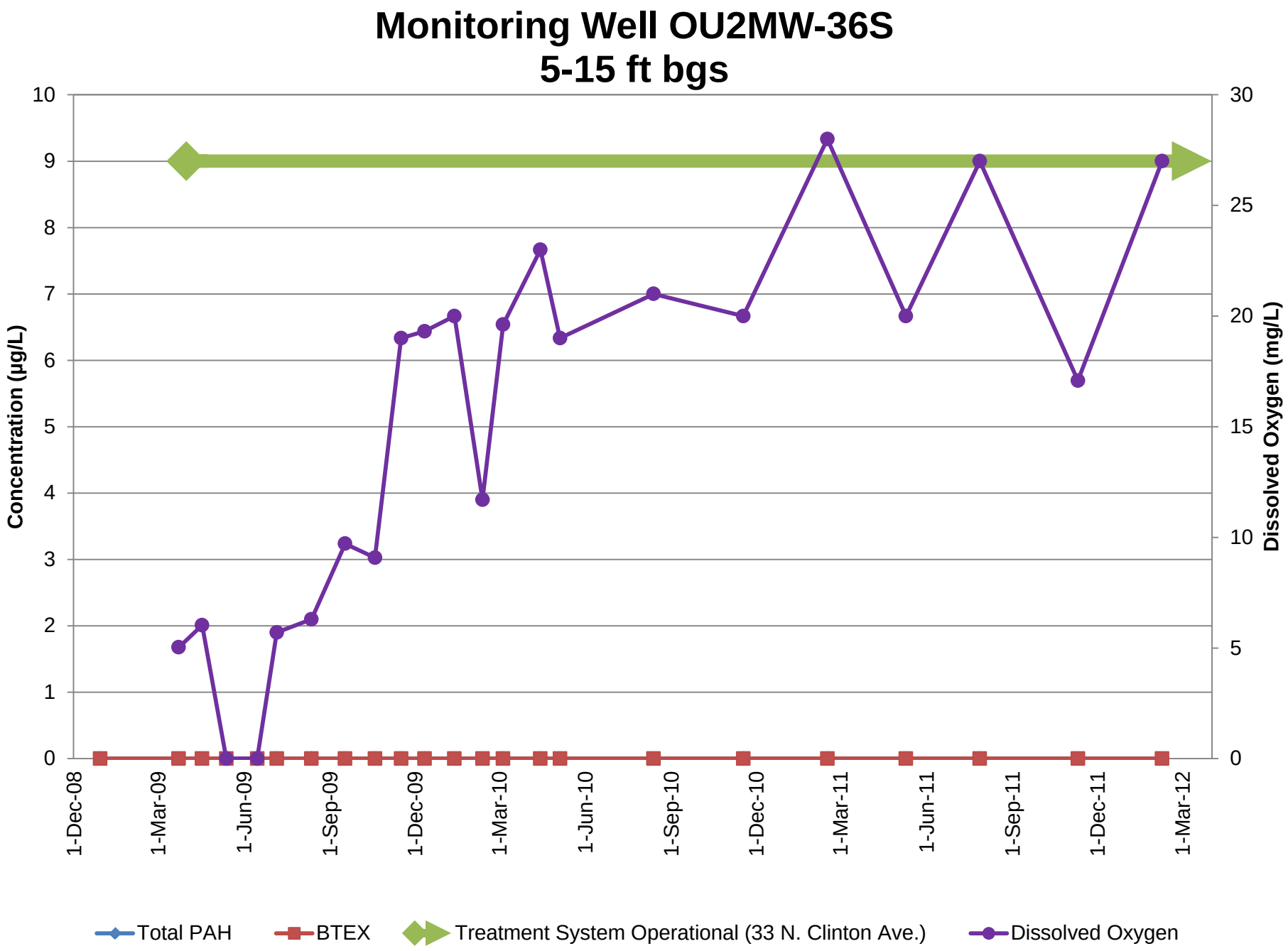

Monitoring Well OU2MW-35I
25-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
2500
2000
1500
1000
500
0
70
60
50
40
30
20
10
0
1-Jan-09
1-Apr-09
1-Jul-09
1-Oct-09
1-Jan-10
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (33 N. Clinton Ave.)
Dissolved Oxygen

Monitoring Well OU2MW-35I2
45-50 ft bgs

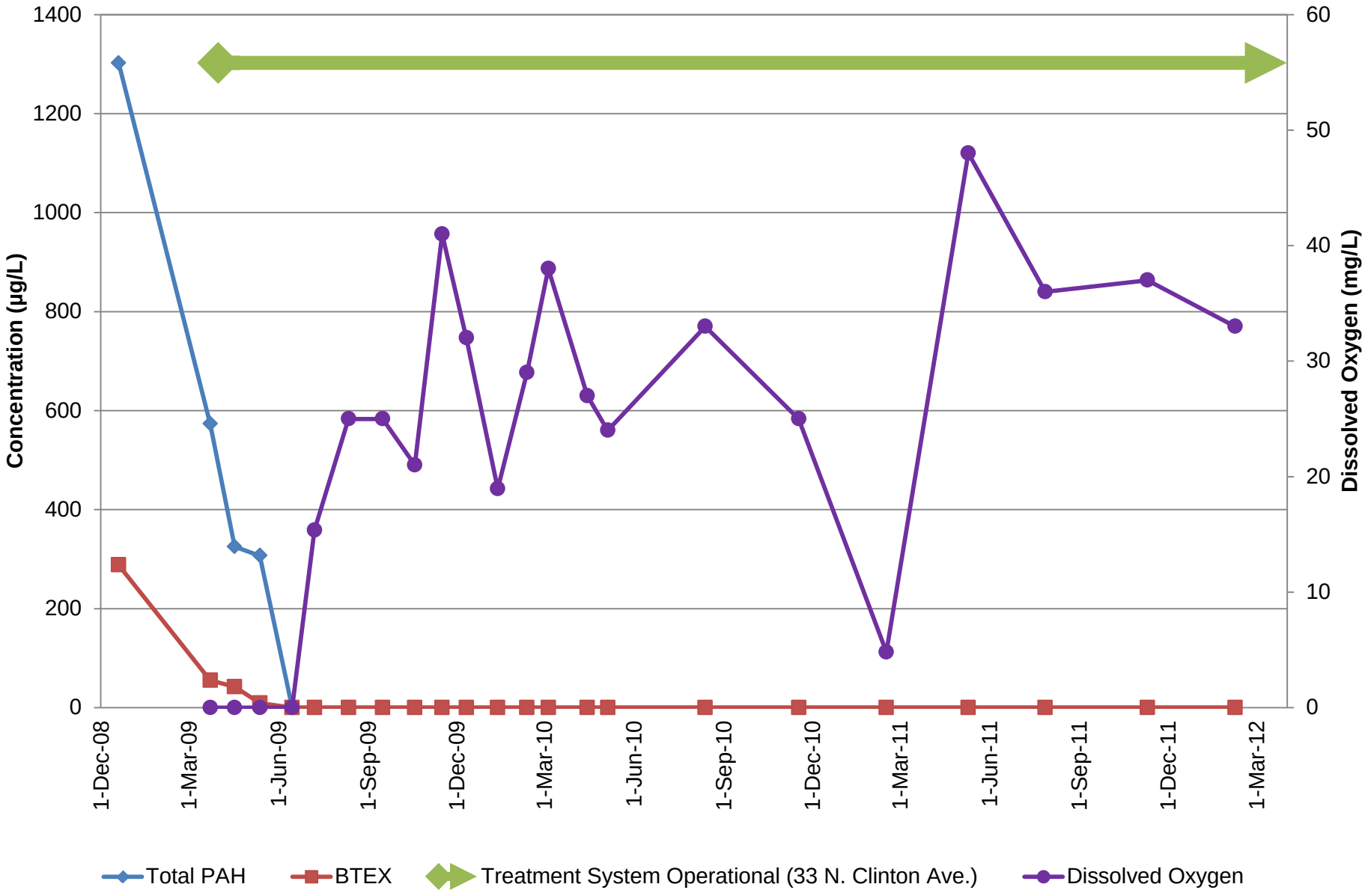


Monitoring Well OU2MW-35D
57-62 ft bgs

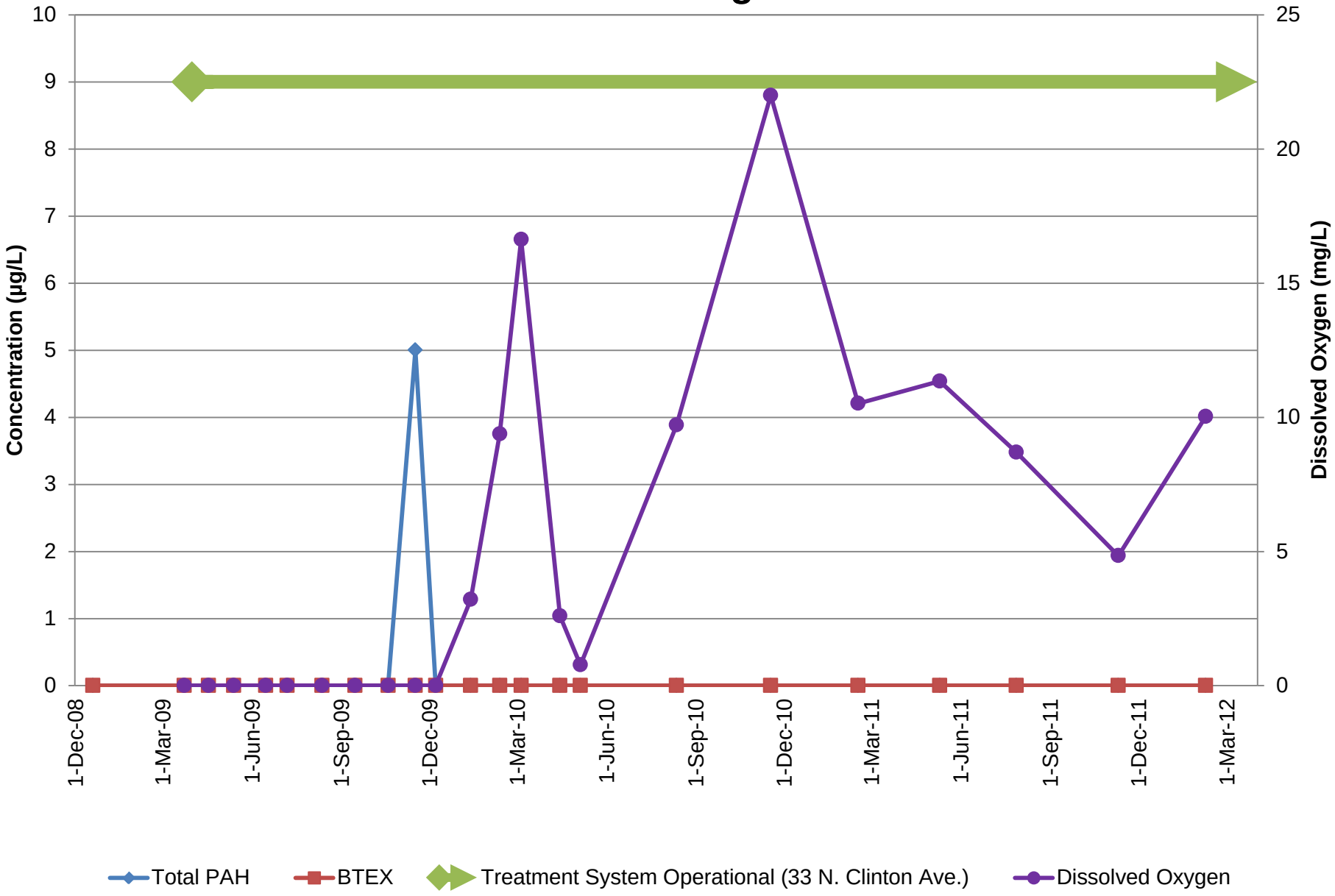



Monitoring Well OU2MW-36S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
30
25
20
15
10
5
0
1-Dec-08
1-Mar-09
1-Jun-09
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
Total PAH
BTEX
Treatment System Operational (33 N. Clinton Ave.)
Dissolved Oxygen

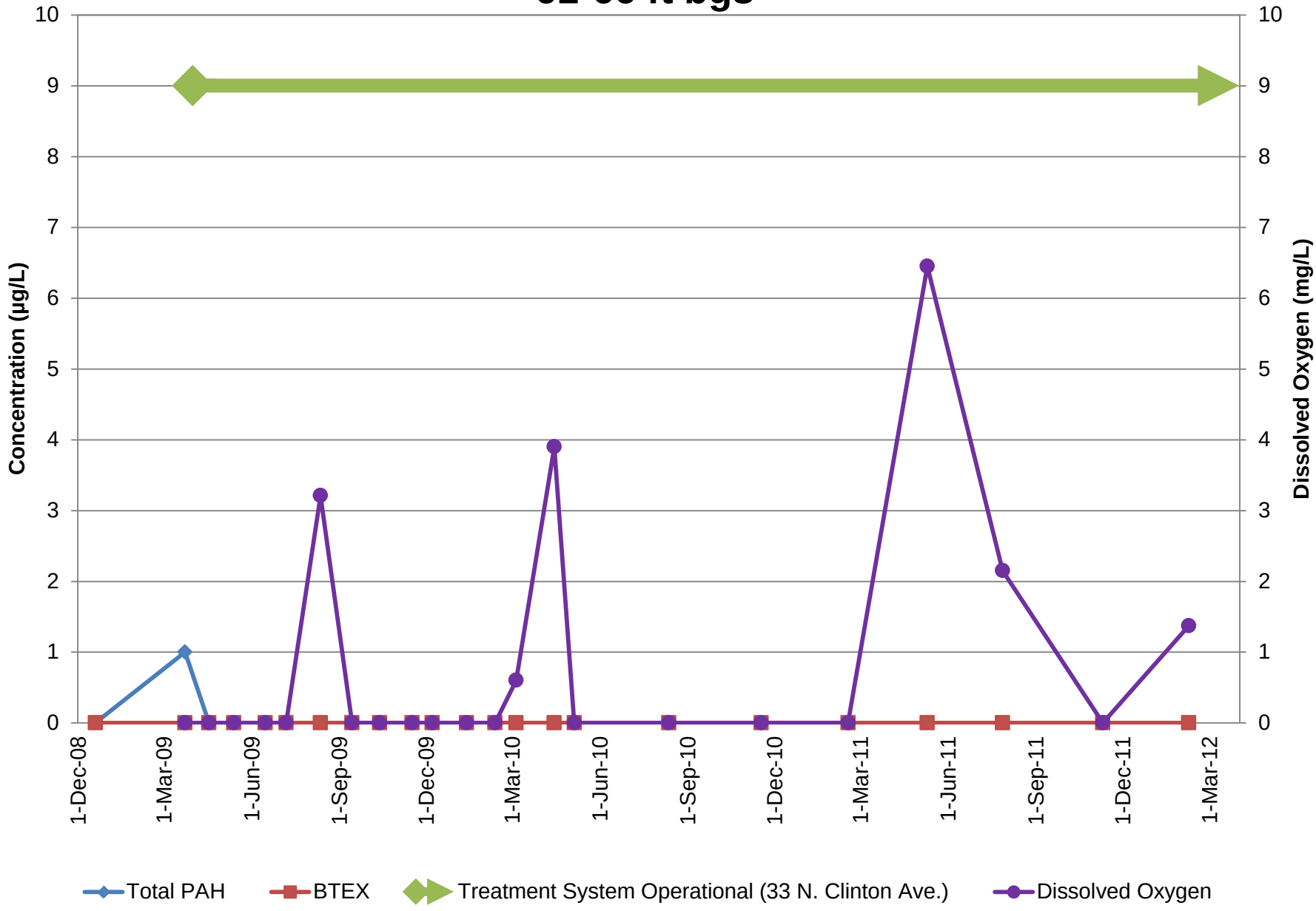
Monitoring Well OU2MW-36I
25-30 ft bgs



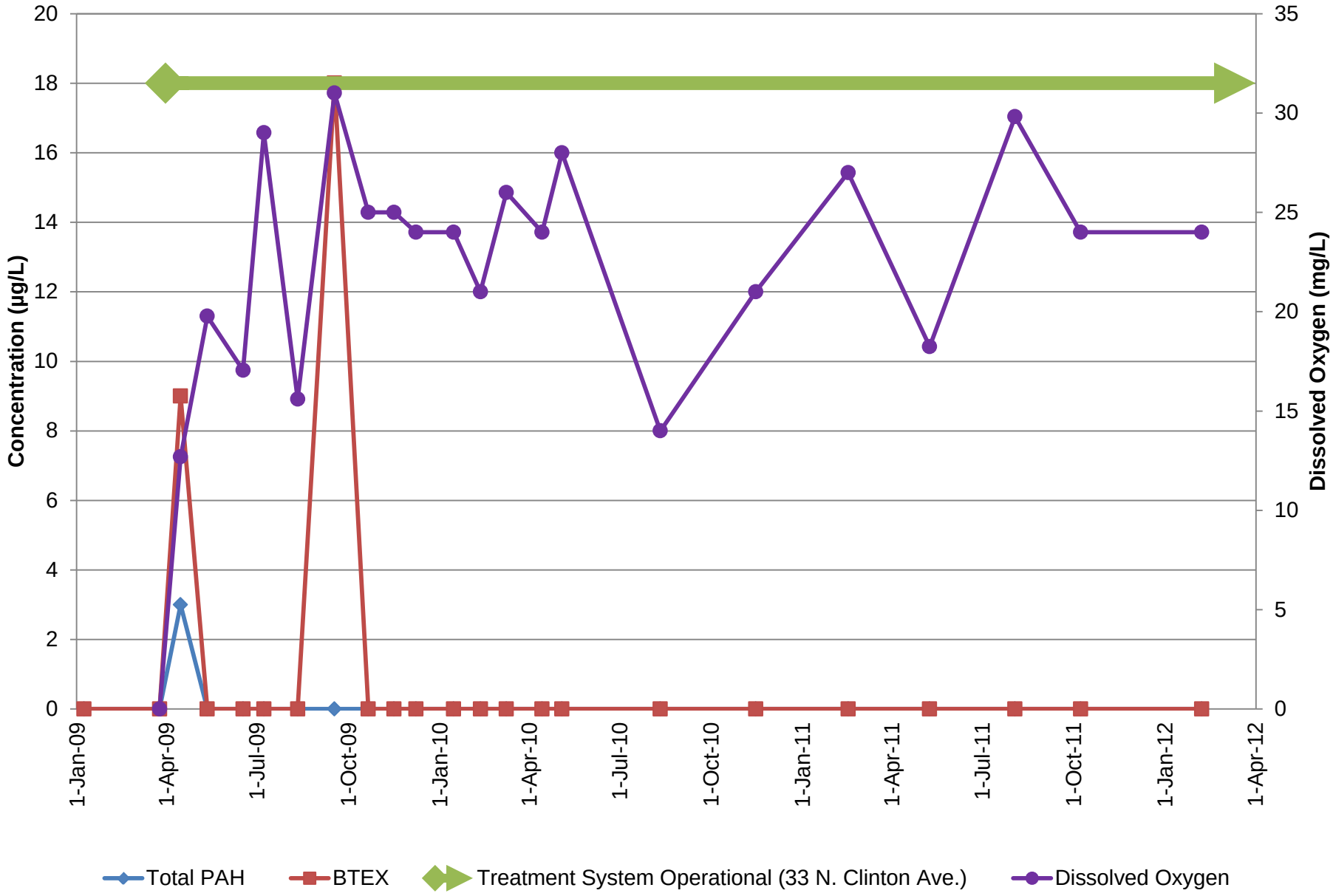
Monitoring Well OU2MW-36I2
57-62 ft bgs



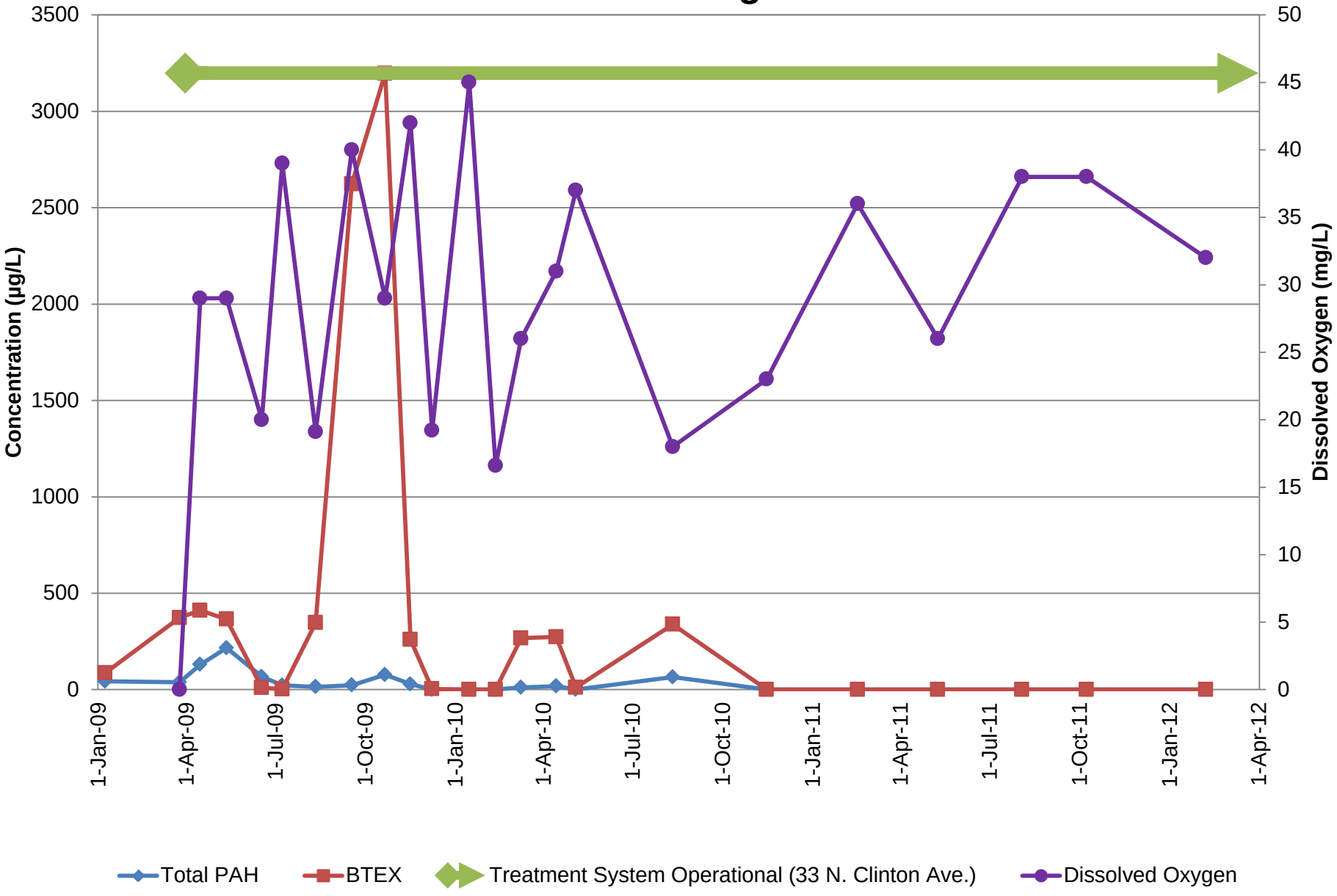
Monitoring Well OU2MW-36D
61-66 ft bgs

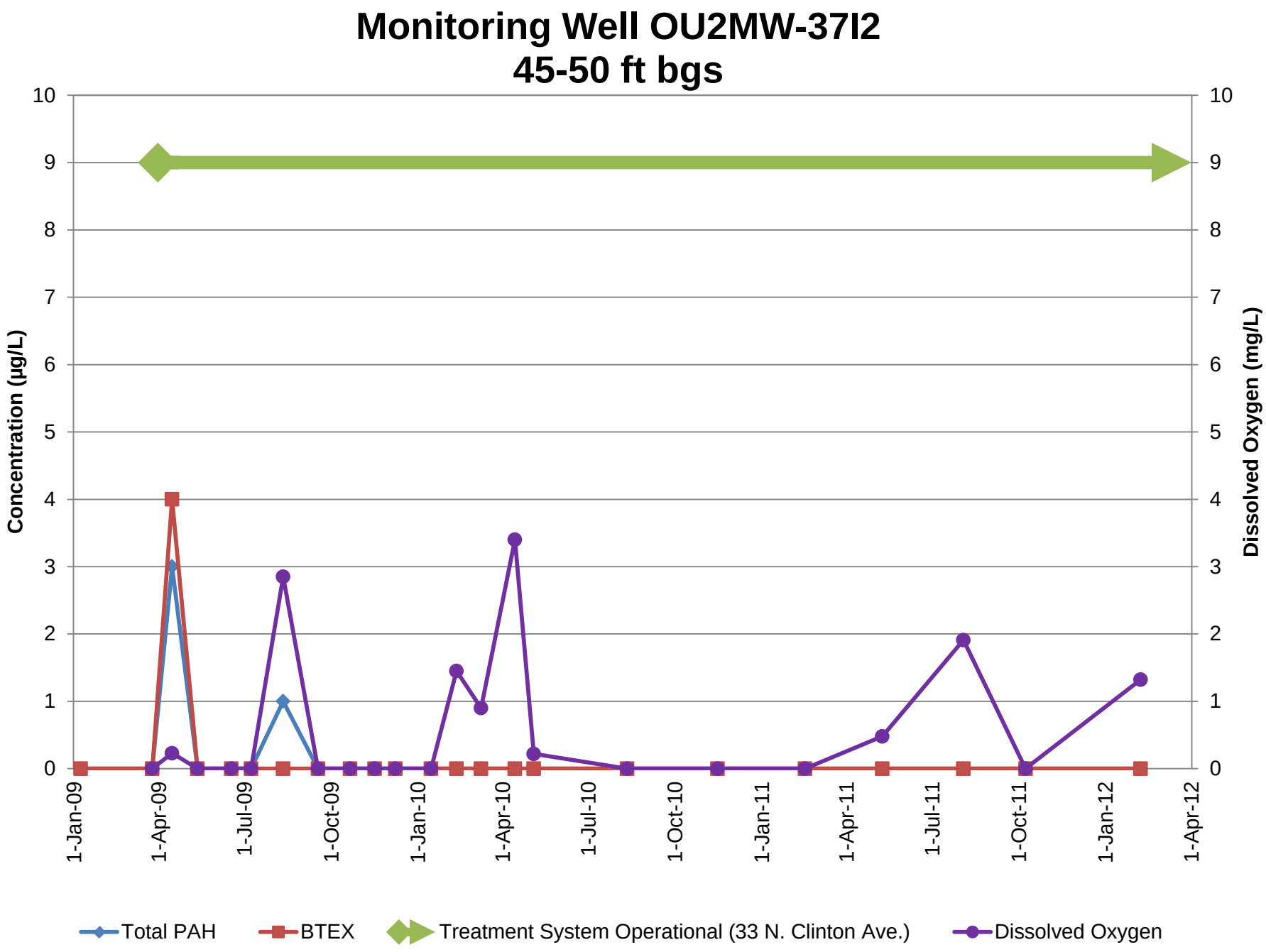


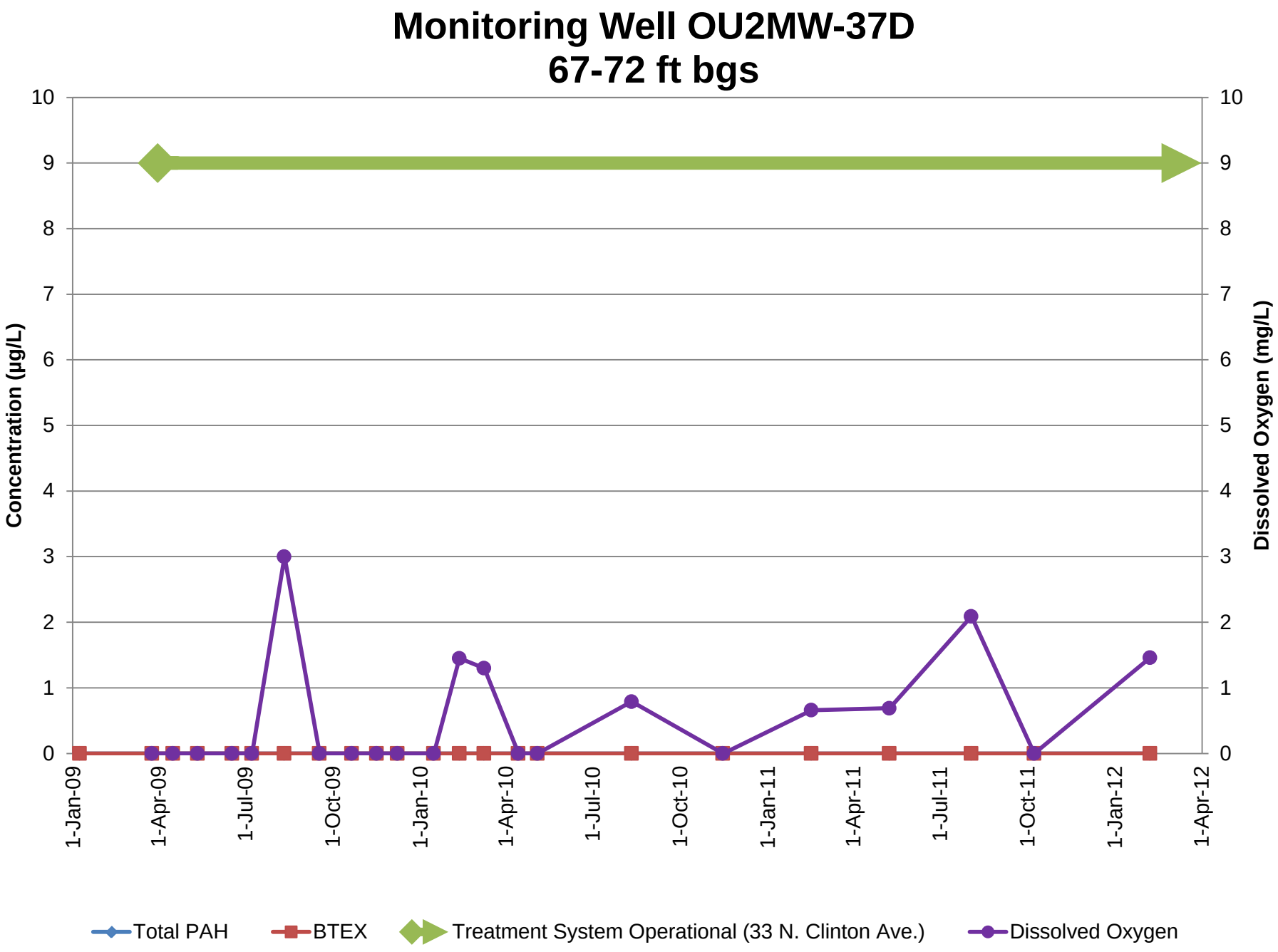
Monitoring Well OU2MW-37S
5-15 ft bgs



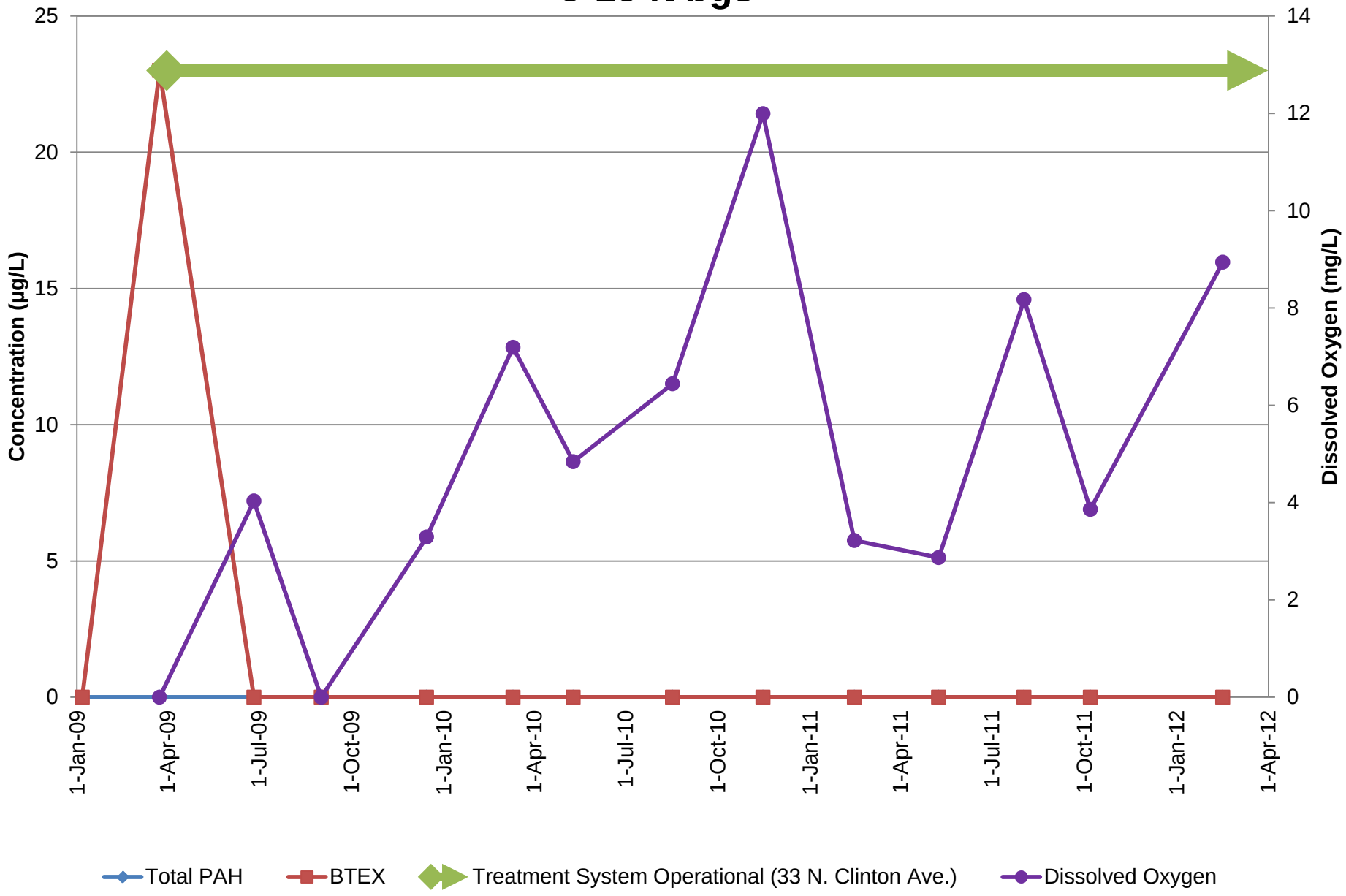
Monitoring Well OU2MW-37I
25-30 ft bgs



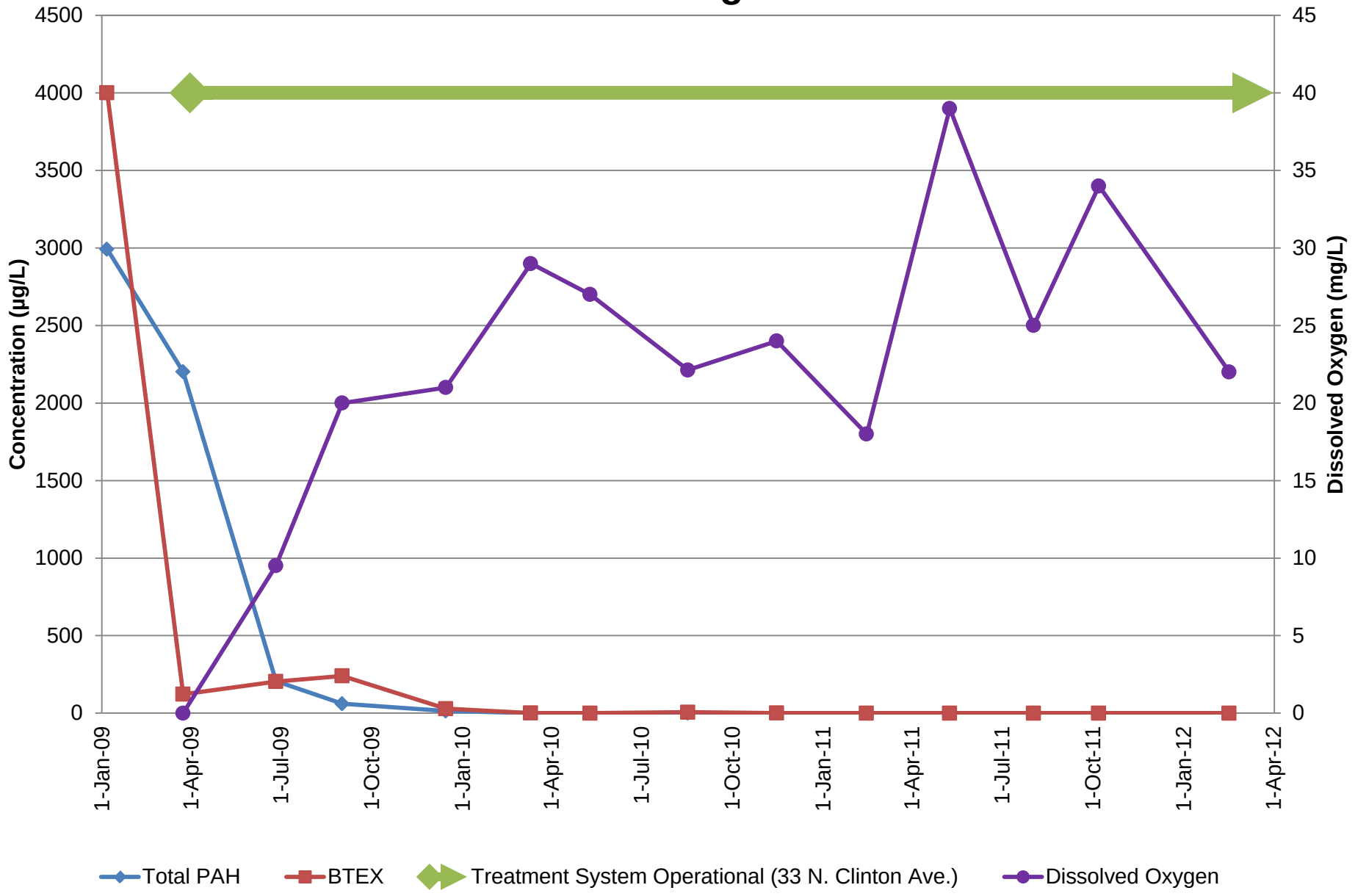

Monitoring Well OU2MW-37I2
45-50 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Jan-09
1-Apr-09
1-Jul-09
1-Oct-09
1-Jan-10
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (33 N. Clinton Ave.)
Dissolved Oxygen


Monitoring Well OU2MW-37D
67-72 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
1-Jan-09
1-Apr-09
1-Jul-09
1-Oct-09
1-Jan-10
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (33 N. Clinton Ave.)
Dissolved Oxygen

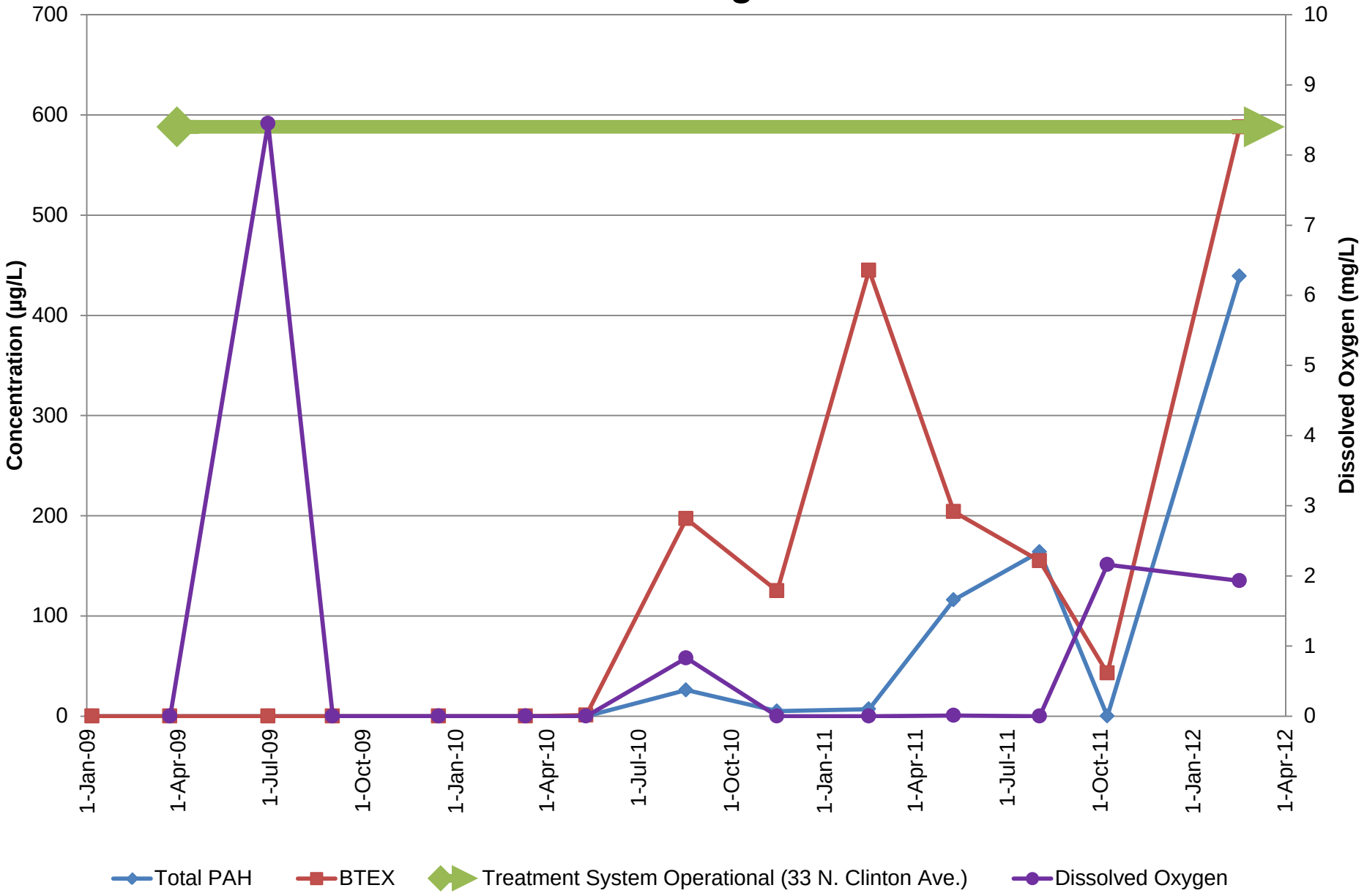
Monitoring Well OU2MW-38S
5-15 ft bgs



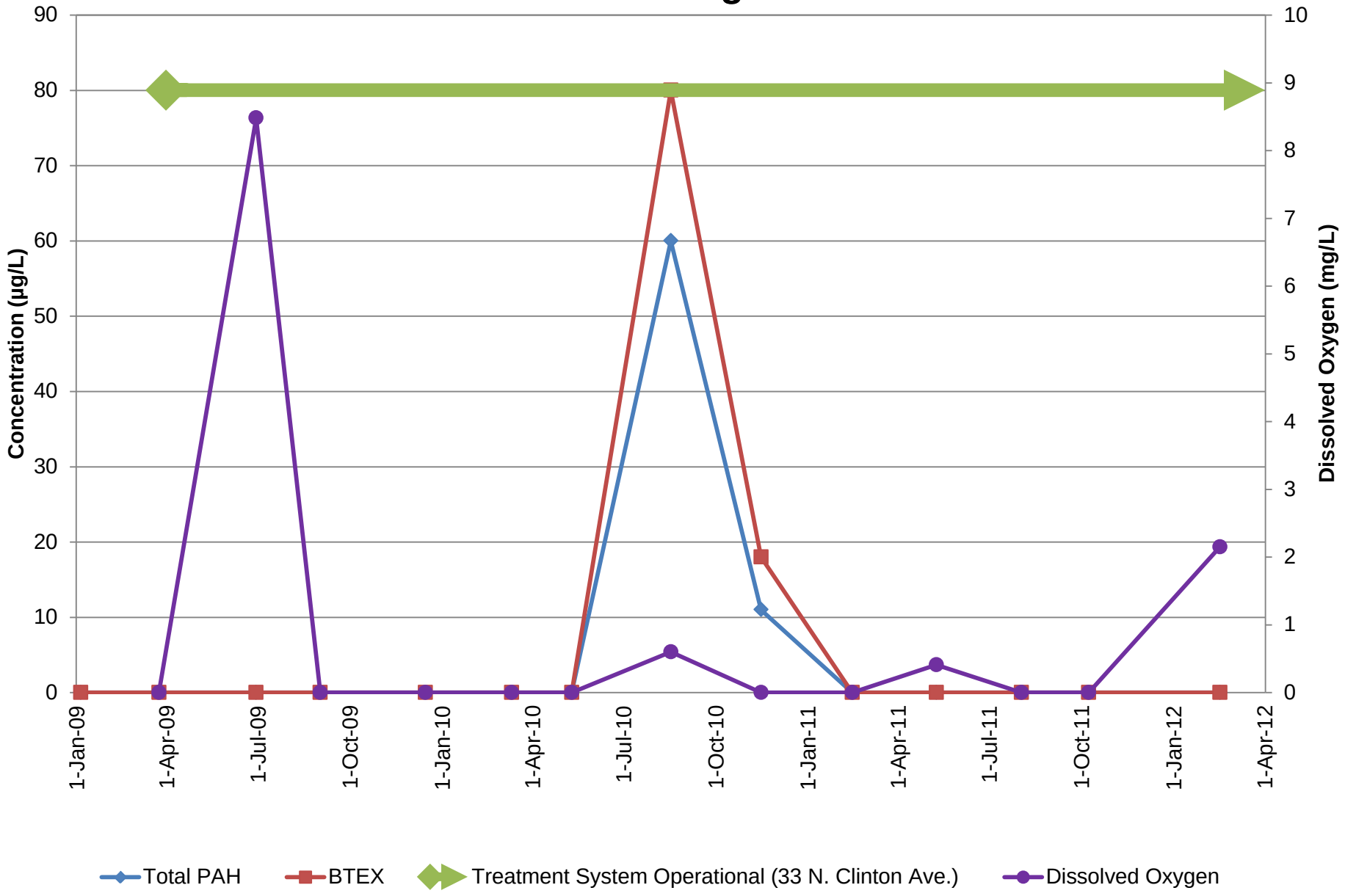
Monitoring Well OU2MW-38I
25-30 ft bgs



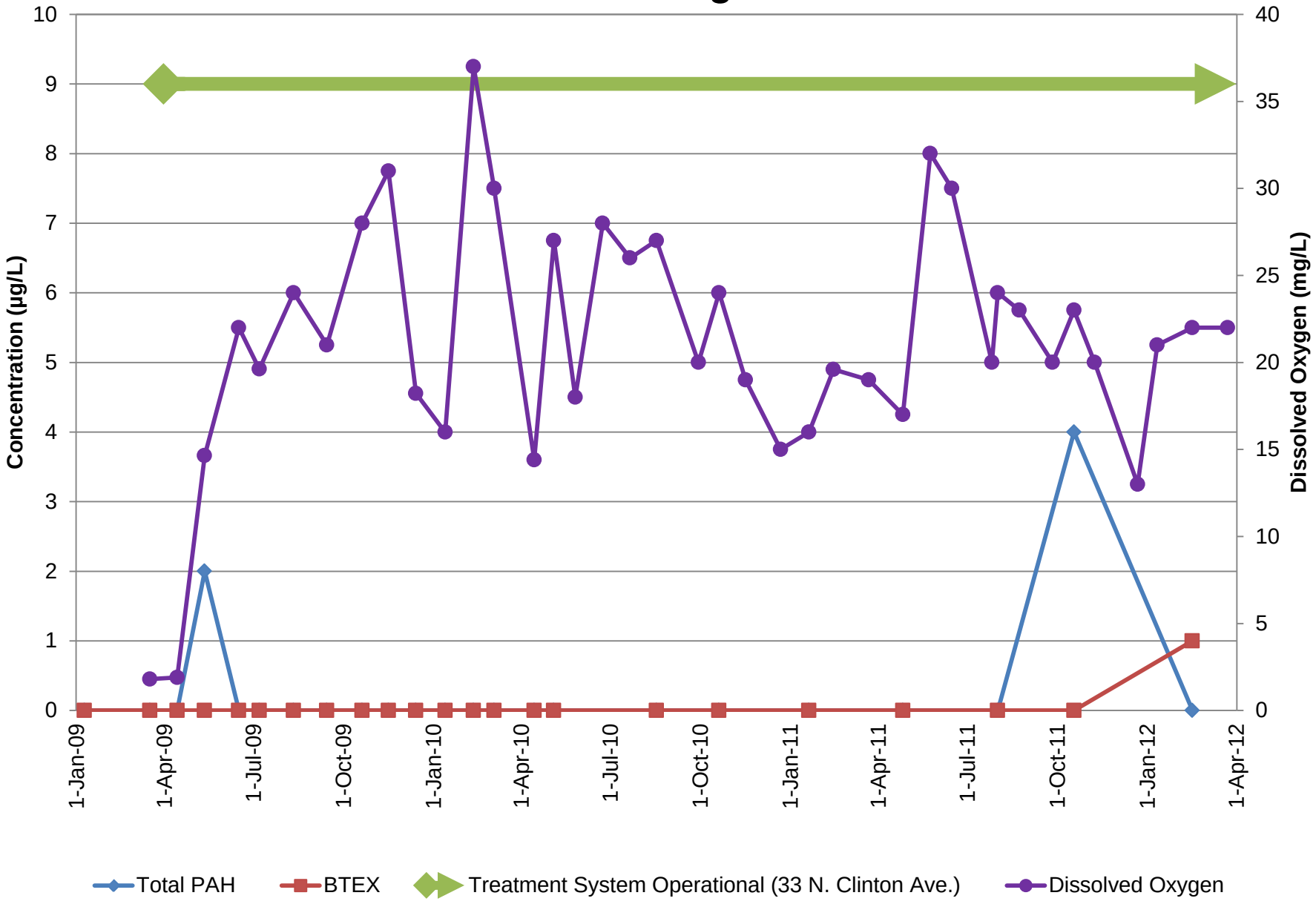
Monitoring Well OU2MW-38I2
46-51 ft bgs



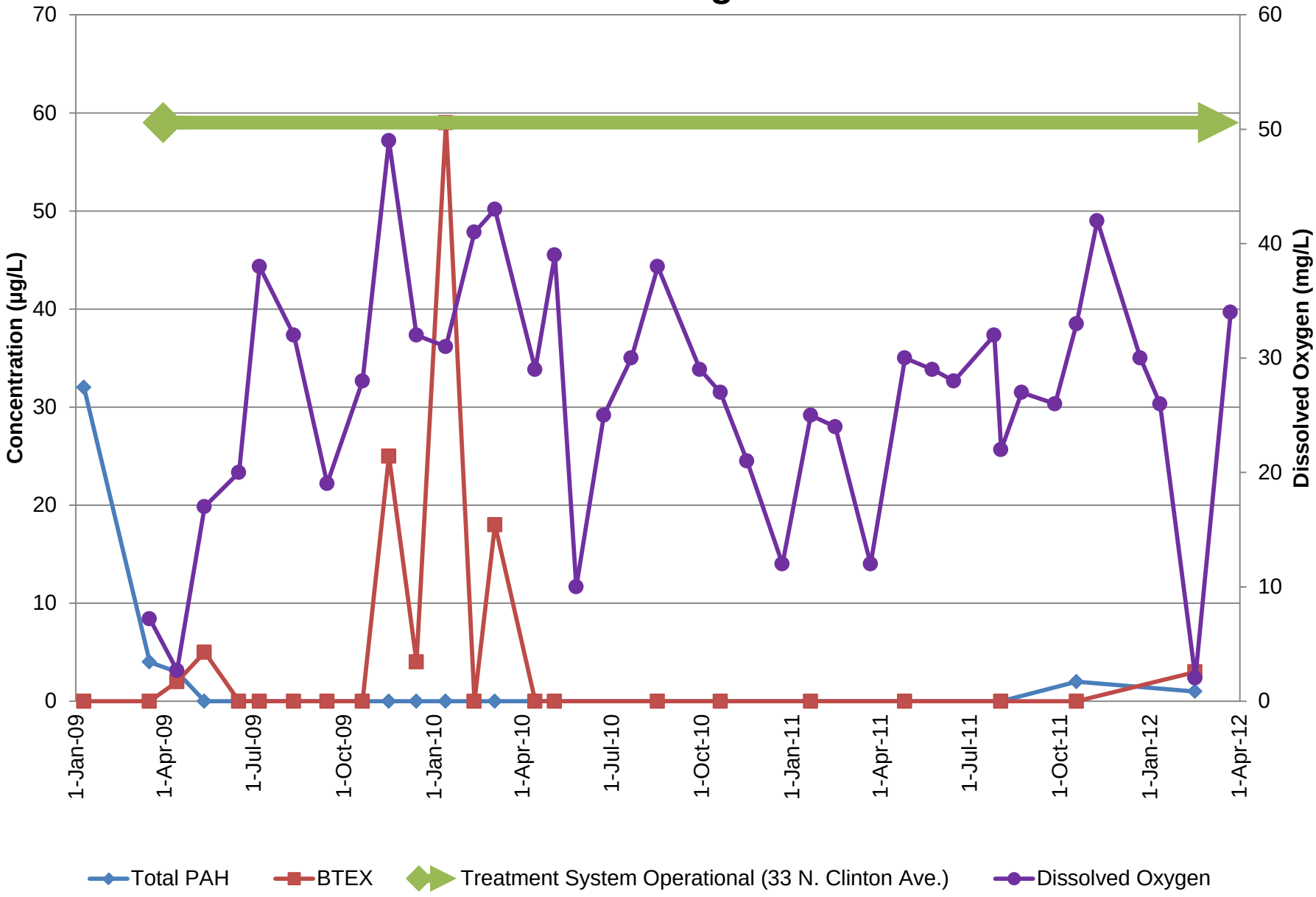
Monitoring Well OU2MW-38D
56-61 ft bgs



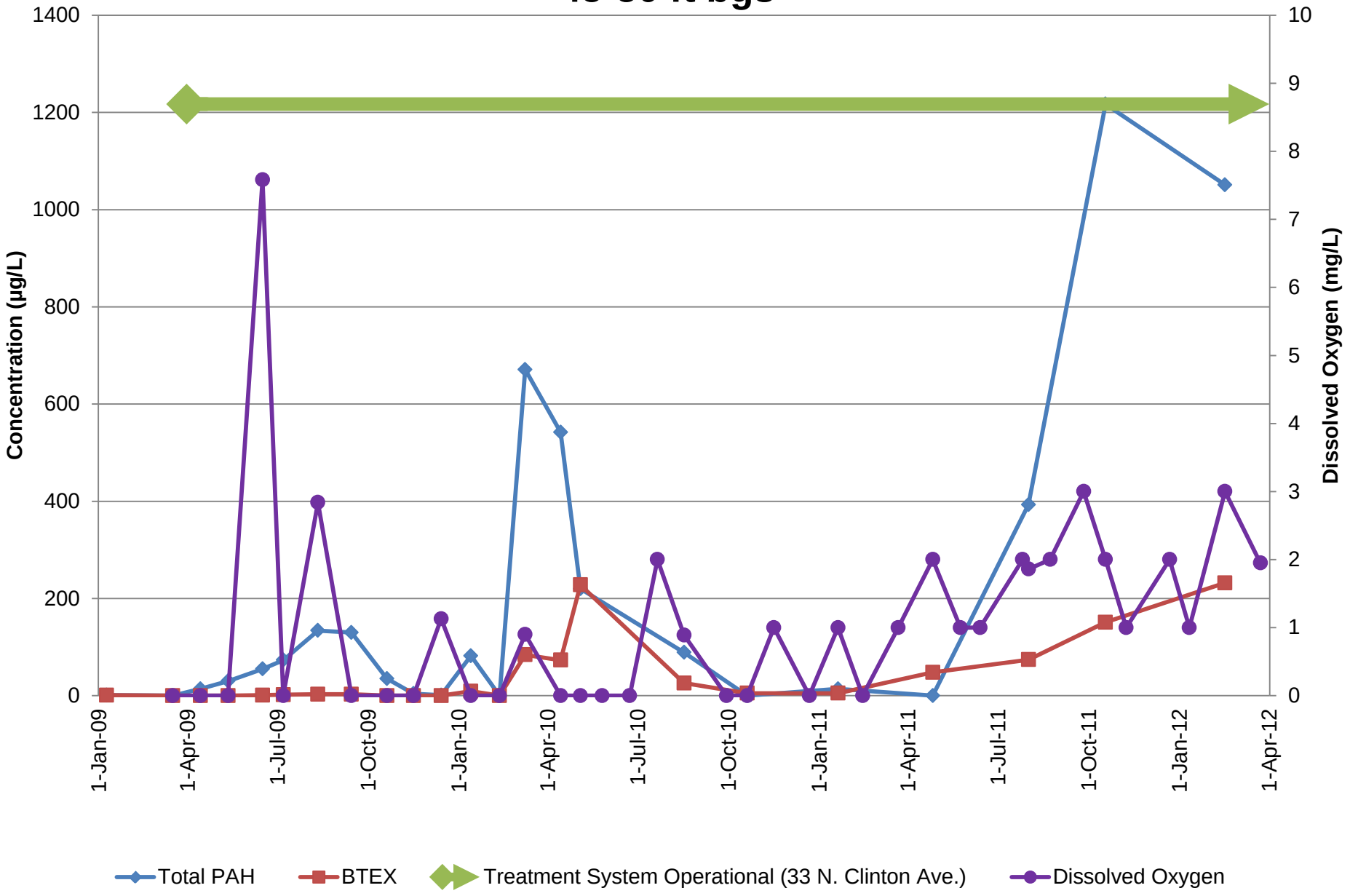
Monitoring Well OU2MW-39S
5-15 ft bgs

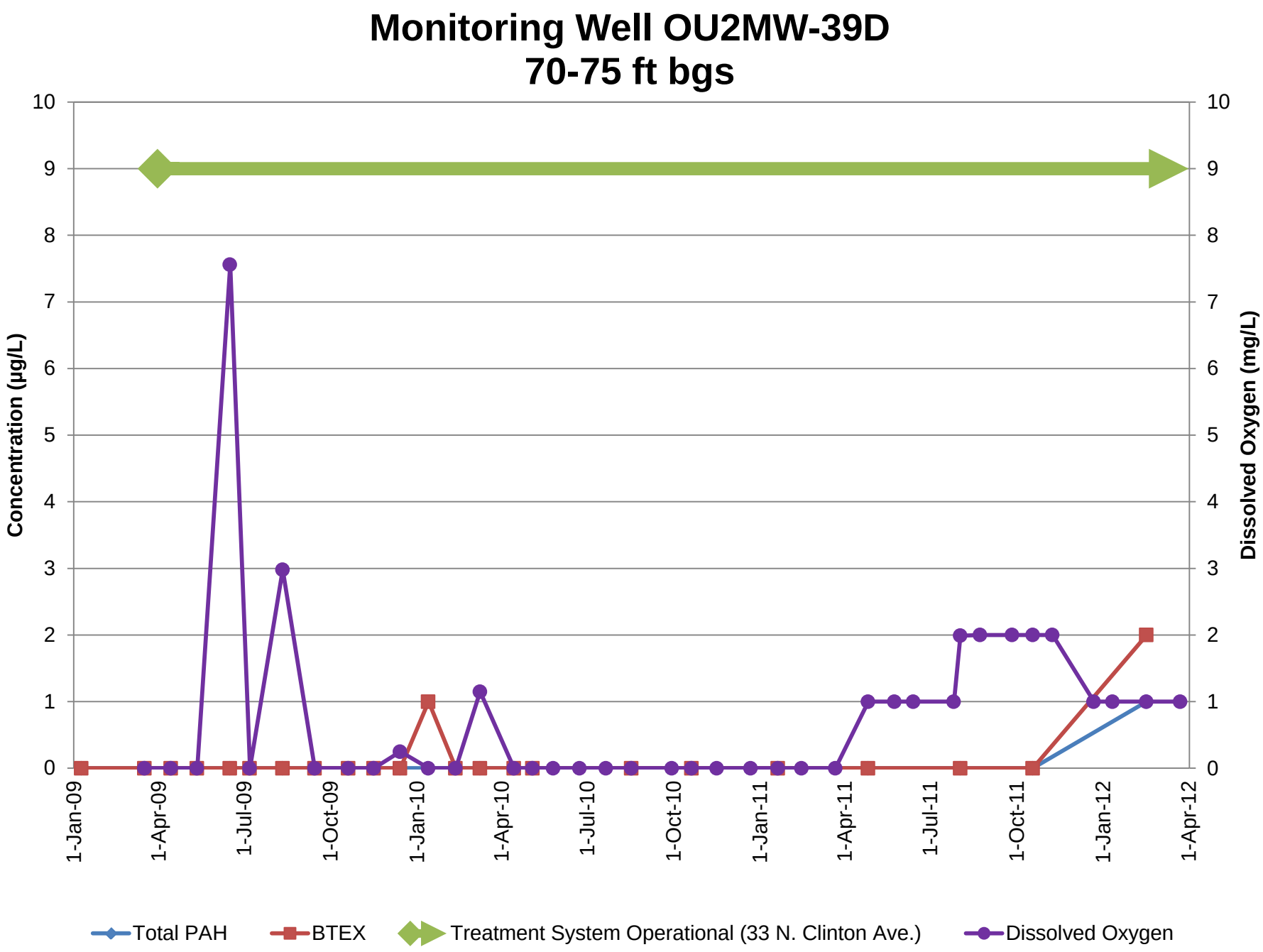


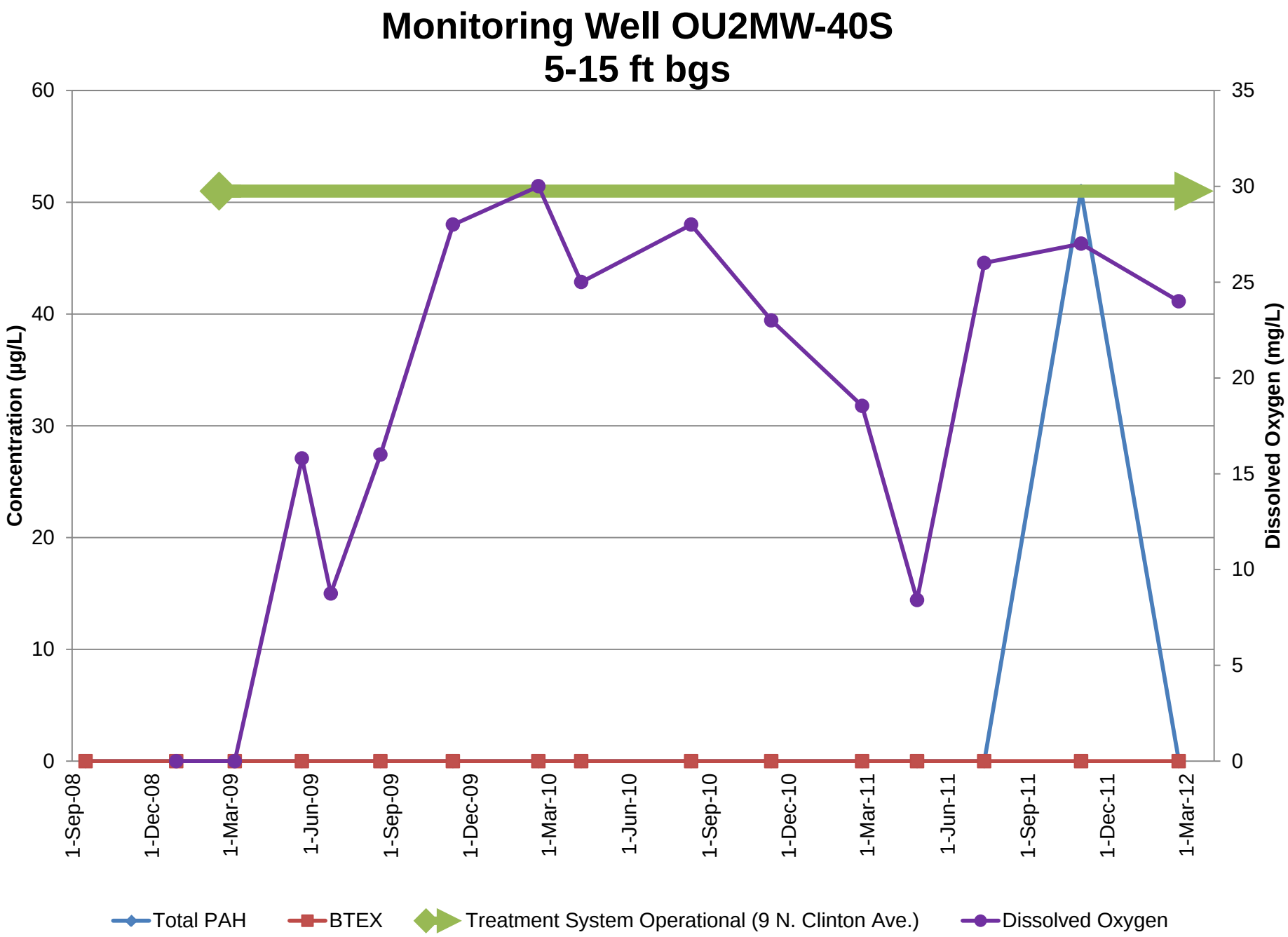
Monitoring Well OU2MW-39I
25-30 ft bgs



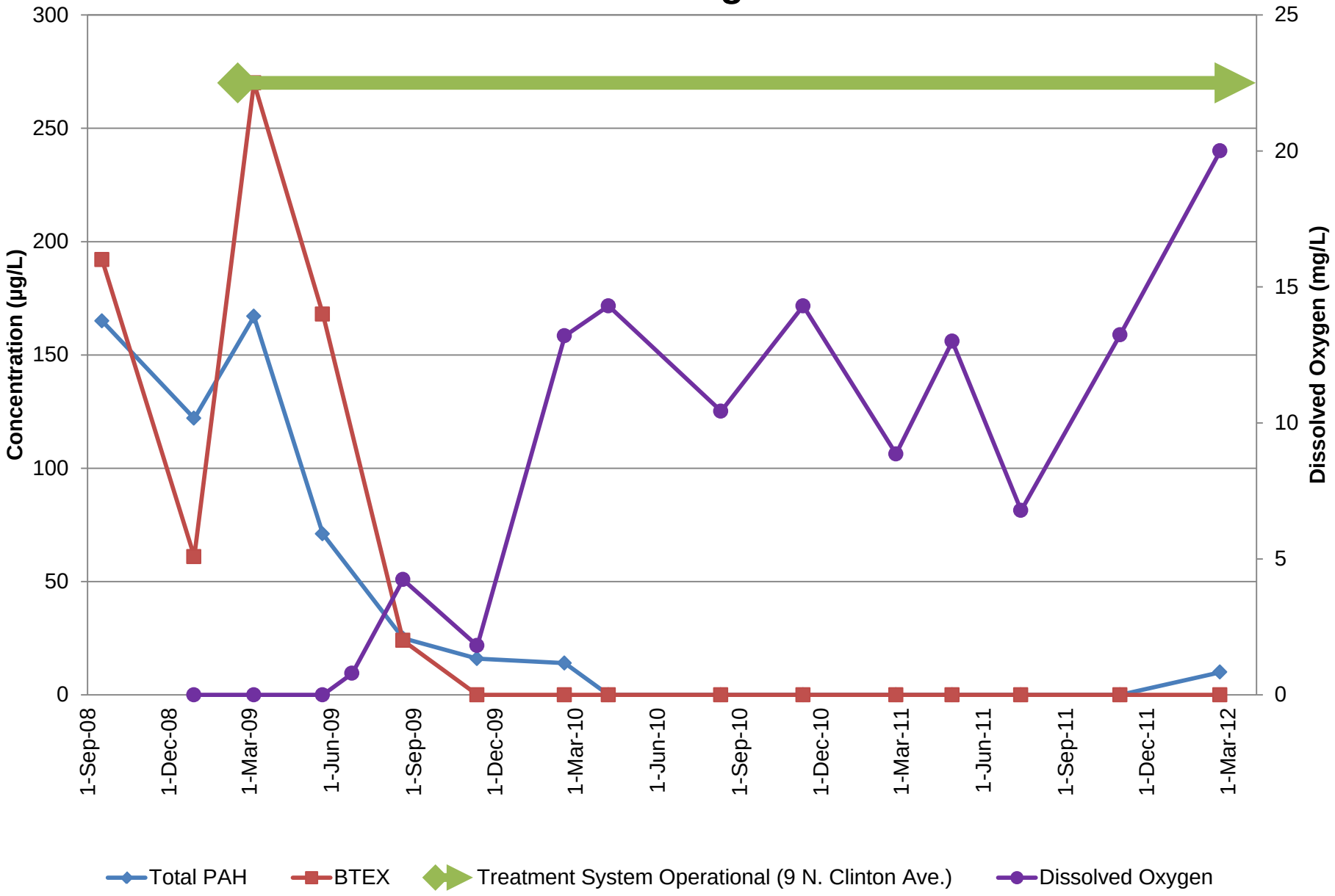
Monitoring Well OU2MW-39I2
45-50 ft bgs



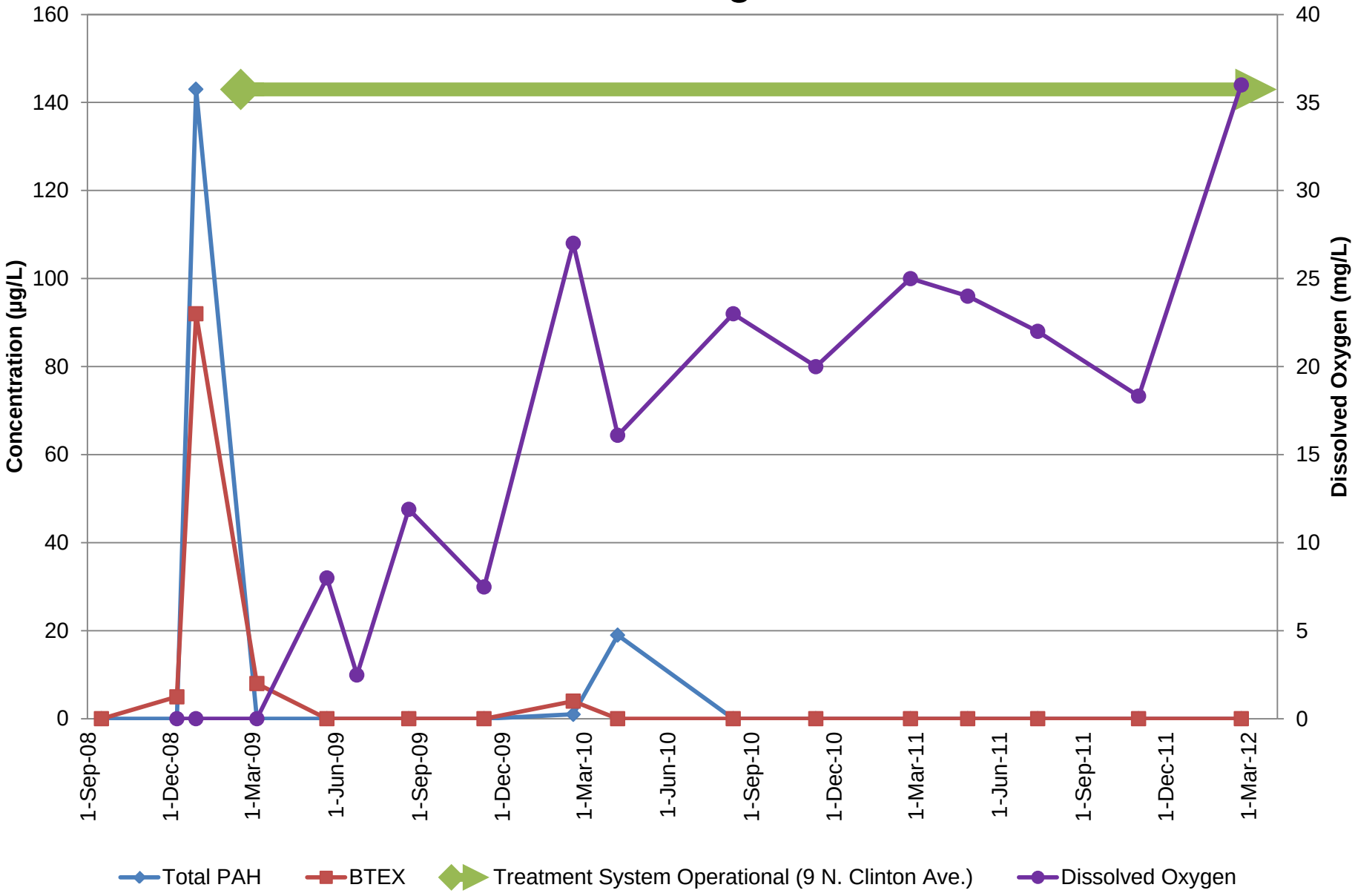

Monitoring Well OU2MW-39D
70-75 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Jan-09
1-Apr-09
1-Jul-09
1-Oct-09
1-Jan-10
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (33 N. Clinton Ave.)
Dissolved Oxygen


Monitoring Well OU2MW-40S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
60
50
40
30
20
10
0
35
30
25
20
15
10
5
0
1-Sep-08
1-Dec-08
1-Mar-09
1-Jun-09
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
Total PAH
BTEX
Treatment System Operational (9 N. Clinton Ave.)
Dissolved Oxygen

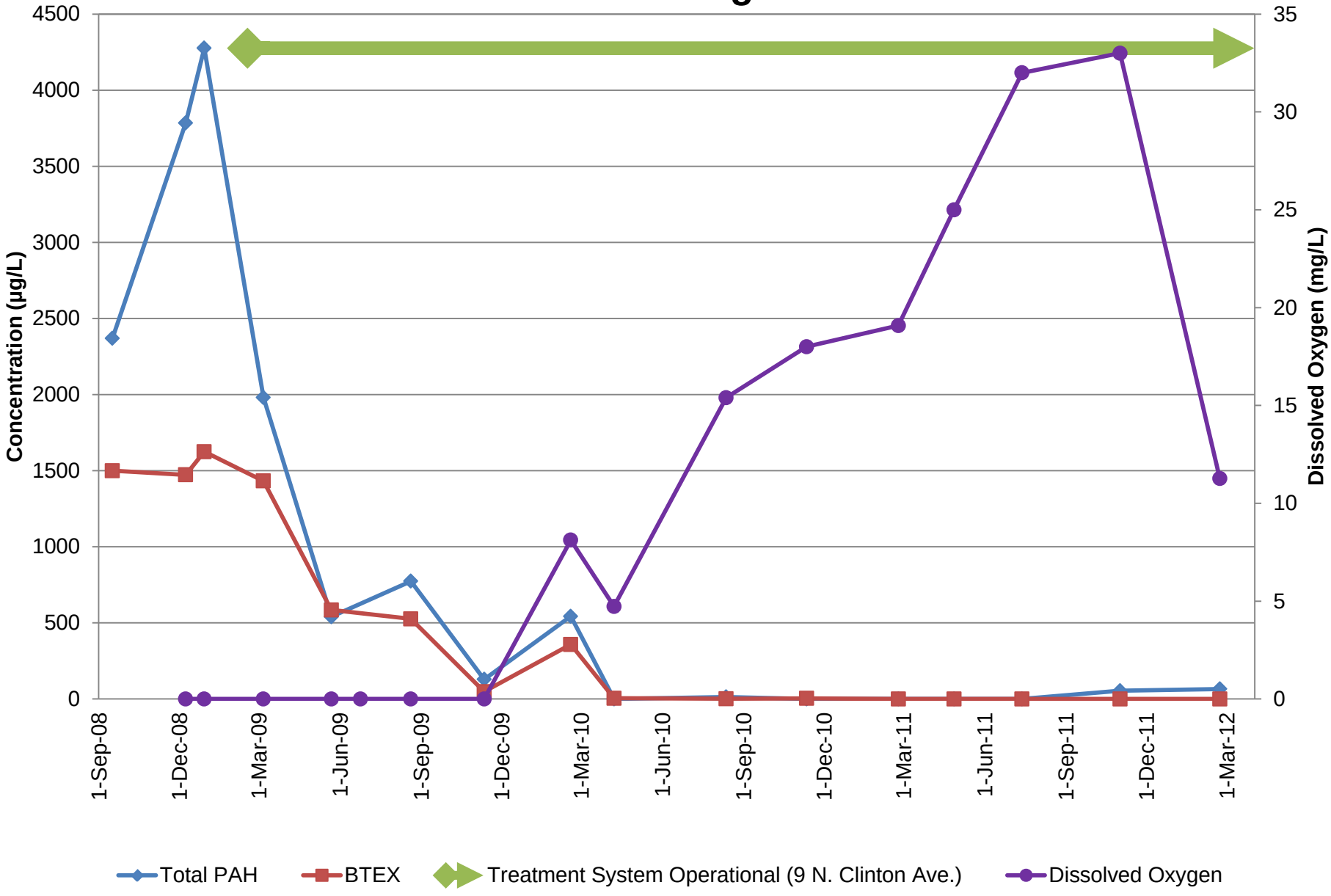
Monitoring Well OU2MW-40I
18-23 ft bgs

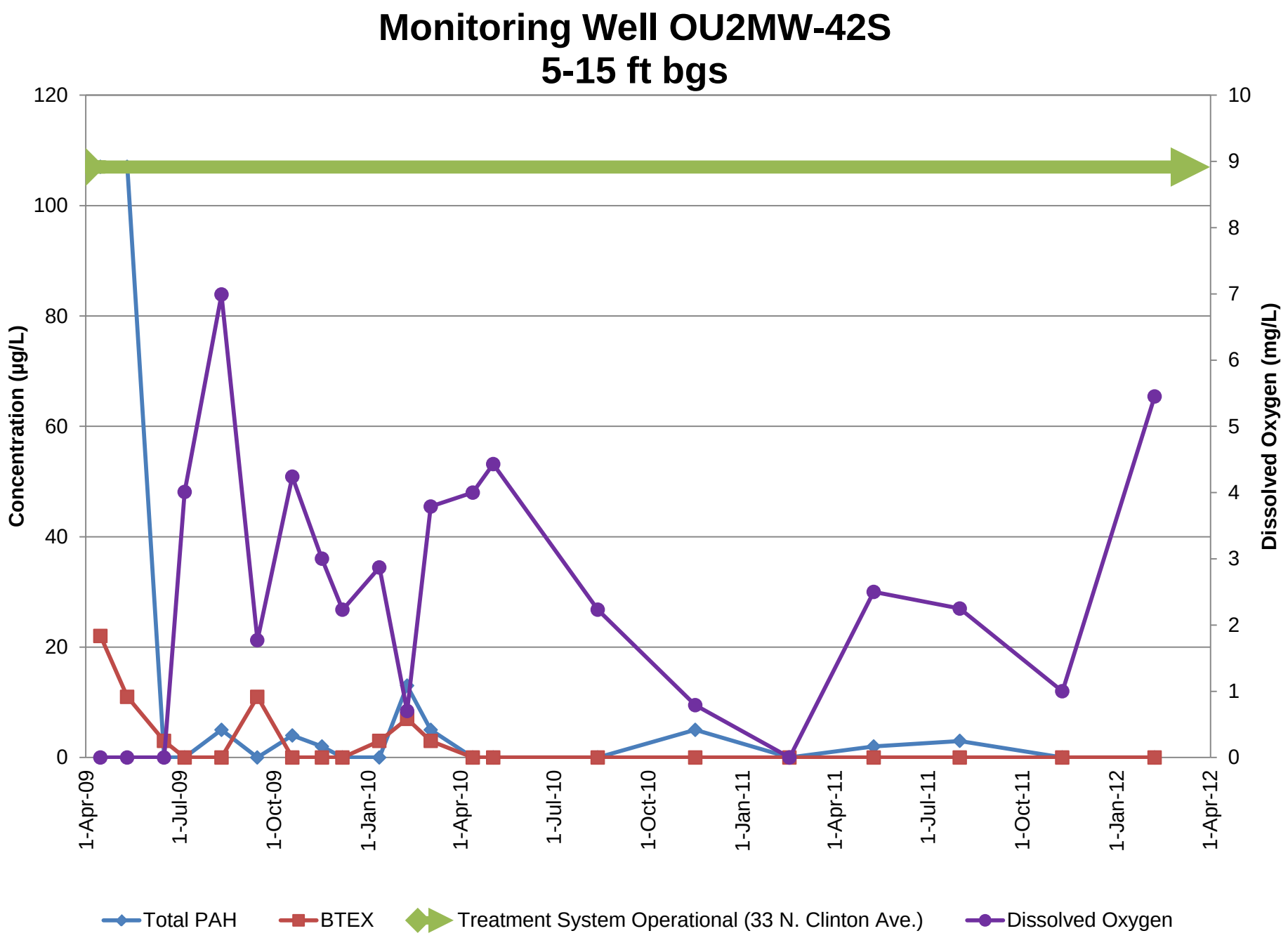


Monitoring Well OU2MW-41S
5-15 ft bgs

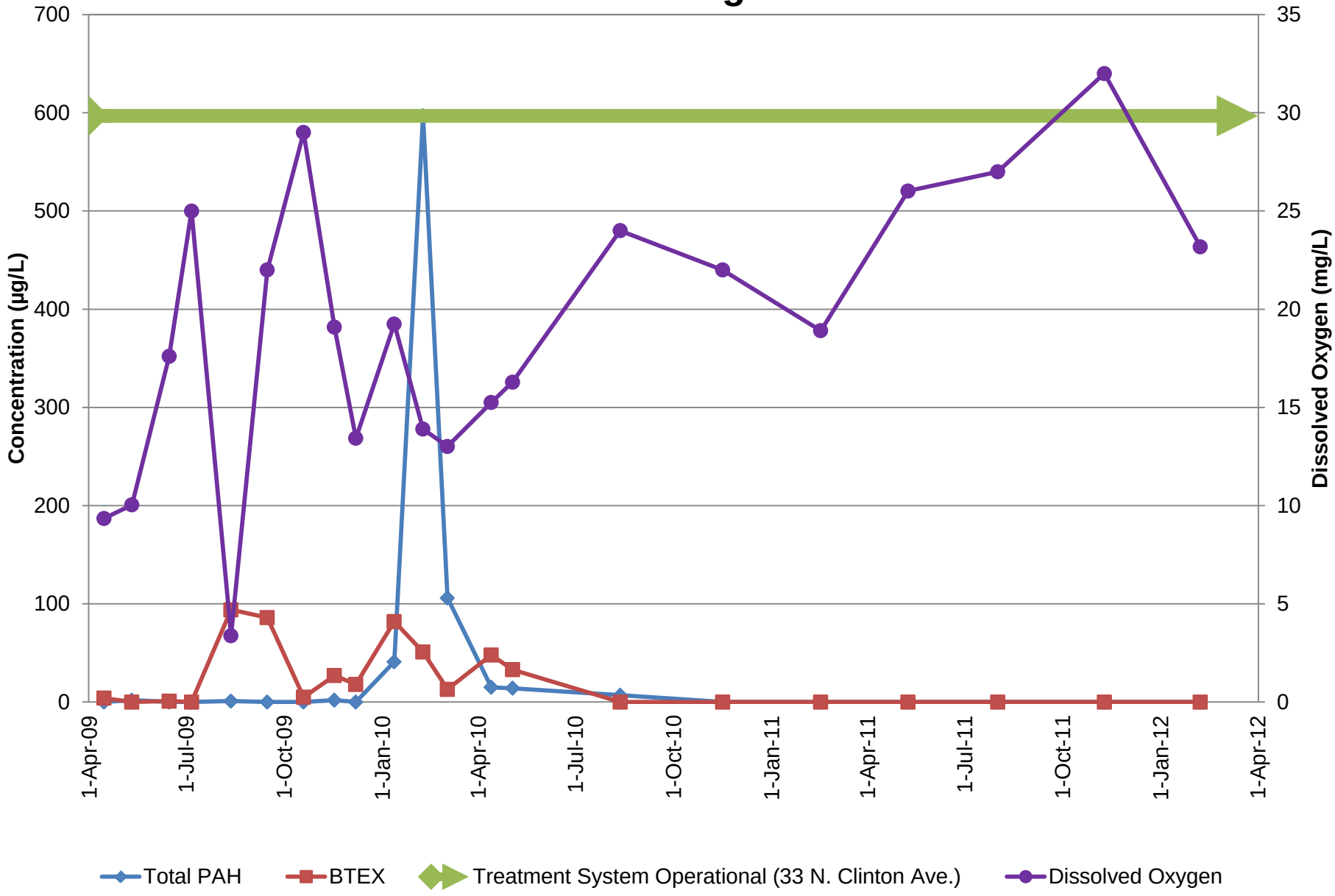


Monitoring Well OU2MW-41I
18-23 ft bgs

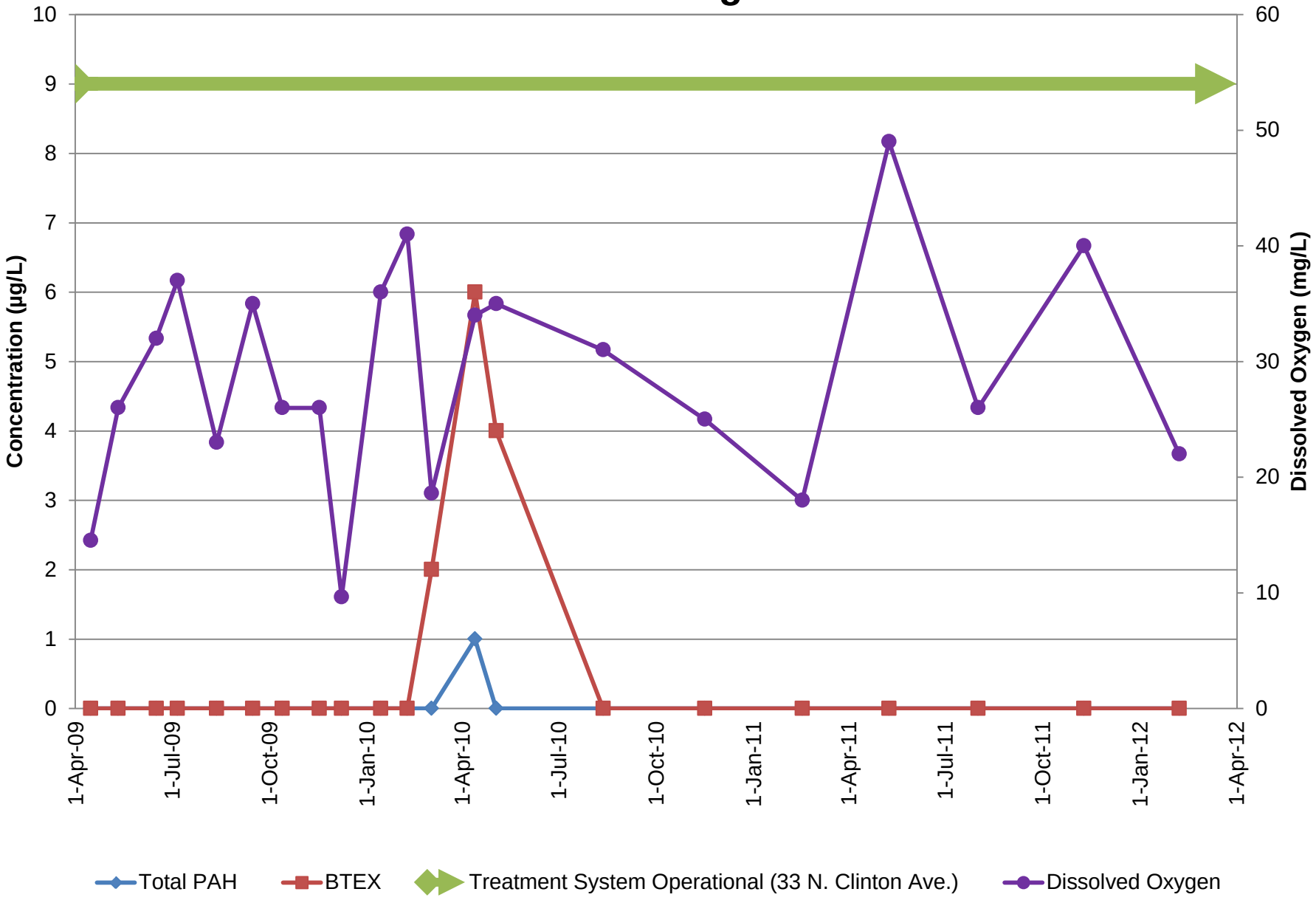



Monitoring Well OU2MW-42S
5-15 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
120
100
80
60
40
20
0
10
9
8
7
6
5
4
3
2
1
0
1-Apr-09
1-Jul-09
1-Oct-09
1-Jan-10
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (33 N. Clinton Ave.)
Dissolved Oxygen

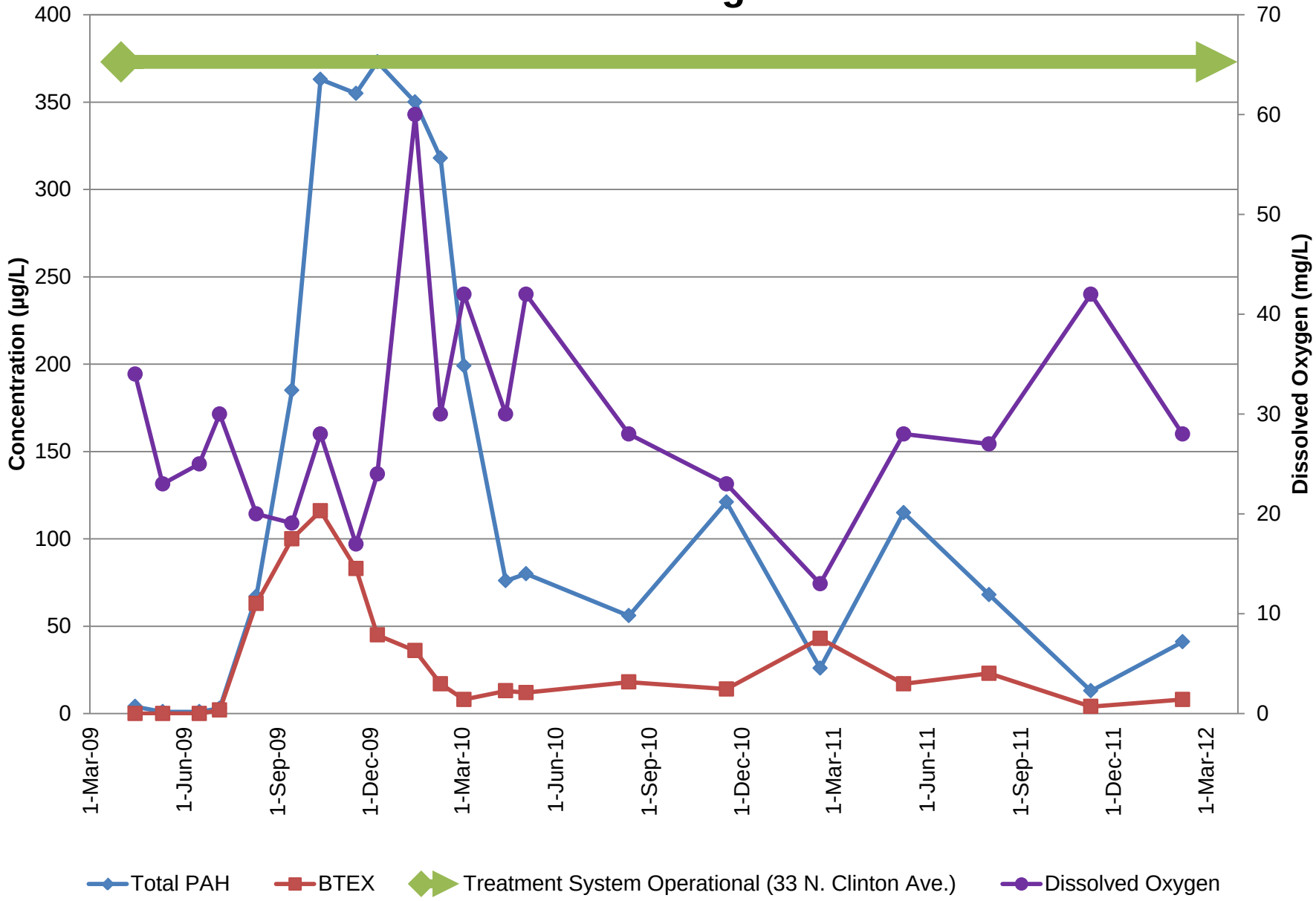
Monitoring Well OU2MW-42I
25-30 ft bgs



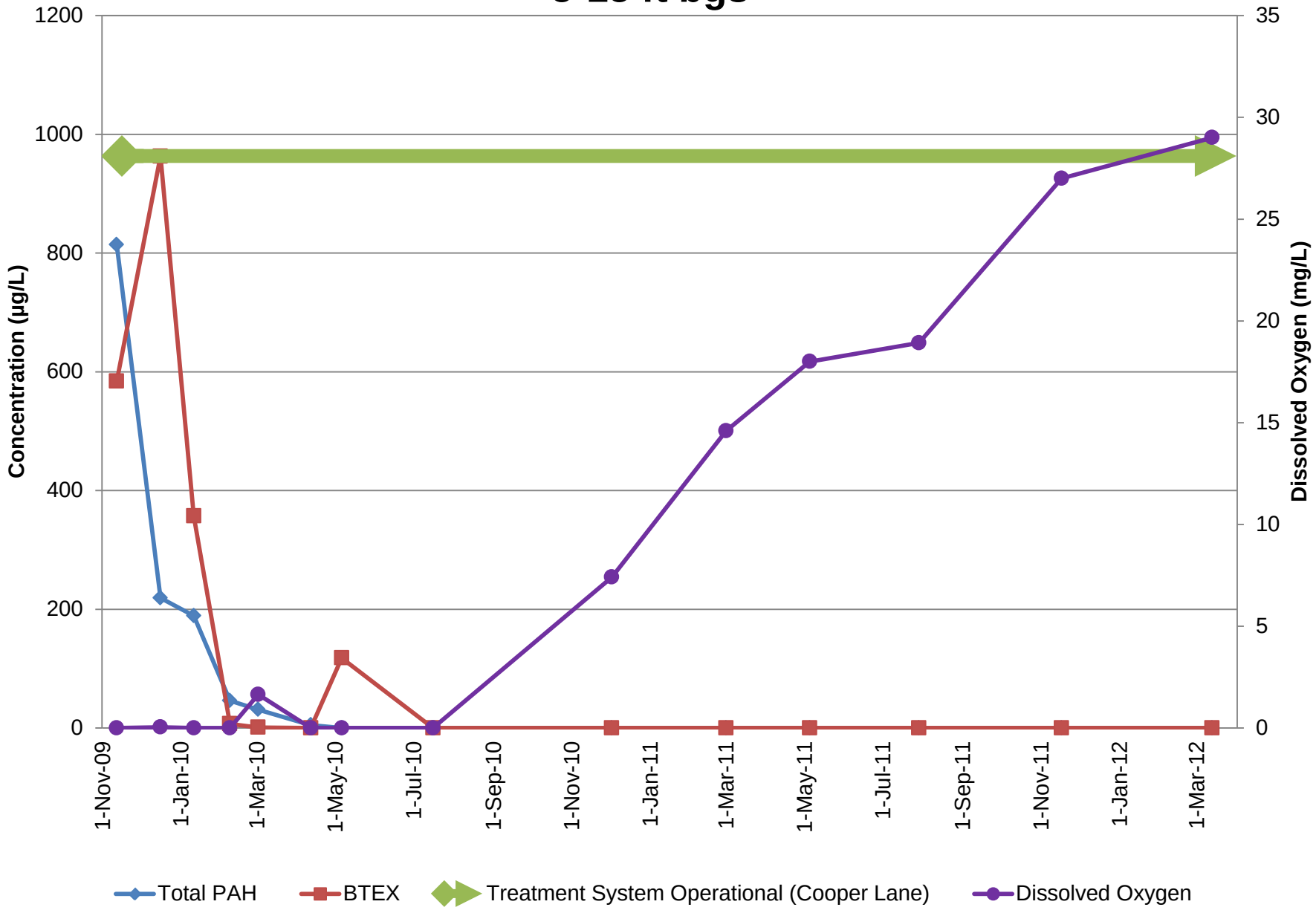
Monitoring Well OU2MW-42I2
40-45 ft bgs



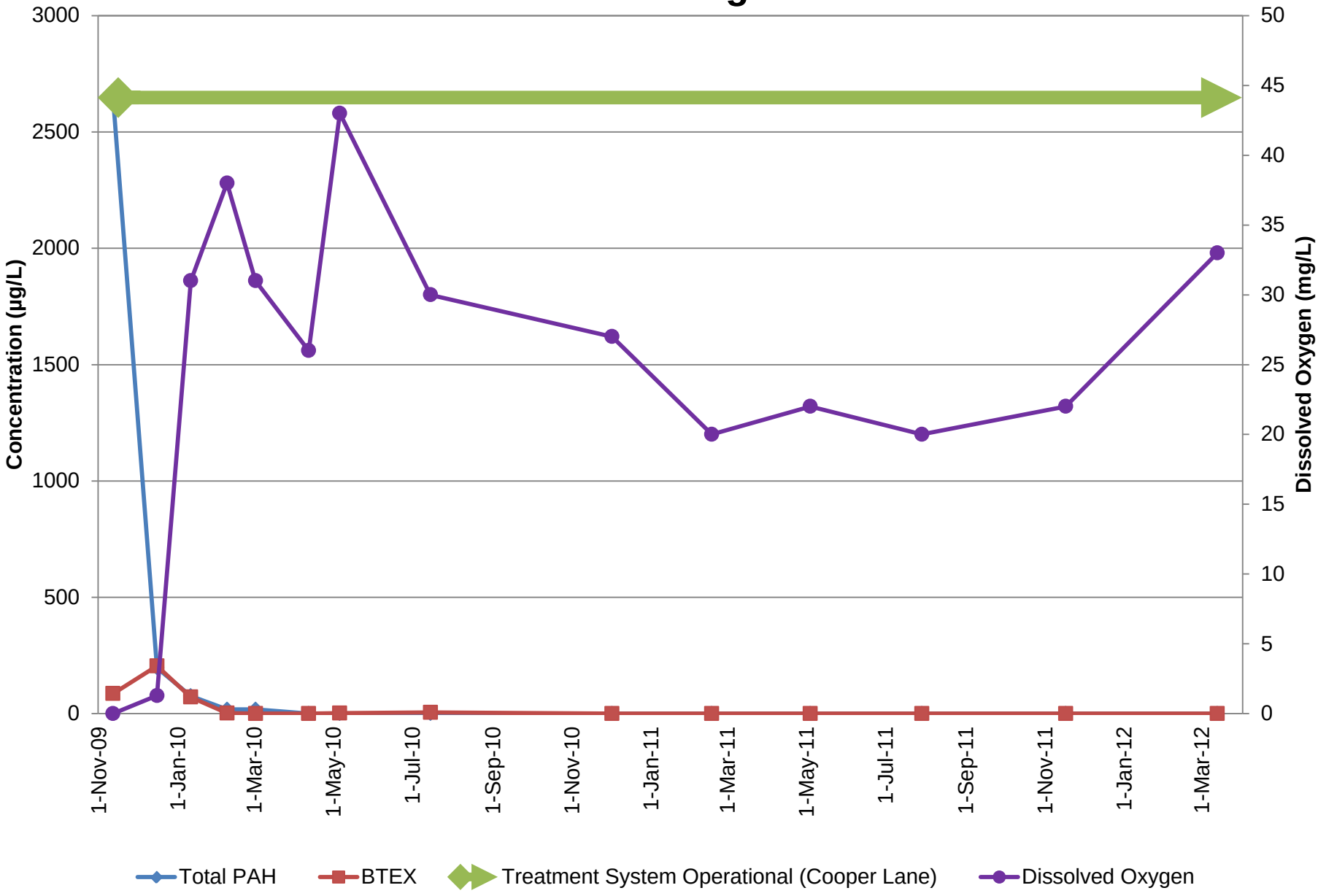
Monitoring Well OU2MW-42D
60-65 ft bgs



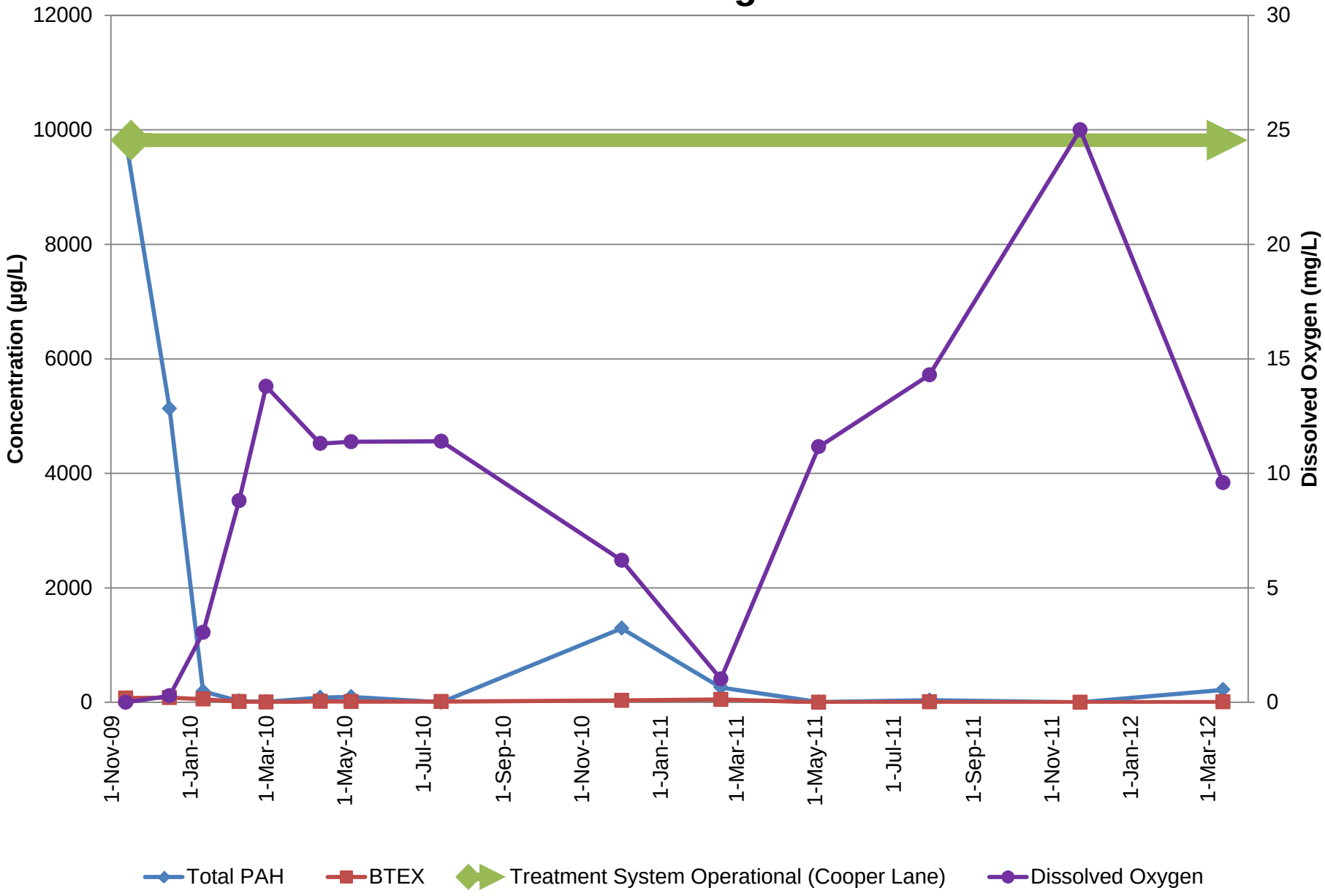
Monitoring Well OU2MW-43S
5-15 ft bgs



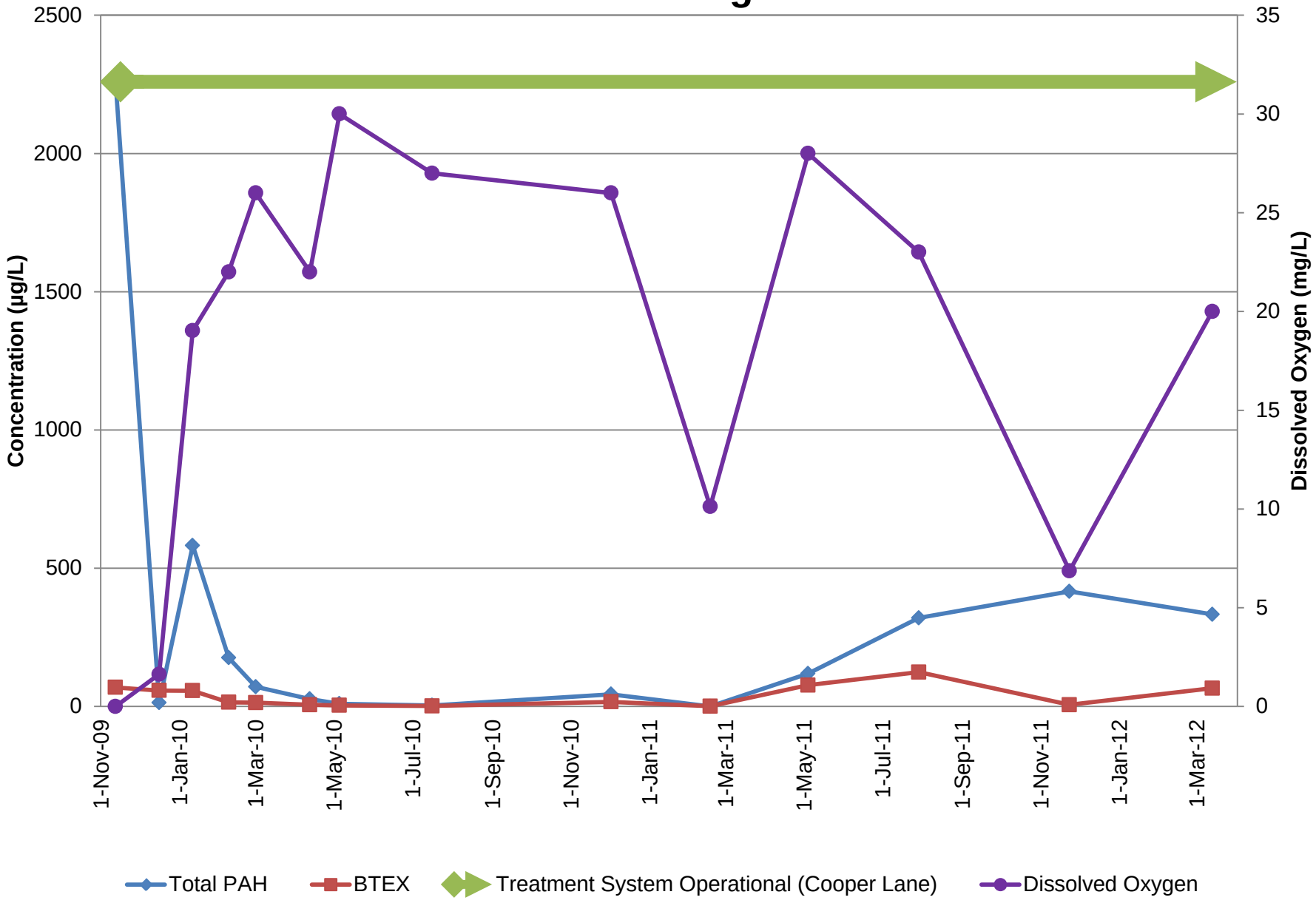
Monitoring Well OU2MW-43I
25-30 ft bgs



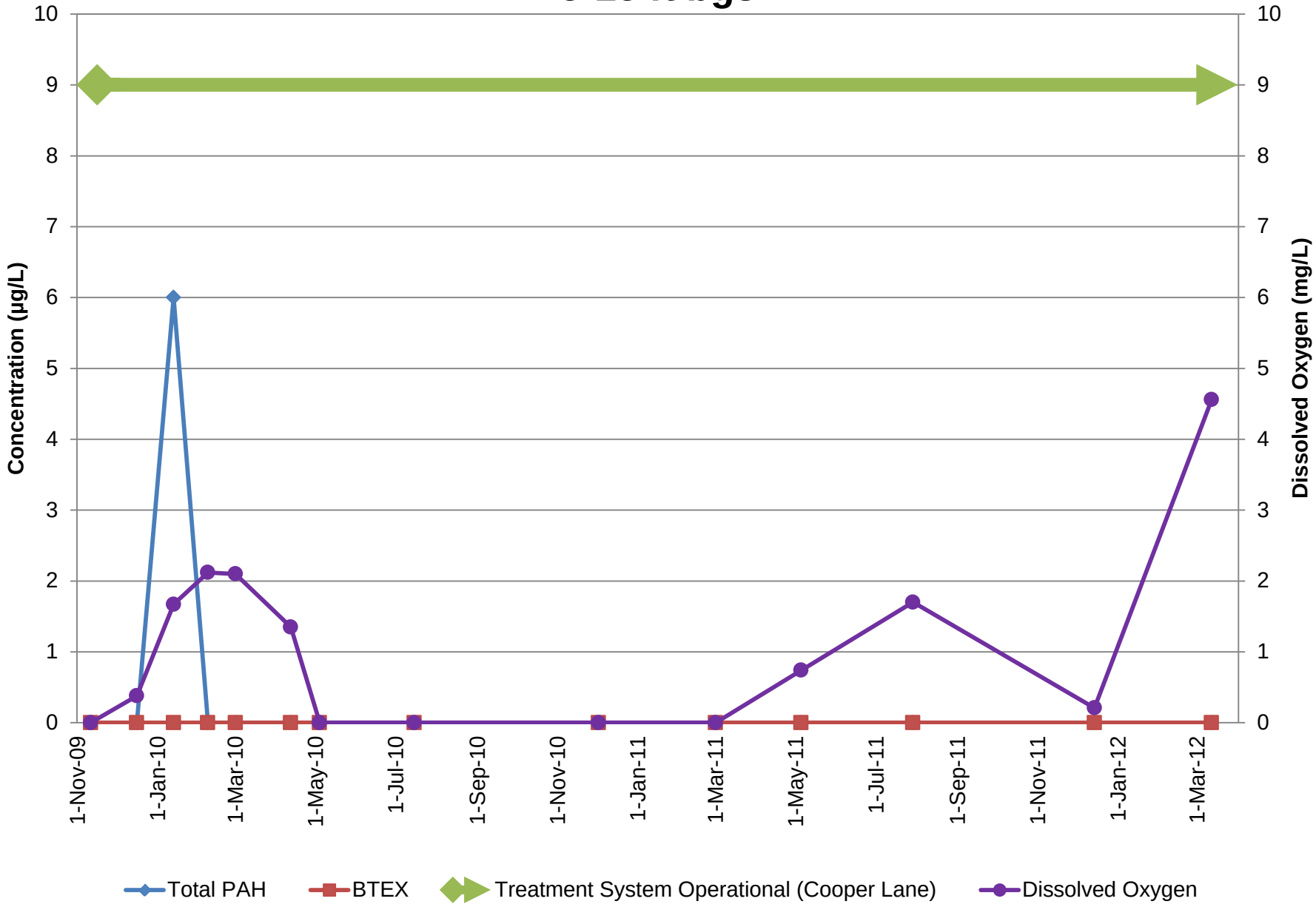
Monitoring Well OU2MW-43I2
45-50 ft bgs



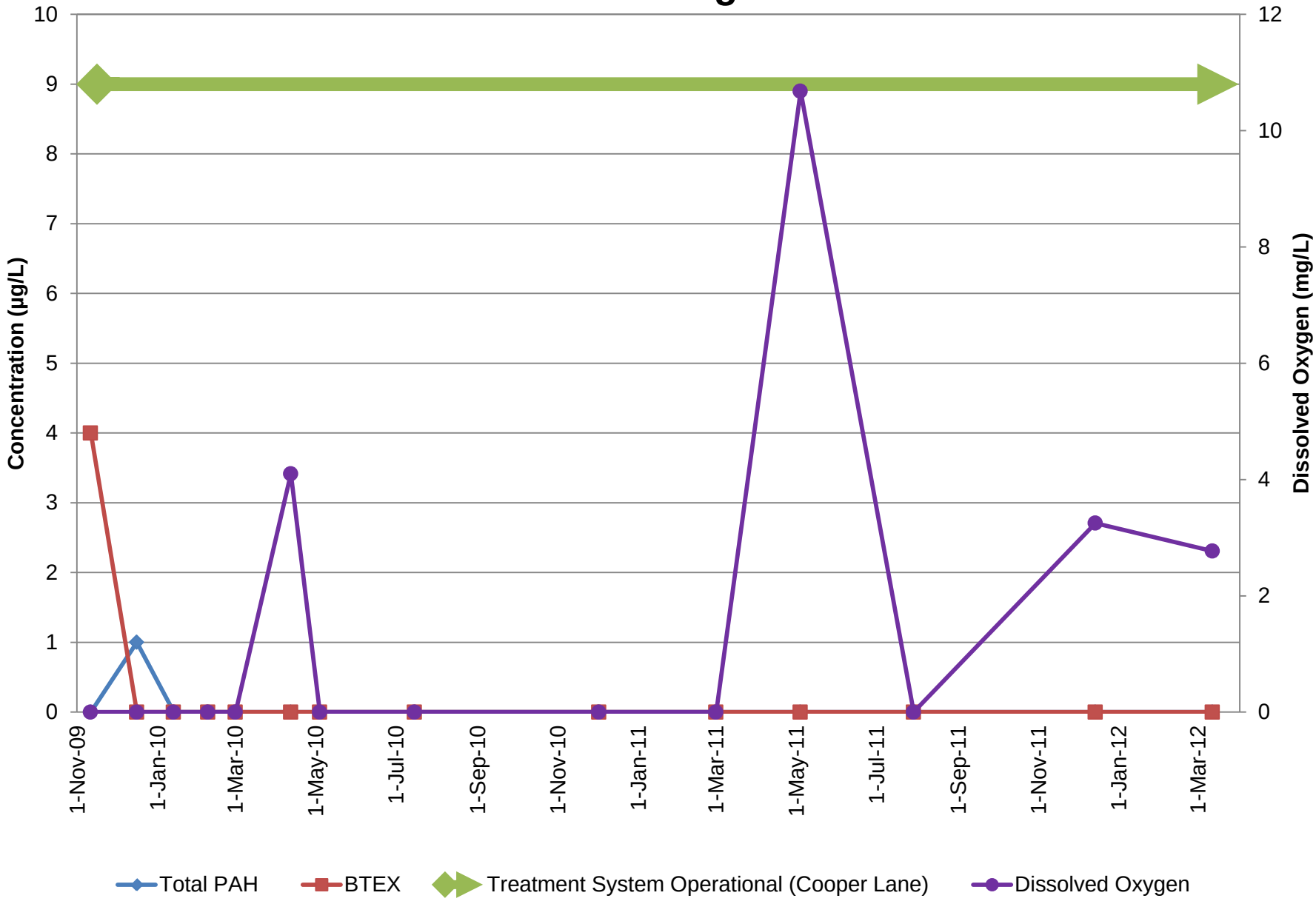
Monitoring Well OU2MW-43D
65-70 ft bgs



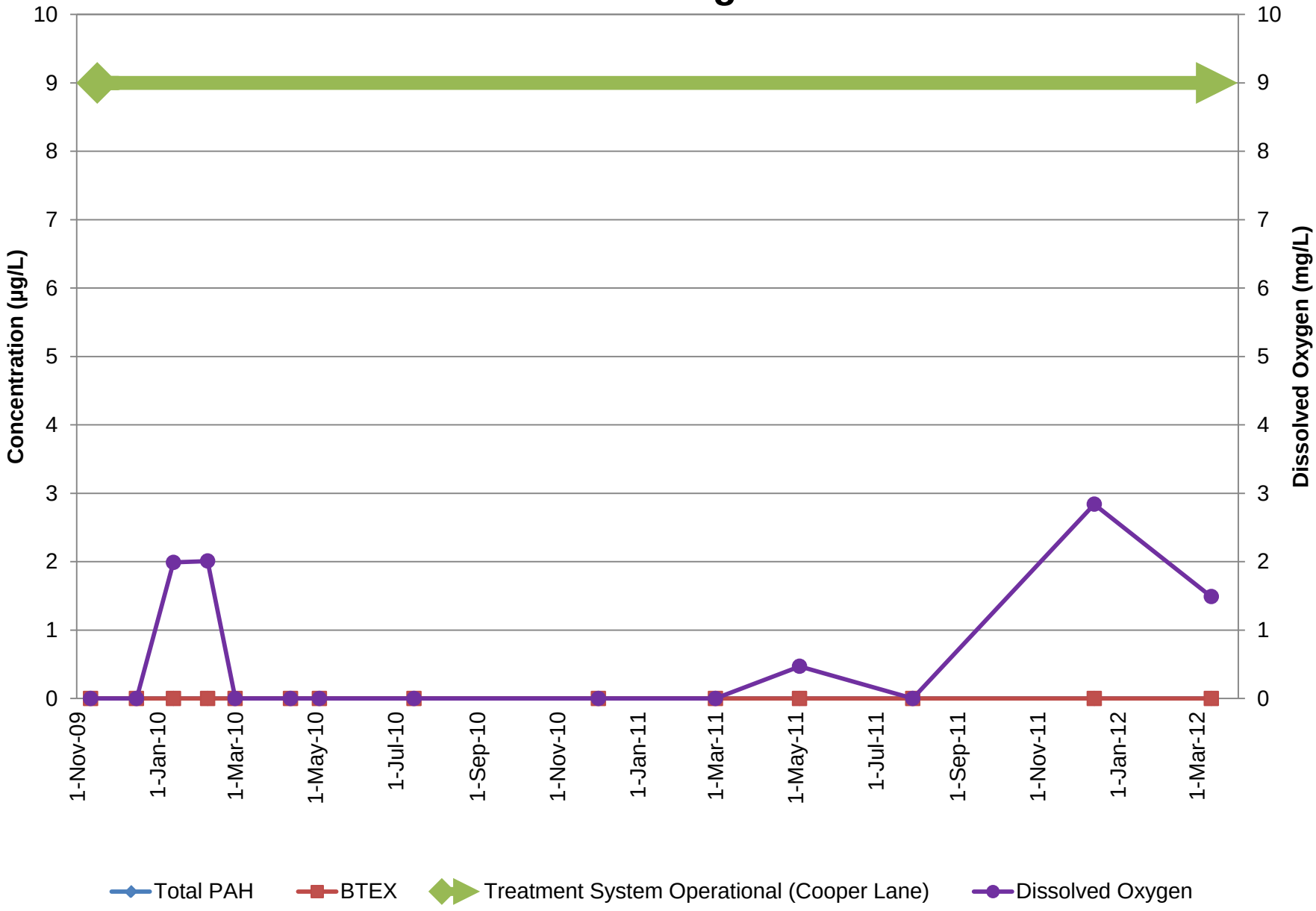
Monitoring Well OU2MW-44S
5-15 ft bgs



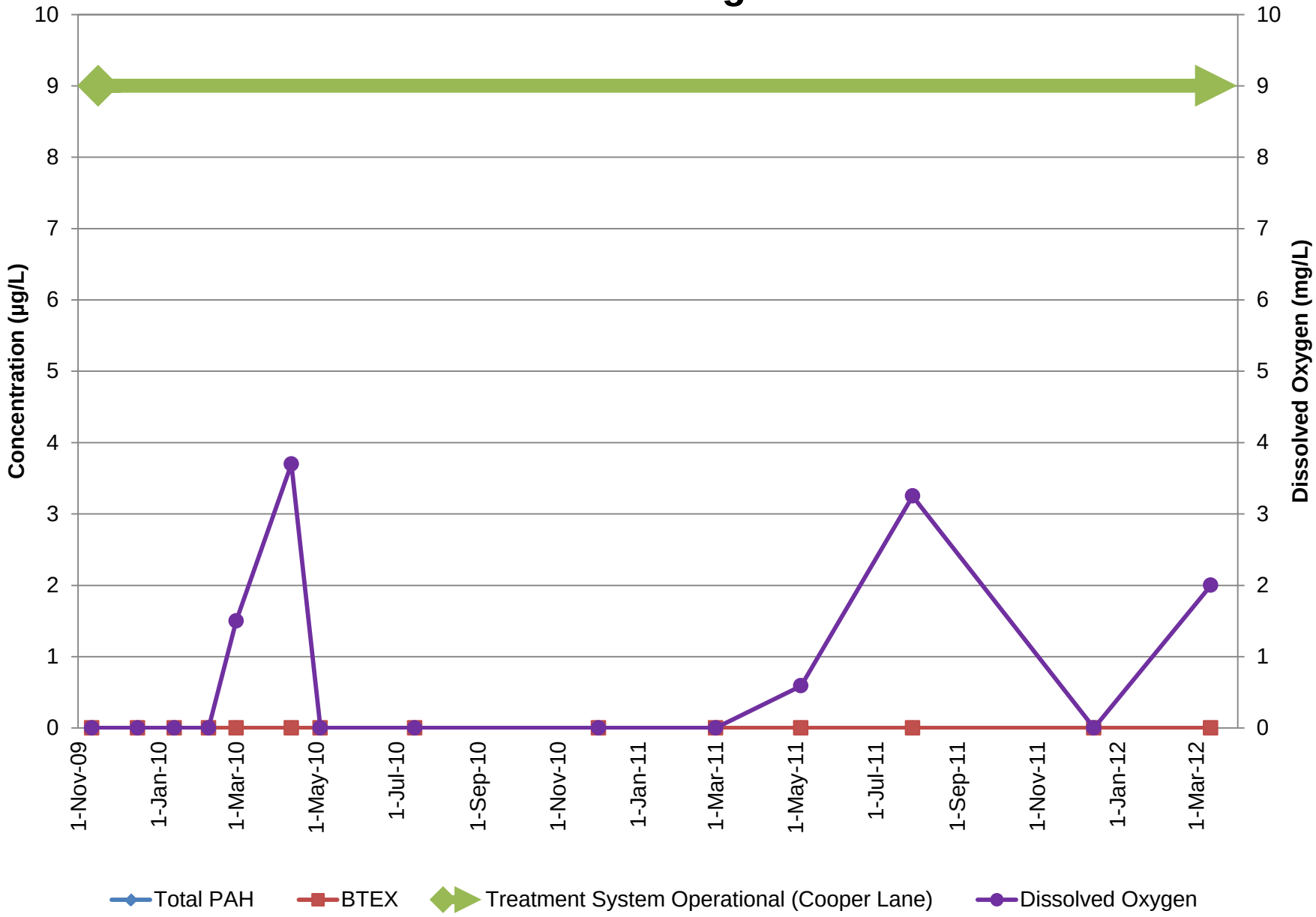
Monitoring Well OU2MW-44I
25-30 ft bgs



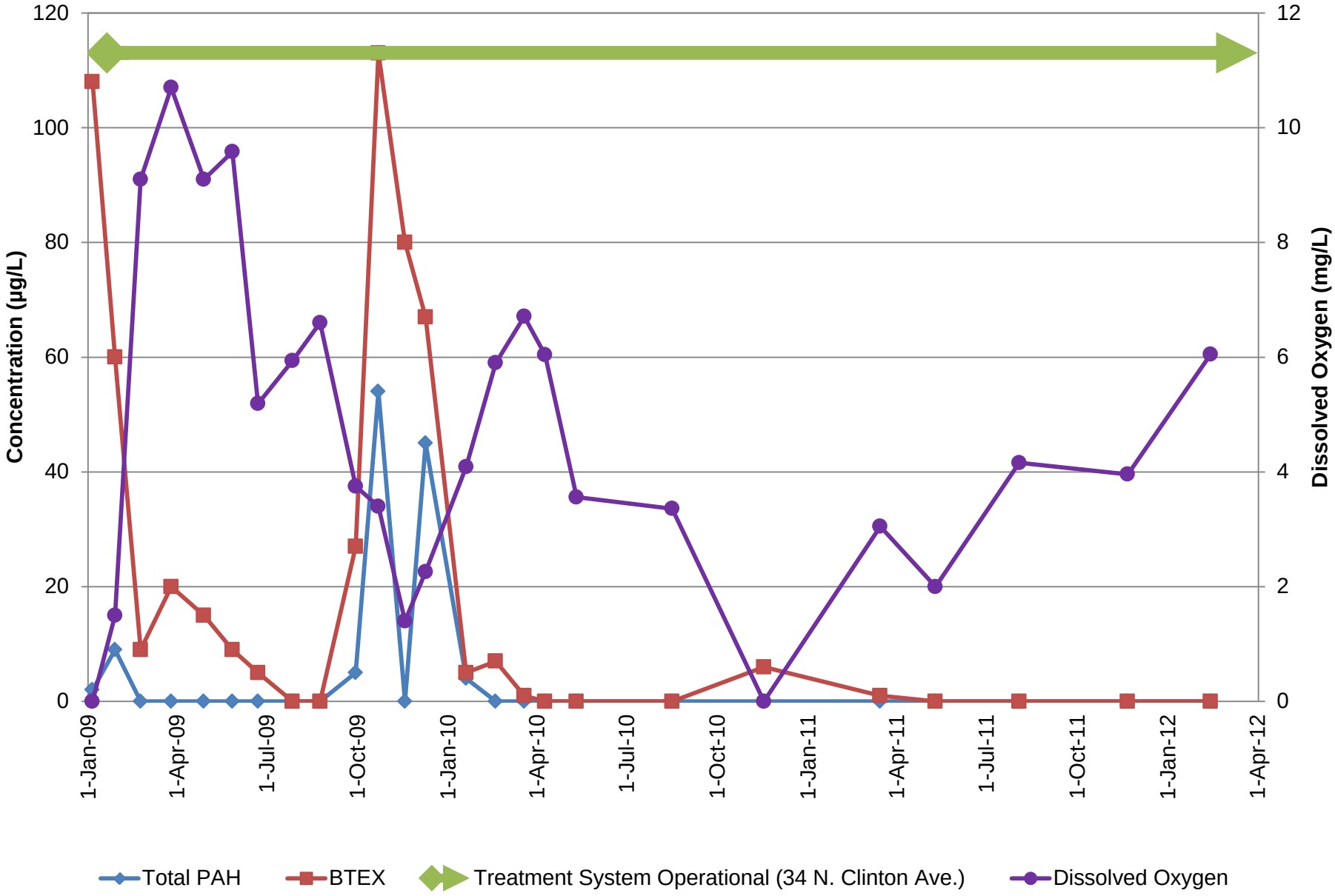
Monitoring Well OU2MW-44I2
45-50 ft bgs



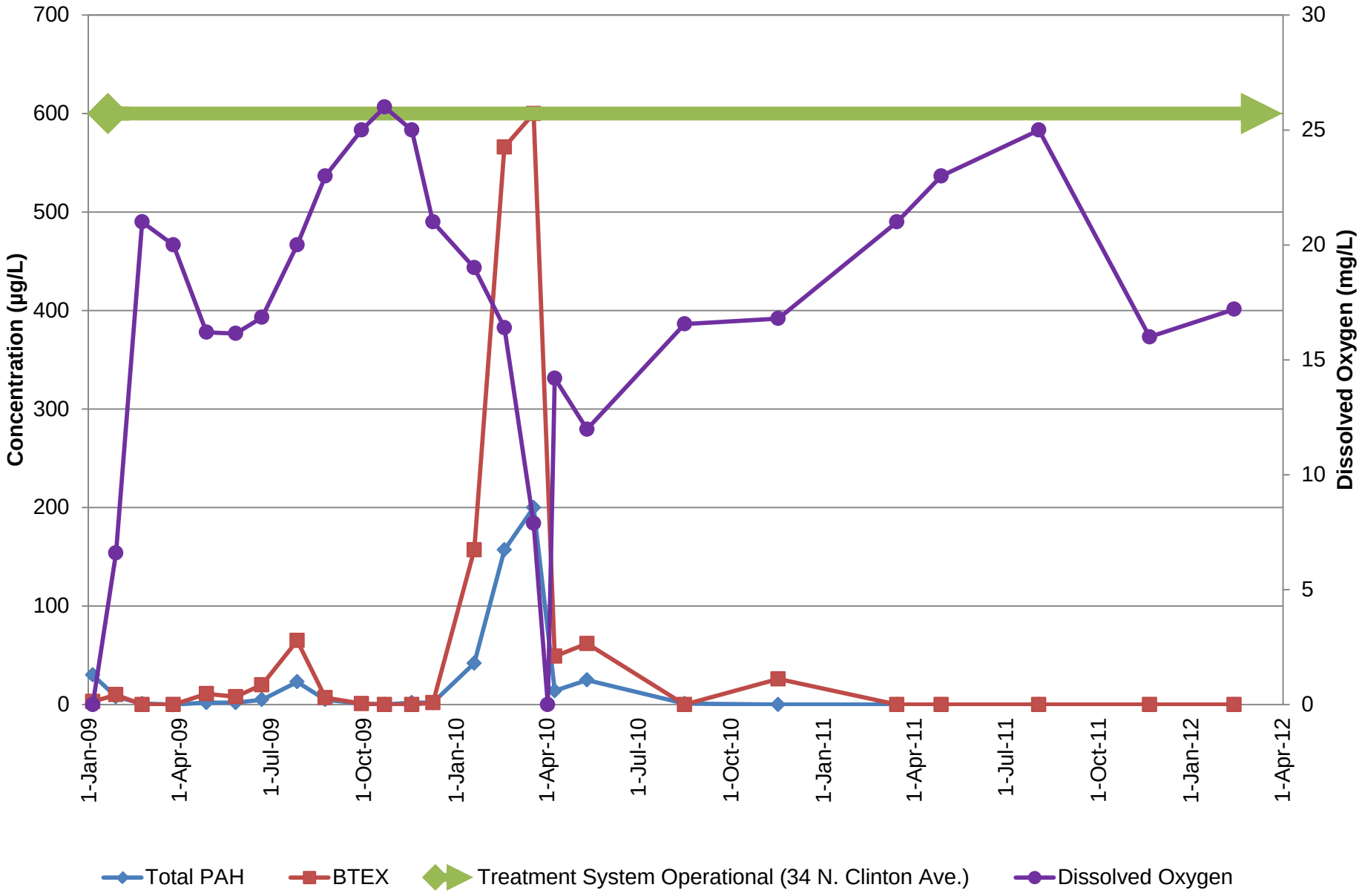
Monitoring Well OU2MW-44D
65-70 ft bgs



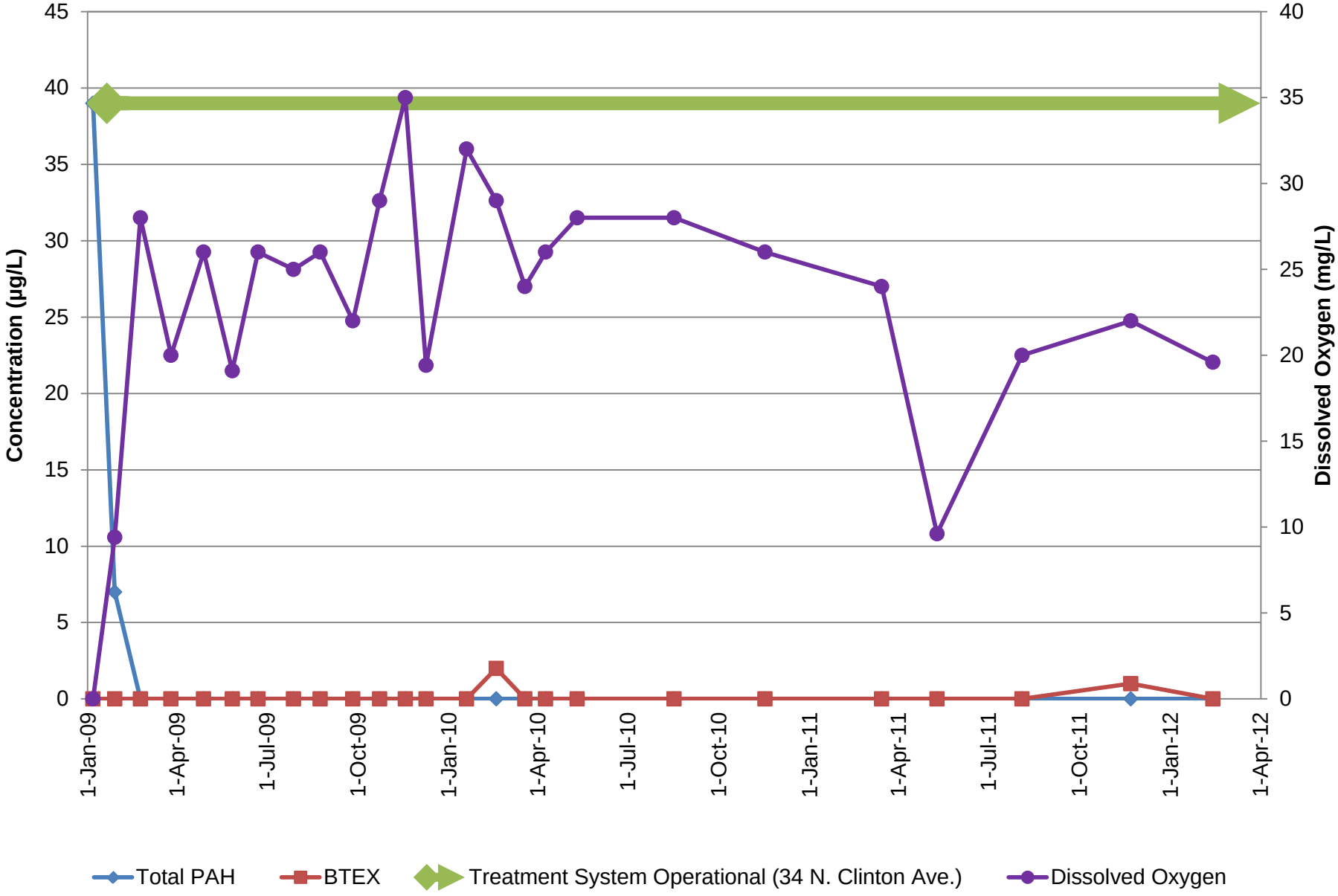
Monitoring Well OU2MW-45S
5-15 ft bgs



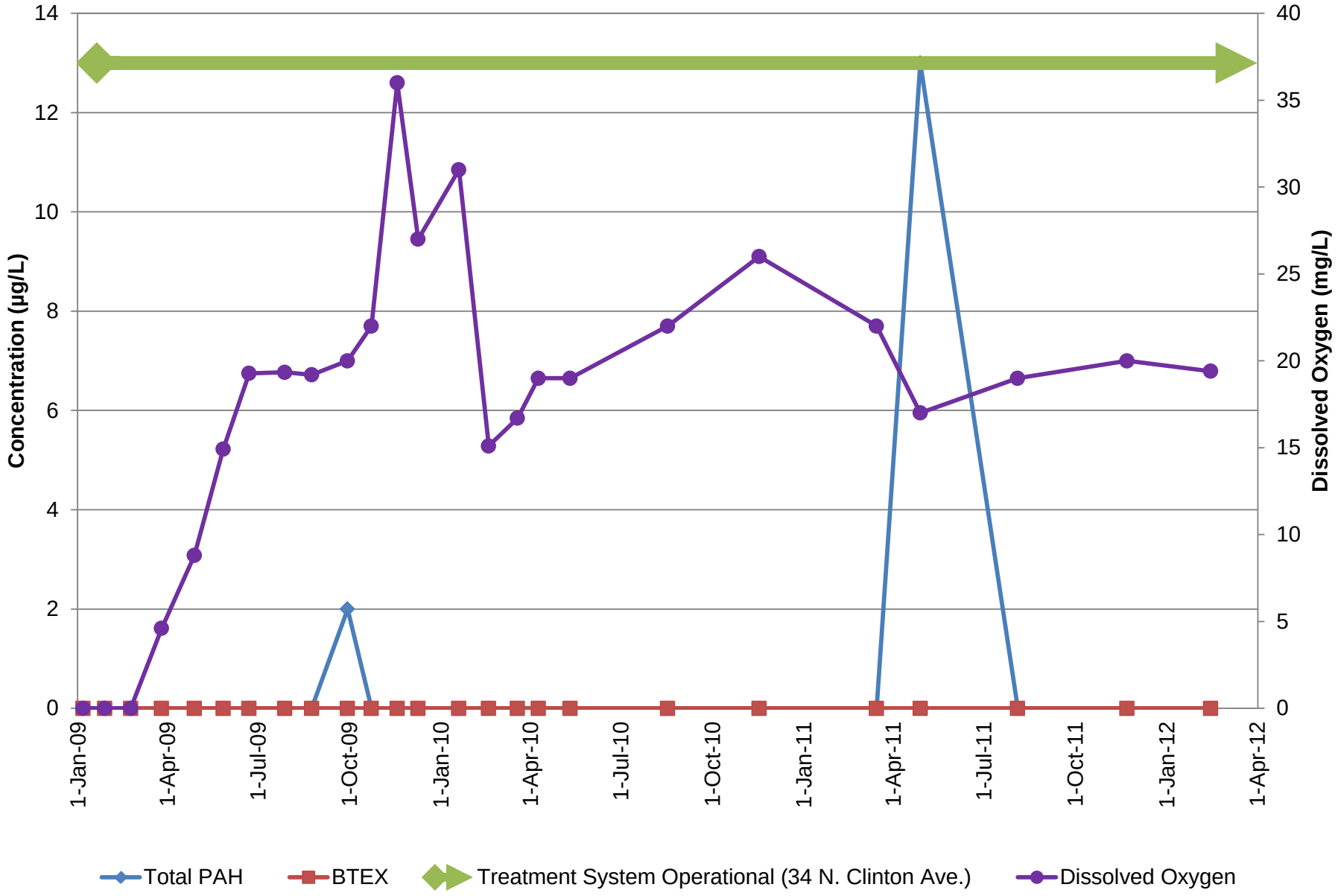
Monitoring Well OU2MW-45I
20-25 ft bgs



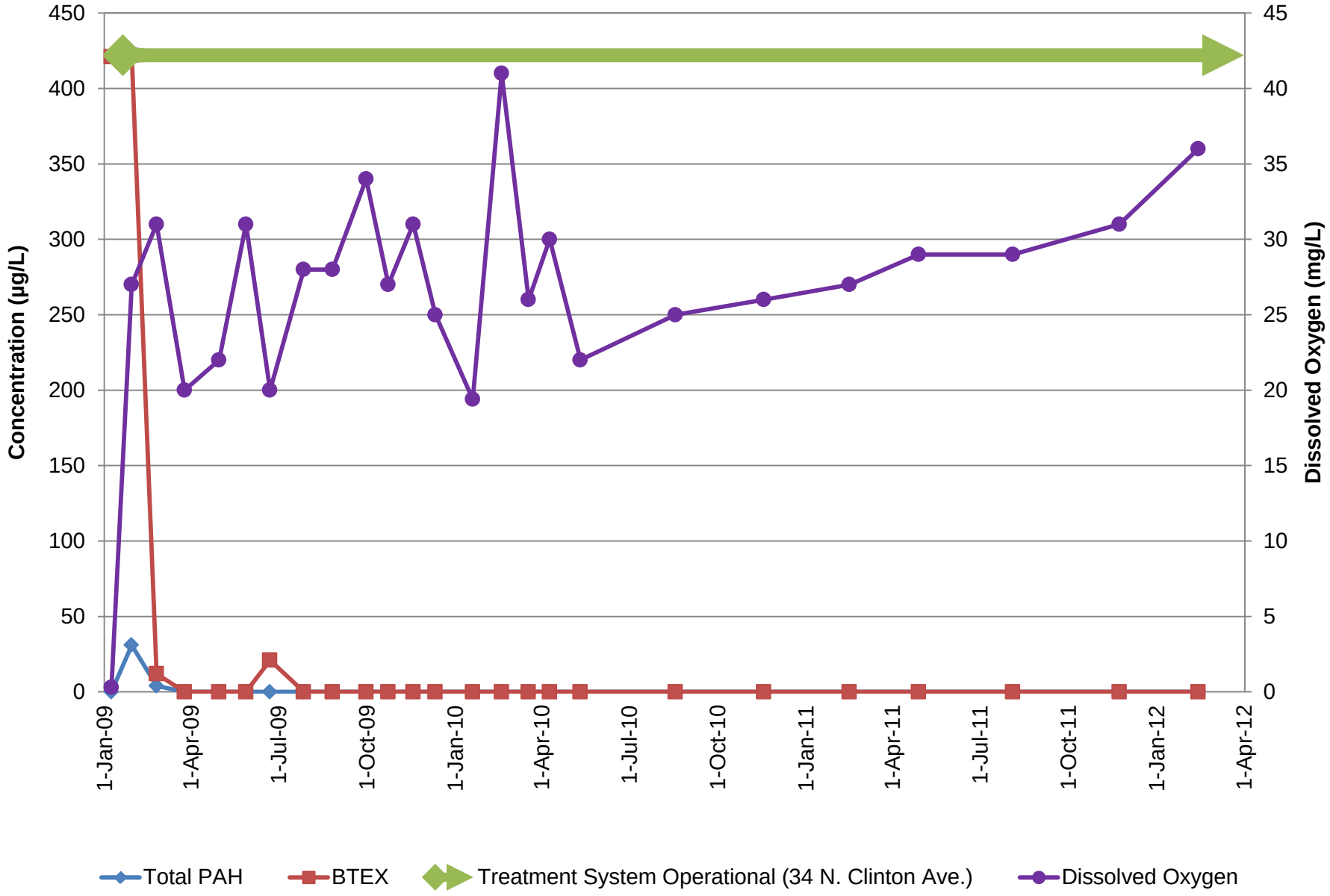
Monitoring Well OU2MW-45I2
40-45 ft bgs



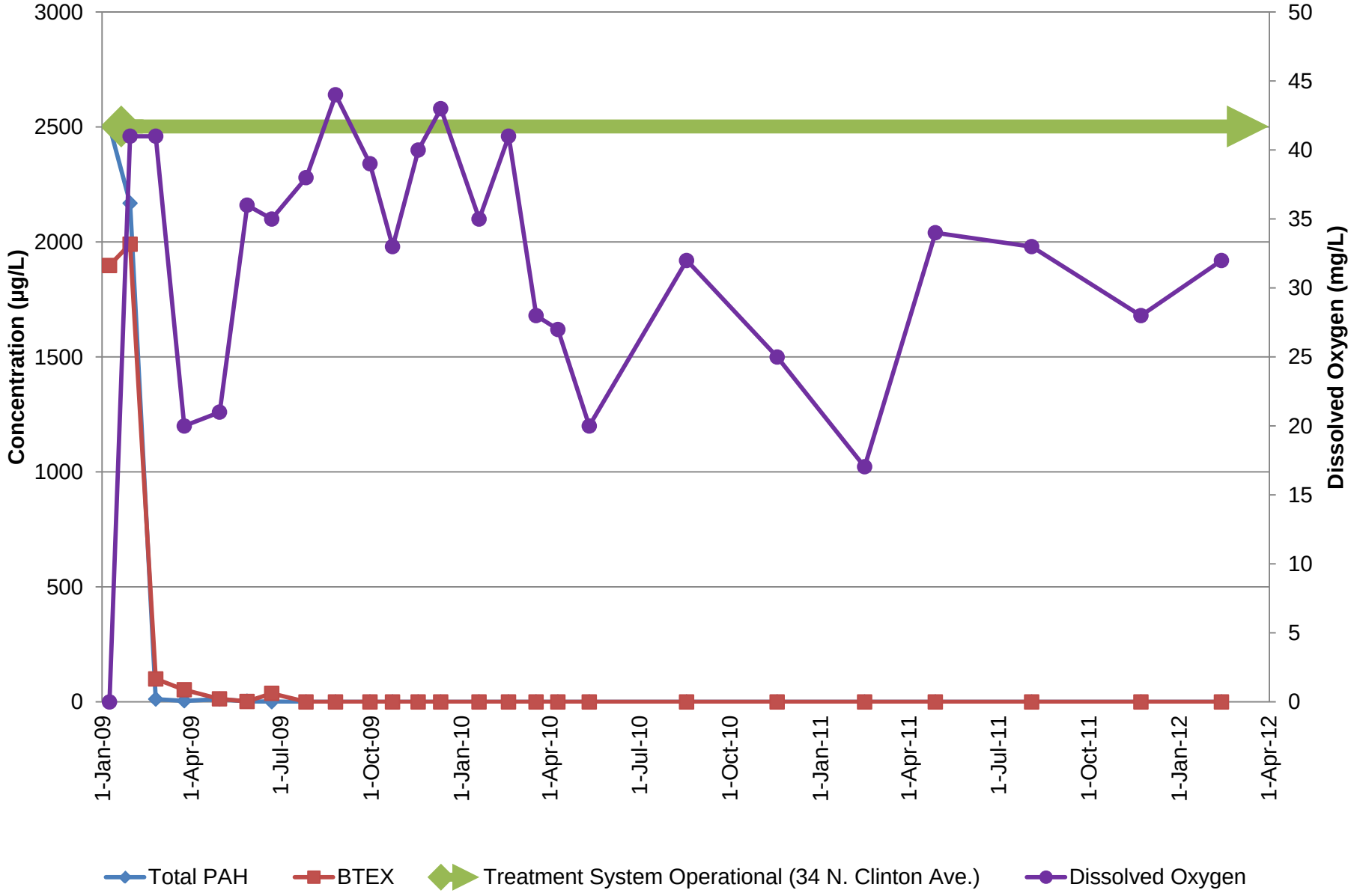
Monitoring Well OU2MW-45D
55-60 ft bgs



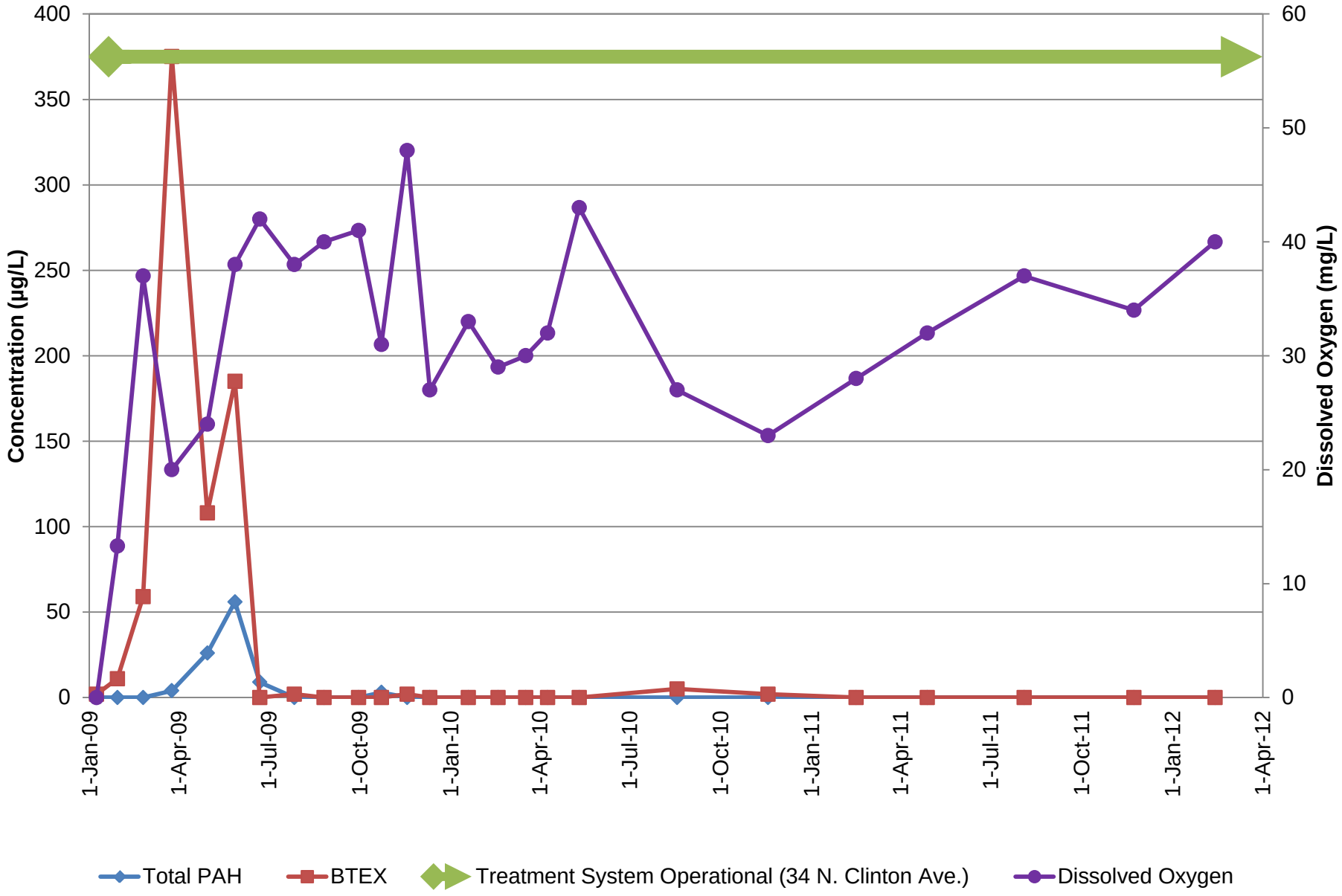
Monitoring Well OU2MW-46S
5-15 ft bgs



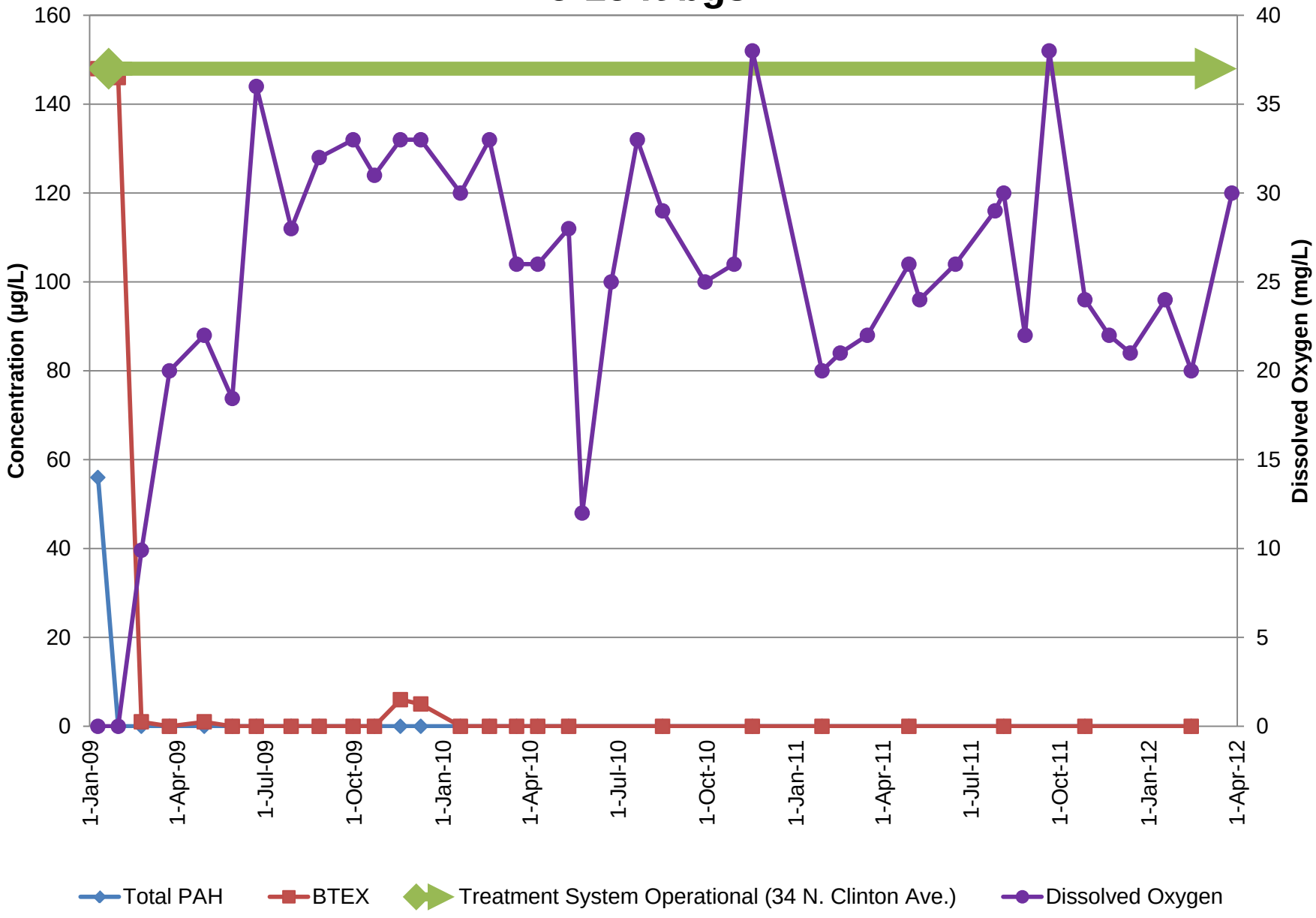
Monitoring Well OU2MW-46I
20-25 ft bgs



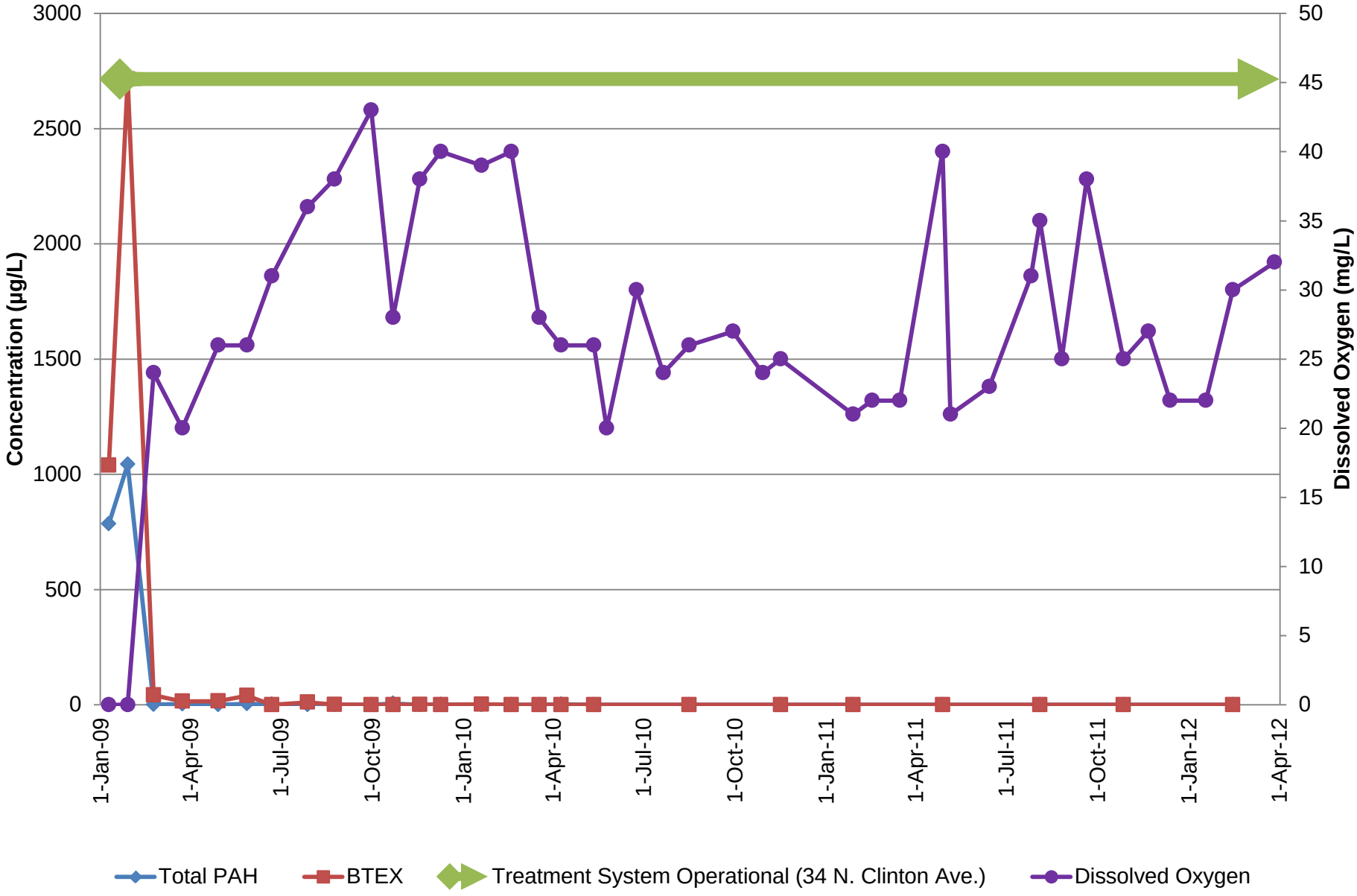
Monitoring Well OU2MW-46I2
40-45 ft bgs



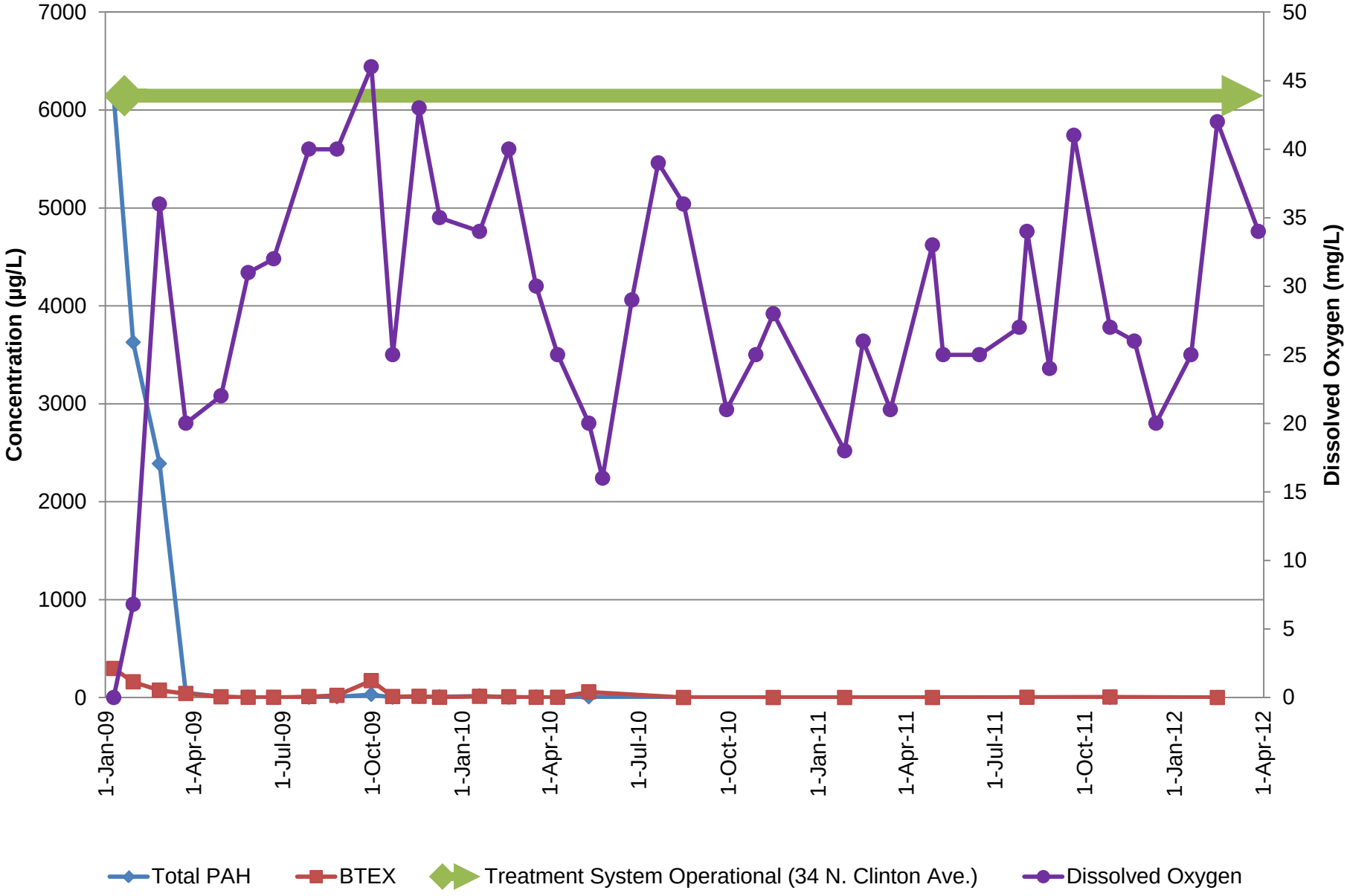
Monitoring Well OU2MW-47S
5-15 ft bgs



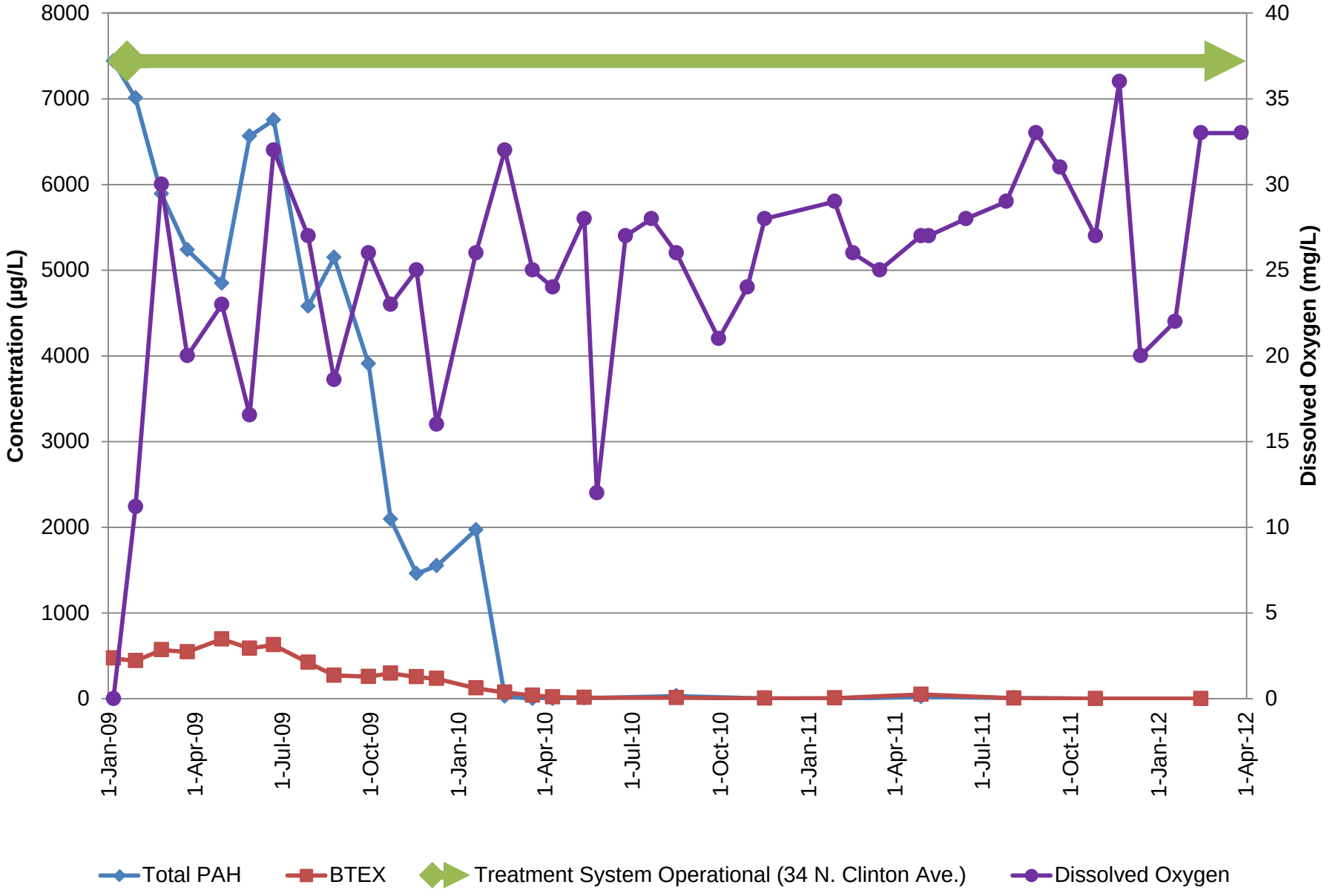
Monitoring Well OU2MW-47I
20-25 ft bgs



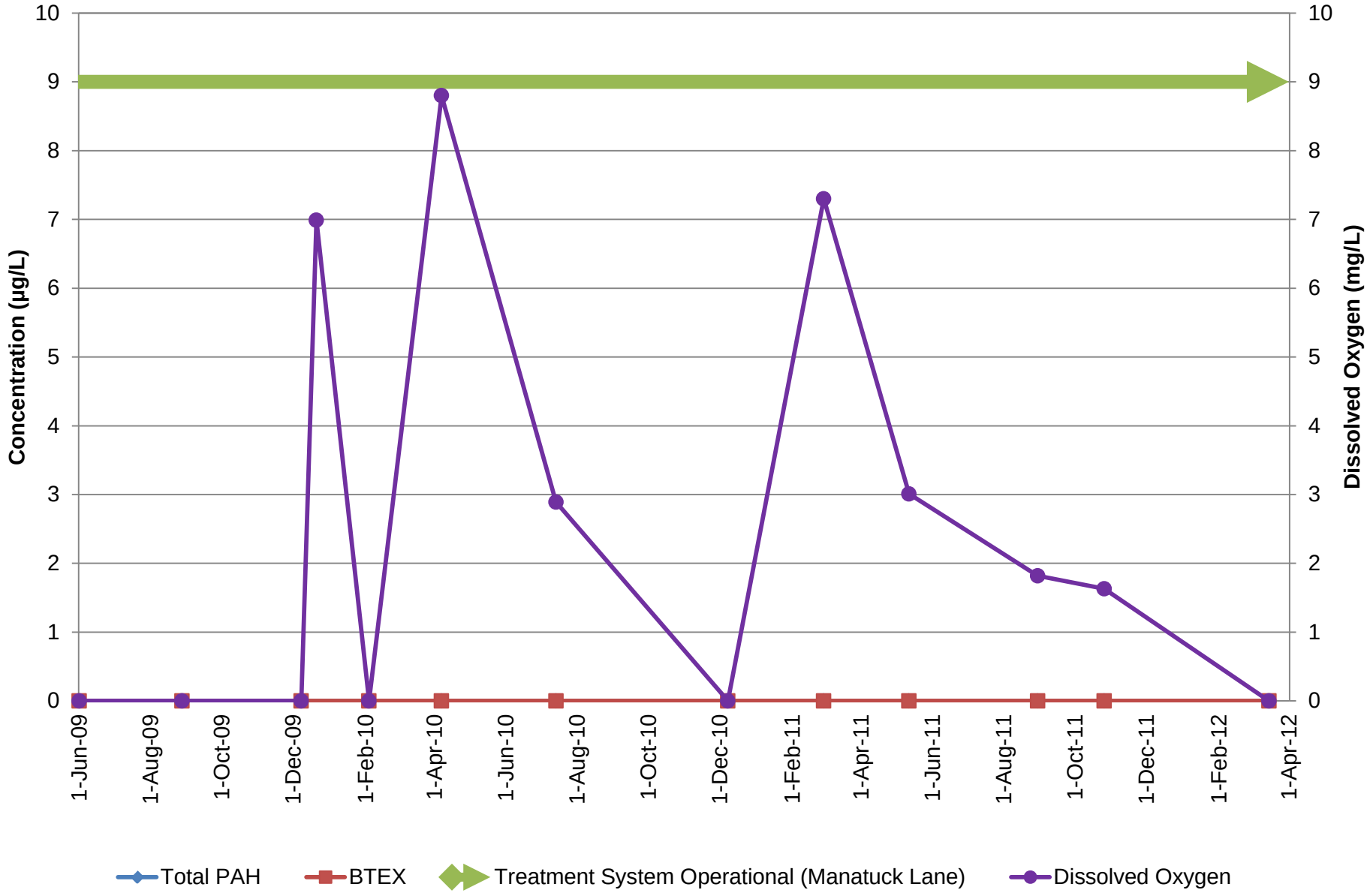
Monitoring Well OU2MW-47I2
40-45 ft bgs



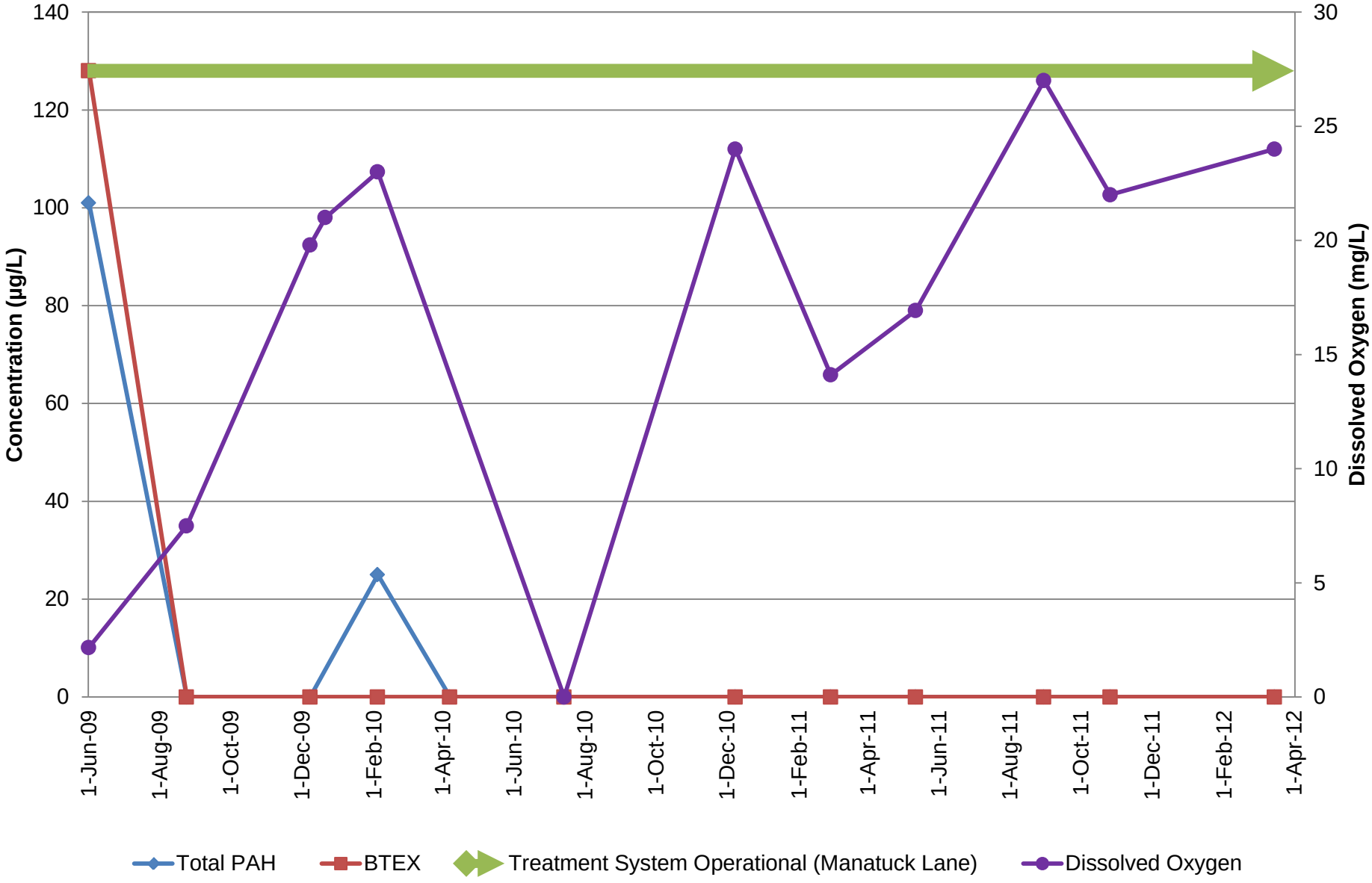
Monitoring Well OU2MW-47D
60-65 ft bgs



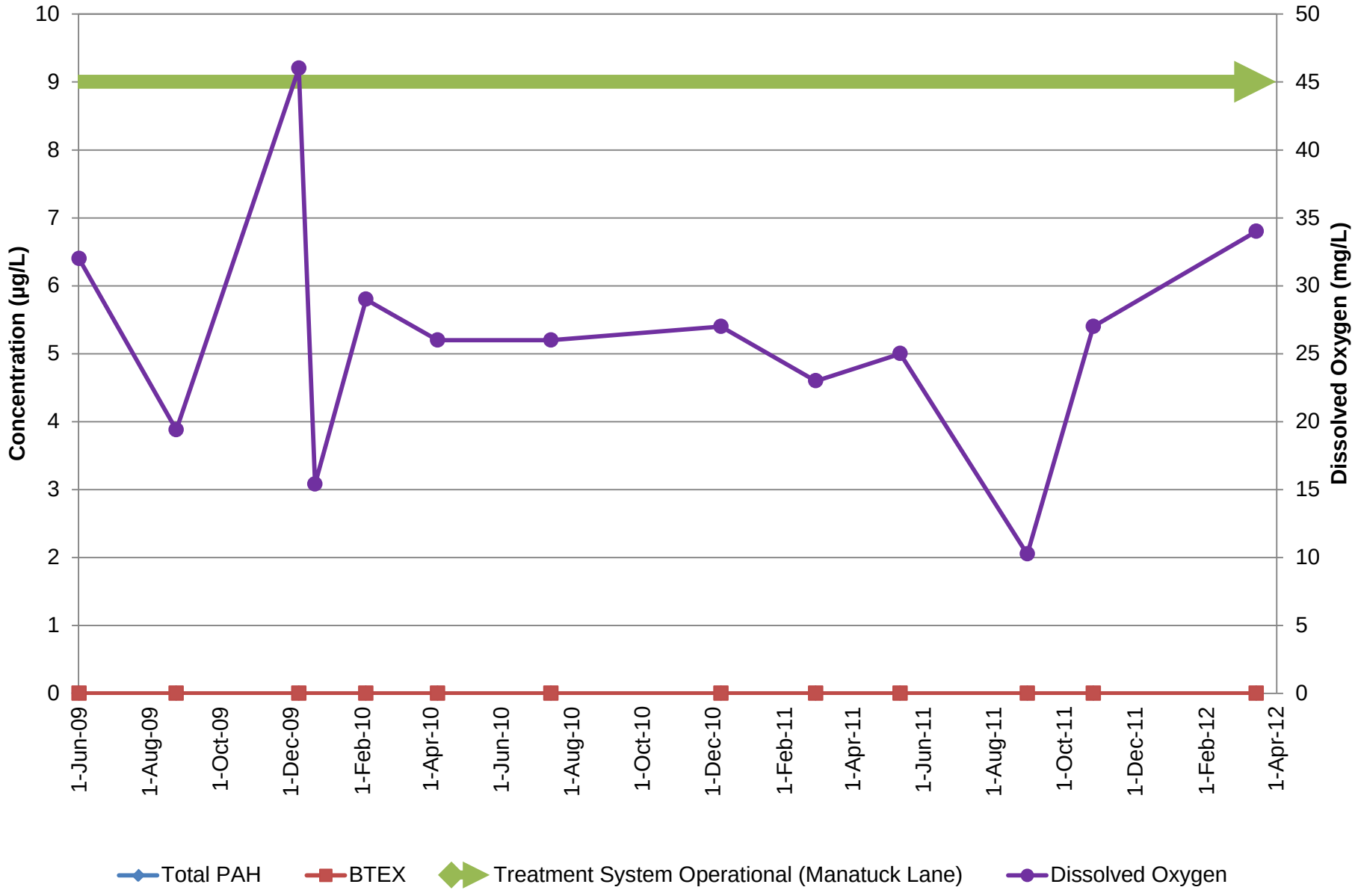
Monitoring Well OU2MW-52S
3-8 ft bgs



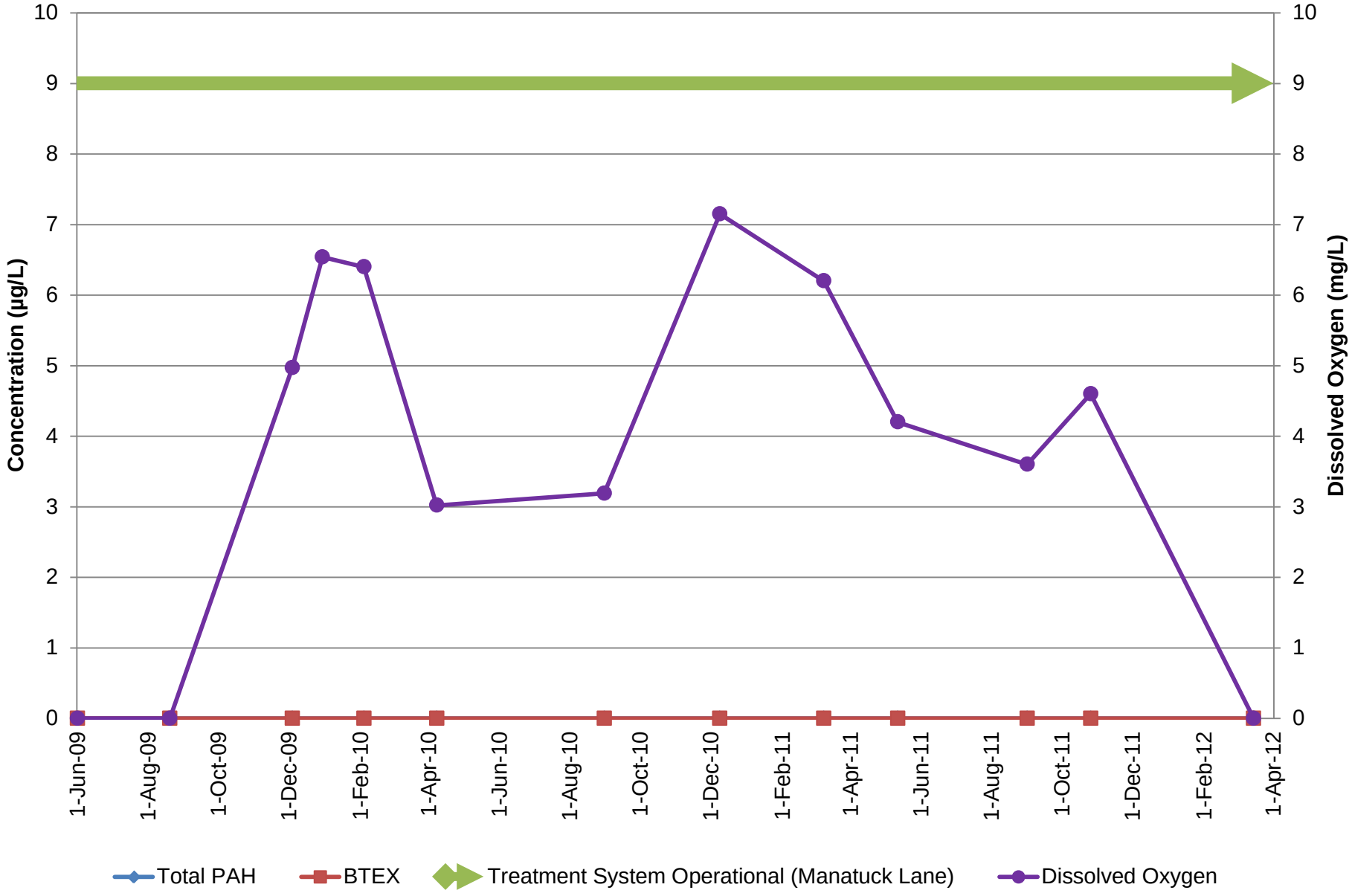
Monitoring Well OU2MW-52I
20-25 ft bgs



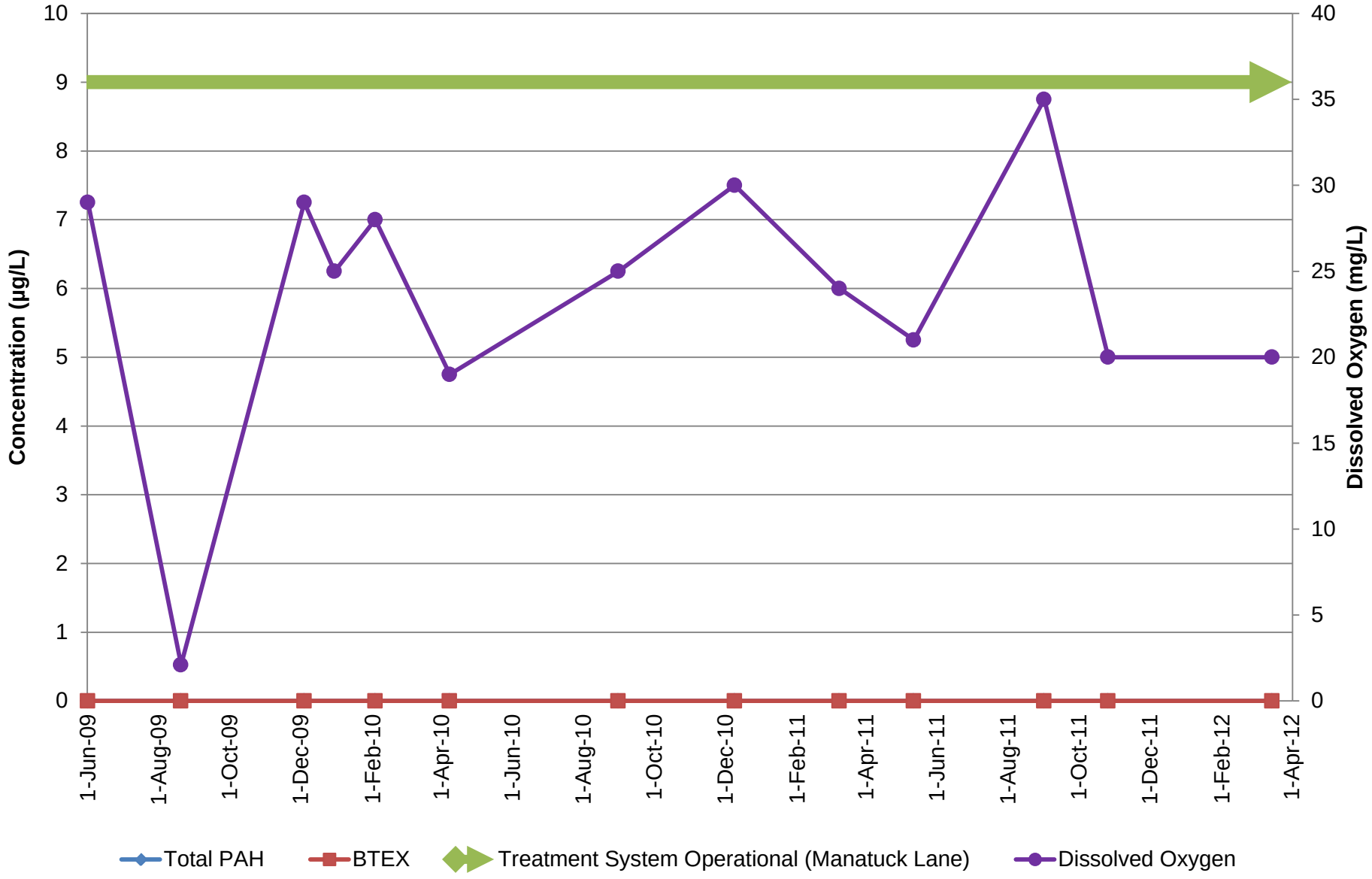
Monitoring Well OU2MW-52D
35-40 ft bgs



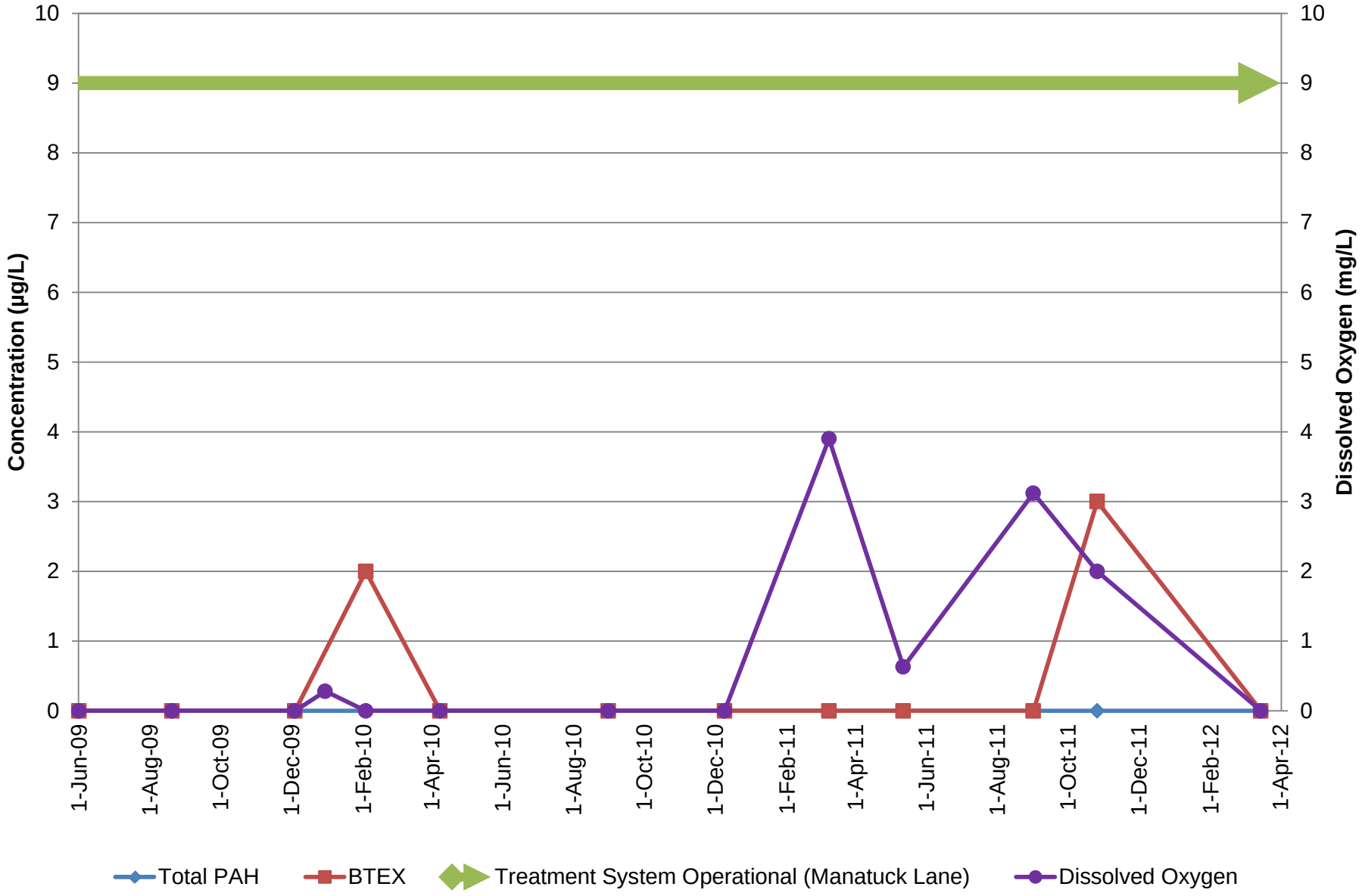
Monitoring Well OU2MW-53S
3-8 ft bgs



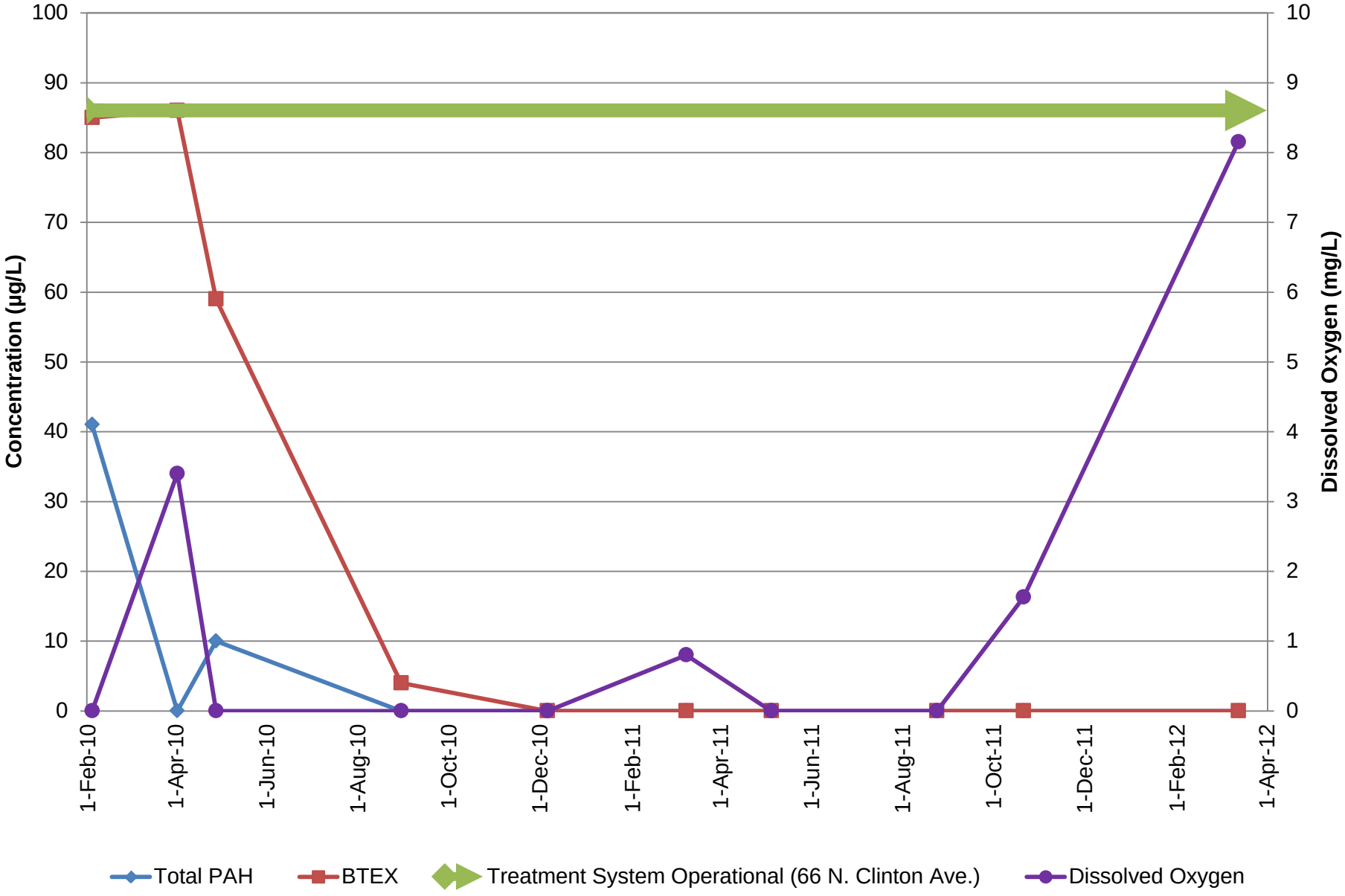
Monitoring Well OU2MW-53I
20-25 ft bgs



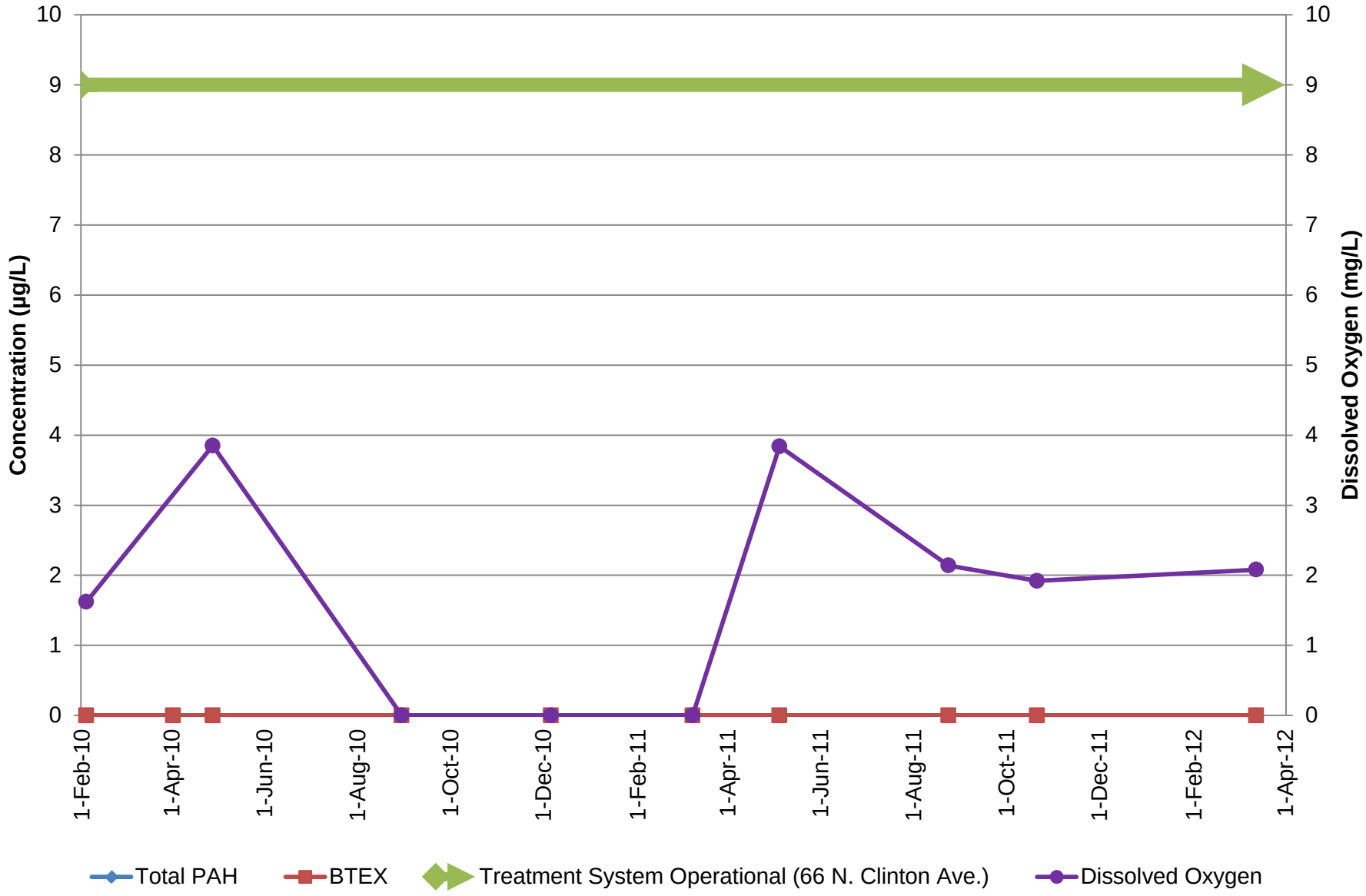
Monitoring Well OU2MW-53D
35-40 ft bgs



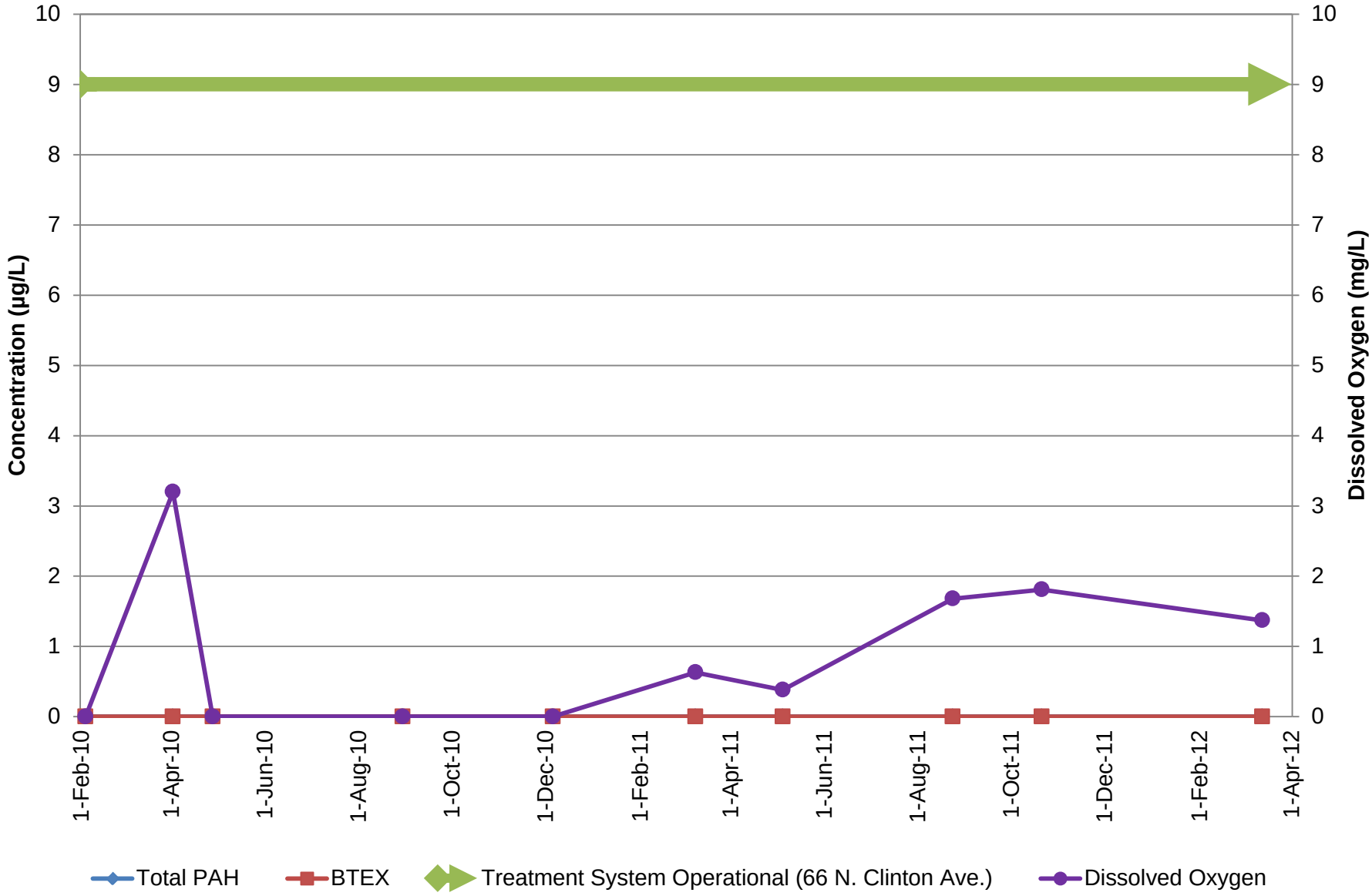
Monitoring Well OU2MW-54S
5-15 ft bgs



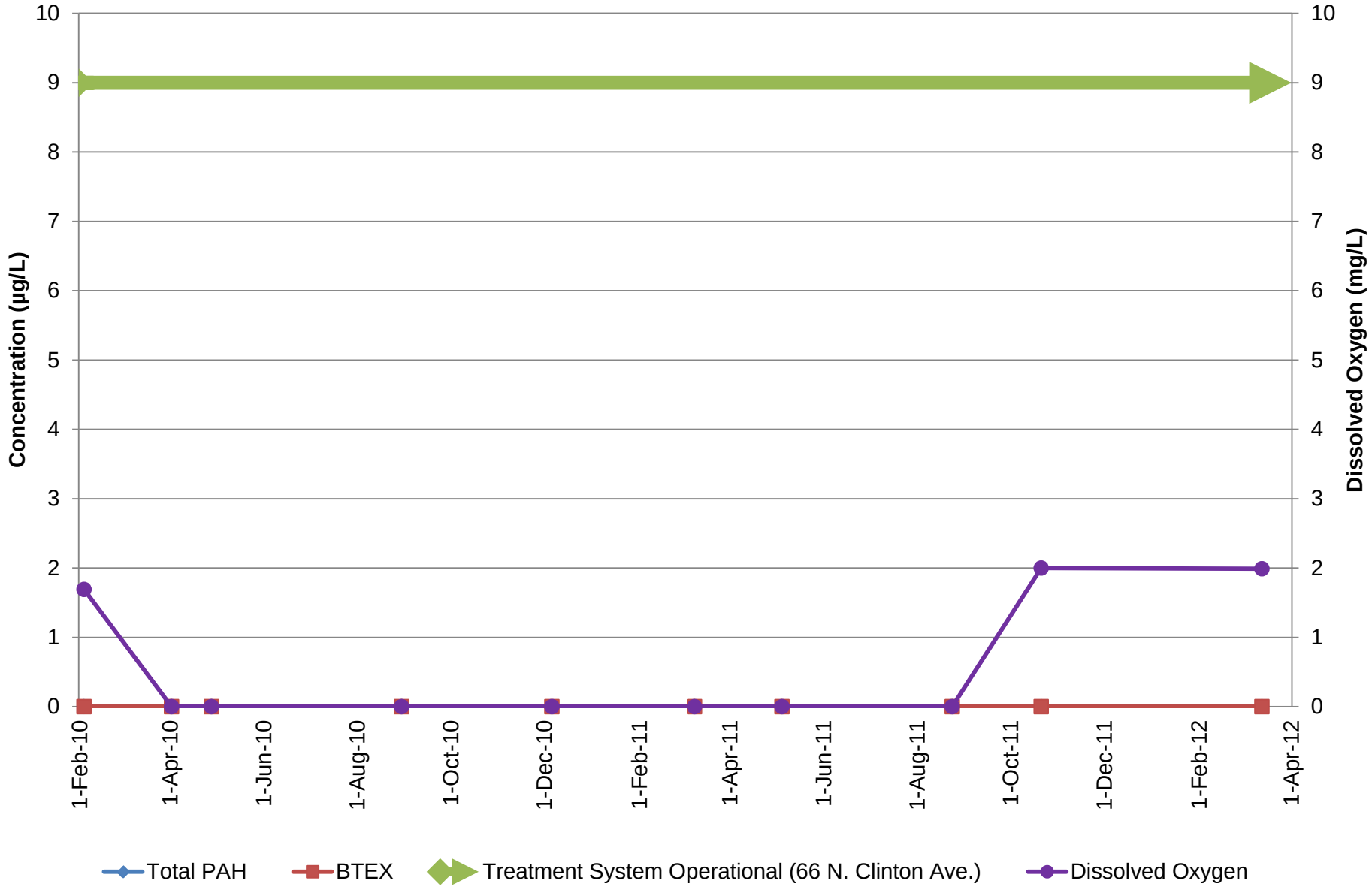
Monitoring Well OU2MW-54I
25-30 ft bgs



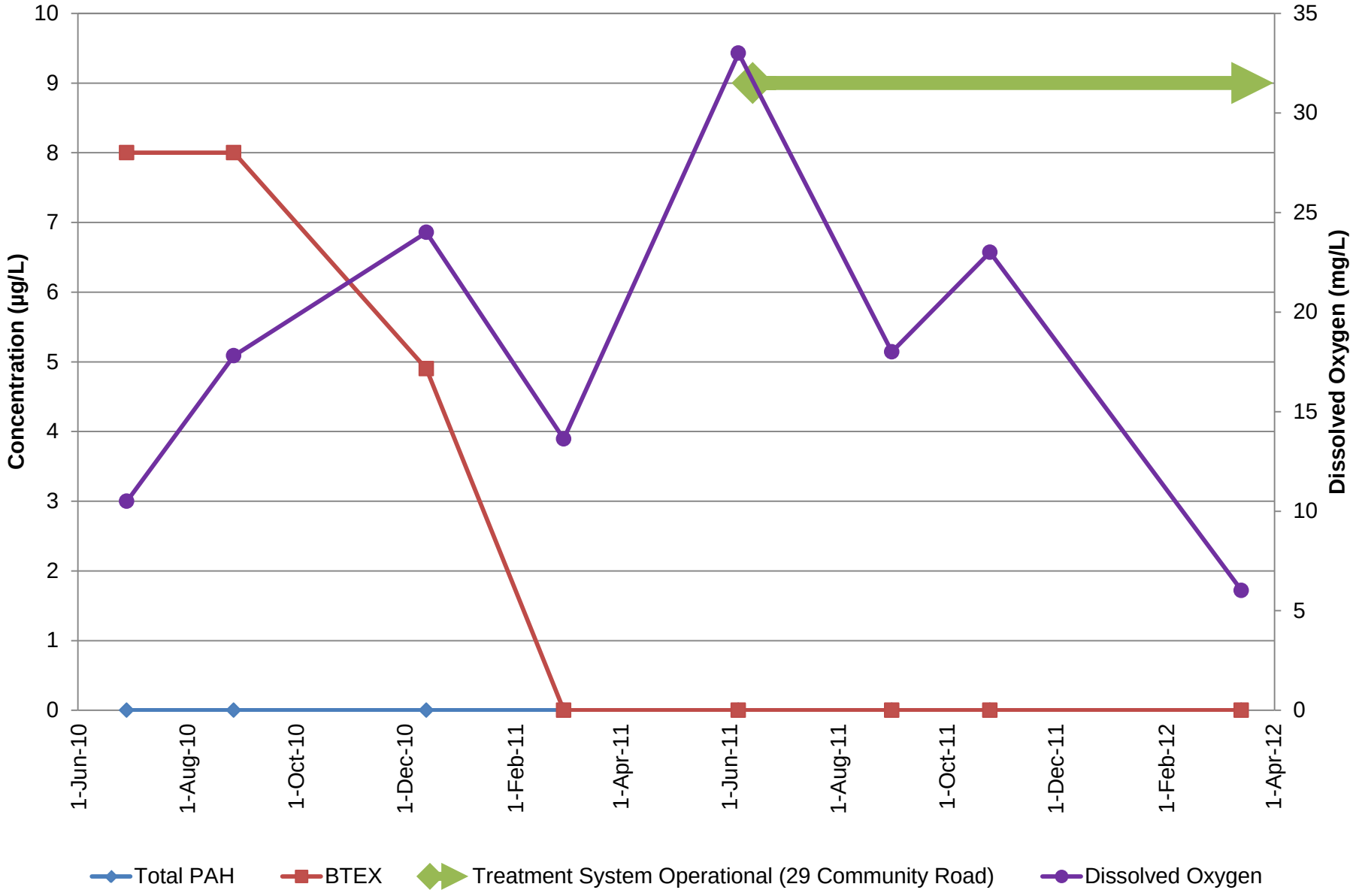
Monitoring Well OU2MW-54I2
40-45 ft bgs



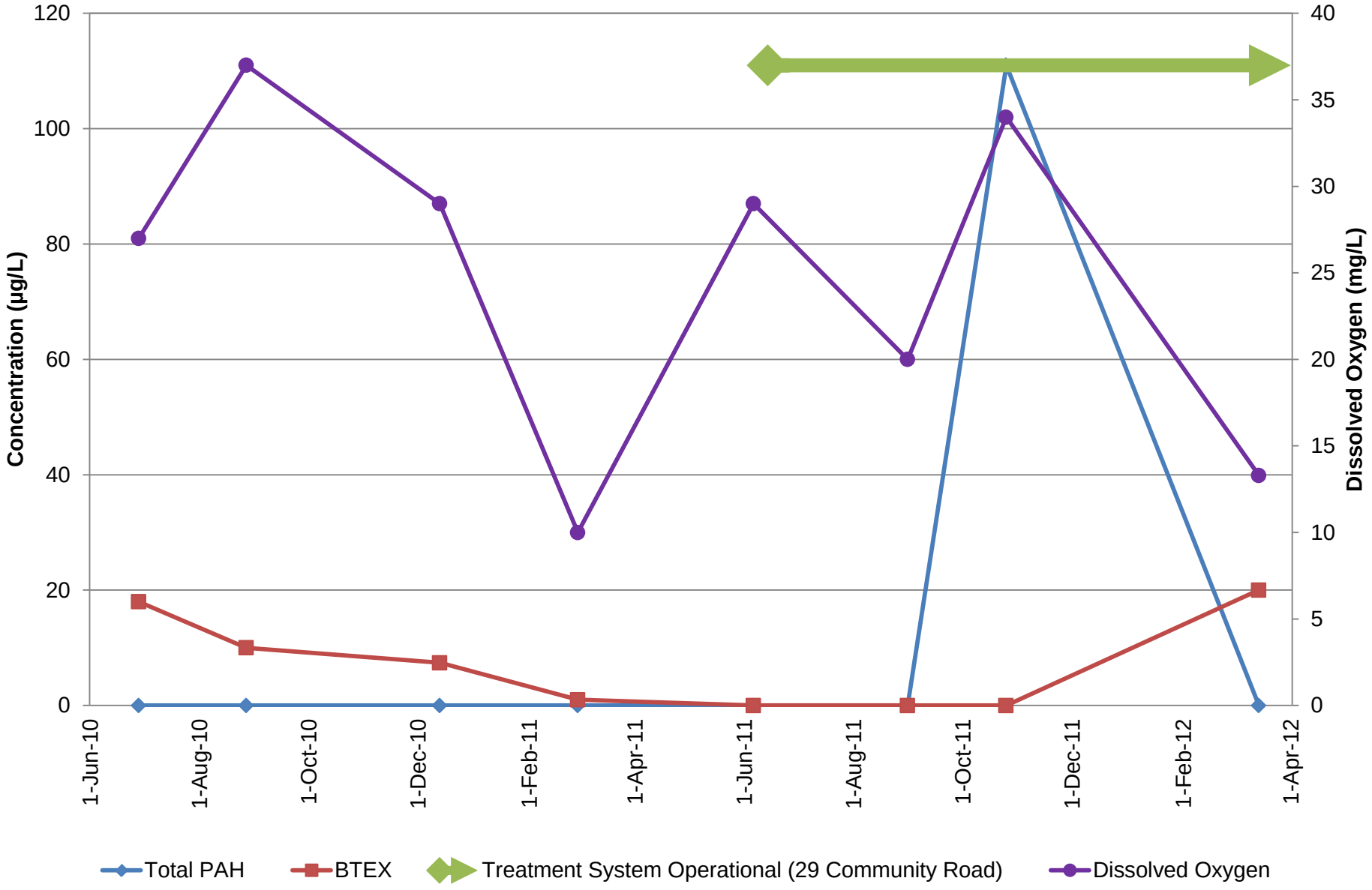
Monitoring Well OU2MW-54D
60-65 ft bgs



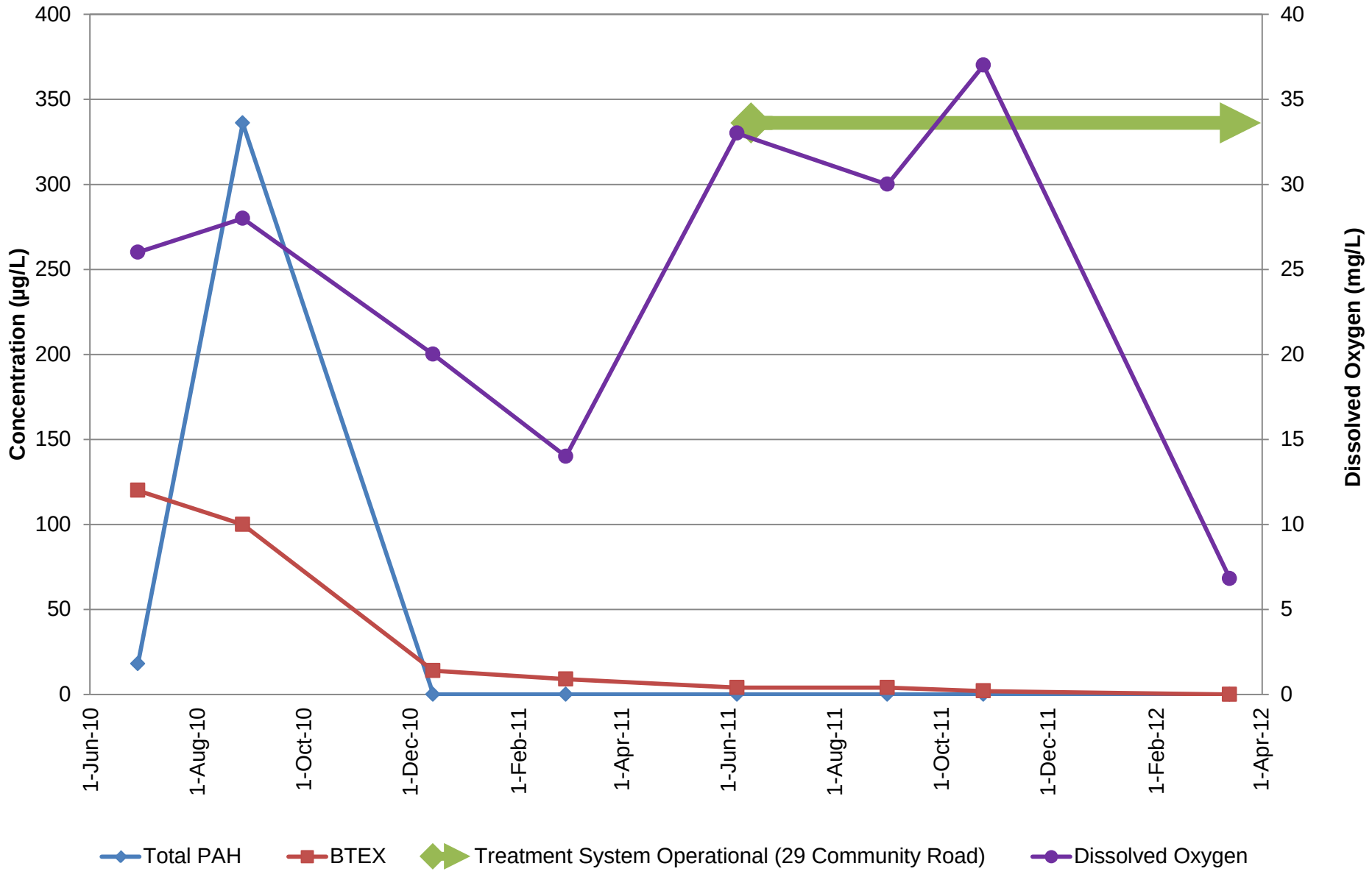
Monitoring Well OU2MW-55S
5-15 ft bgs



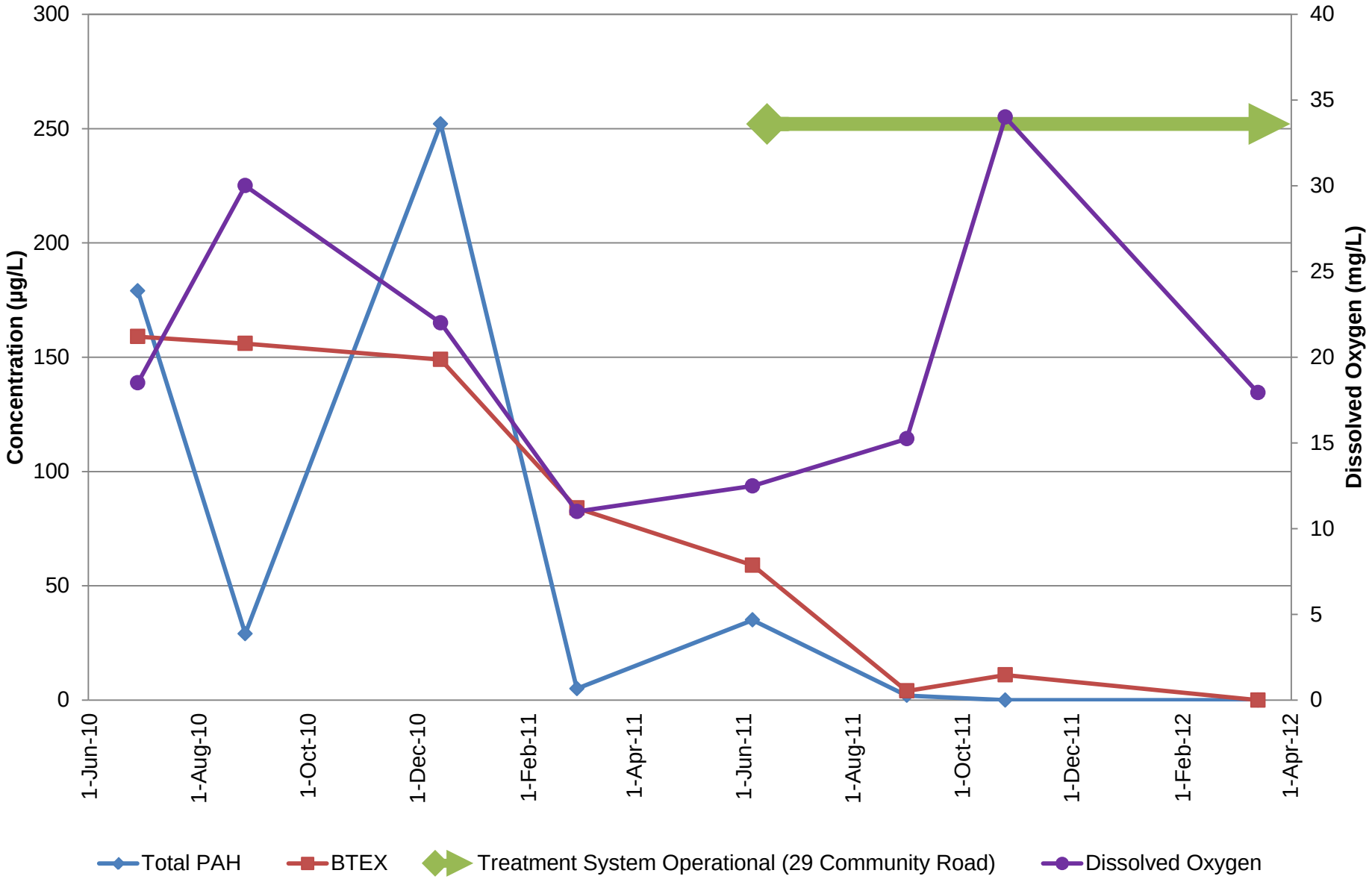
Monitoring Well OU2MW-55I
30-35 ft bgs



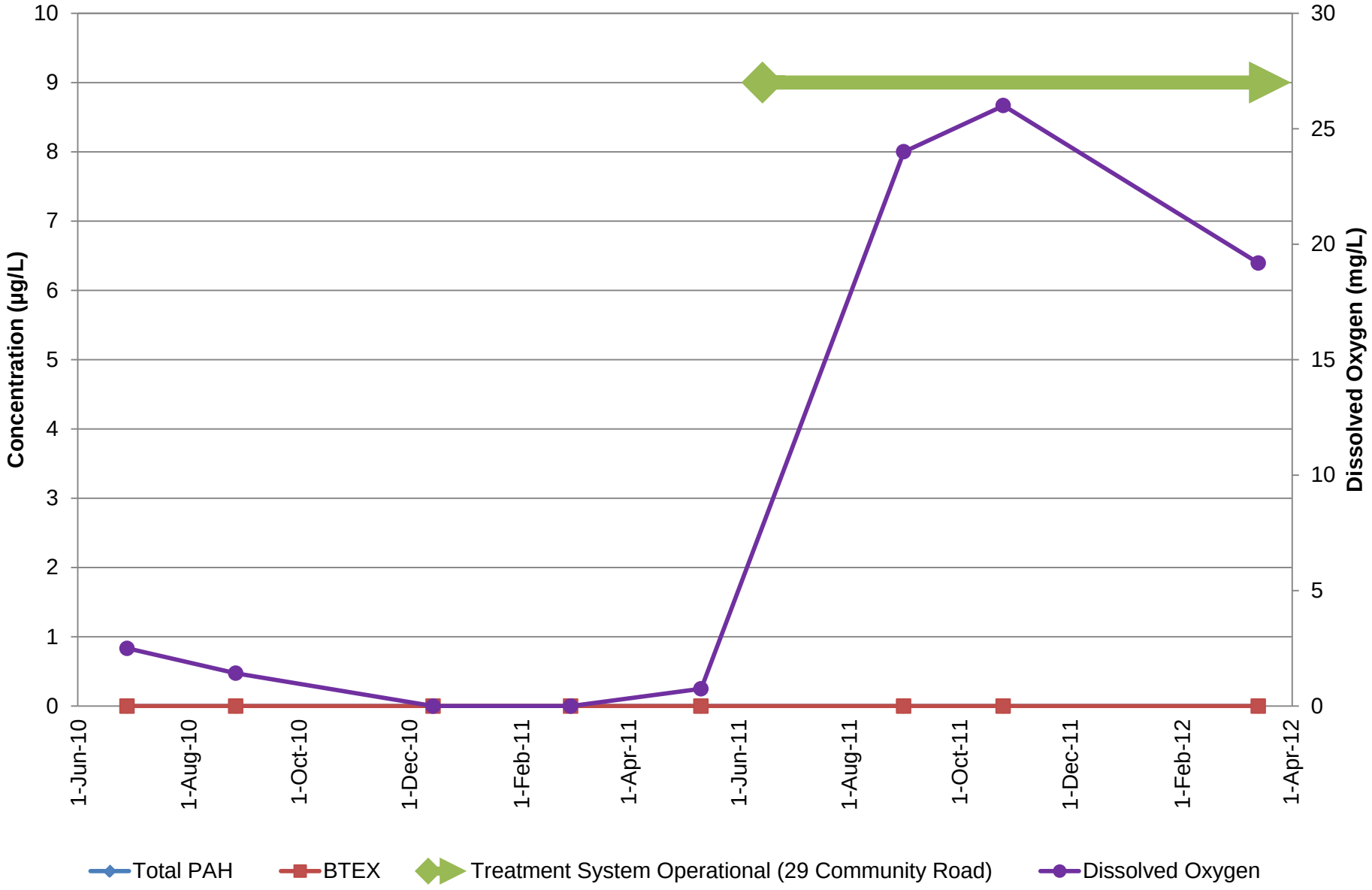
Monitoring Well OU2MW-55I2
50-55 ft bgs



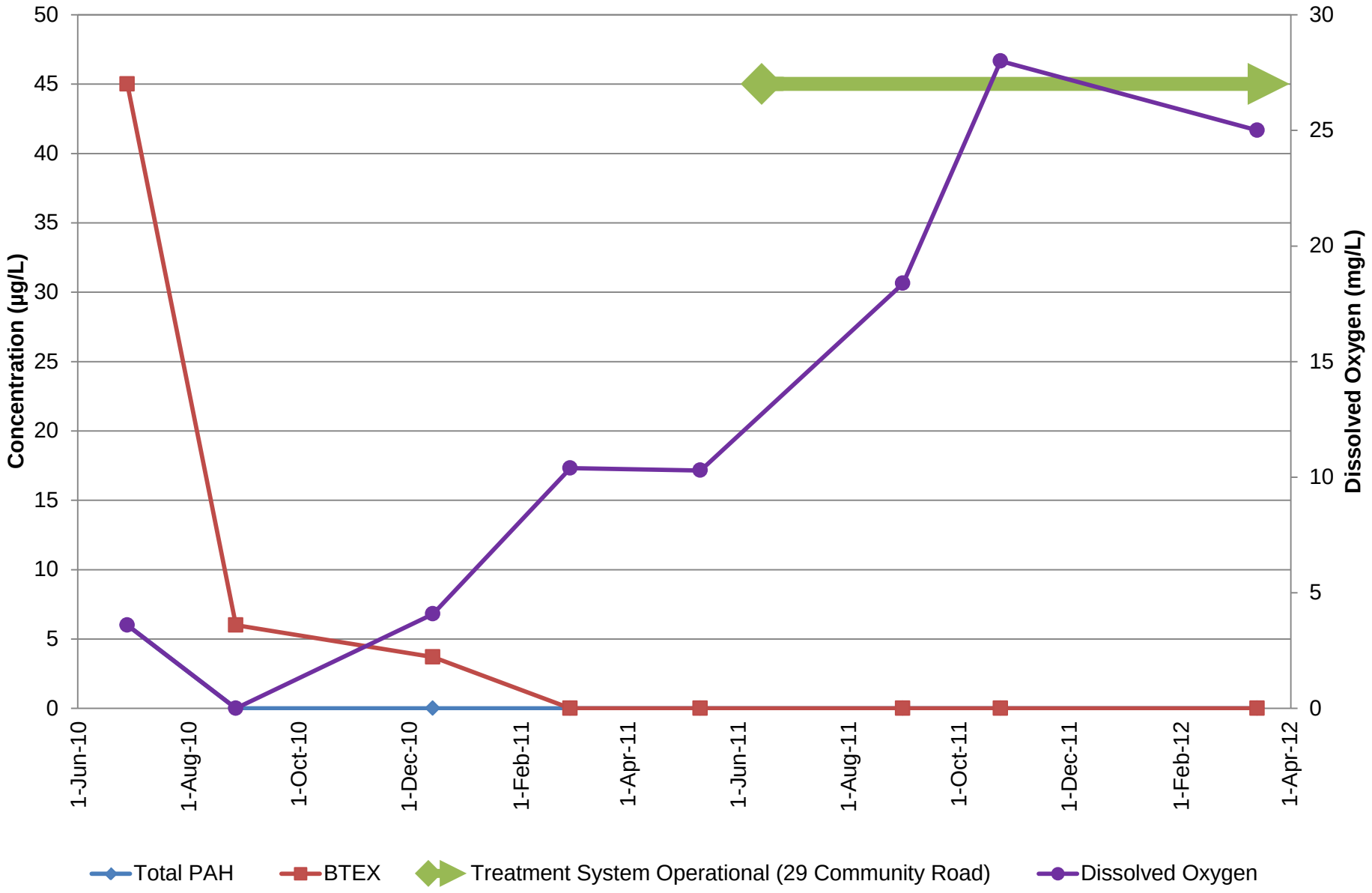
Monitoring Well OU2MW-55D
65-70 ft bgs



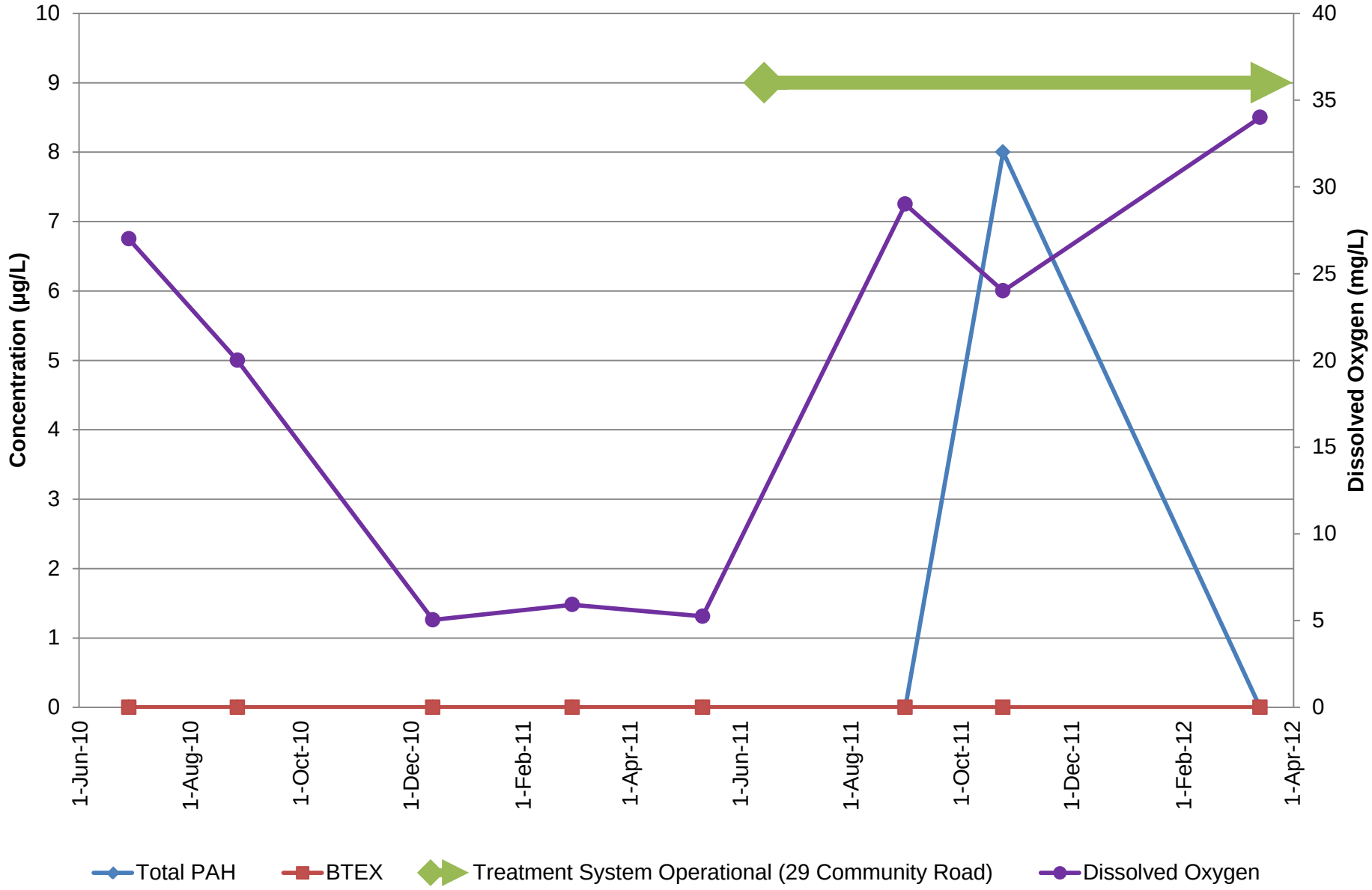
Monitoring Well OU2MW-56S
5-15 ft bgs



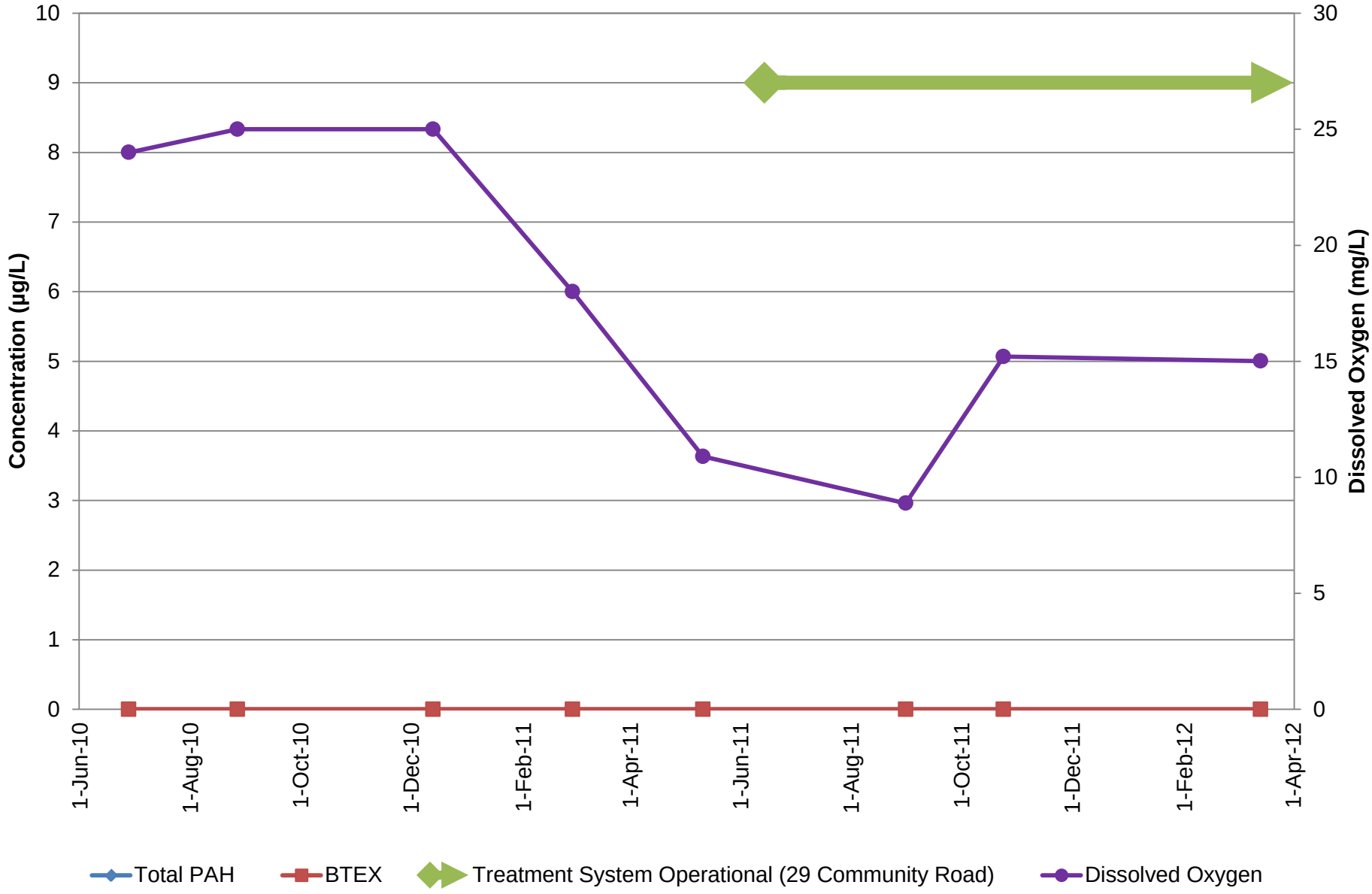
Monitoring Well OU2MW-56I
25-30 ft bgs



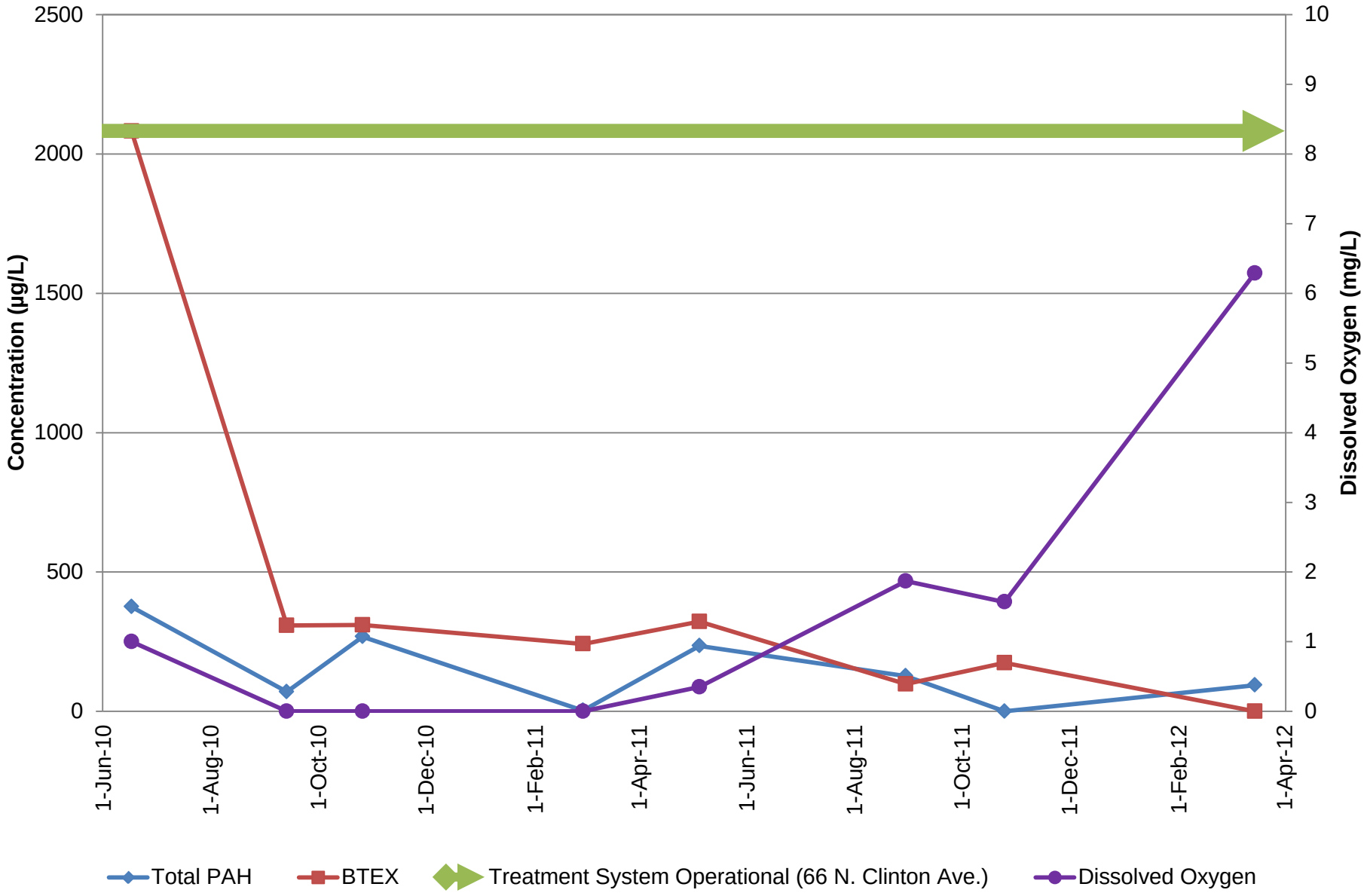
Monitoring Well OU2MW-56I2
45-50 ft bgs



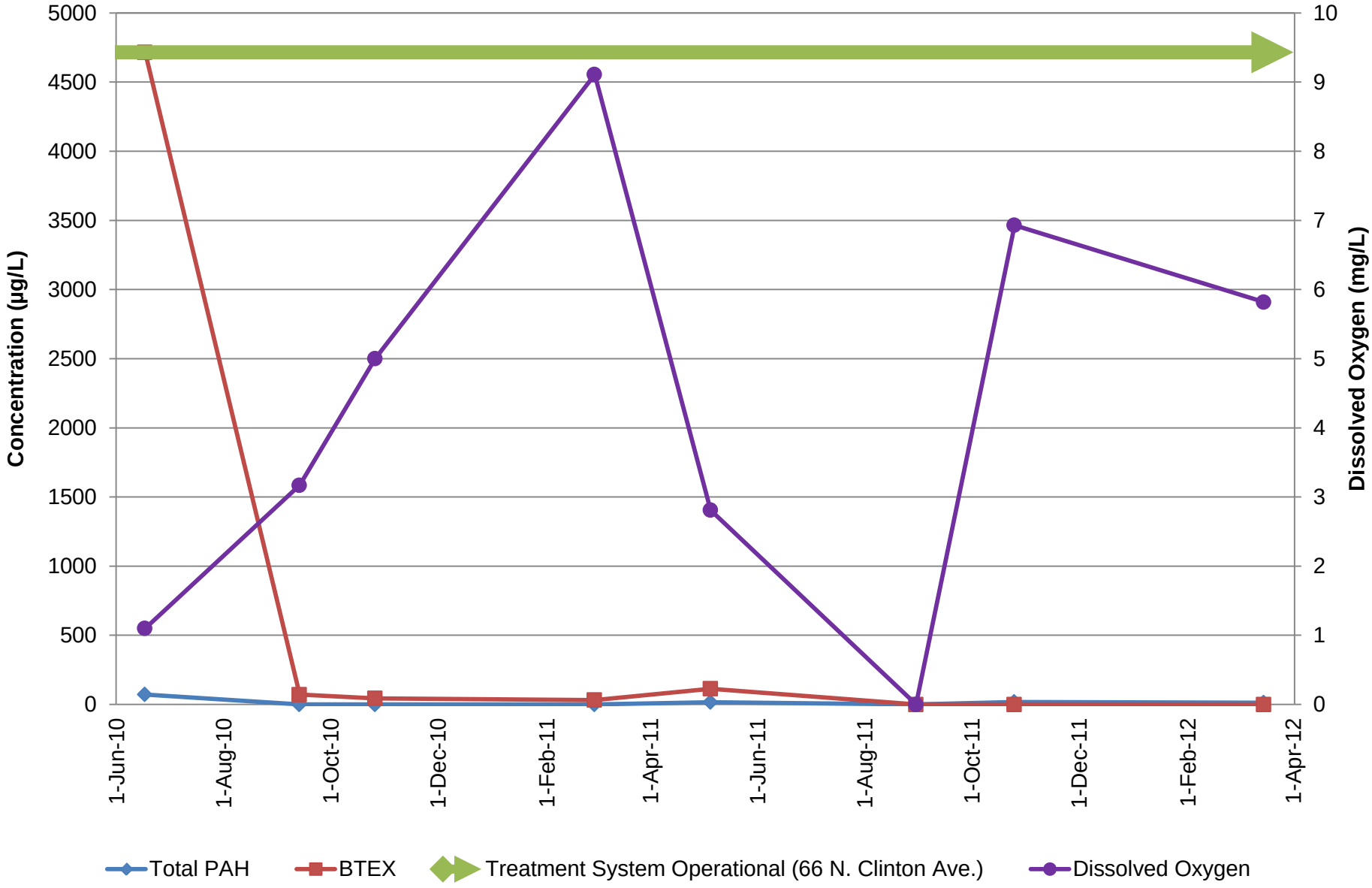
Monitoring Well OU2MW-56D
65-70 ft bgs



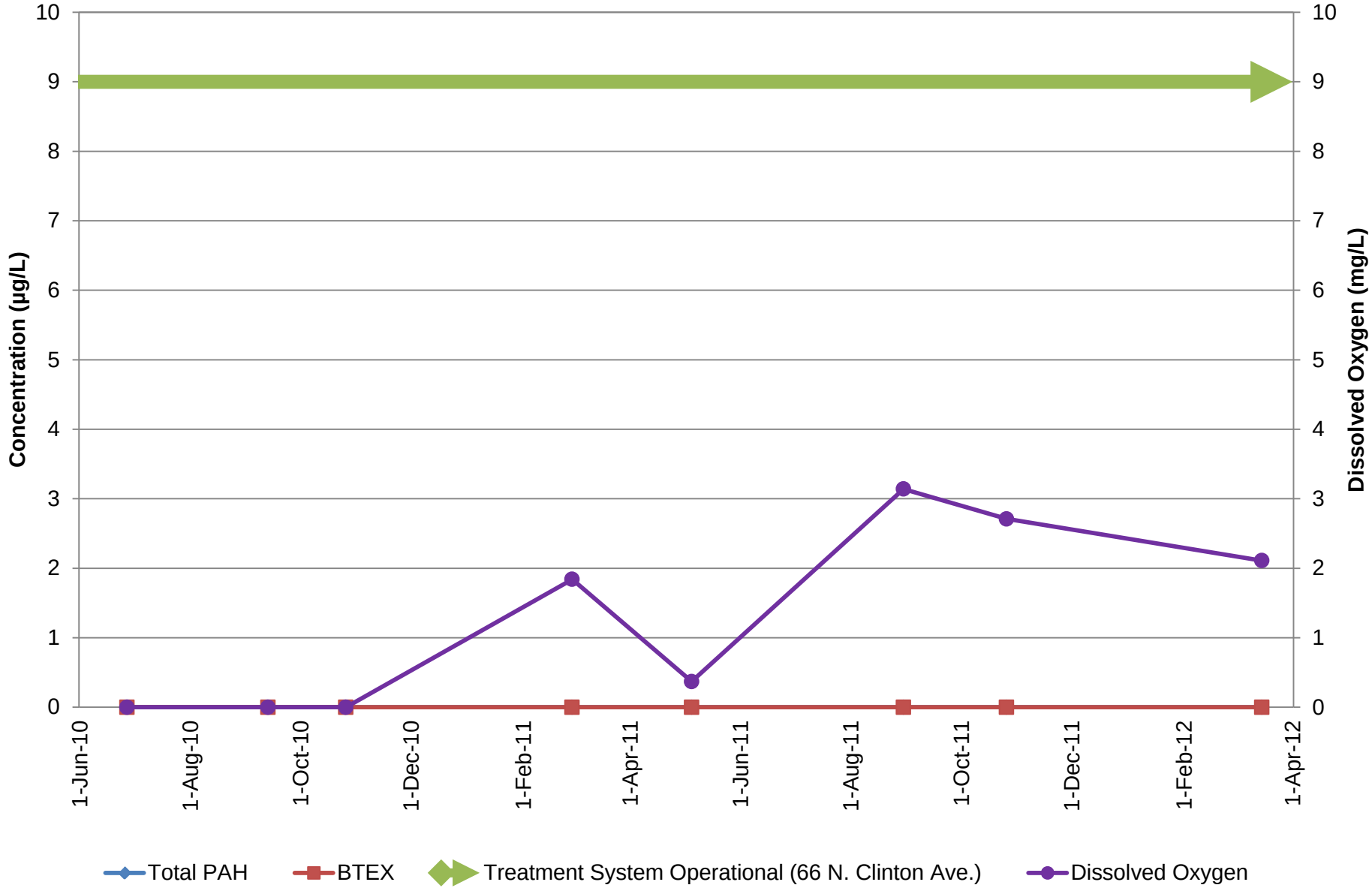
Monitoring Well OU2MW-57S
5-15 ft bgs



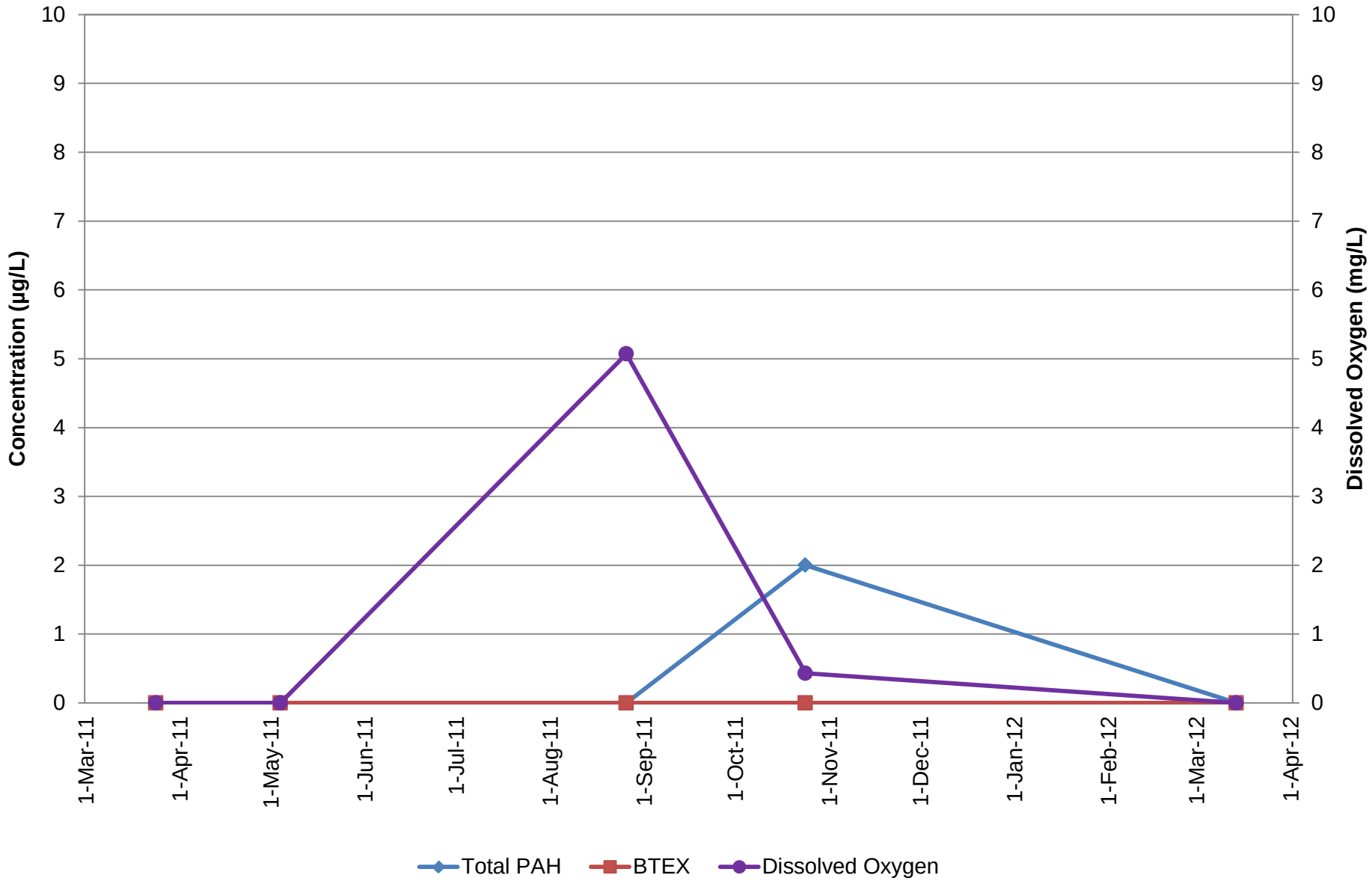
Monitoring Well OU2MW-57I
20-30 ft bgs



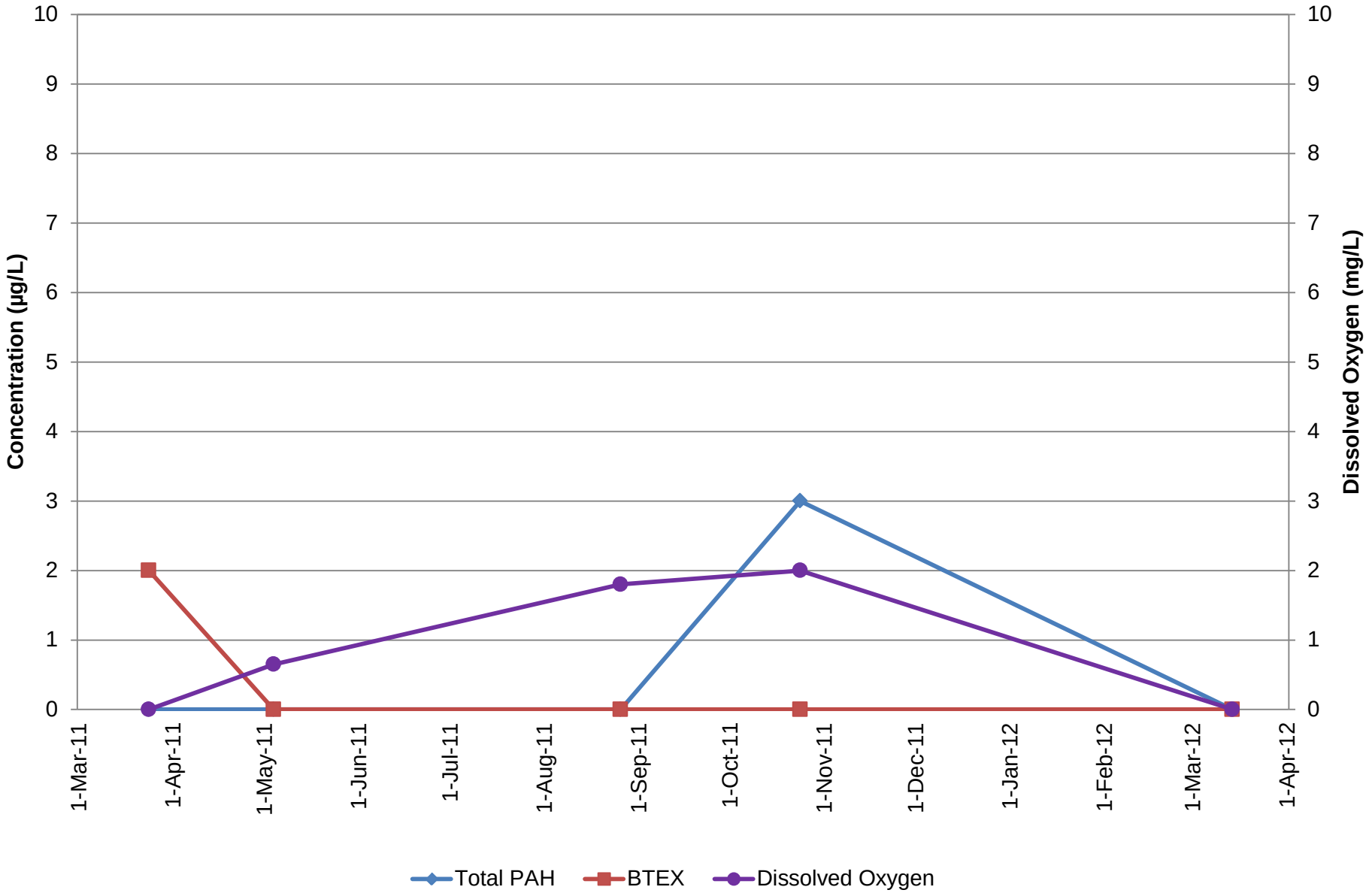
Monitoring Well OU2MW-57I2
35-45 ft bgs



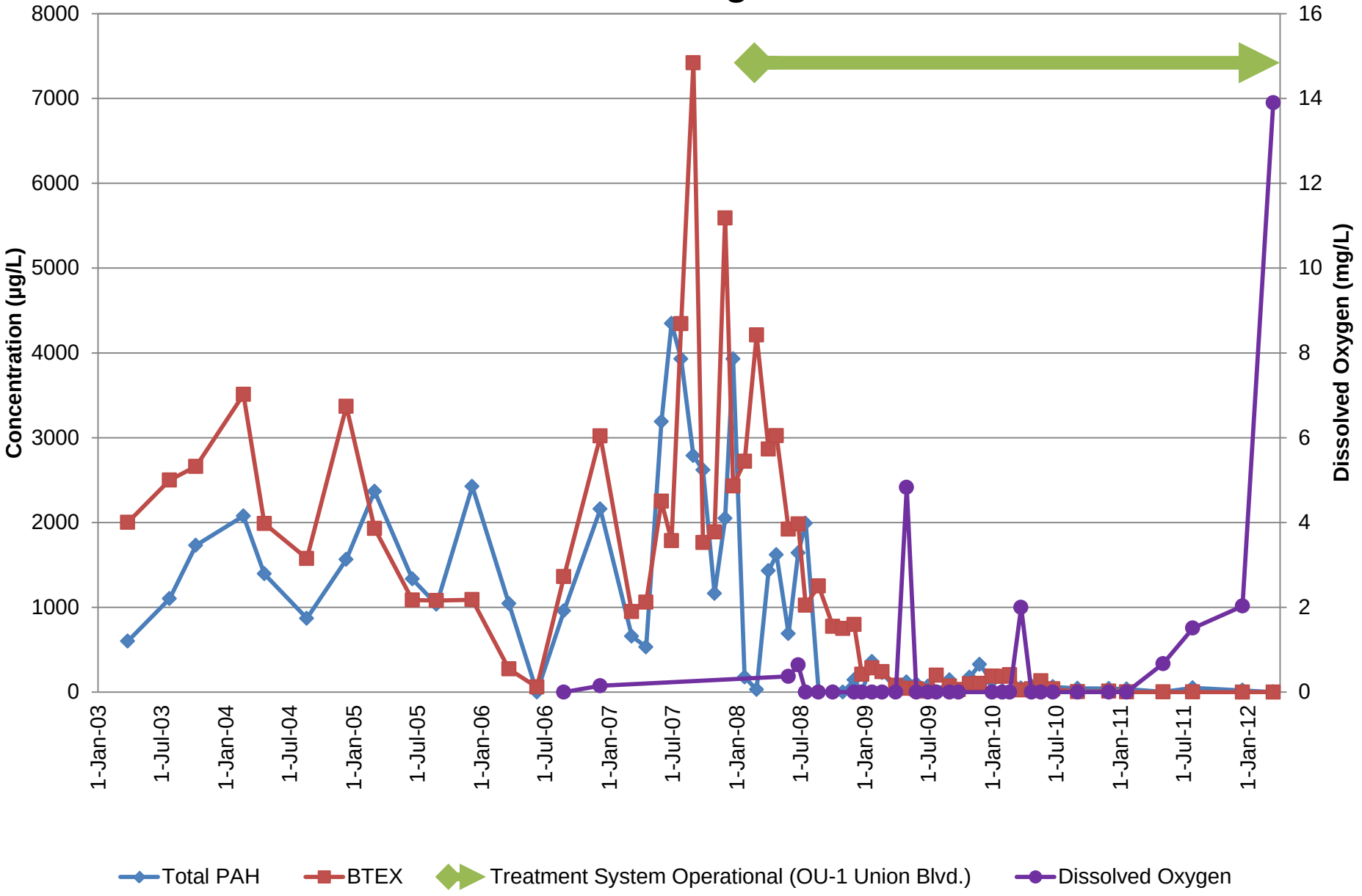
Monitoring Well OU2MW-58S
5-15 ft bgs



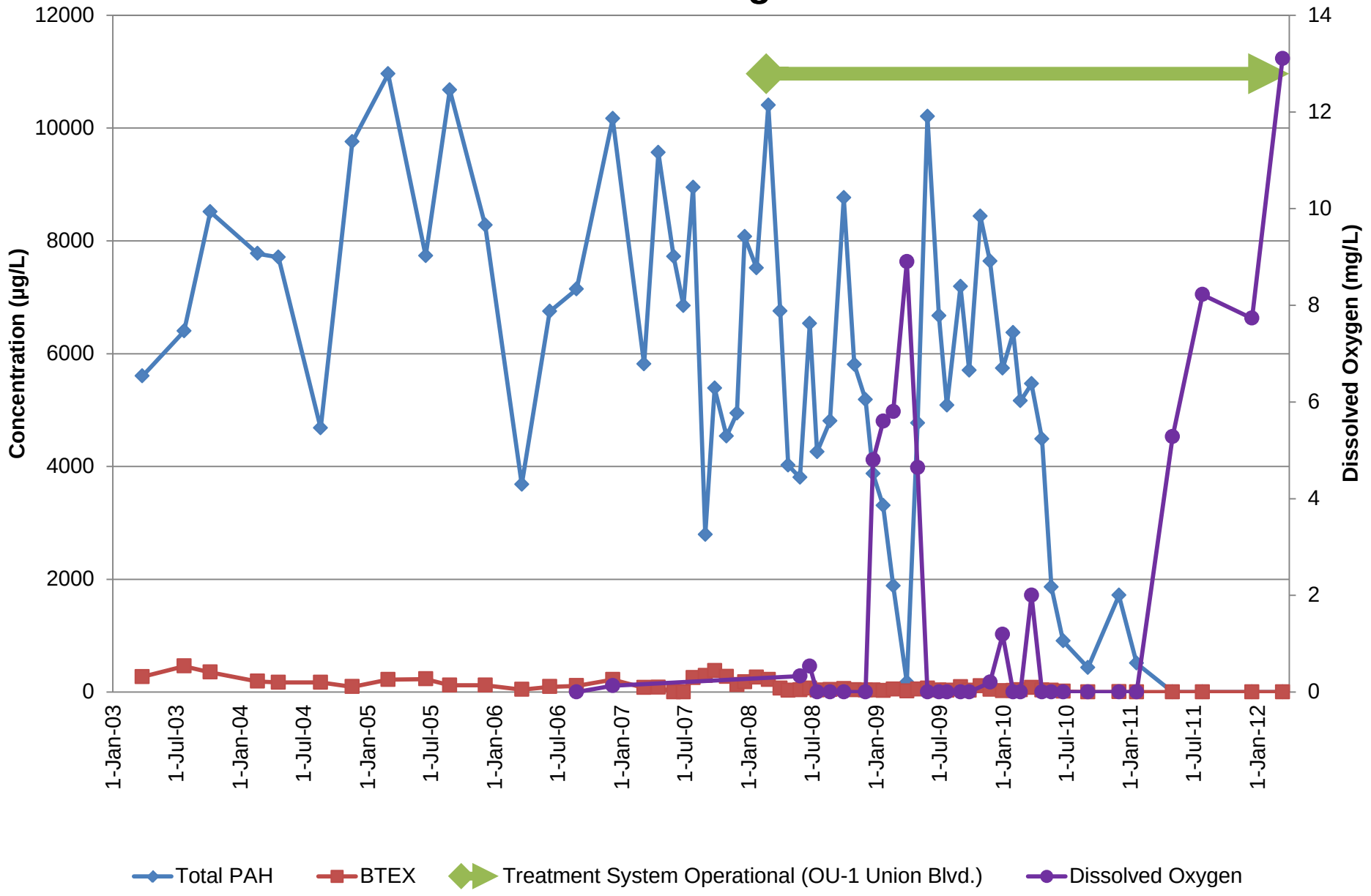
Monitoring Well OU2MW-58I
25-30 ft bgs



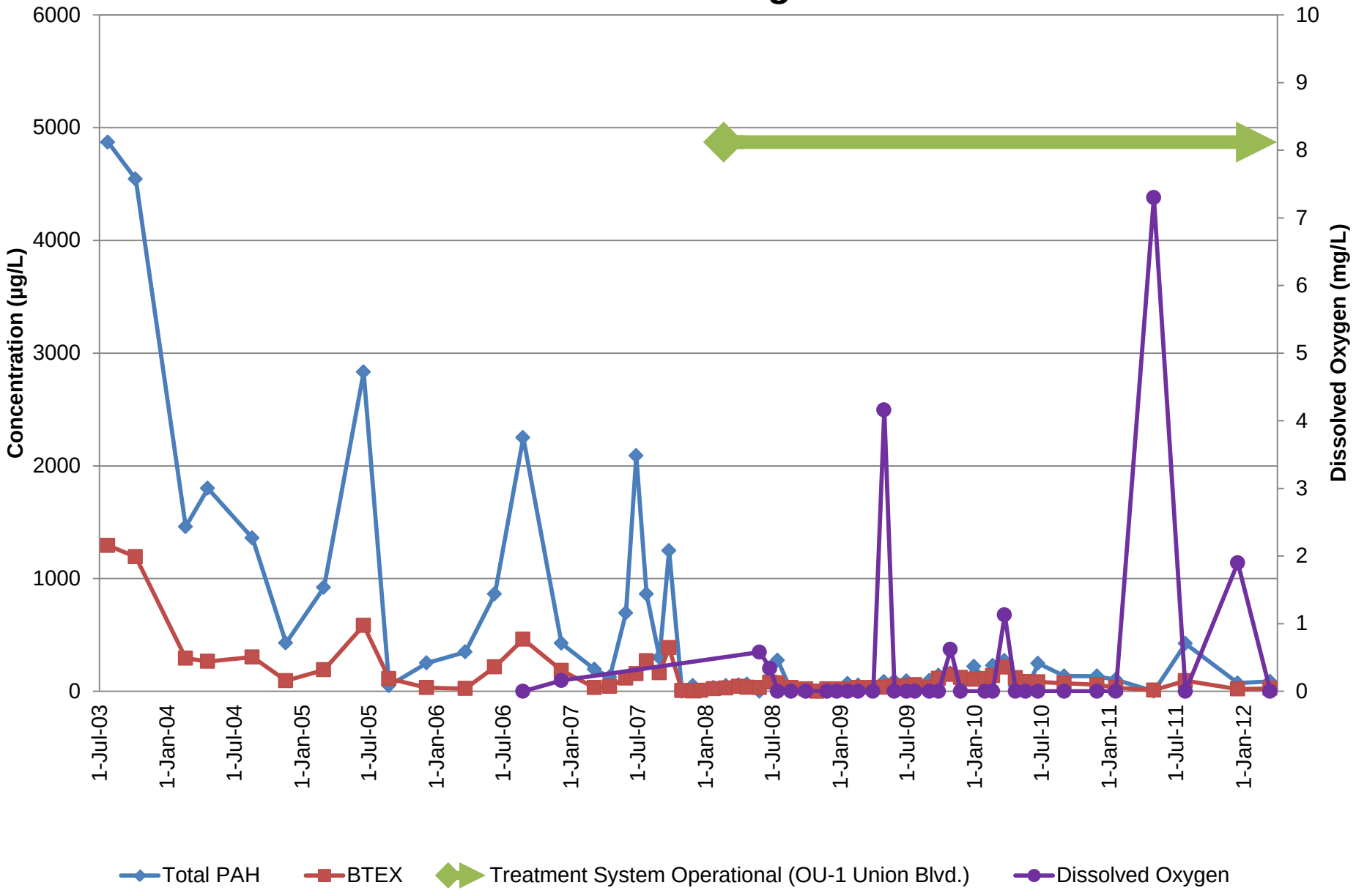
Monitoring Well BBMW-01S
5-15 ft bgs



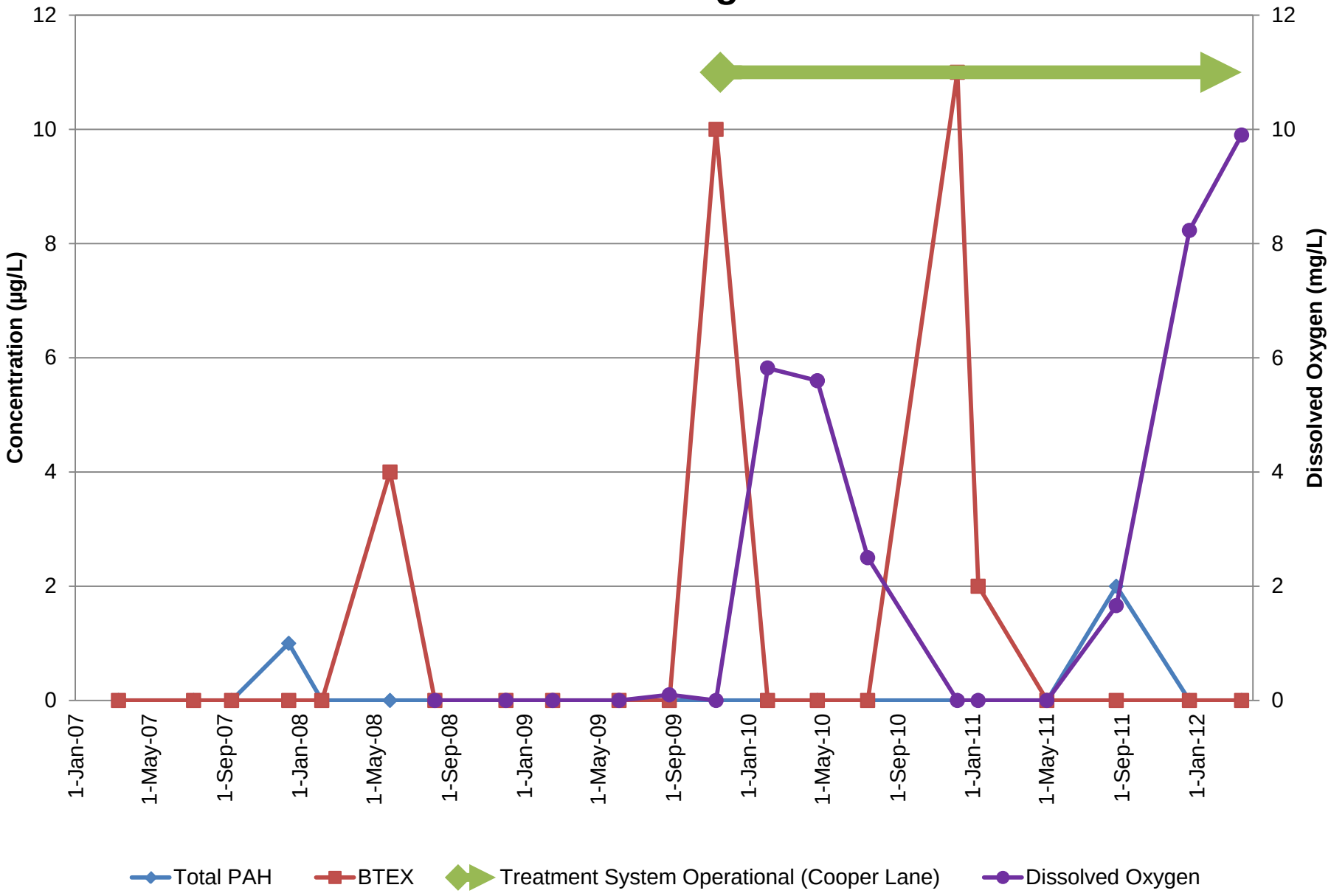
Monitoring Well BBMW-01I
32-42 ft bgs



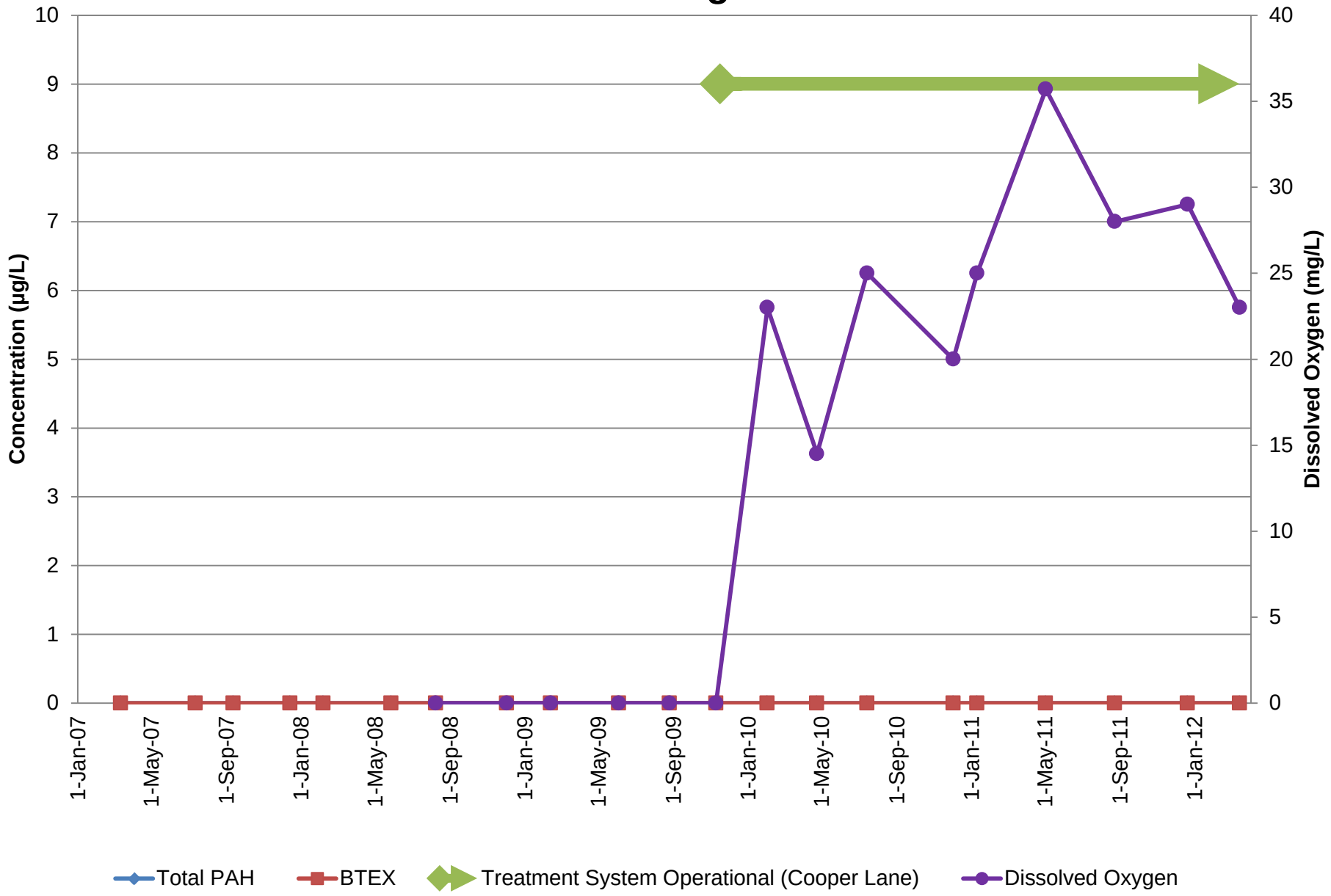
Monitoring Well BBMW-01D
68.5-78.5 ft bgs



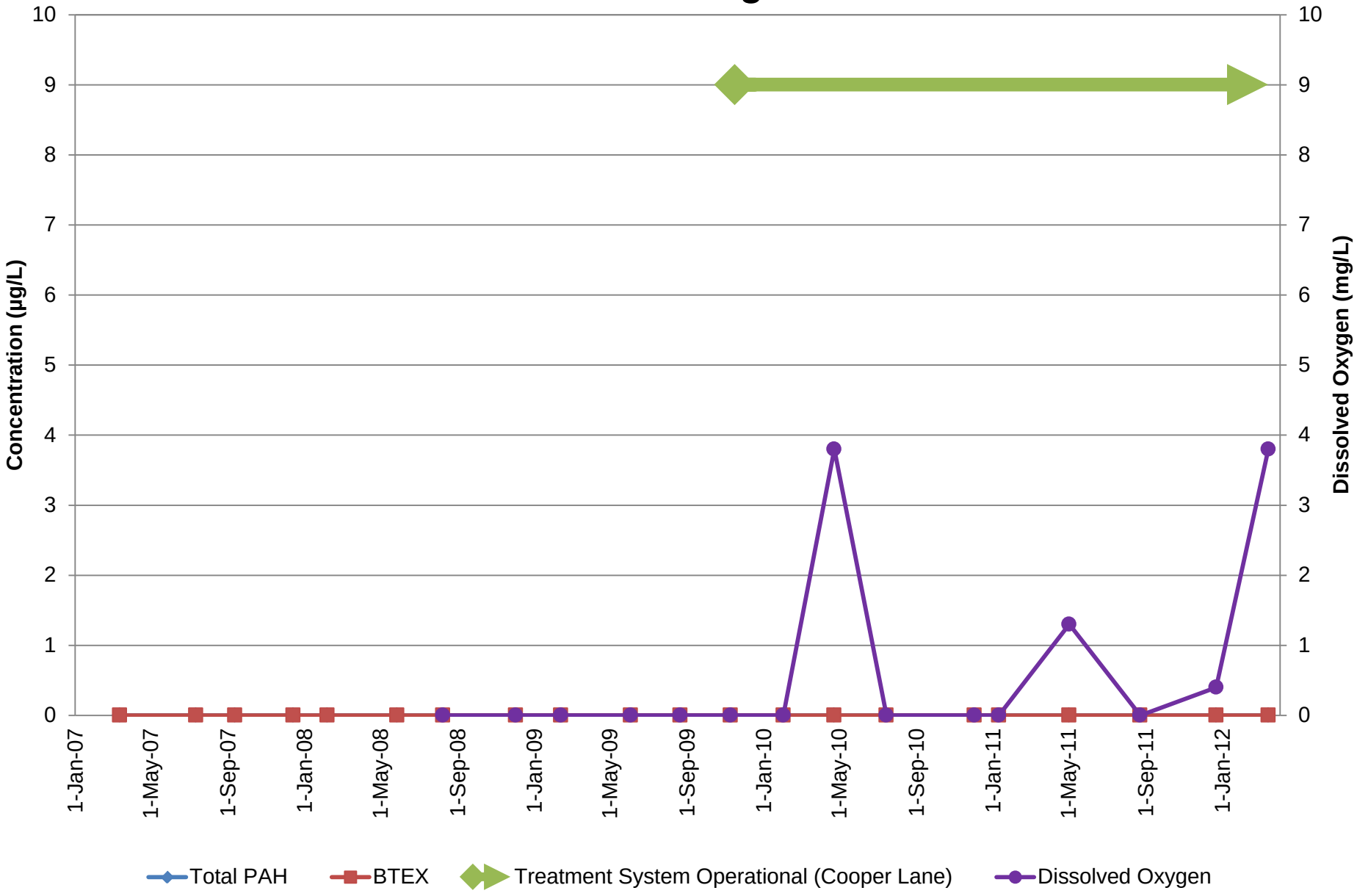
Monitoring Well BBMW-02S
5-15 ft bgs



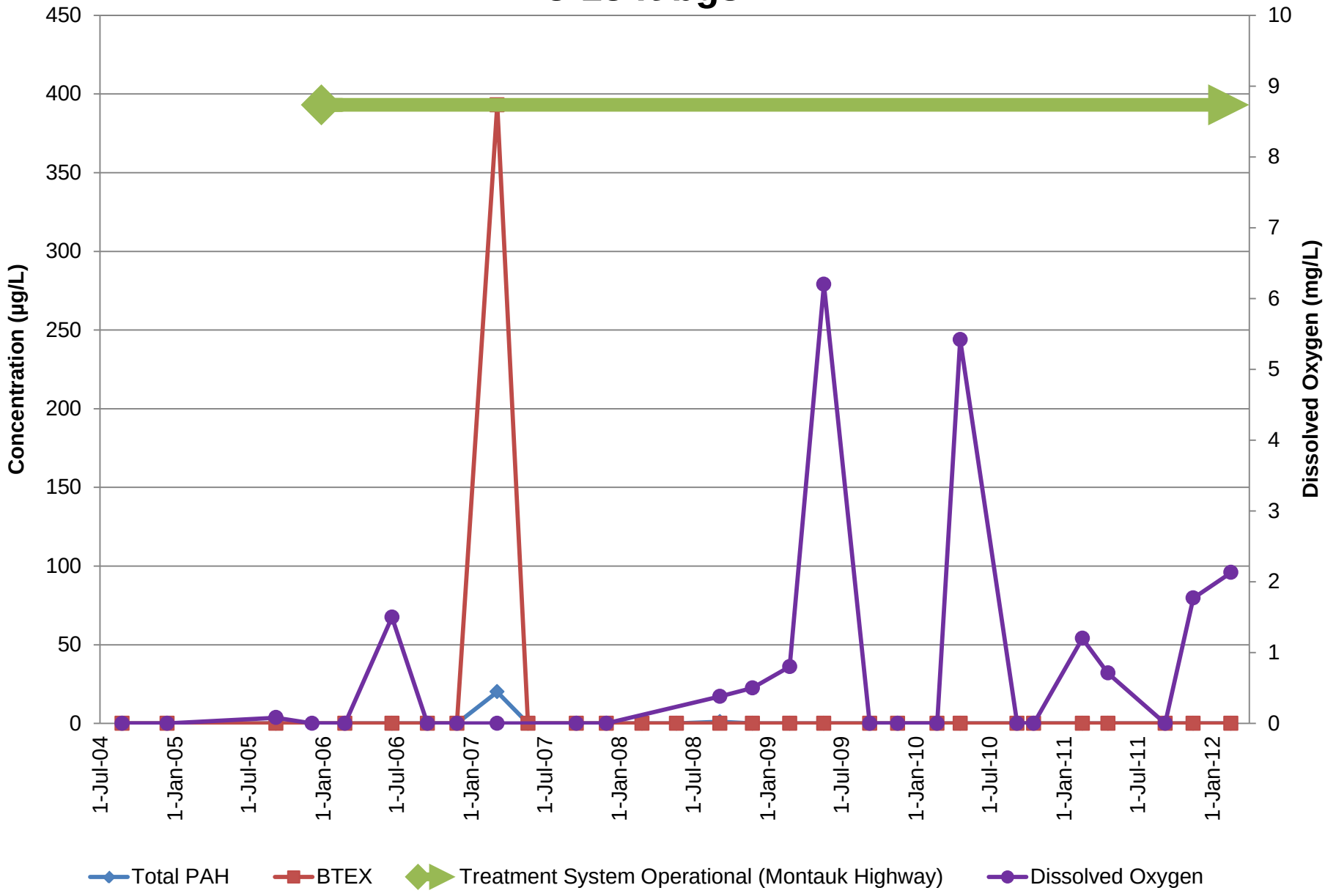
Monitoring Well BBMW-02I
30-40 ft bgs



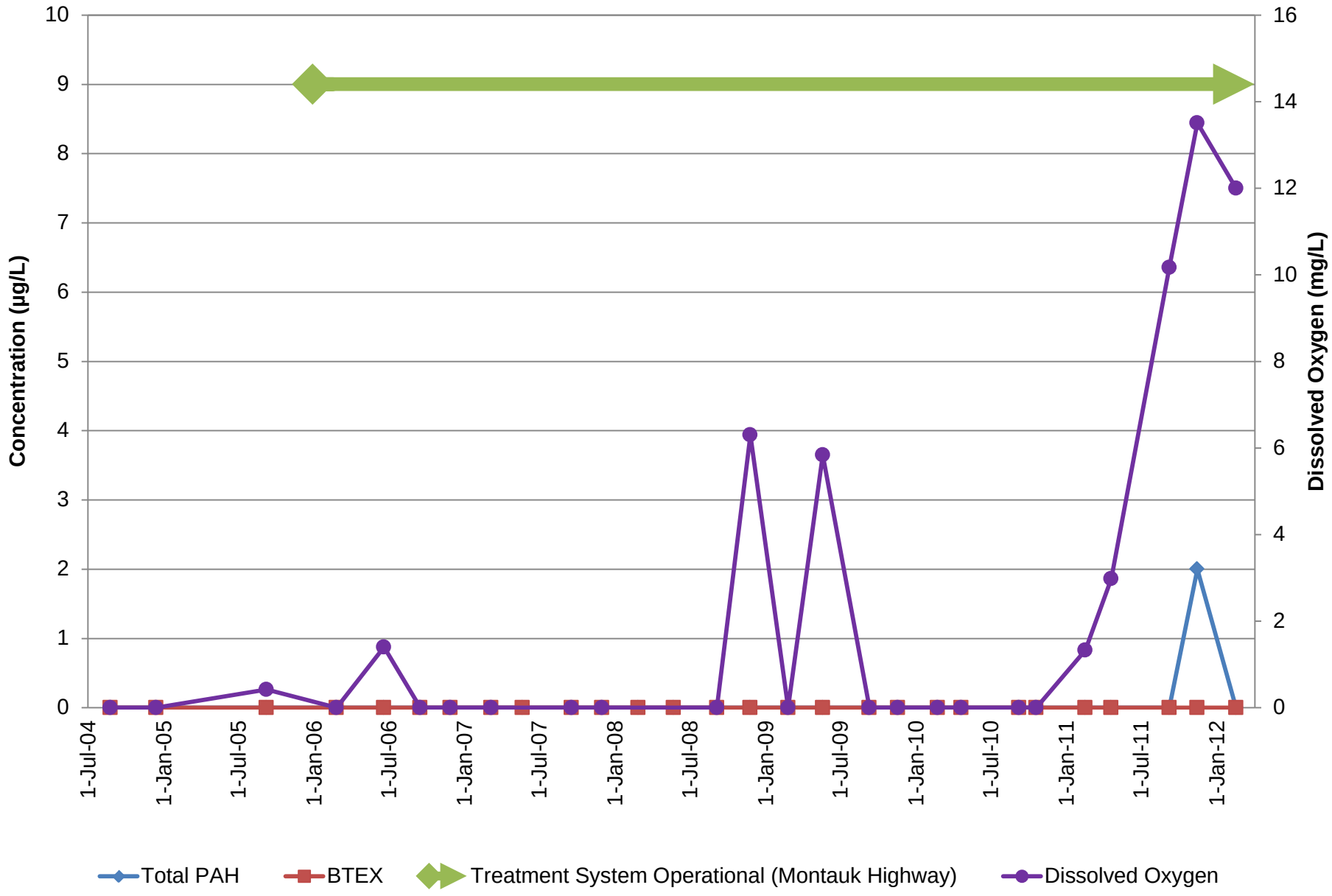
Monitoring Well BBMW-02D
73-83 ft bgs



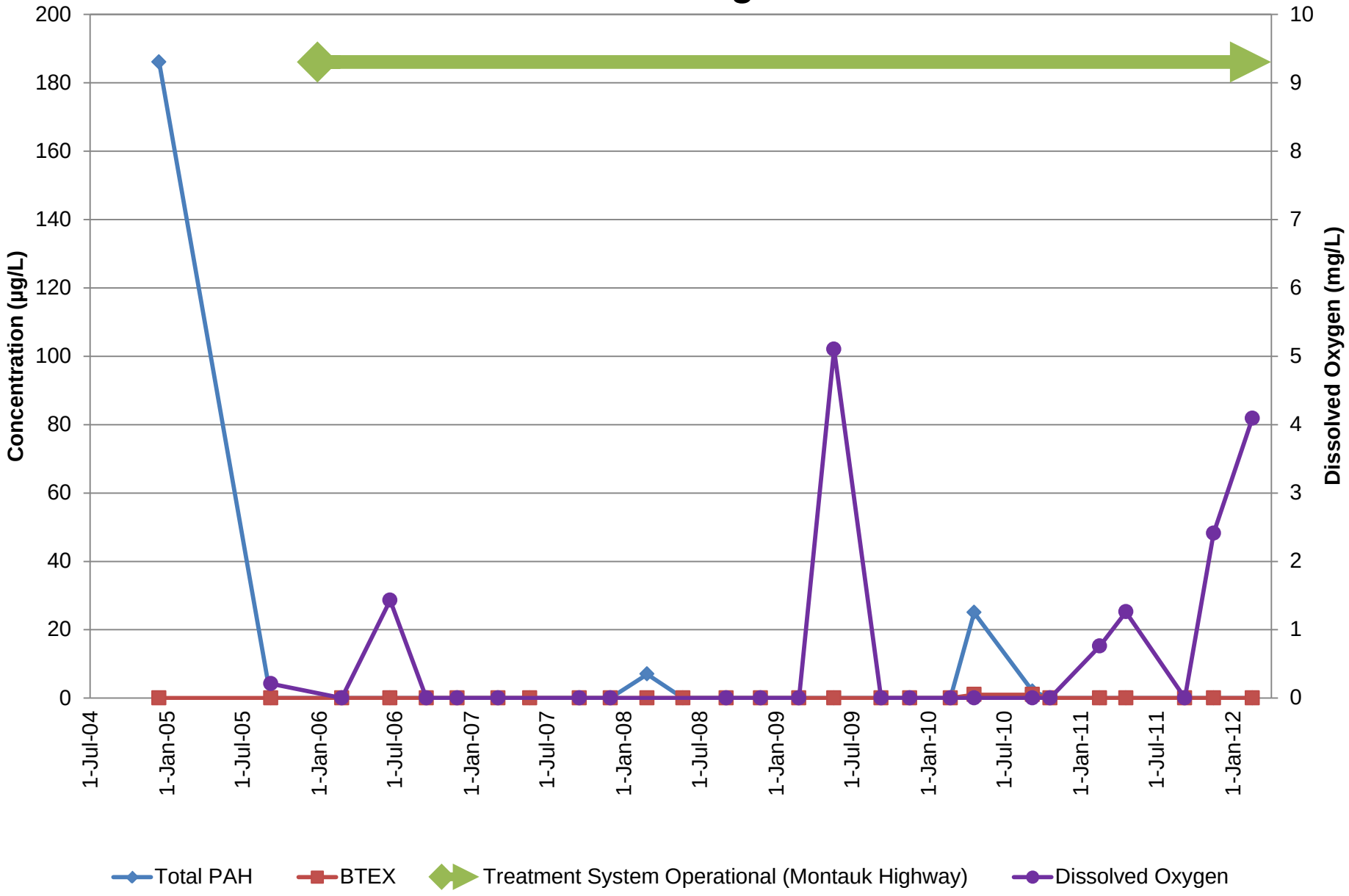
Monitoring Well BBMW-03S
3-13 ft bgs



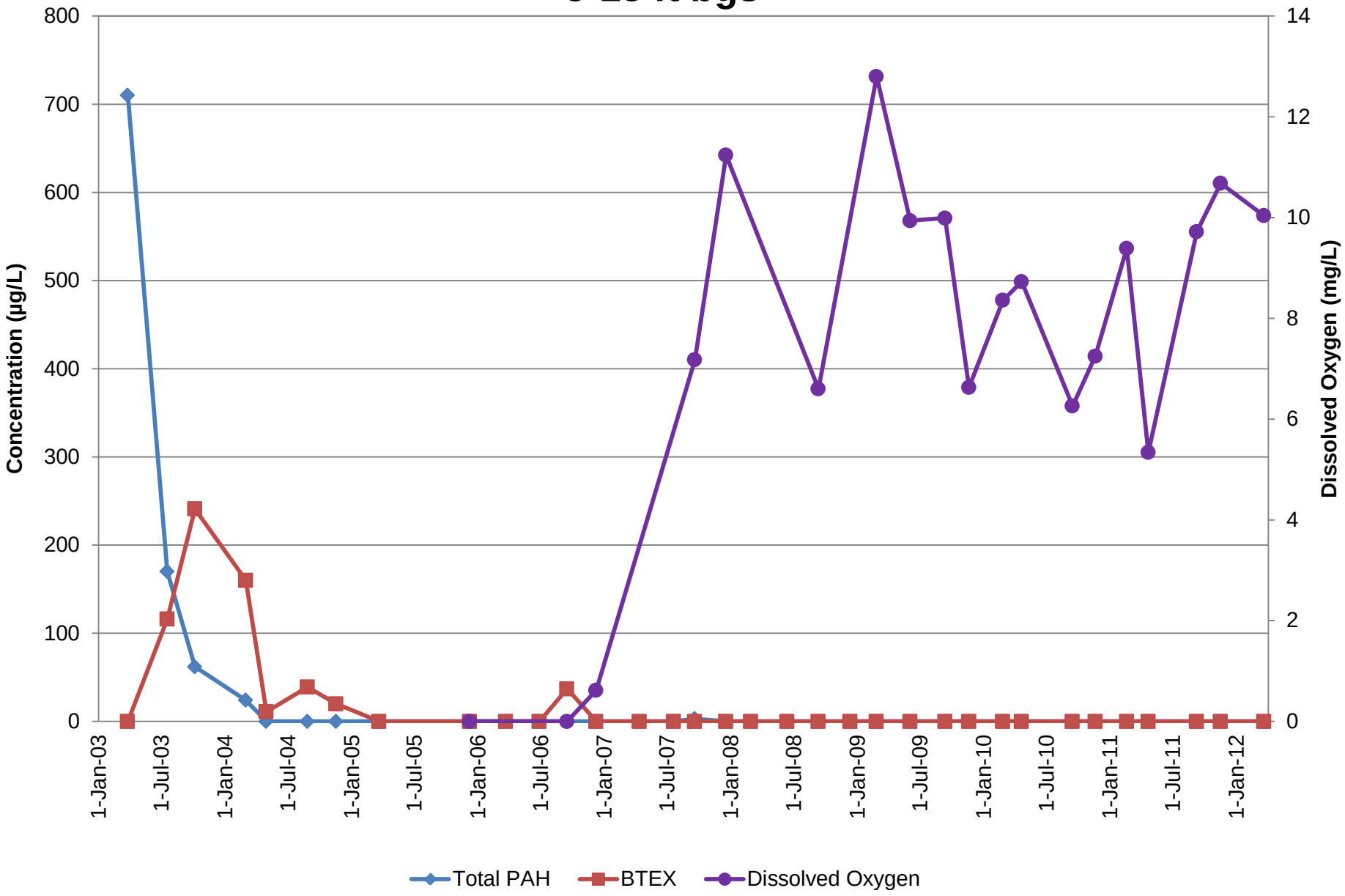
Monitoring Well BBMW-03I
30-40 ft bgs



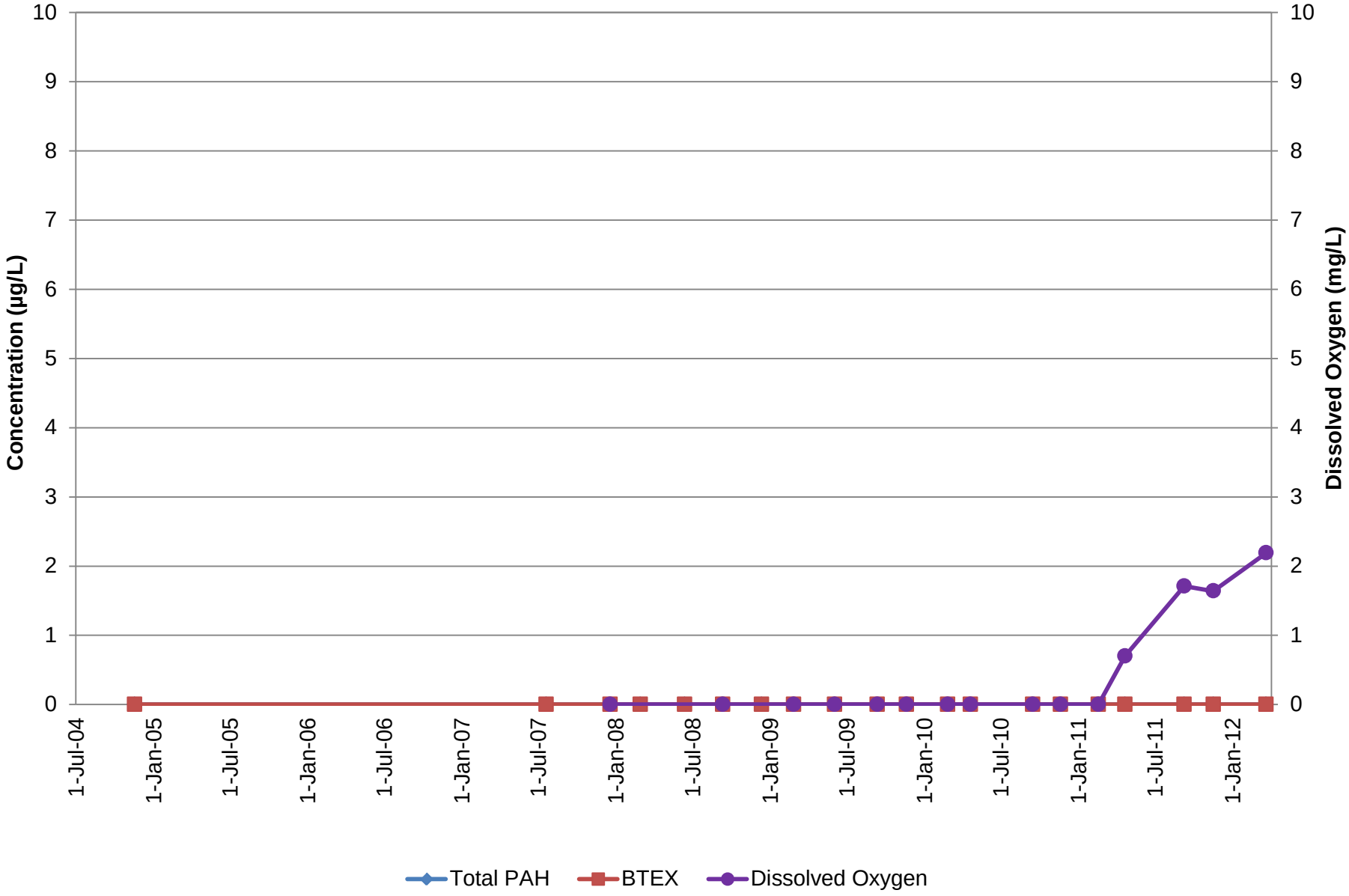
Monitoring Well BBMW-03D
52-62 ft bgs



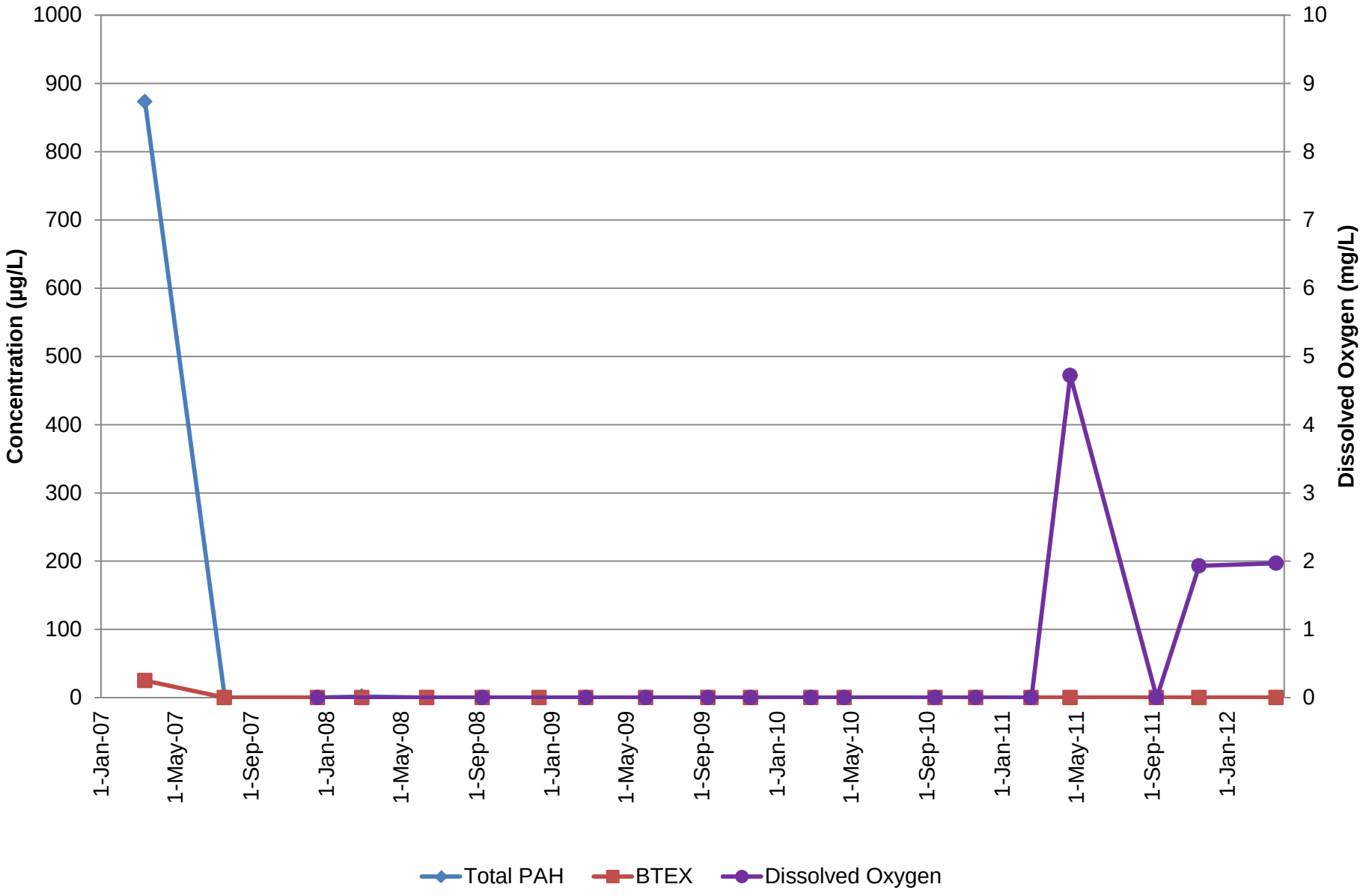
Monitoring Well BBMW-07S
5-15 ft bgs



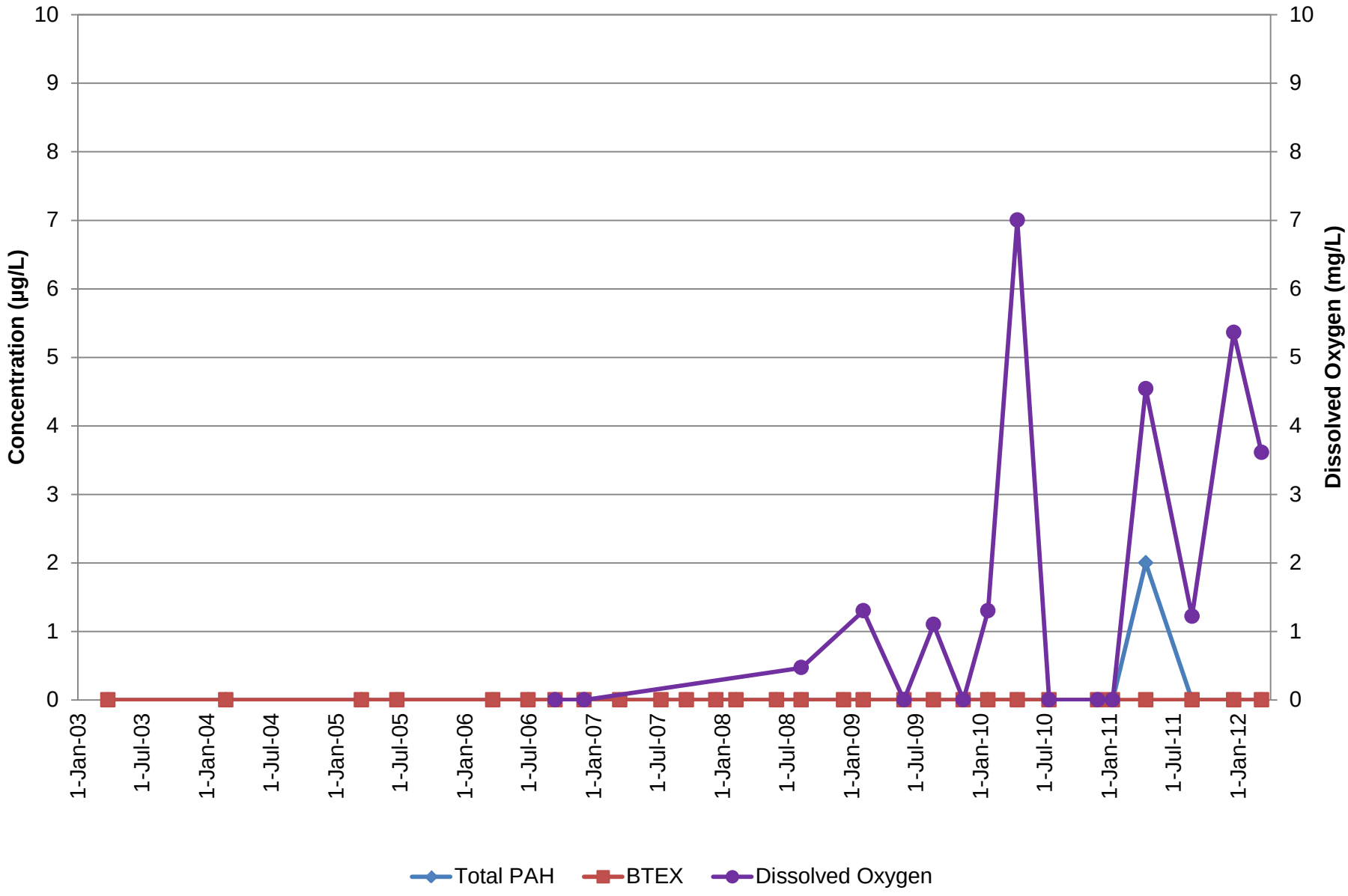
Monitoring Well BBMW-07I
30-40 ft bgs

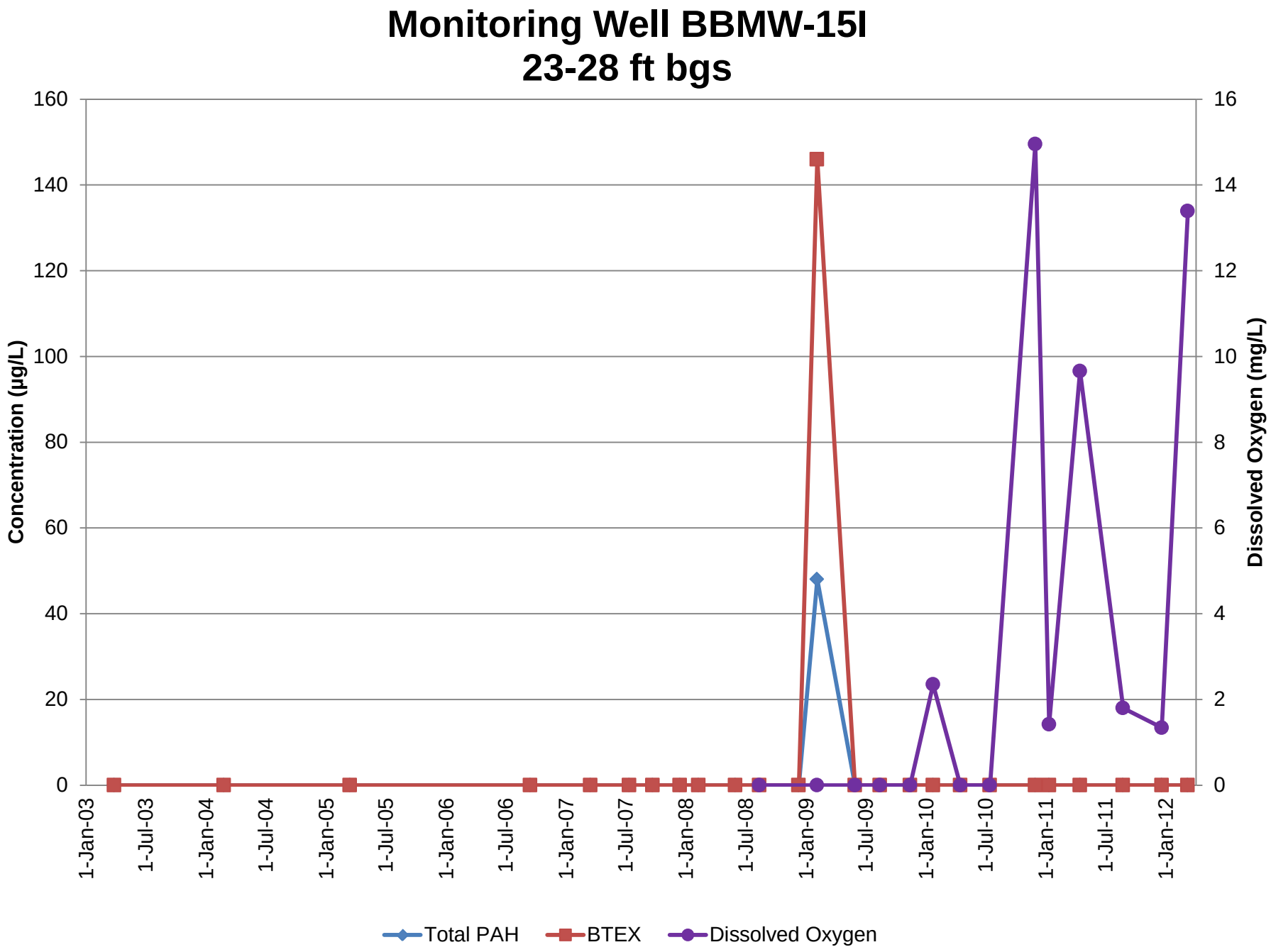


Monitoring Well BBMW-07D
55-65 ft bgs

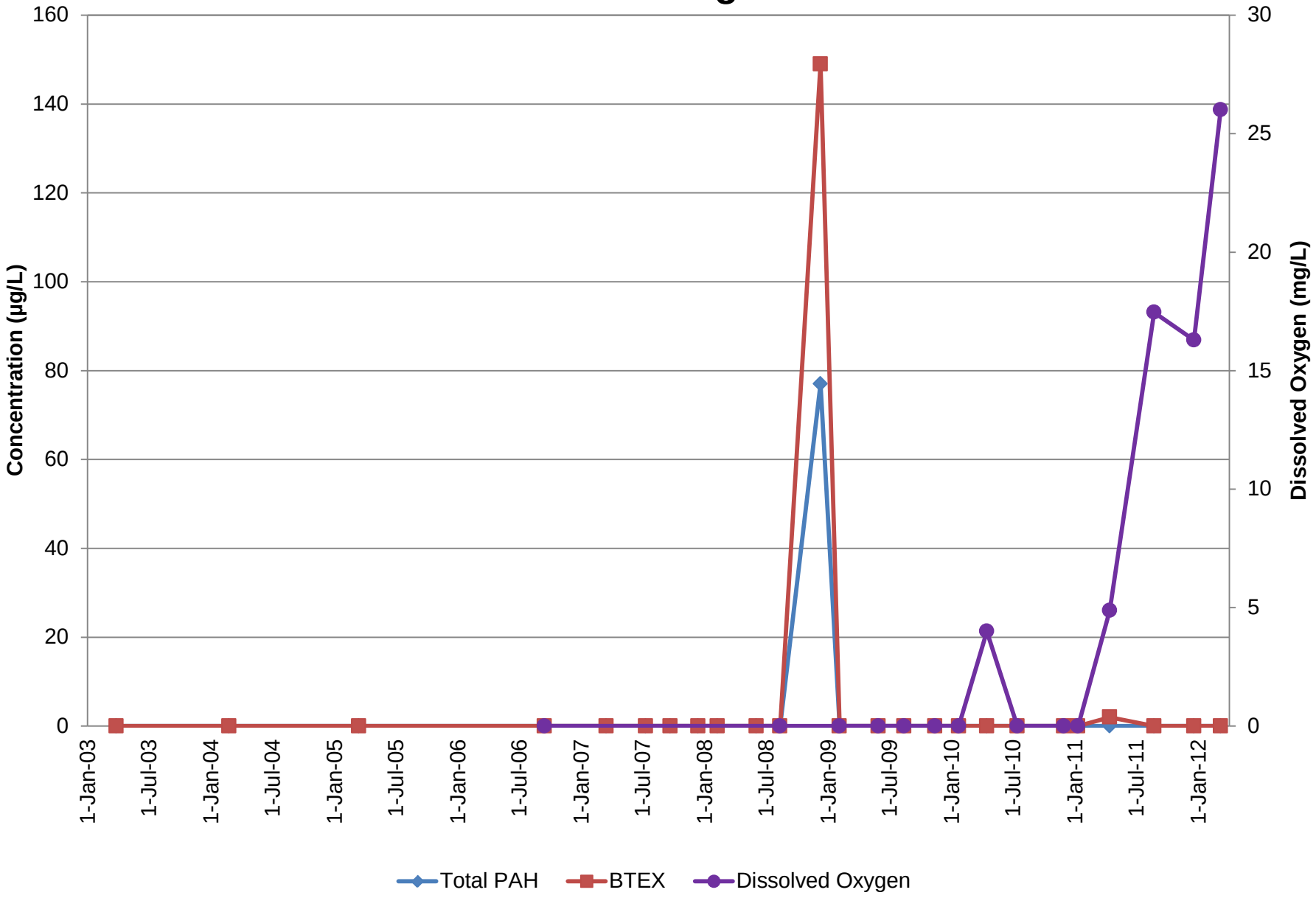


Monitoring Well BBMW-15S
5-15 ft bgs

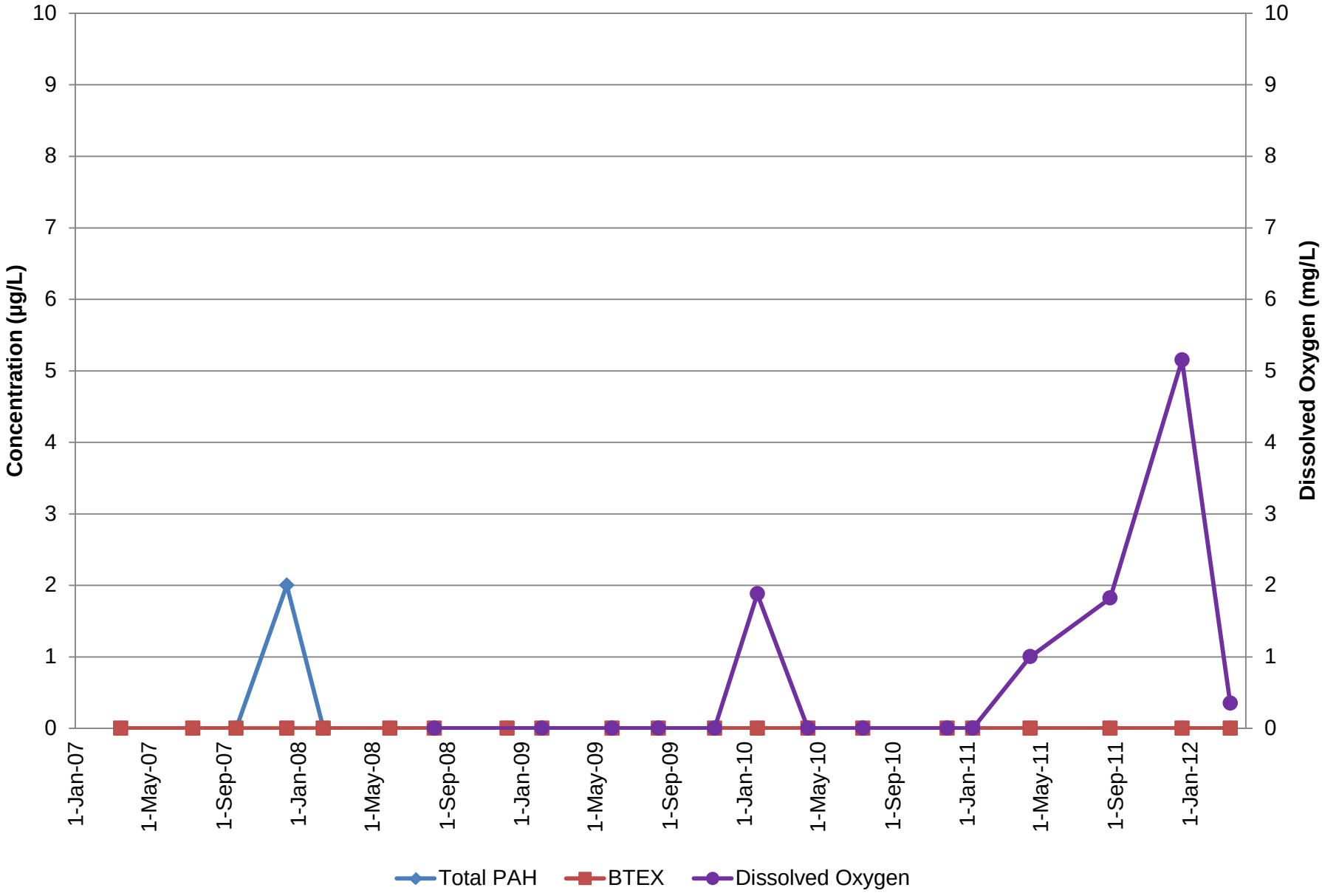



Monitoring Well BBMW-15I
23-28 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
160
140
120
100
80
60
40
20
0
16
14
12
10
8
6
4
2
0
1-Jan-03
1-Jul-03
1-Jan-04
1-Jul-04
1-Jan-05
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Dissolved Oxygen

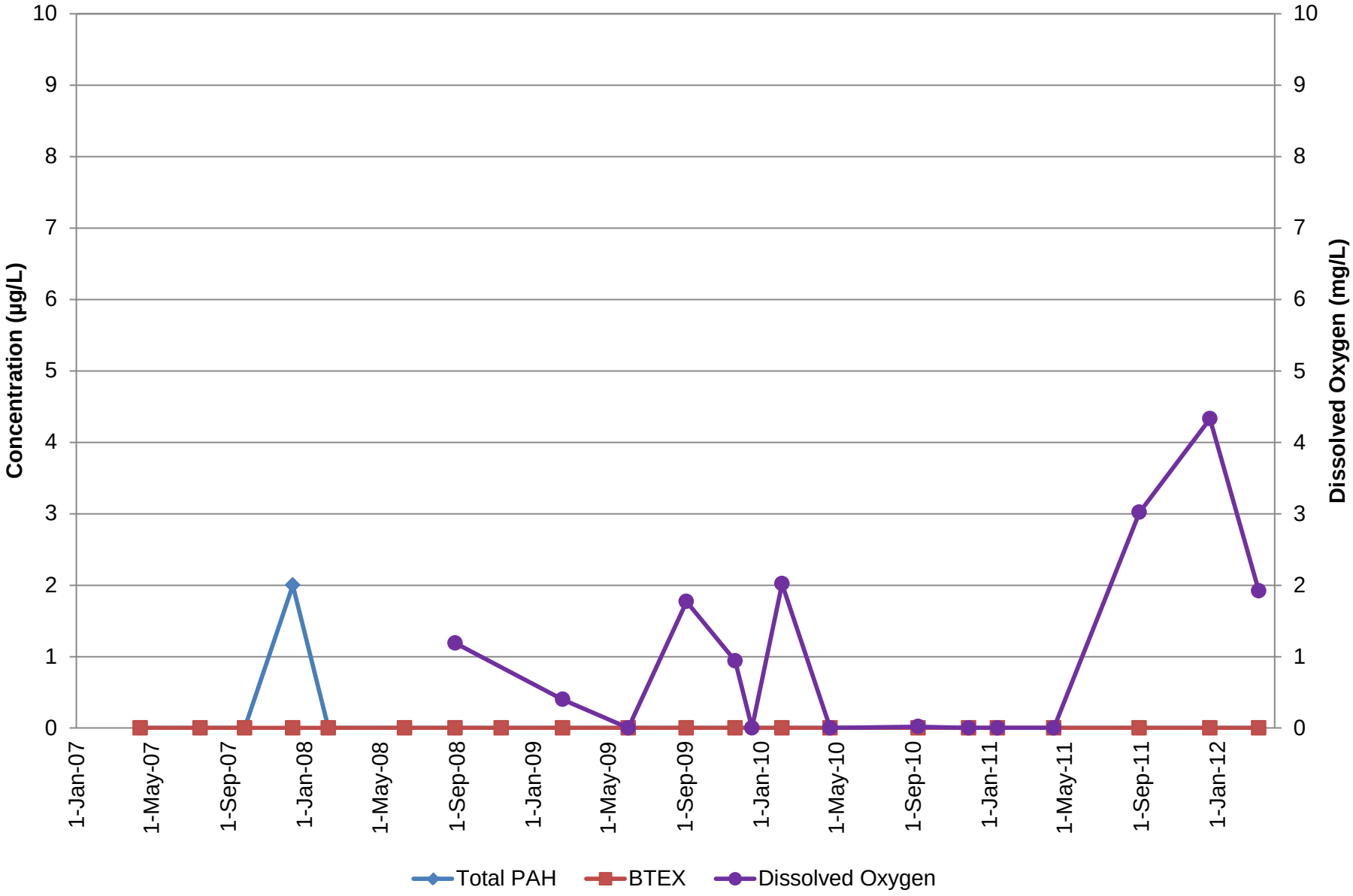
Monitoring Well BBMW-15I2
35-45 ft bgs



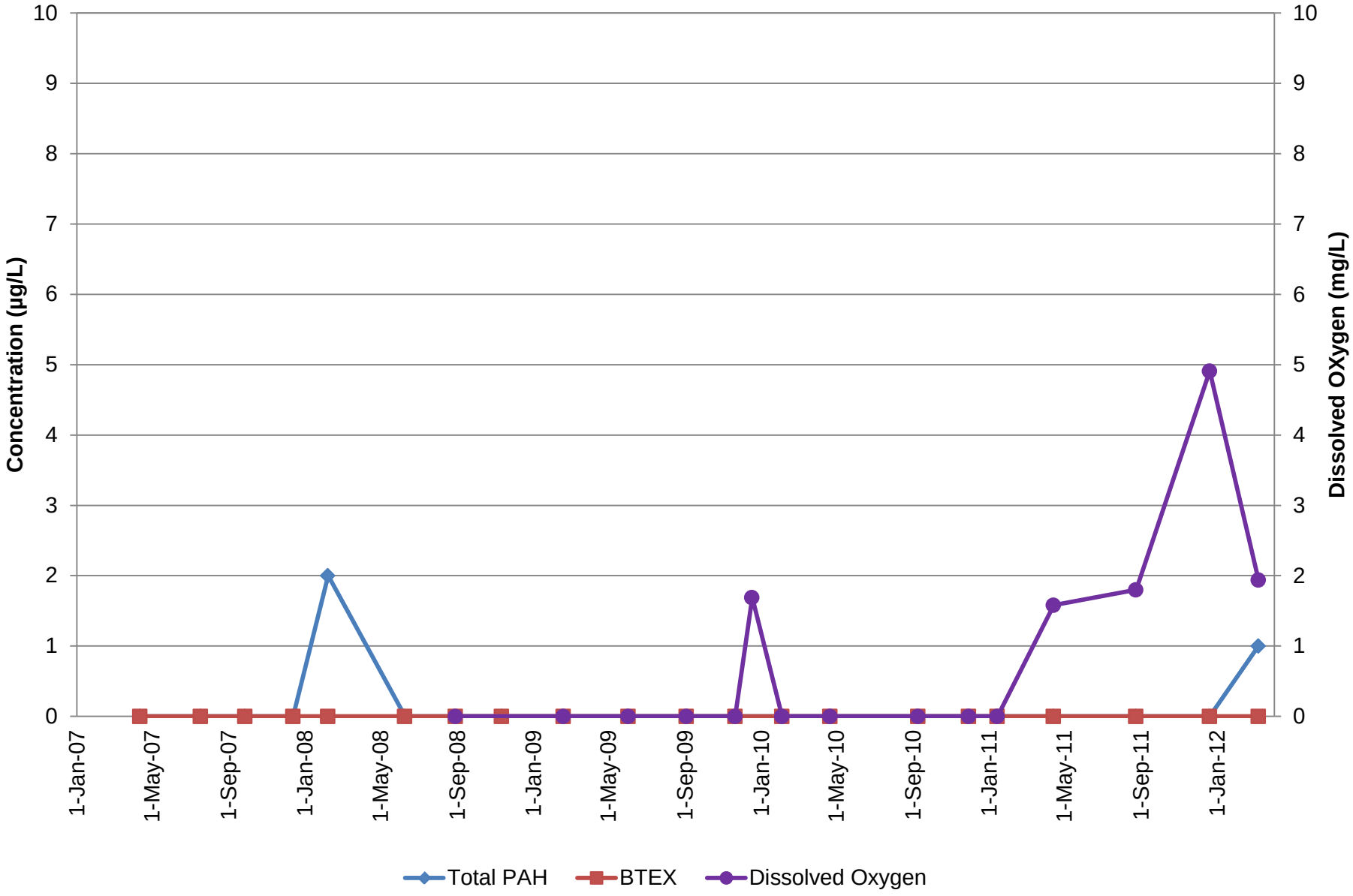
Monitoring Well BBMW-15D
70-80 ft bgs

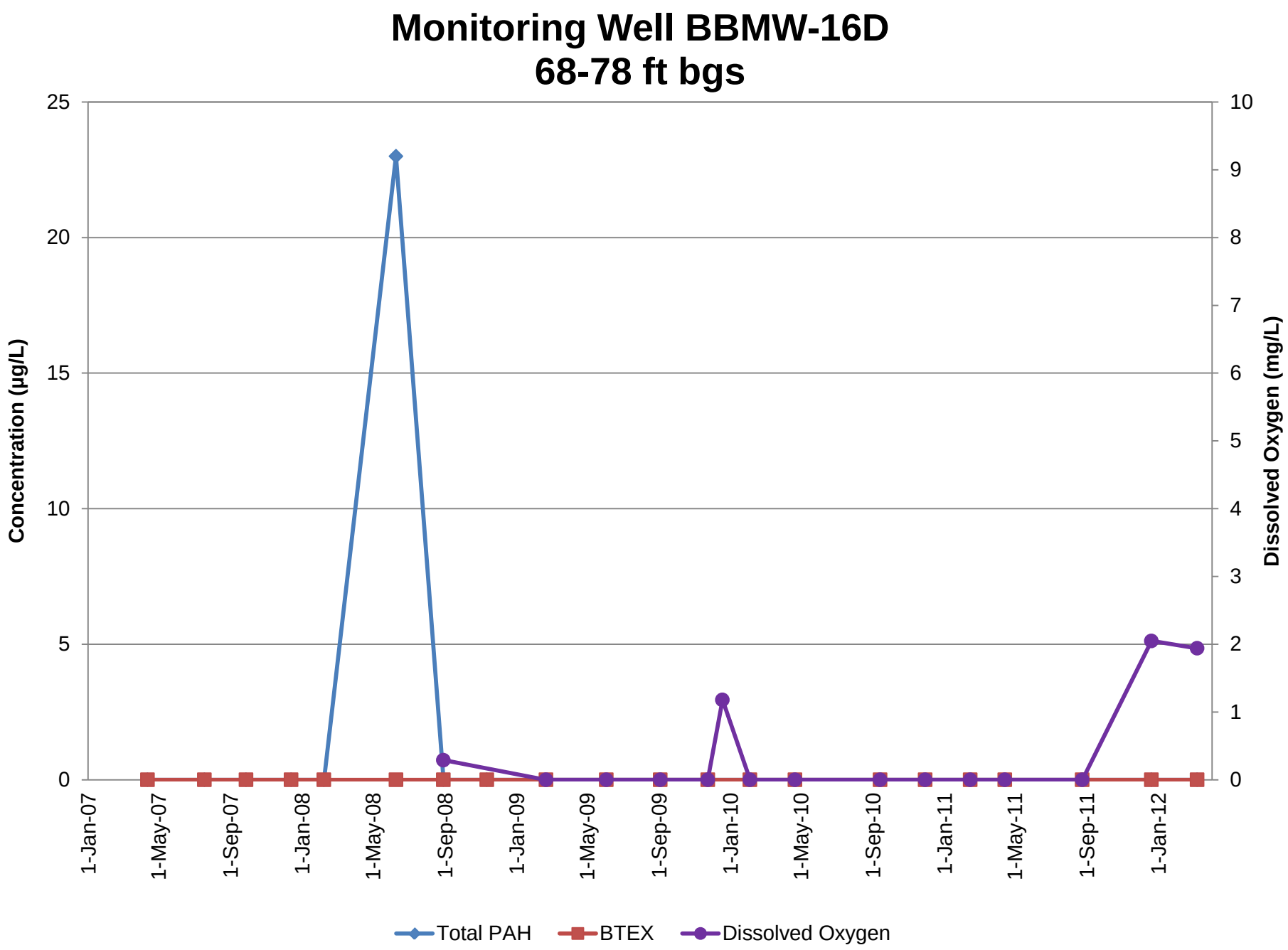


Monitoring Well BBMW-16S
5-15 ft bgs

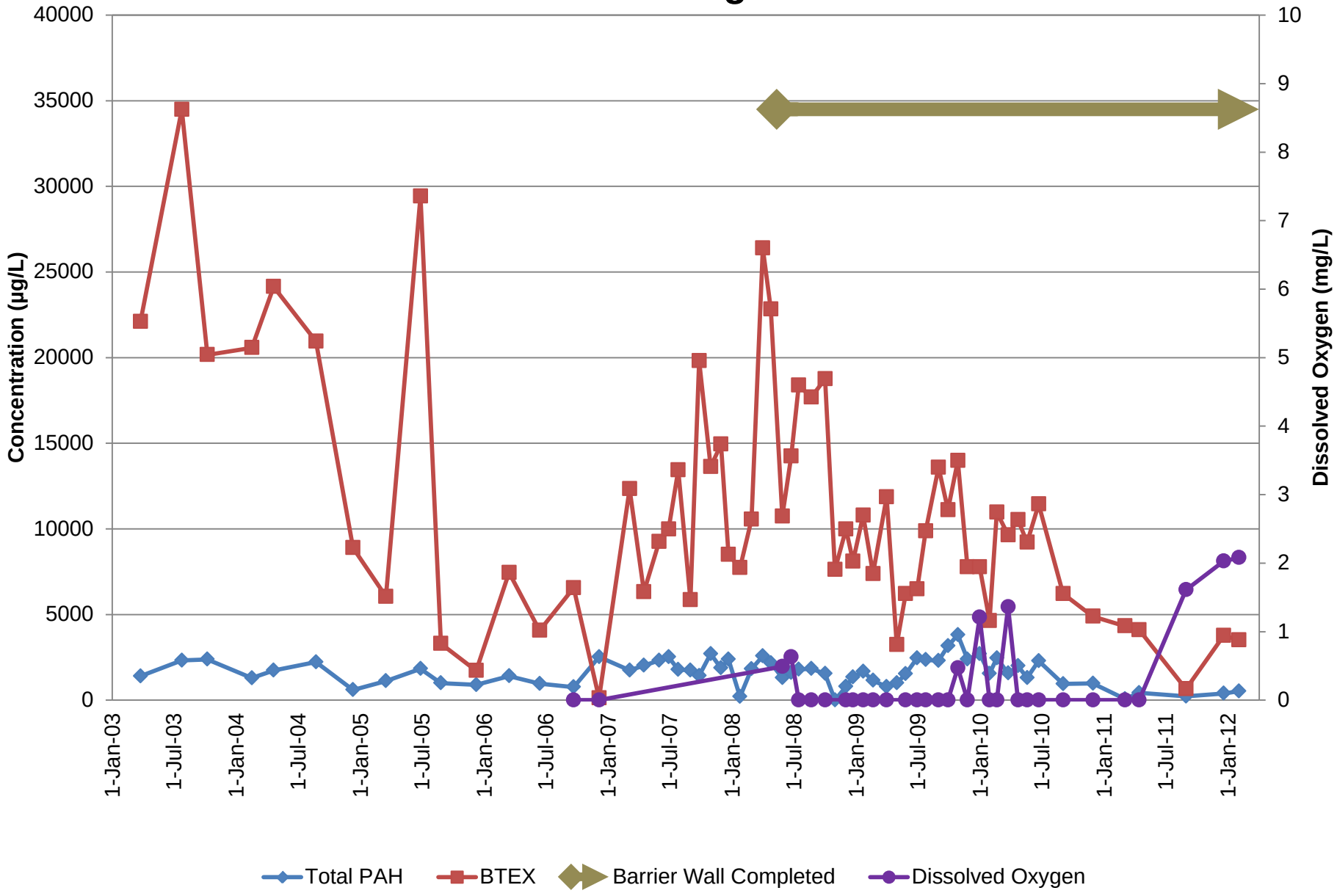


Monitoring Well BBMW-16I
35-45 ft bgs

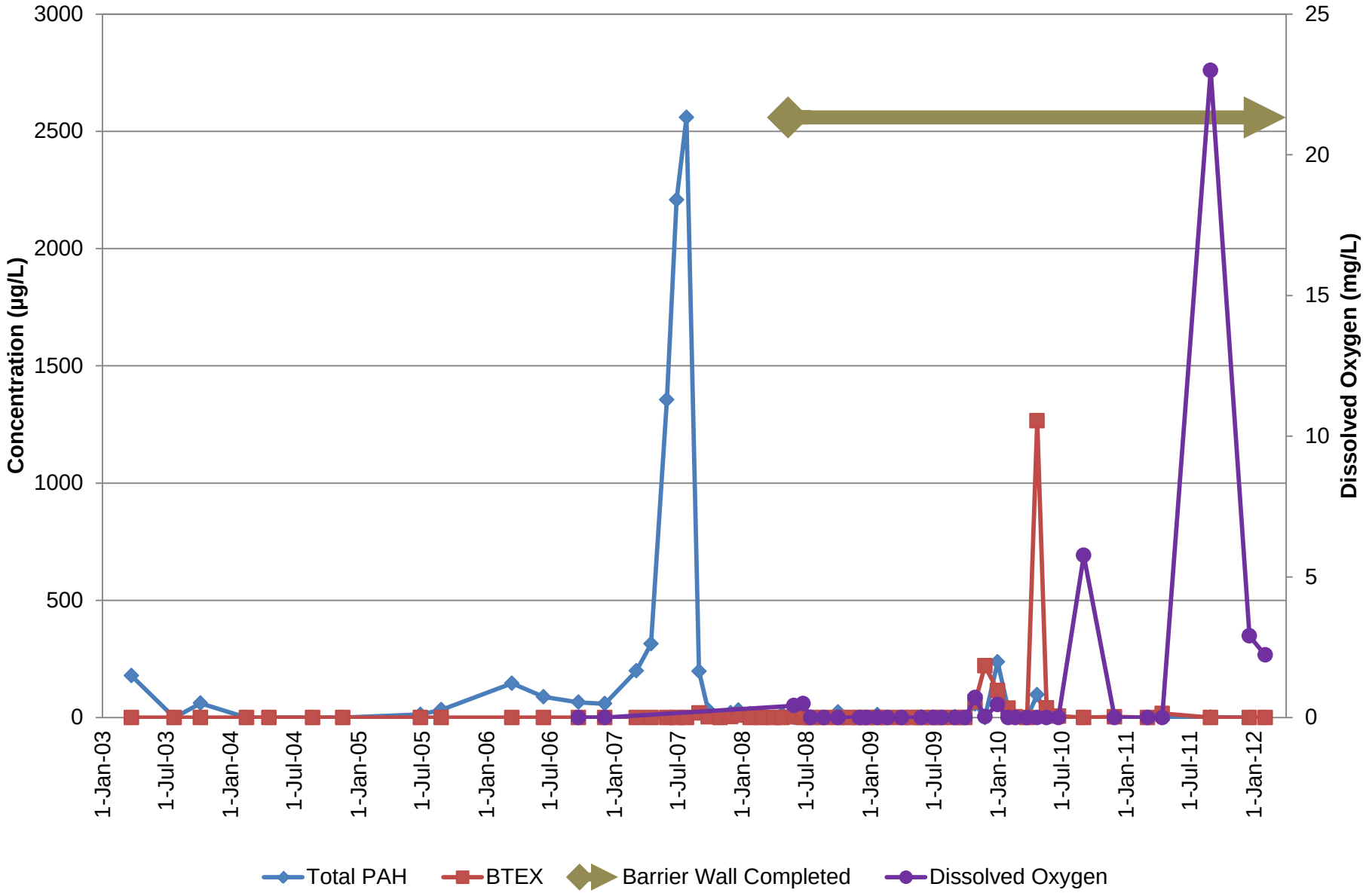



Monitoring Well BBMW-16D
68-78 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
25
20
15
10
5
0
10
9
8
7
6
5
4
3
2
1
0
1-Jan-07
1-May-07
1-Sep-07
1-Jan-08
1-May-08
1-Sep-08
1-Jan-09
1-May-09
1-Sep-09
1-Jan-10
1-May-10
1-Sep-10
1-Jan-11
1-May-11
1-Sep-11
1-Jan-12
Total PAH
BTEX
Dissolved Oxygen

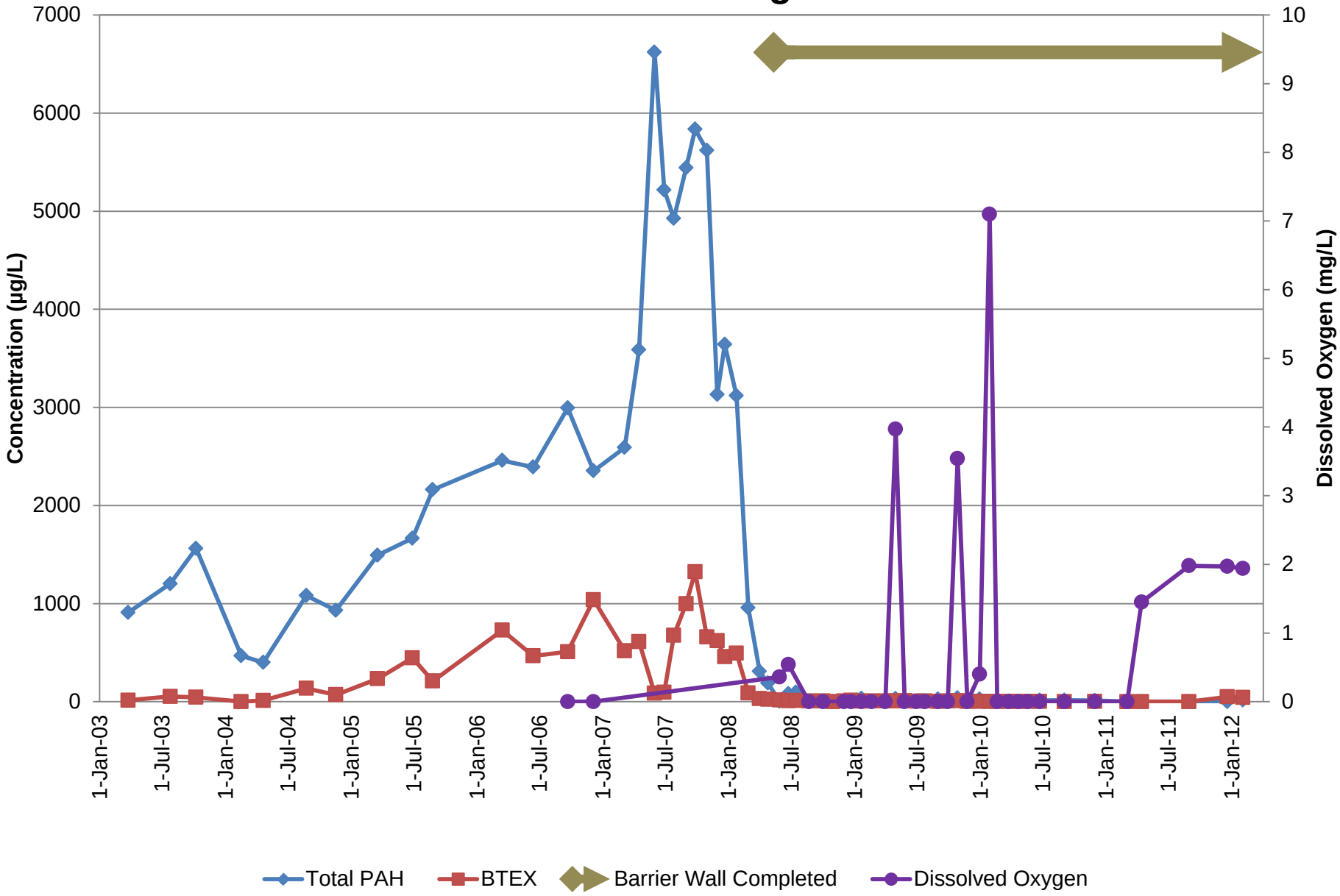
Monitoring Well BBMW-23S
5-15 ft bgs



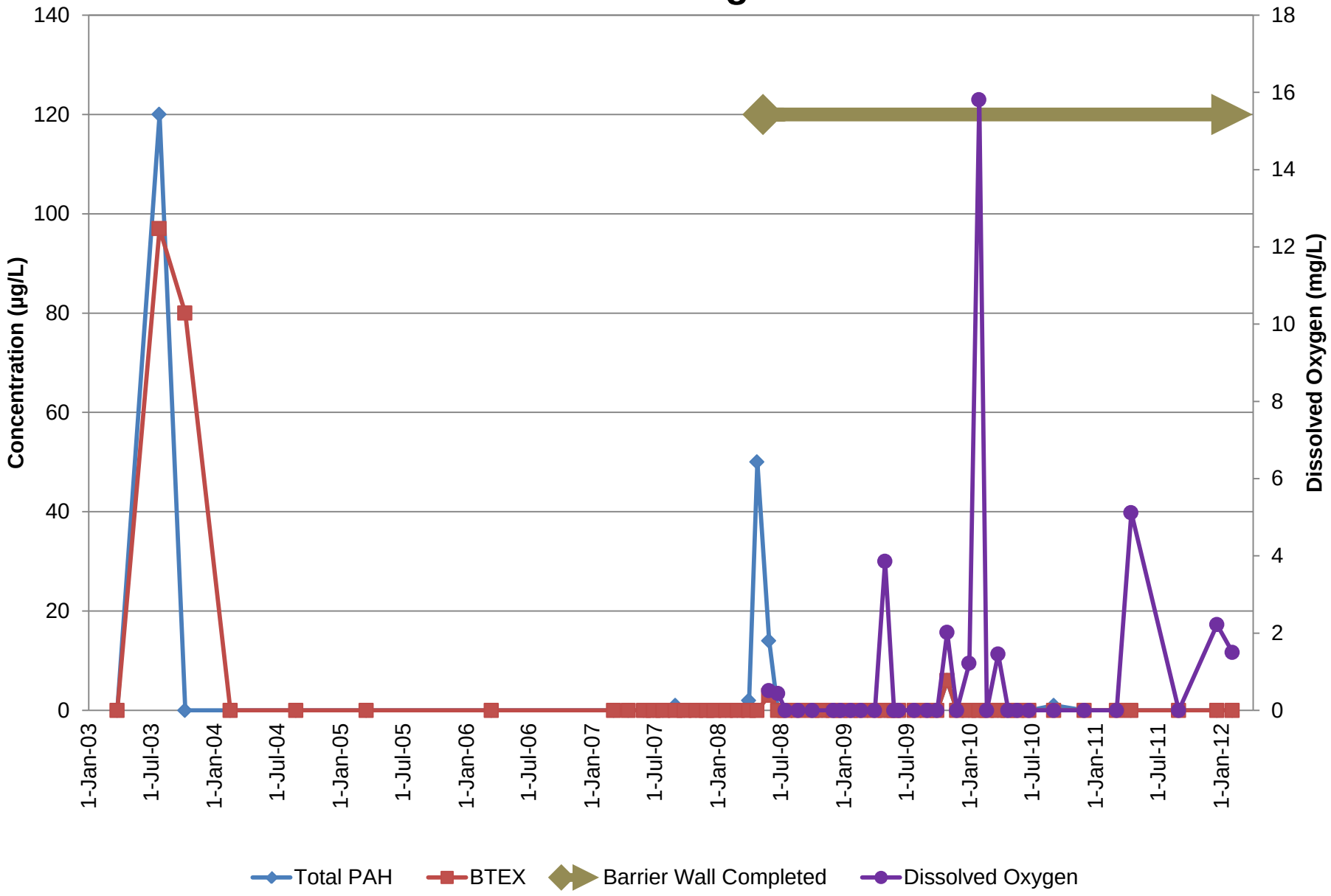
Monitoring Well BBMW-23I
33-43 ft bgs



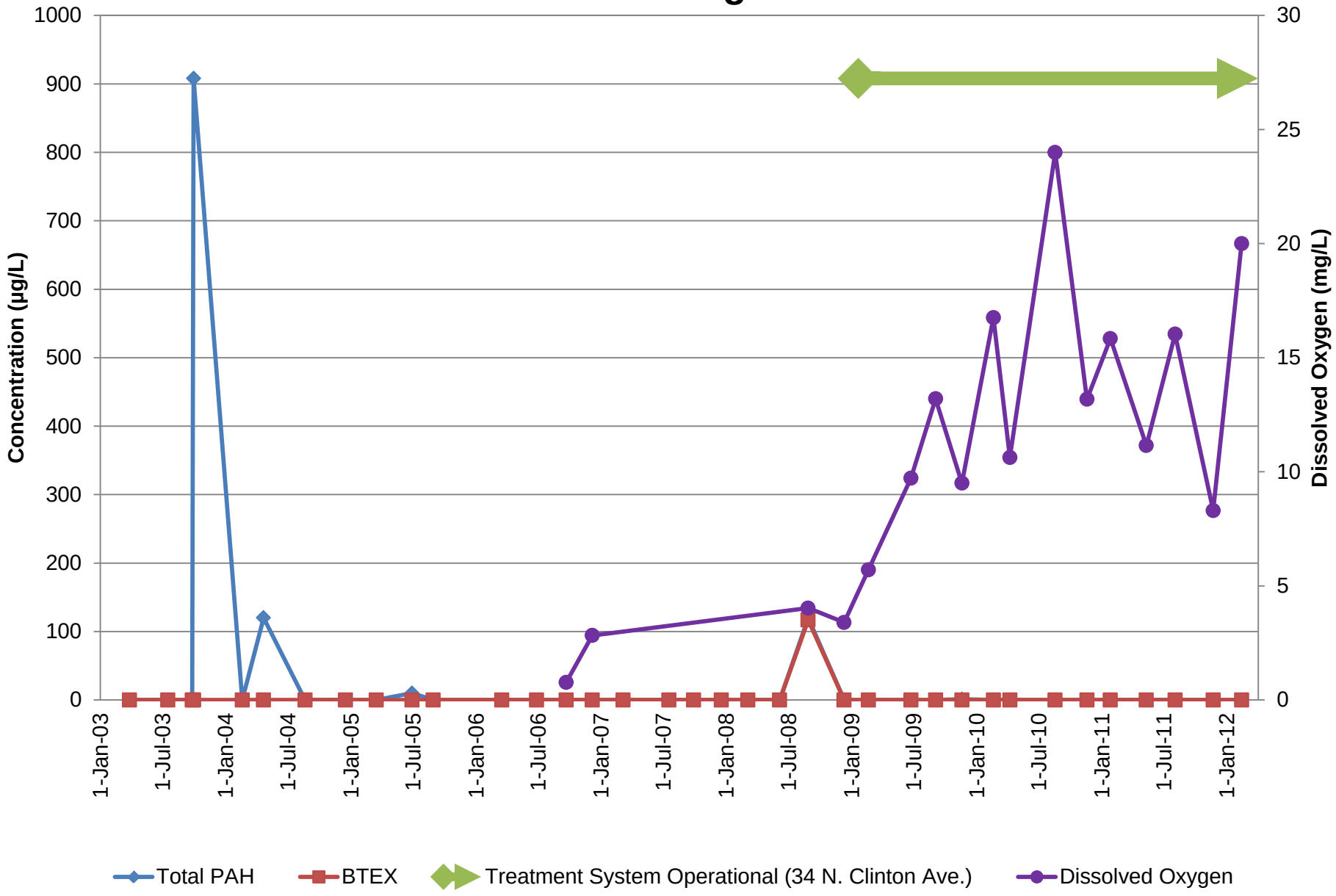
Monitoring Well BBMW-23D
49.5-59.5 ft bgs



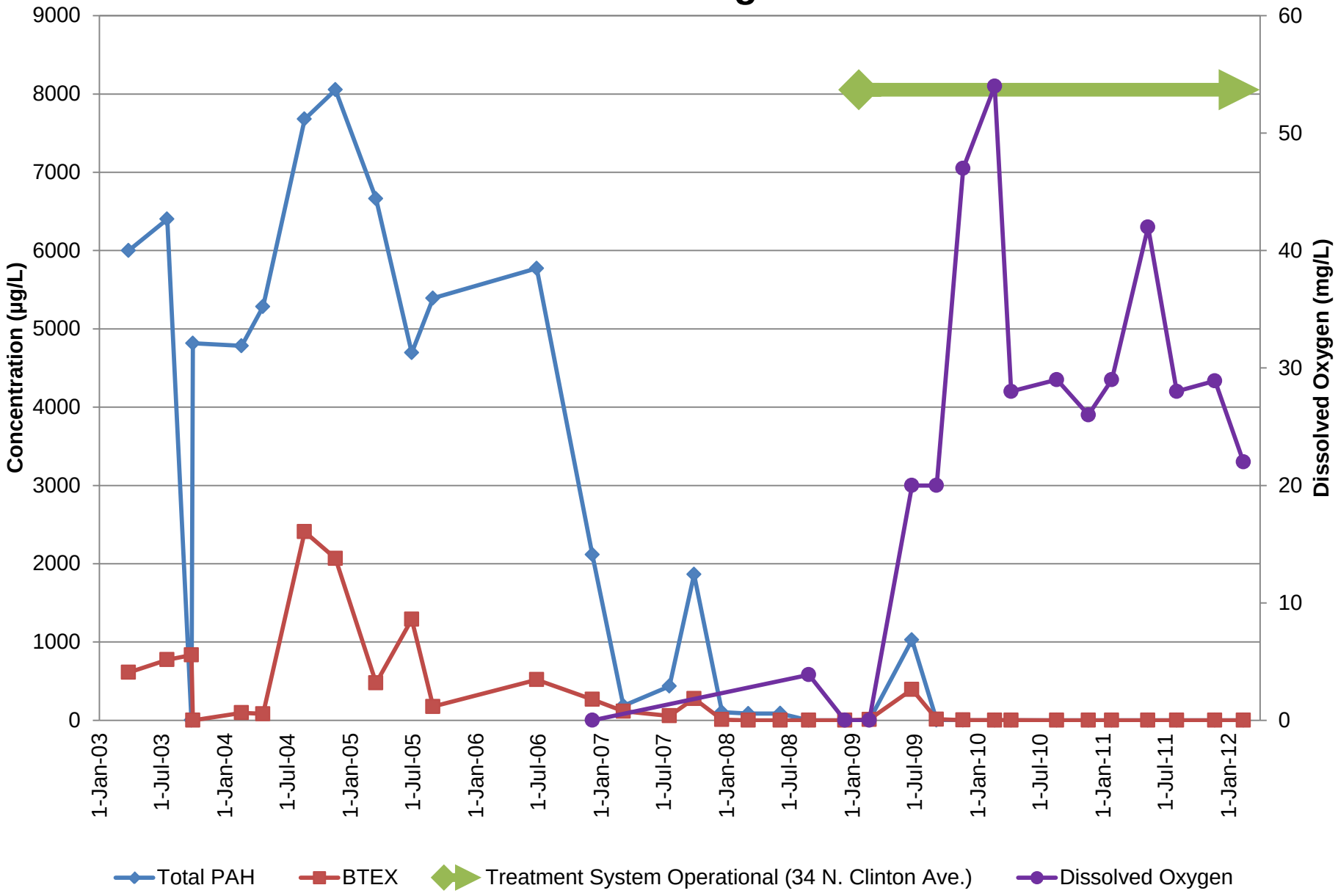
Monitoring Well BBMW-23D2
63-73 ft bgs

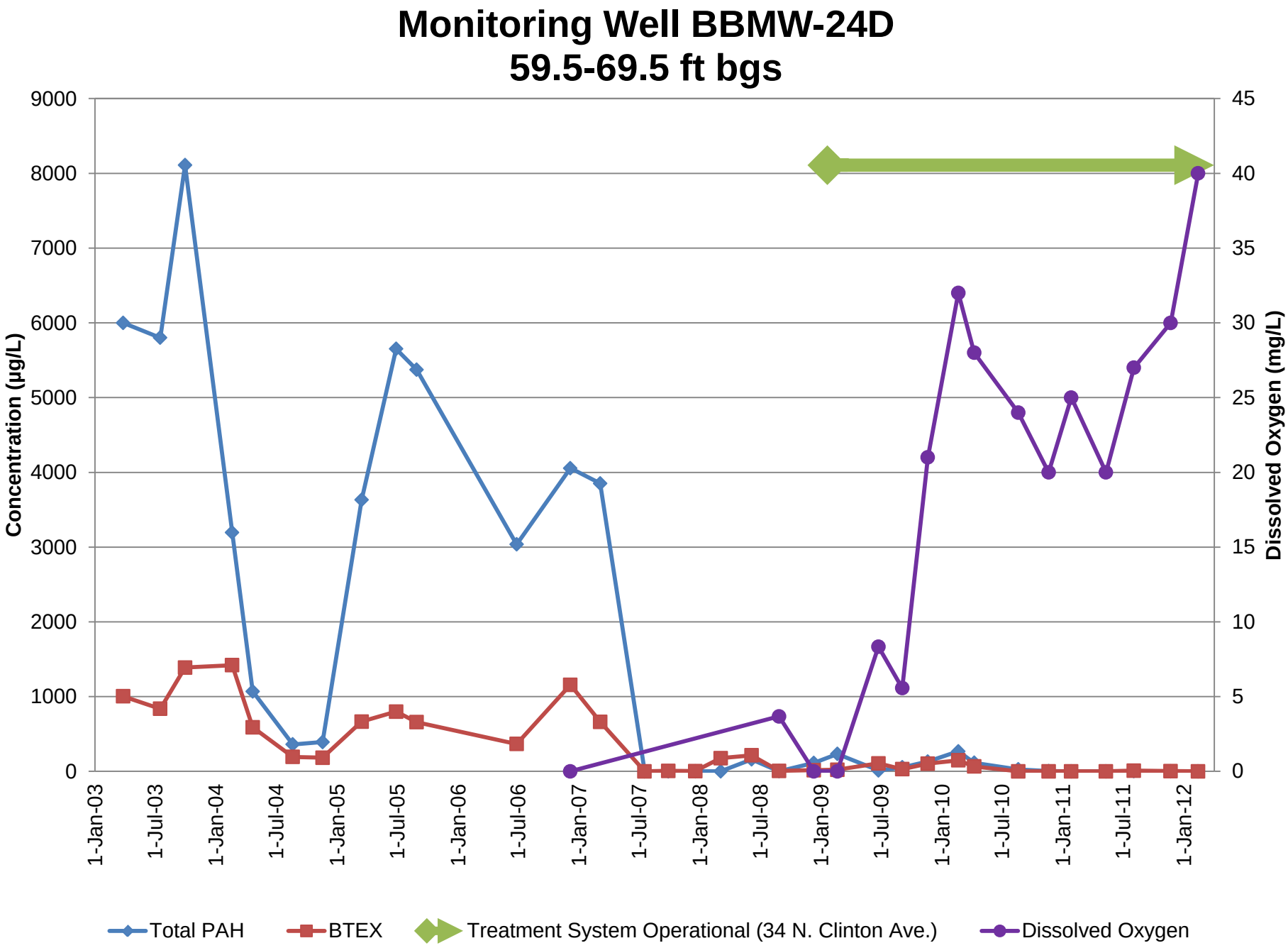


Monitoring Well BBMW-24S
4-14 ft bgs

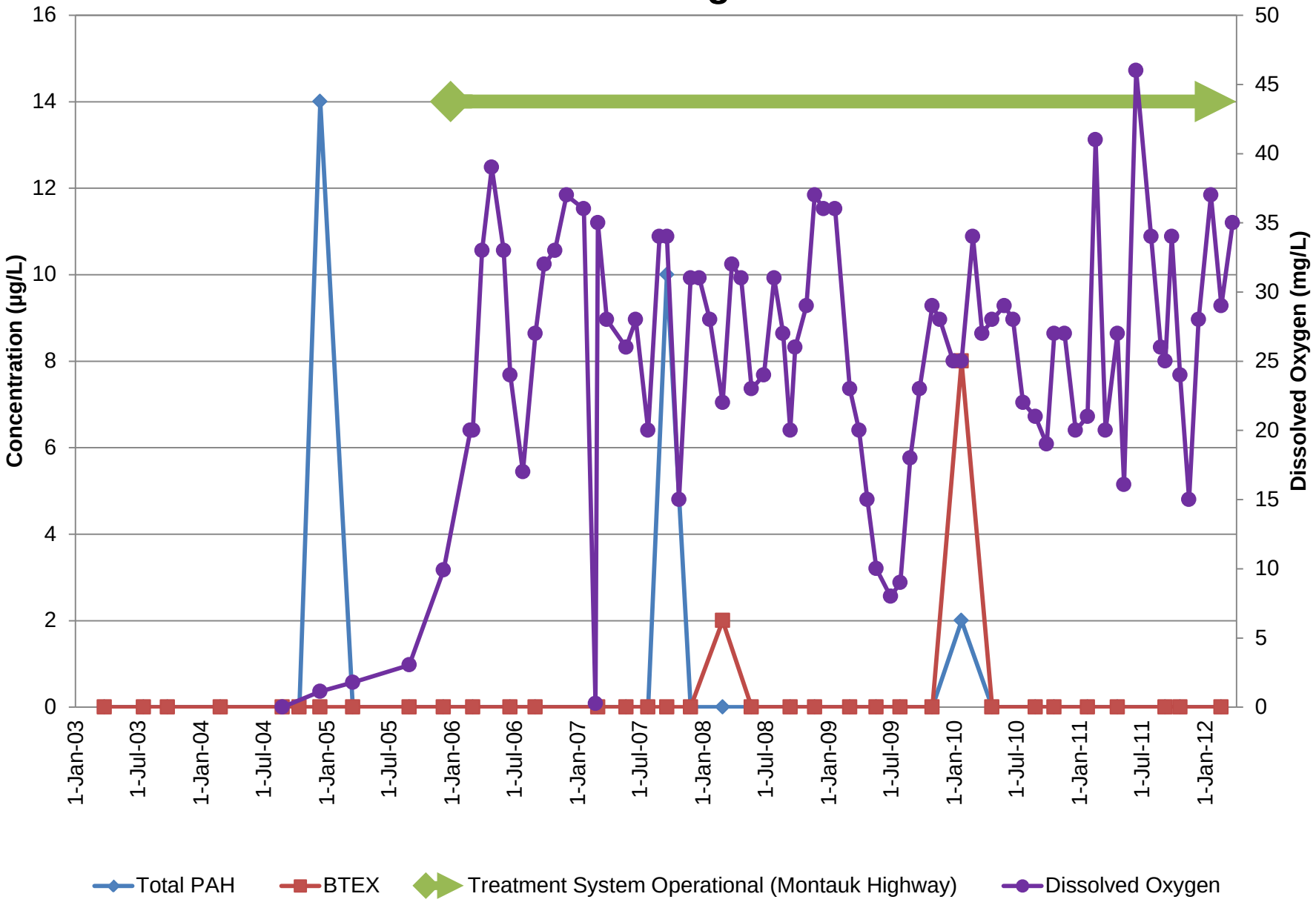


Monitoring Well BBMW-24I
32-42 ft bgs

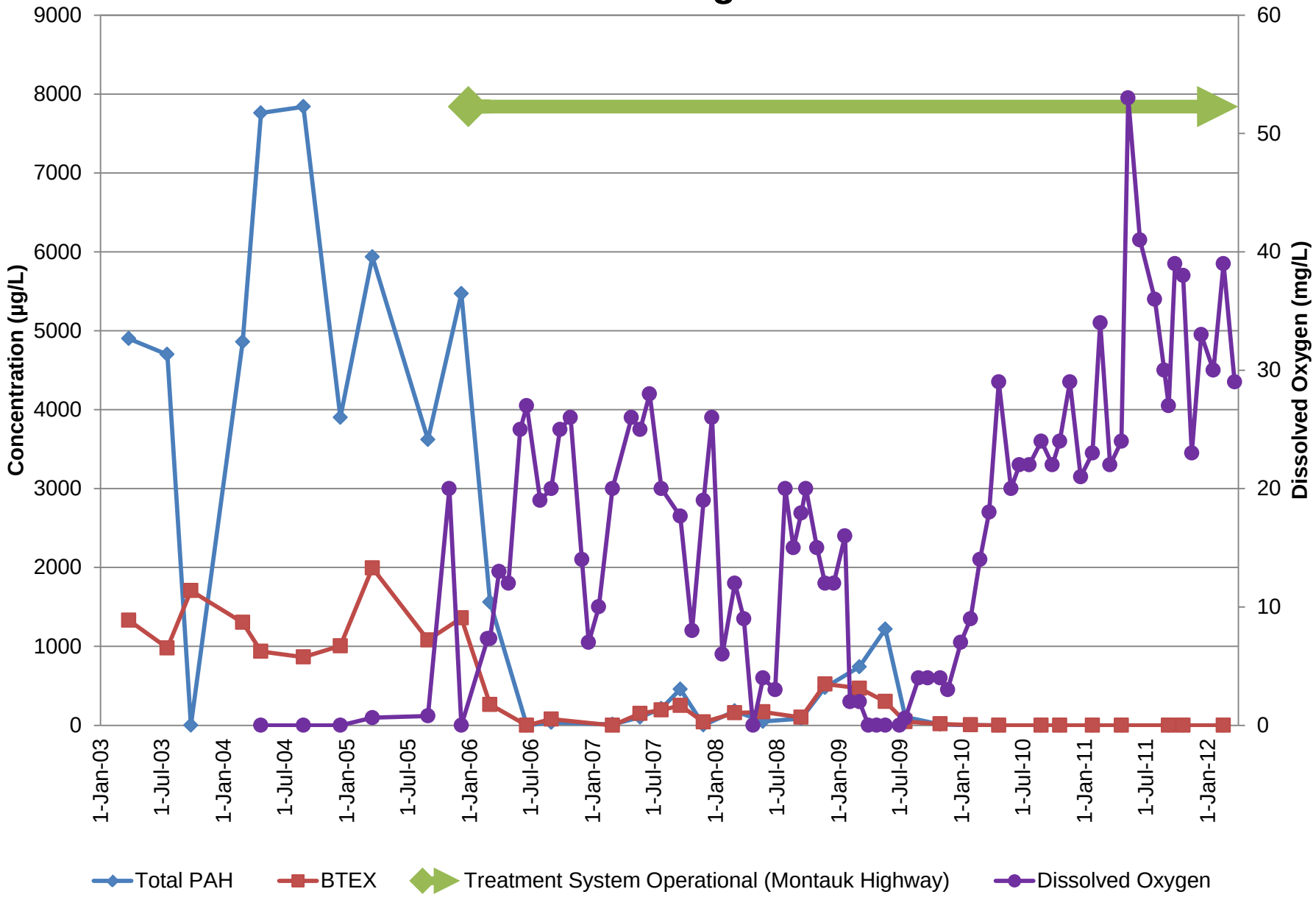



Monitoring Well BBMW-24D
59.5-69.5 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
45
40
35
30
25
20
15
10
5
0
1-Jan-03
1-Jul-03
1-Jan-04
1-Jul-04
1-Jan-05
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (34 N. Clinton Ave.)
Dissolved Oxygen

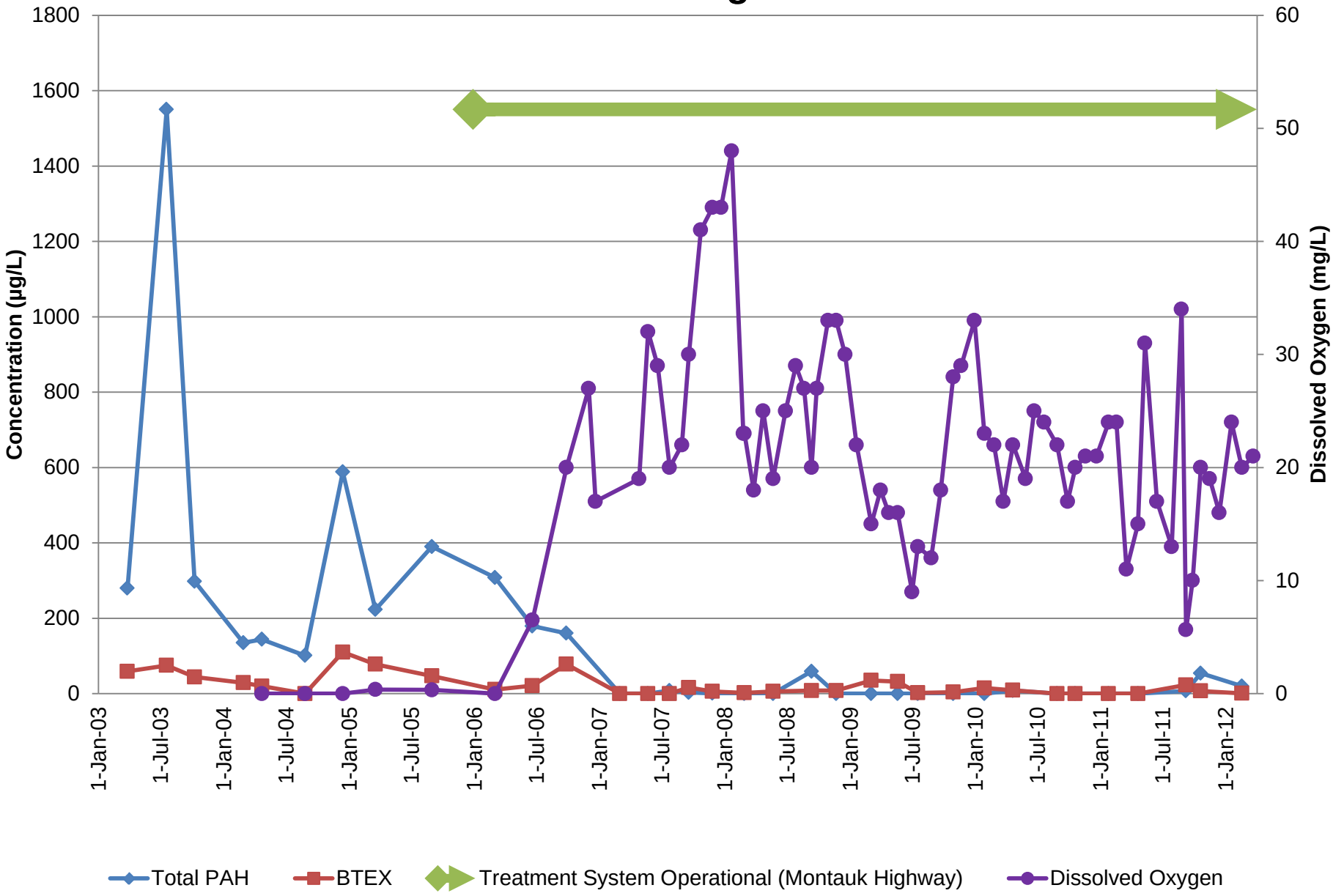
Monitoring Well BBMW-25S
4-14 ft bgs



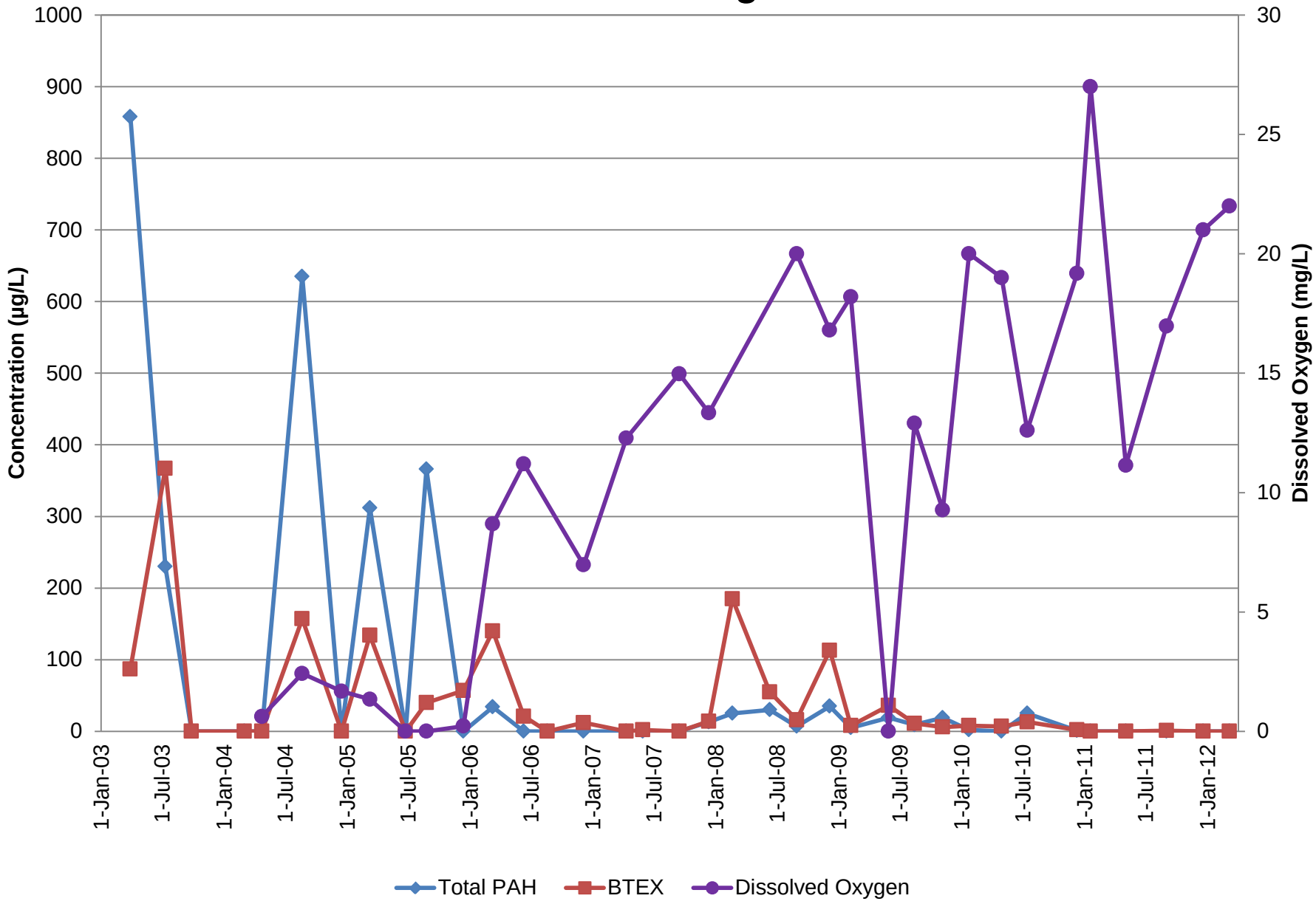
Monitoring Well BBMW-25I
25-35 ft bgs



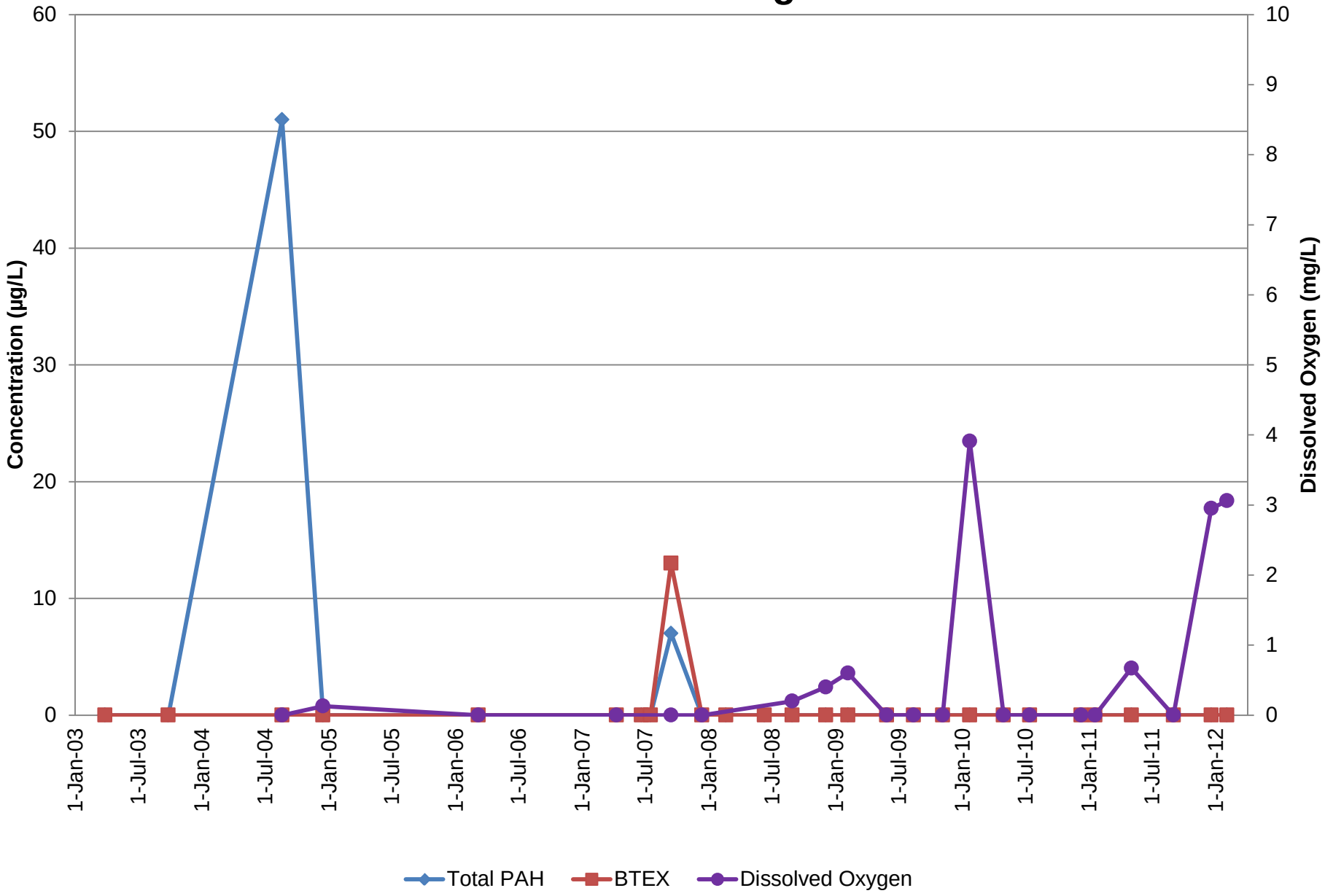
Monitoring Well BBMW-25D
62-72 ft bgs



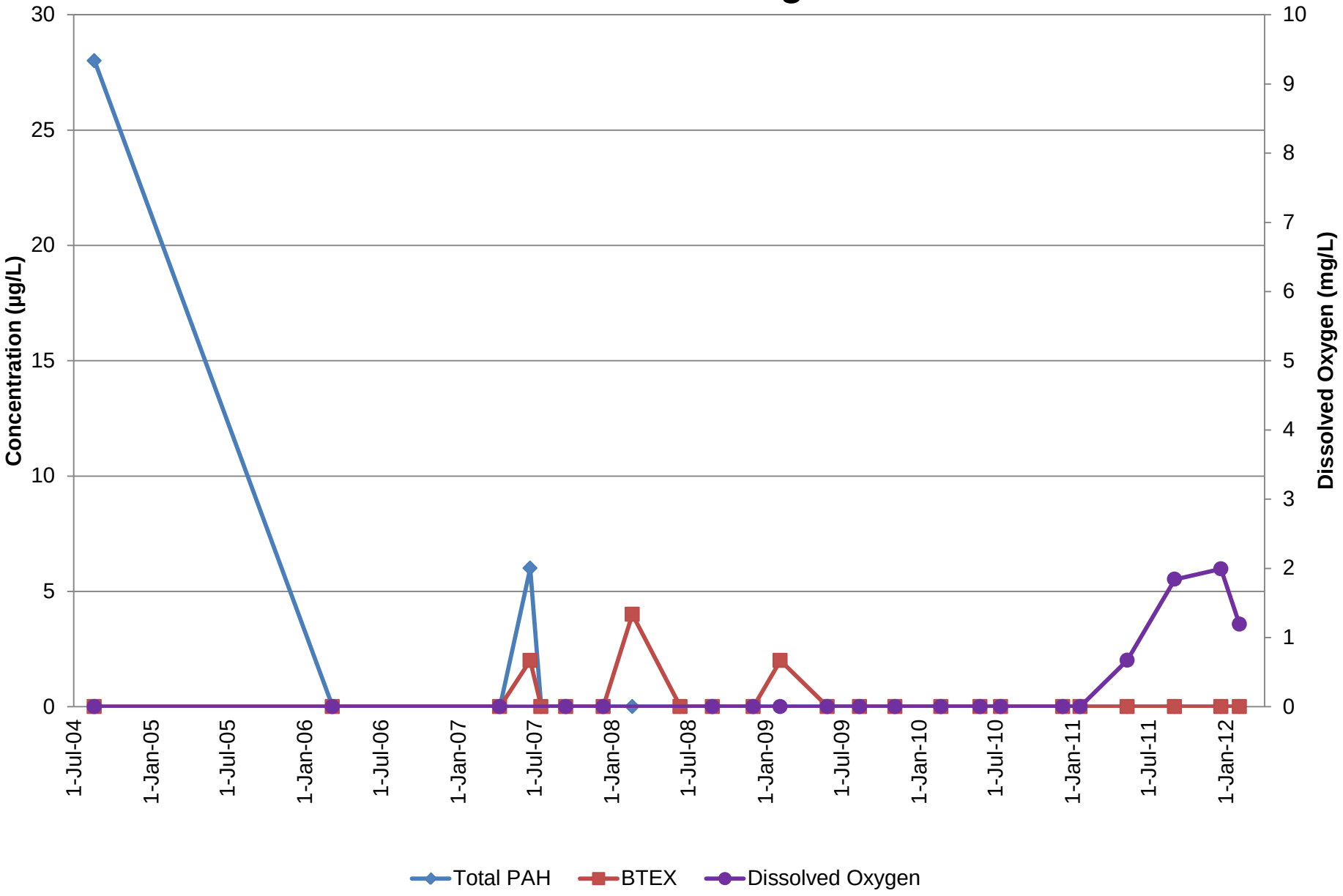
Monitoring Well GM-05S
5.1-20.1 ft bgs



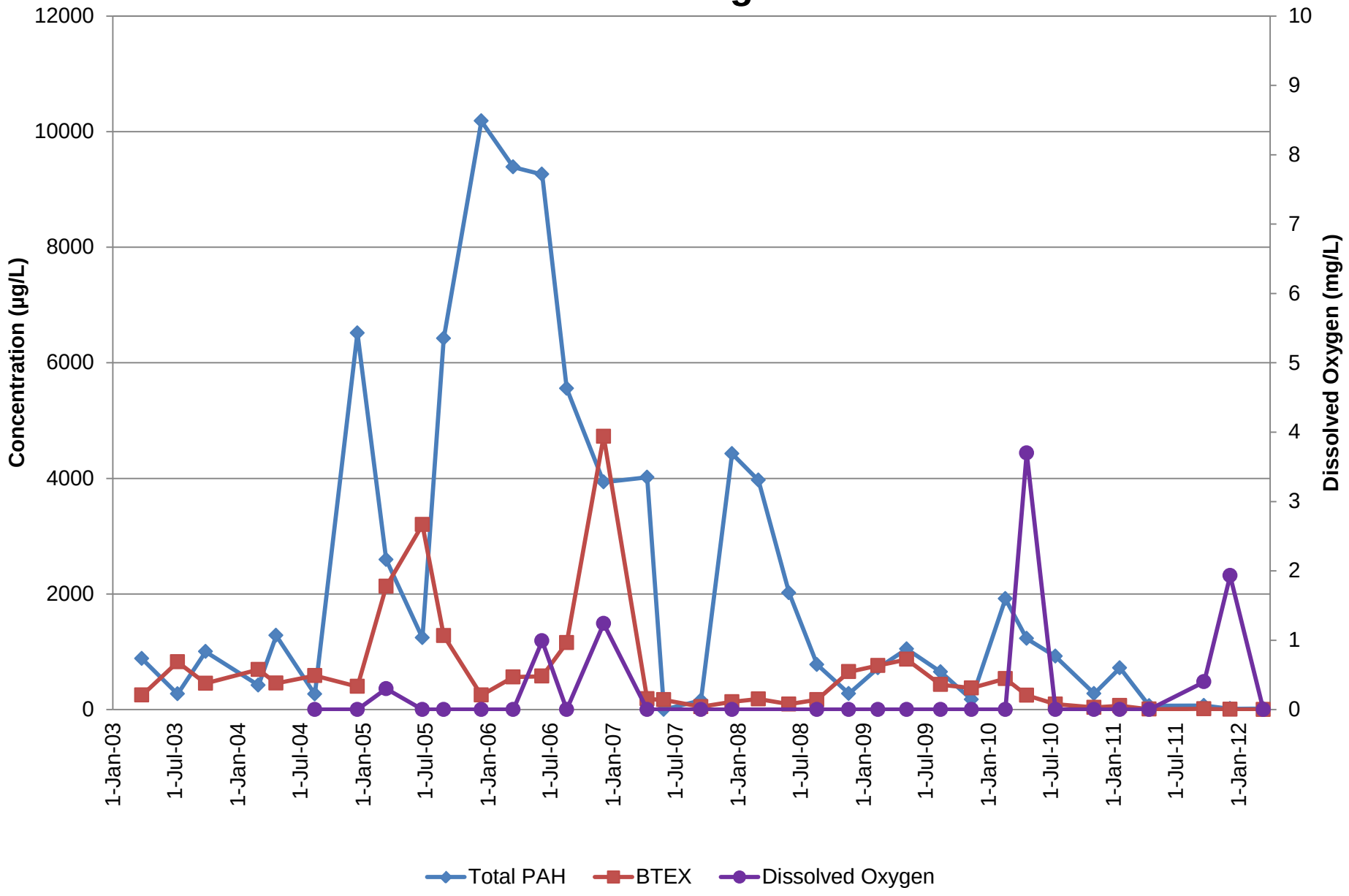
Monitoring Well GM-05I
35.05-48.05 ft bgs



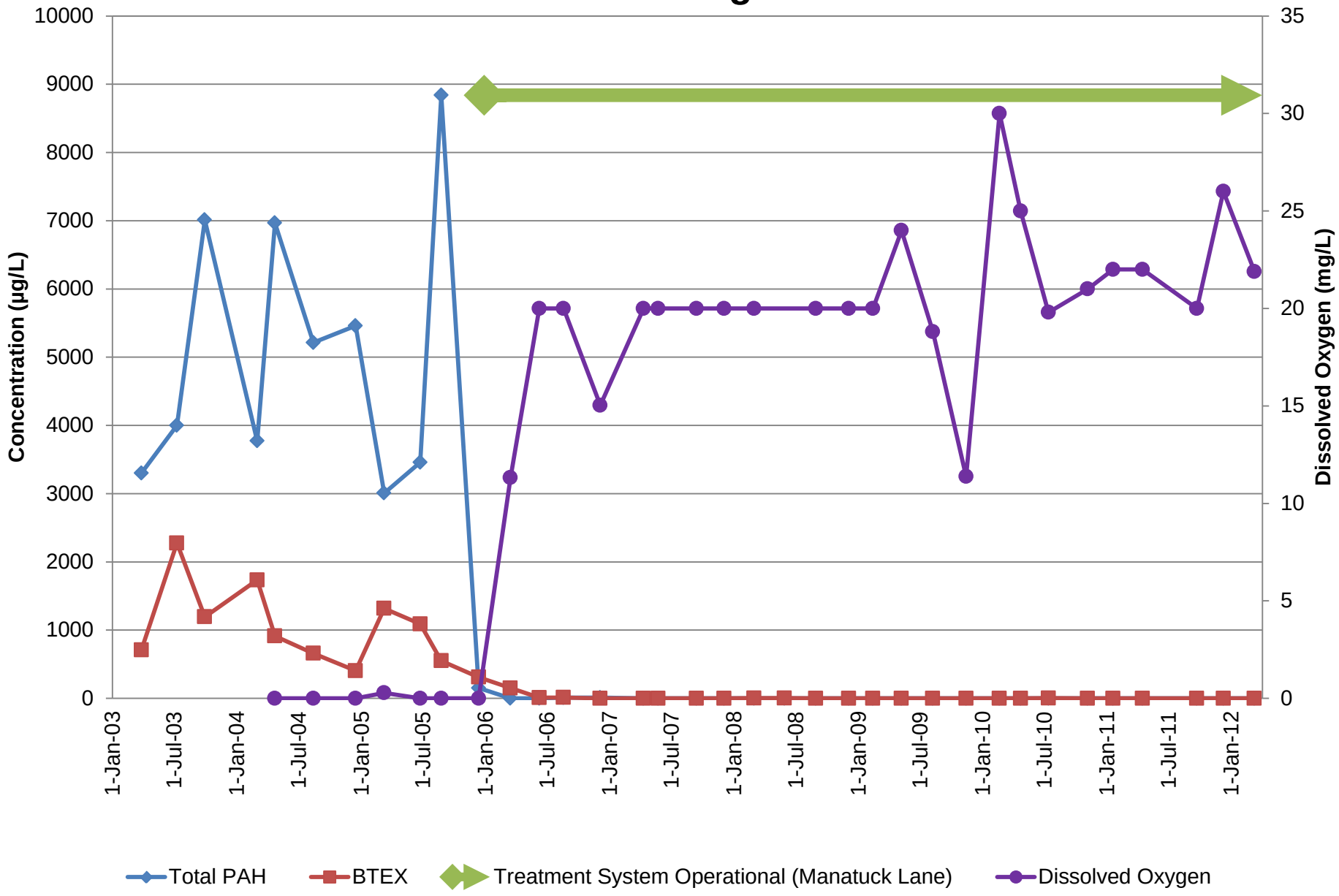
Monitoring Well GM-05D
60.95-75.95 ft bgs



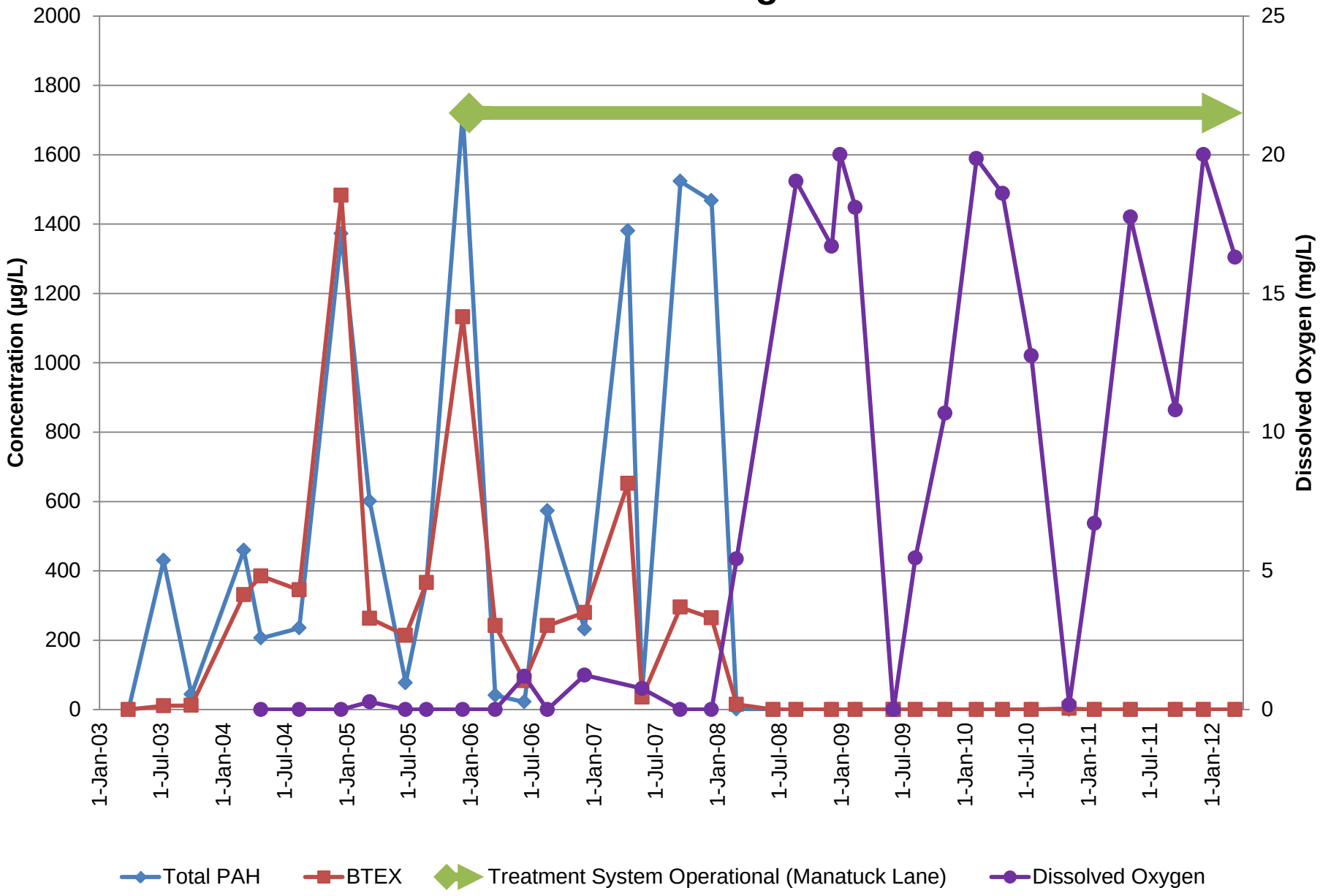
Monitoring Well GMP-01
25-30 ft bgs



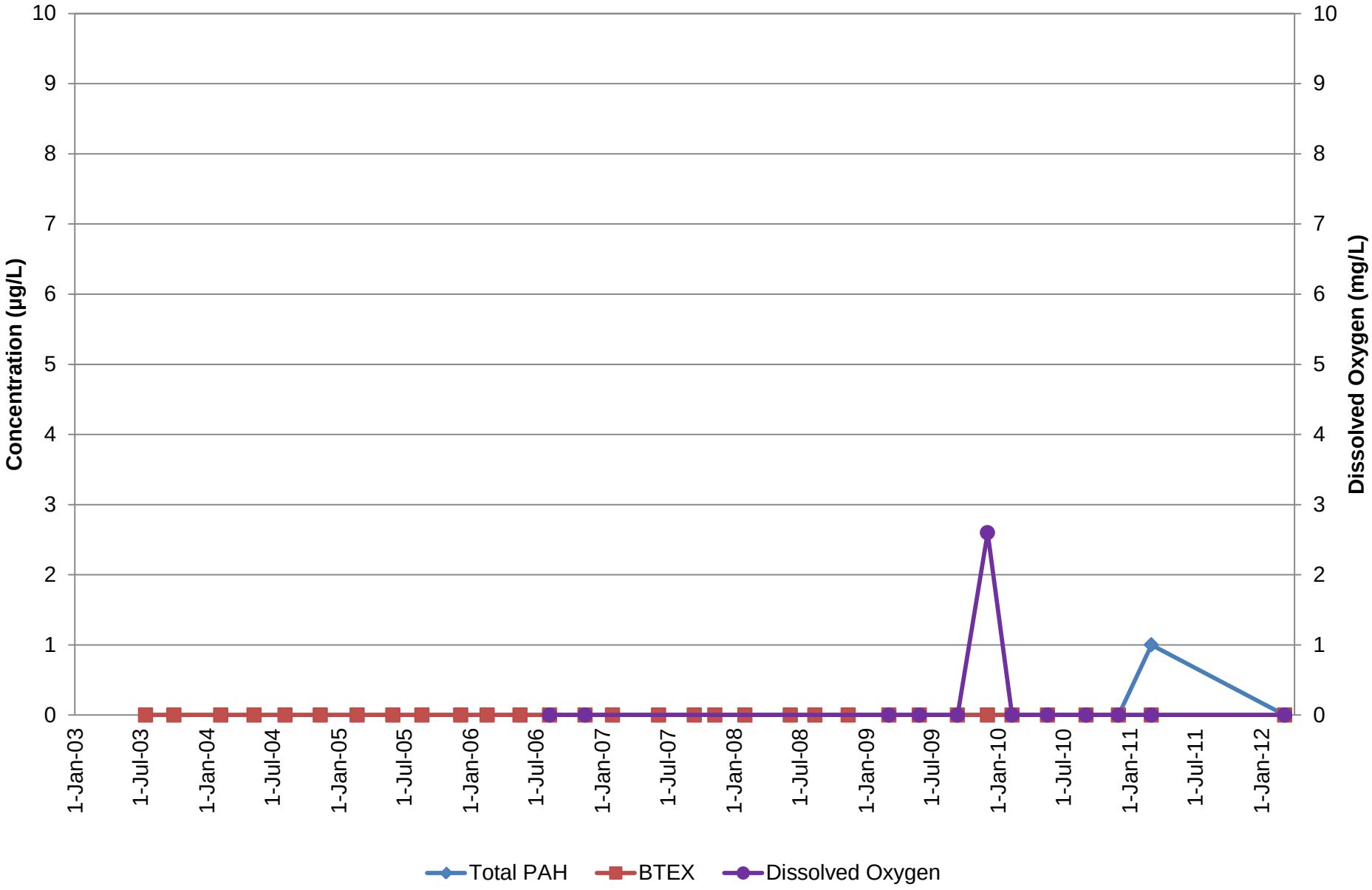
Monitoring Well GMP-02
28-32 ft bgs



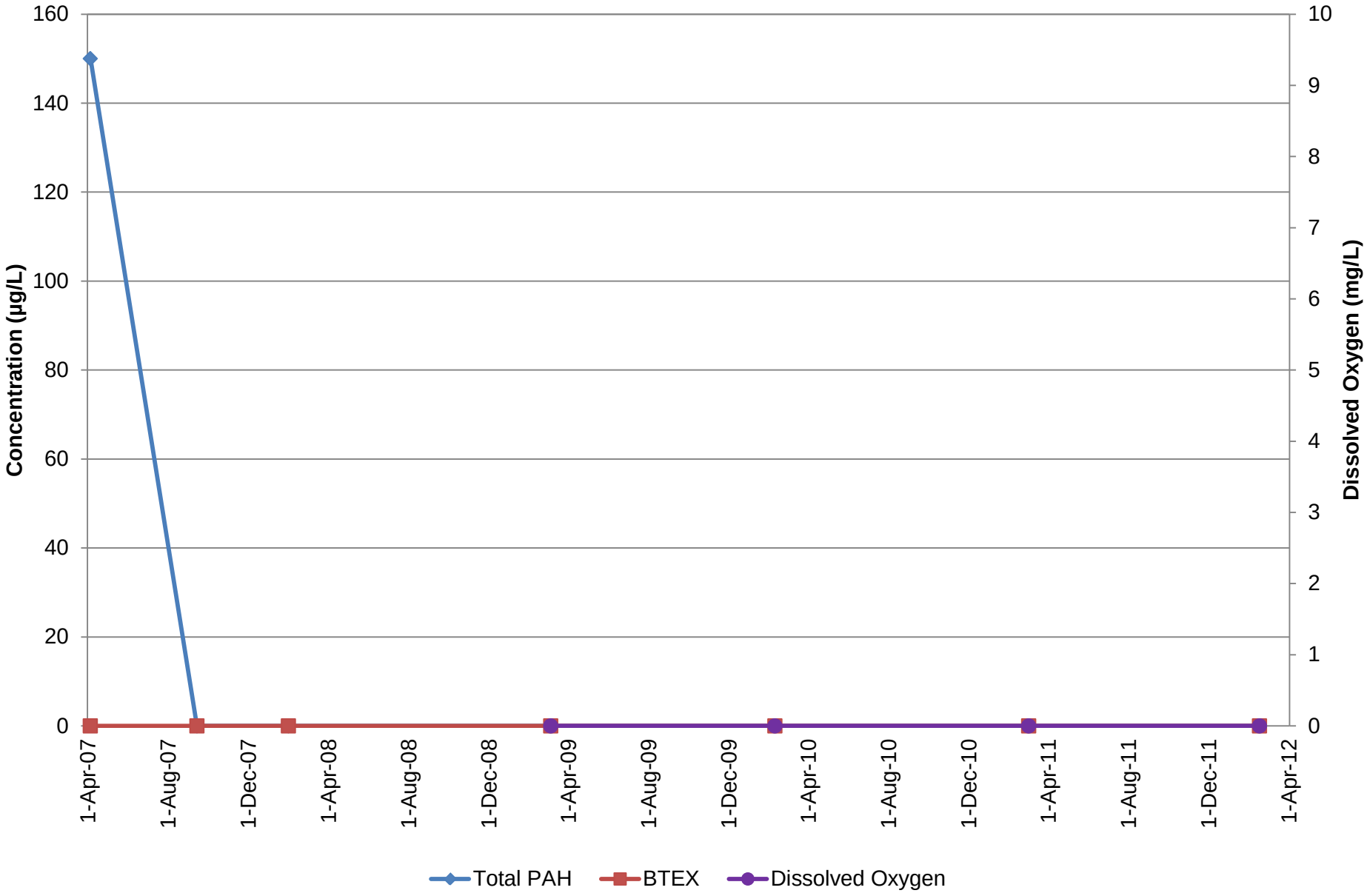
Monitoring Well GMP-04
15.5-20.5 ft bgs

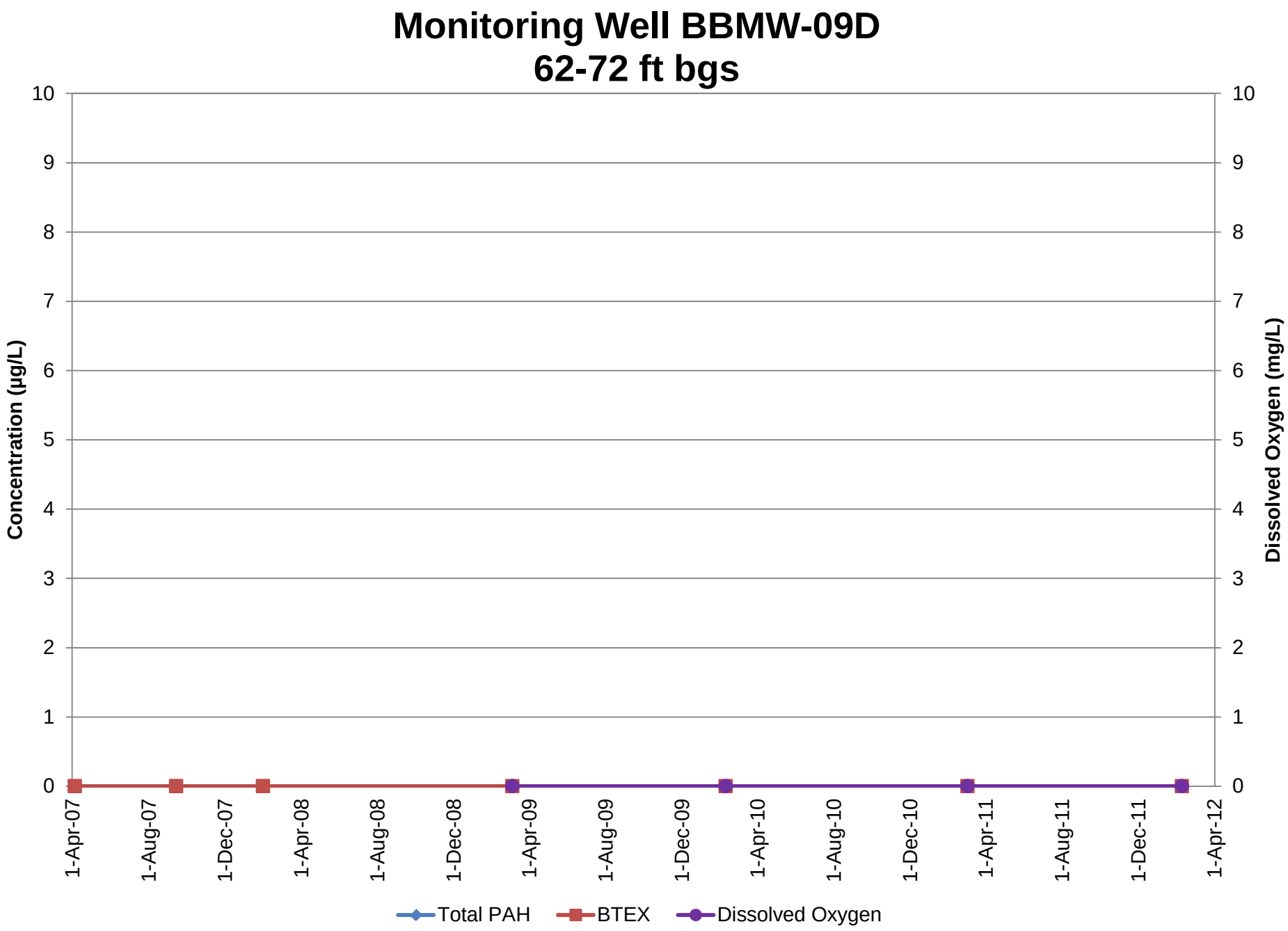


Monitoring Well BBMW-09S
5-15 ft bgs

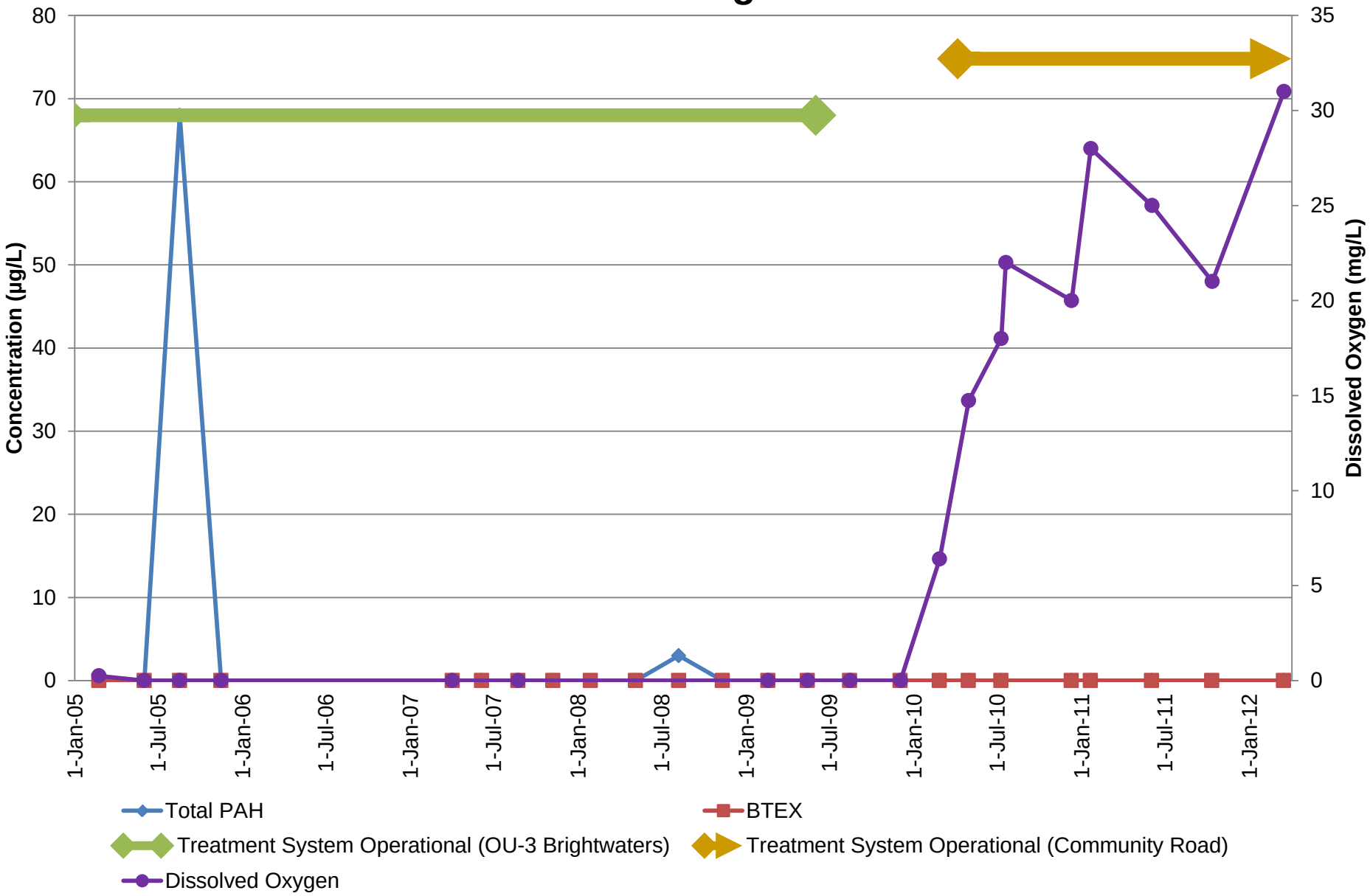


Monitoring Well BBMW-09I
20-30 ft bgs

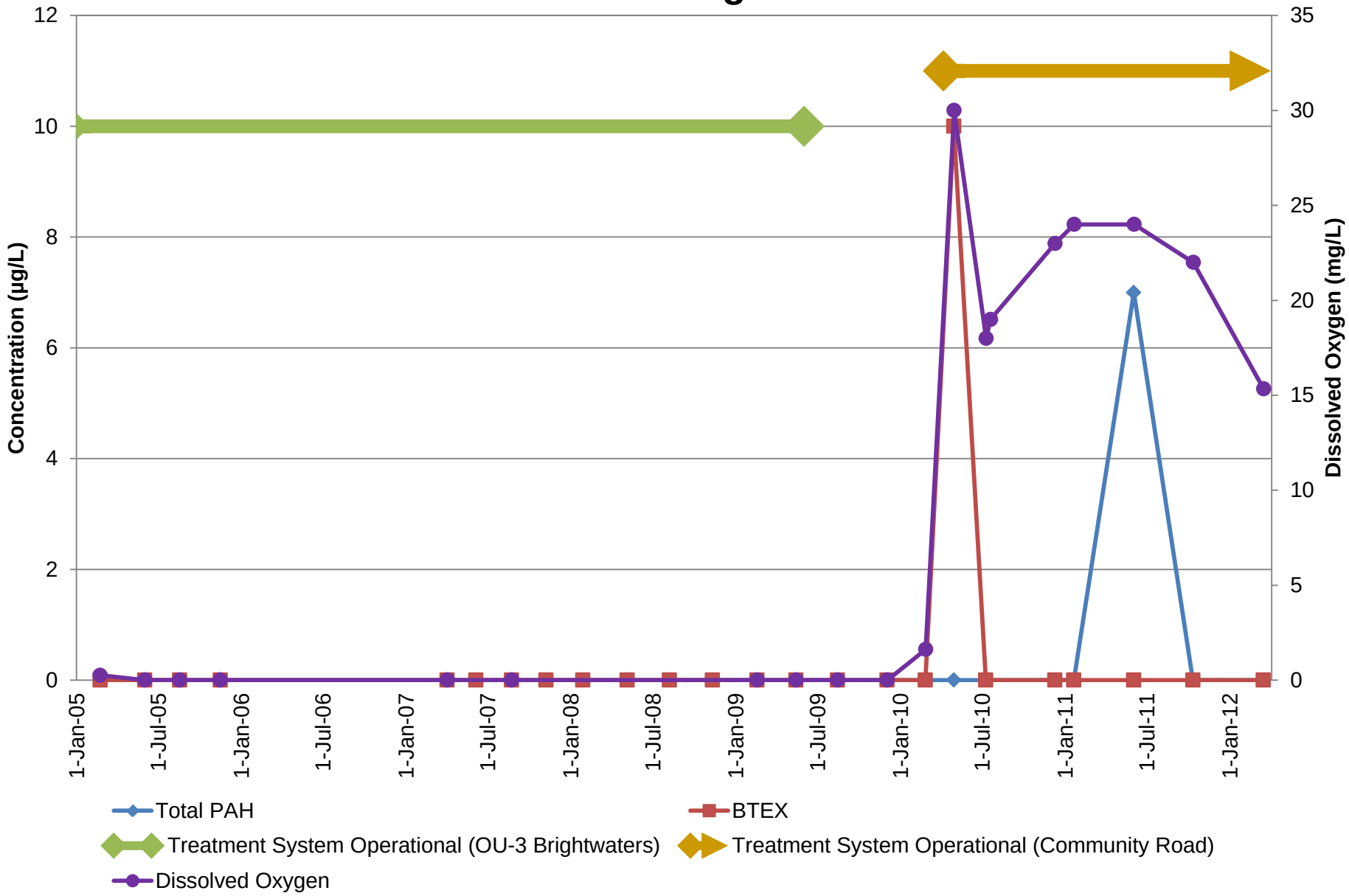



Monitoring Well BBMW-09D
62-72 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Apr-07
1-Aug-07
1-Dec-07
1-Apr-08
1-Aug-08
1-Dec-08
1-Apr-09
1-Aug-09
1-Dec-09
1-Apr-10
1-Aug-10
1-Dec-10
1-Apr-11
1-Aug-11
1-Dec-11
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

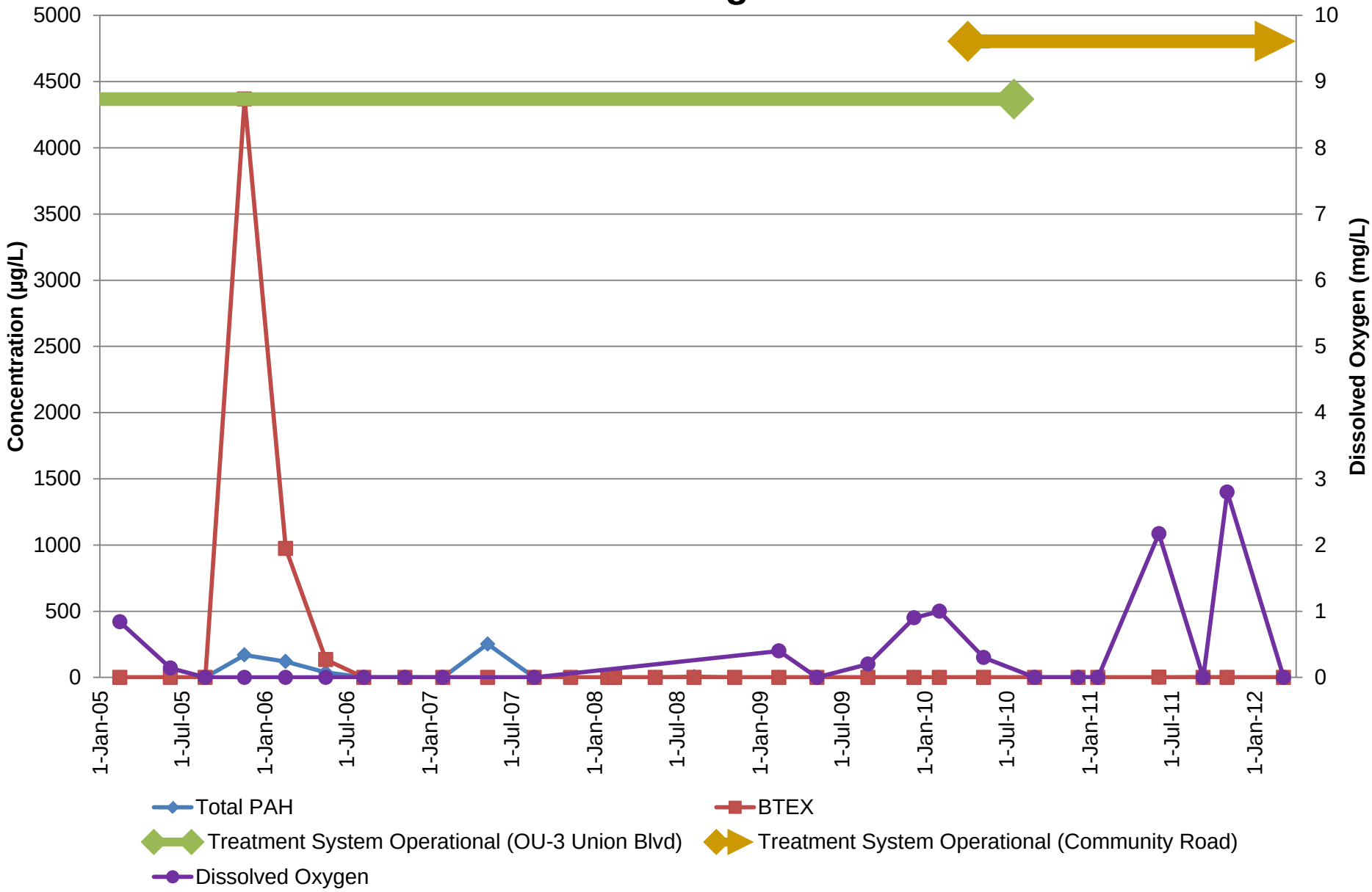
Monitoring Well BBMW-28S
2-12 ft bgs



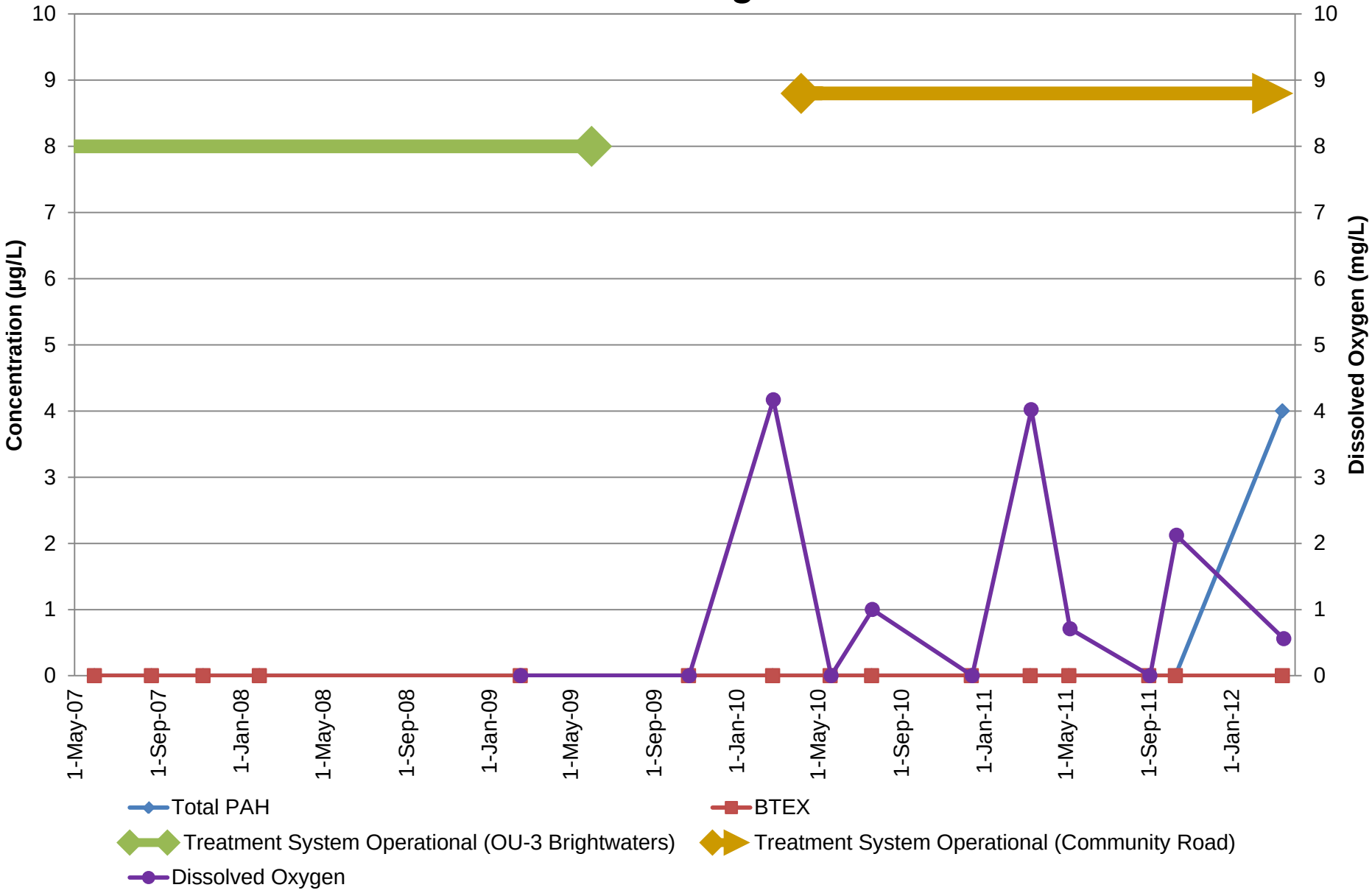
Monitoring Well BBMW-28I
10-20 ft bgs



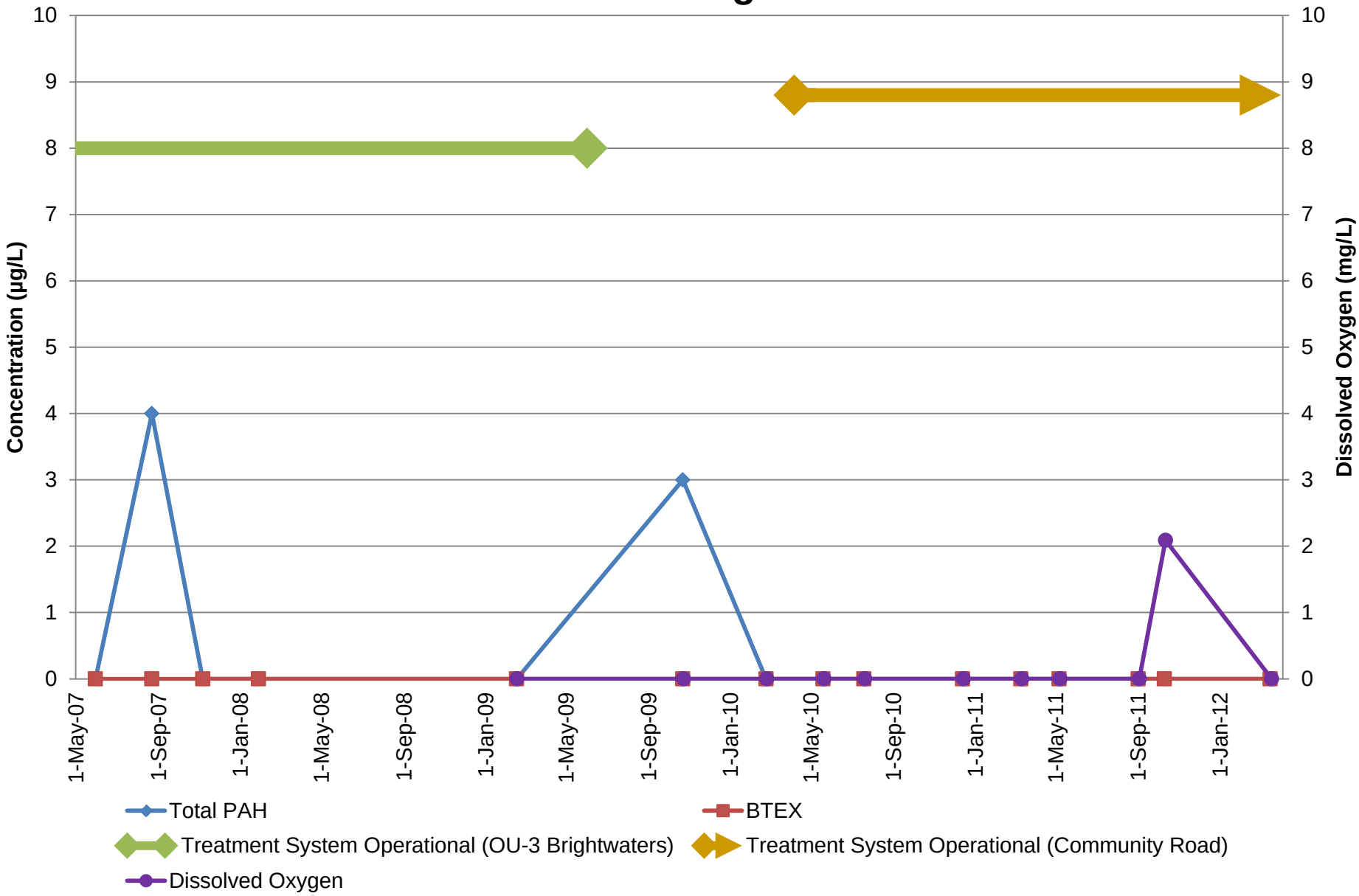
Monitoring Well BBMW-29
2-9 ft bgs



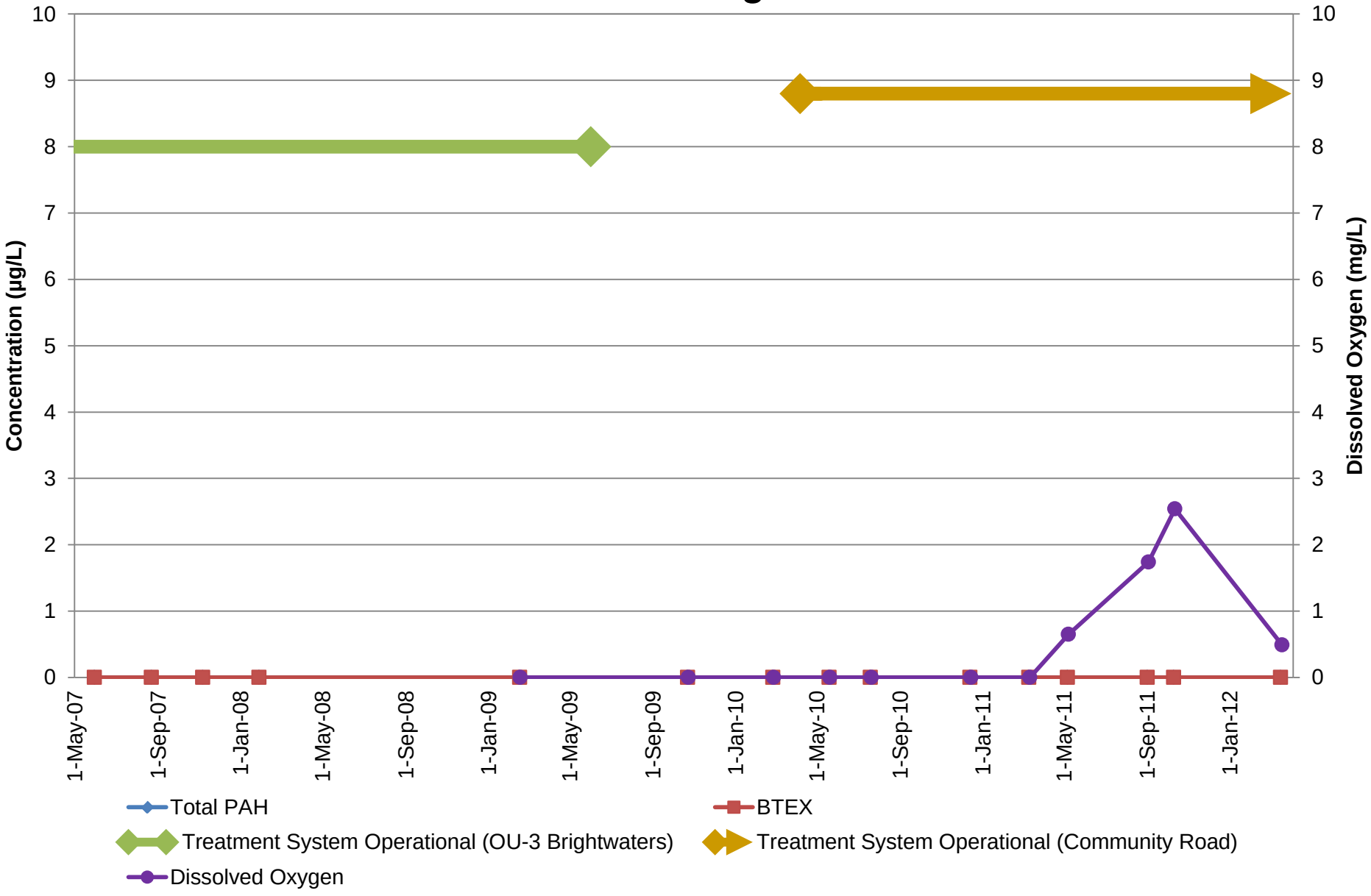
Monitoring Well BBMW-30S
2-10 ft bgs

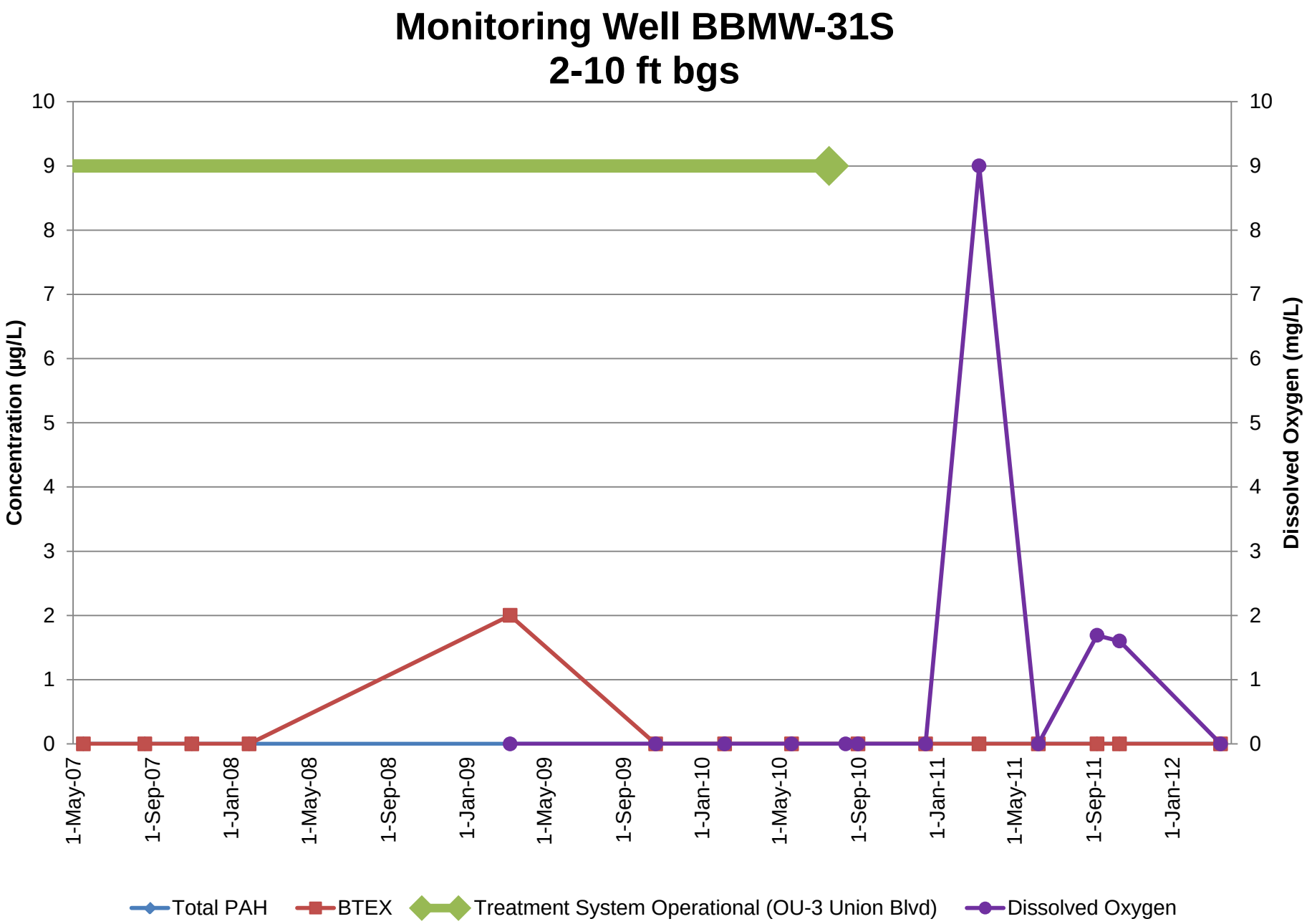


Monitoring Well BBMW-30I
14-19 ft bgs

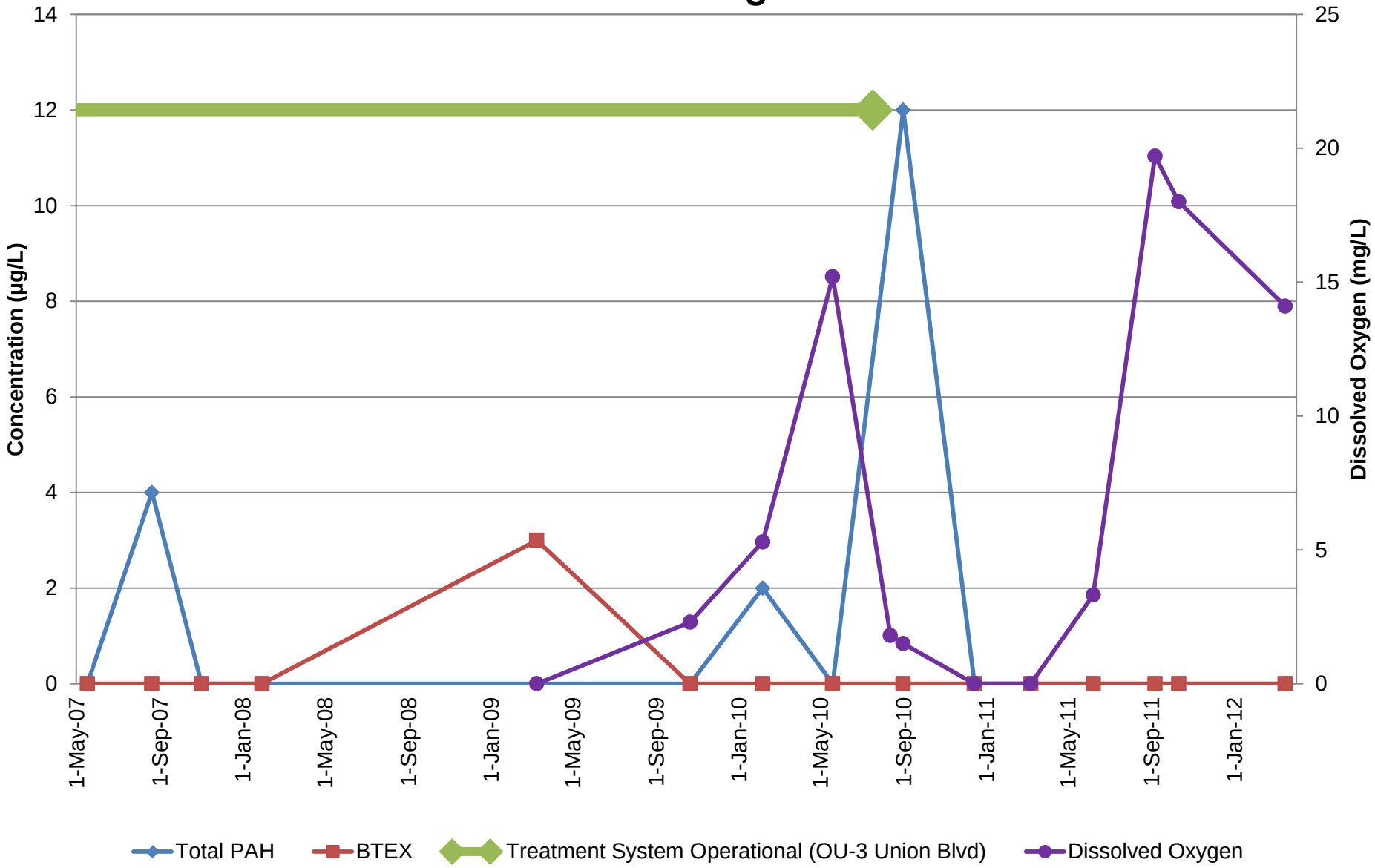


Monitoring Well BBMW-30D
30-35 ft bgs

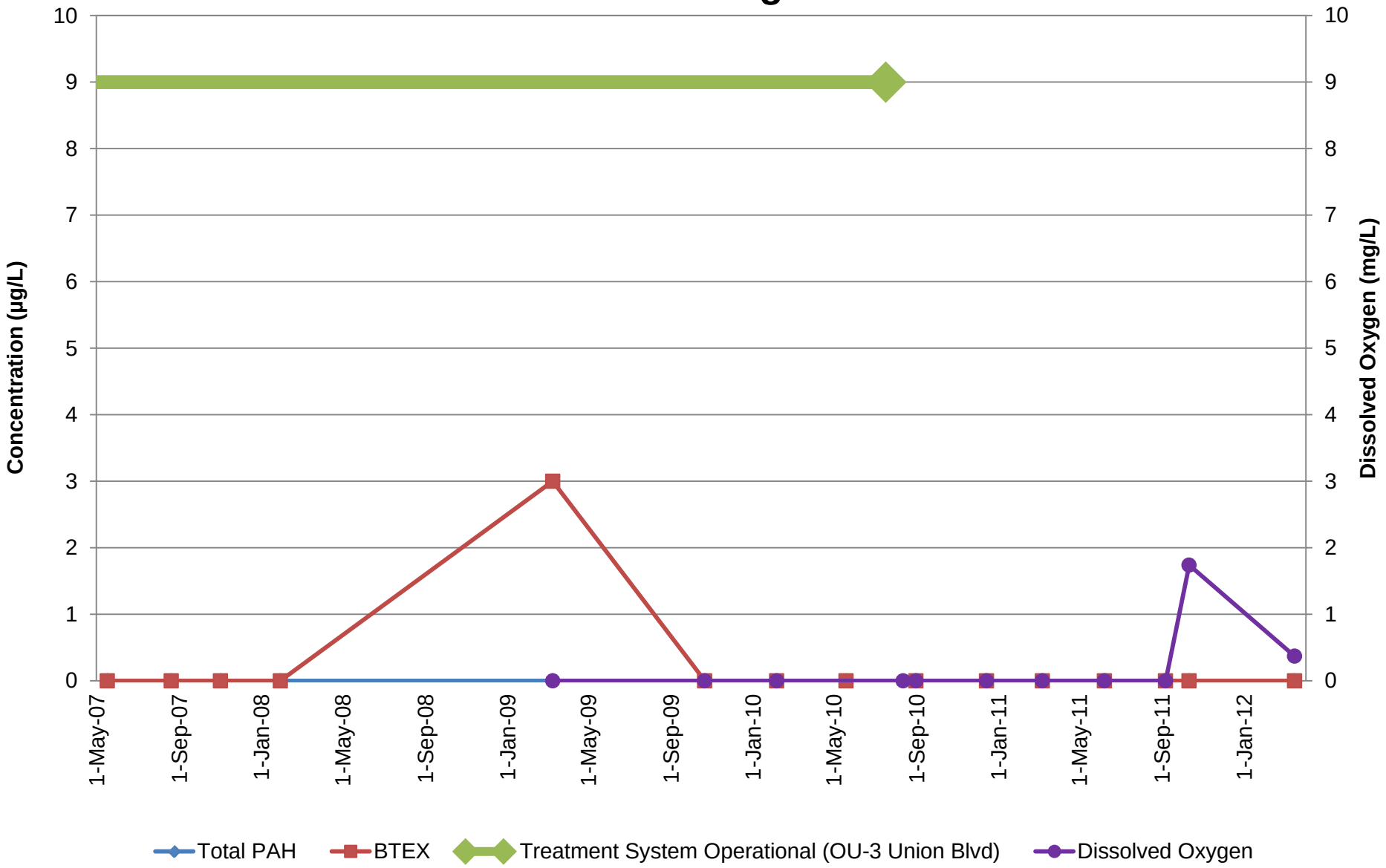



Monitoring Well BBMW-31S
2-10 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
1-May-07
1-Sep-07
1-Jan-08
1-May-08
1-Sep-08
1-Jan-09
1-May-09
1-Sep-09
1-Jan-10
1-May-10
1-Sep-10
1-Jan-11
1-May-11
1-Sep-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (OU-3 Union Blvd)
Dissolved Oxygen

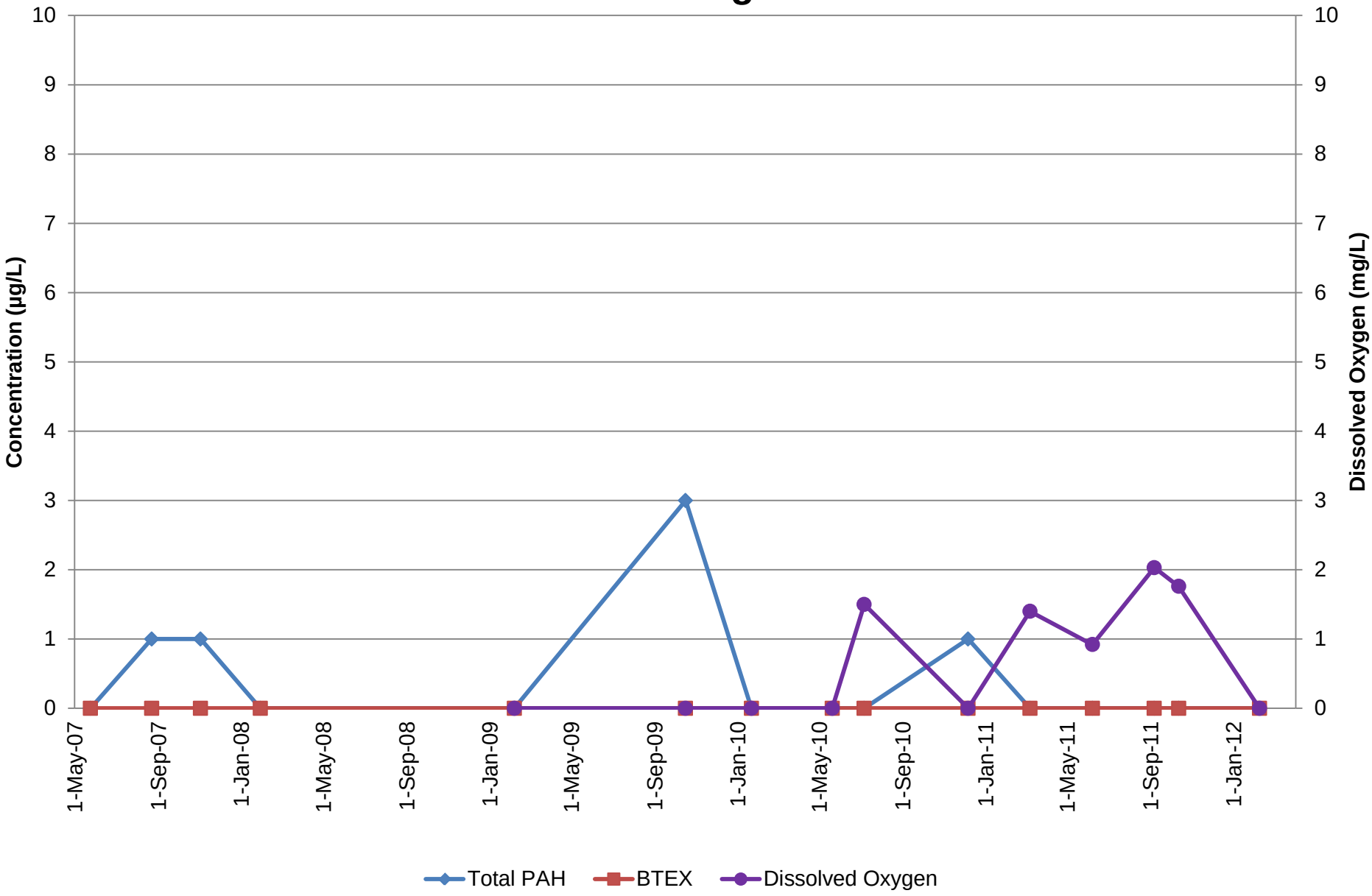
Monitoring Well BBMW-31I
14-19 ft bgs



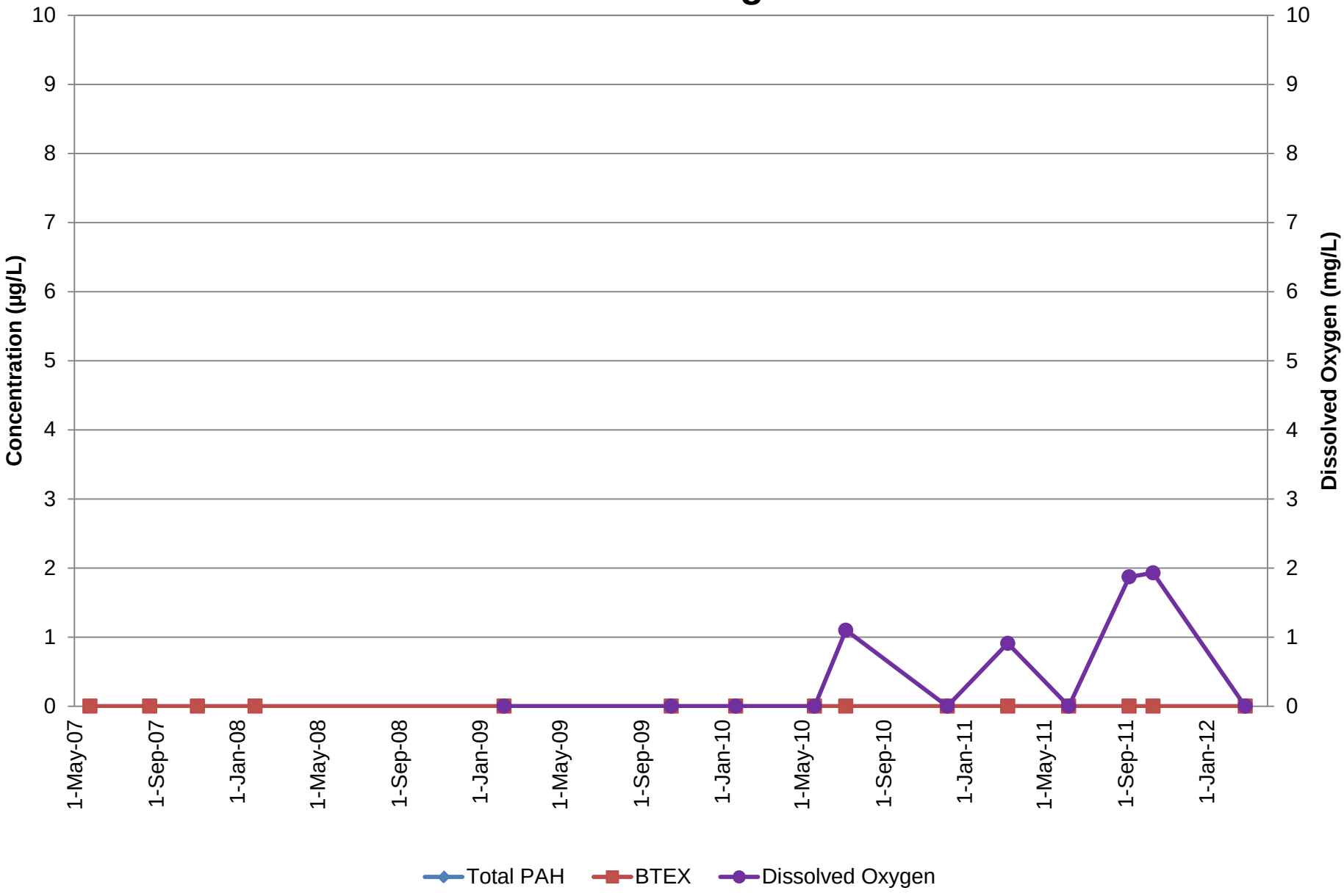
Monitoring Well BBMW-31D
30-35 ft bgs



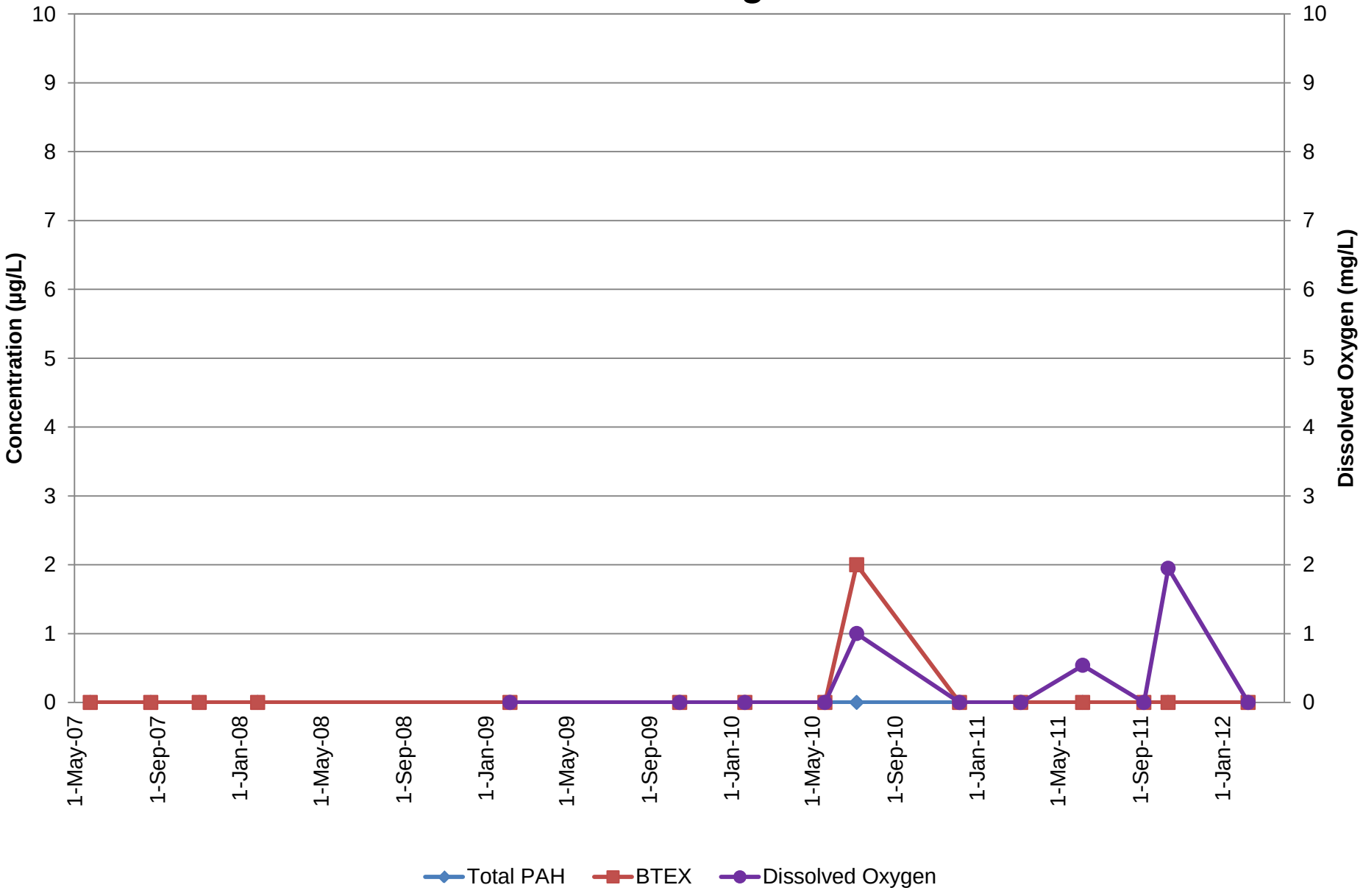
Monitoring Well BBMW-32S
2-10 ft bgs



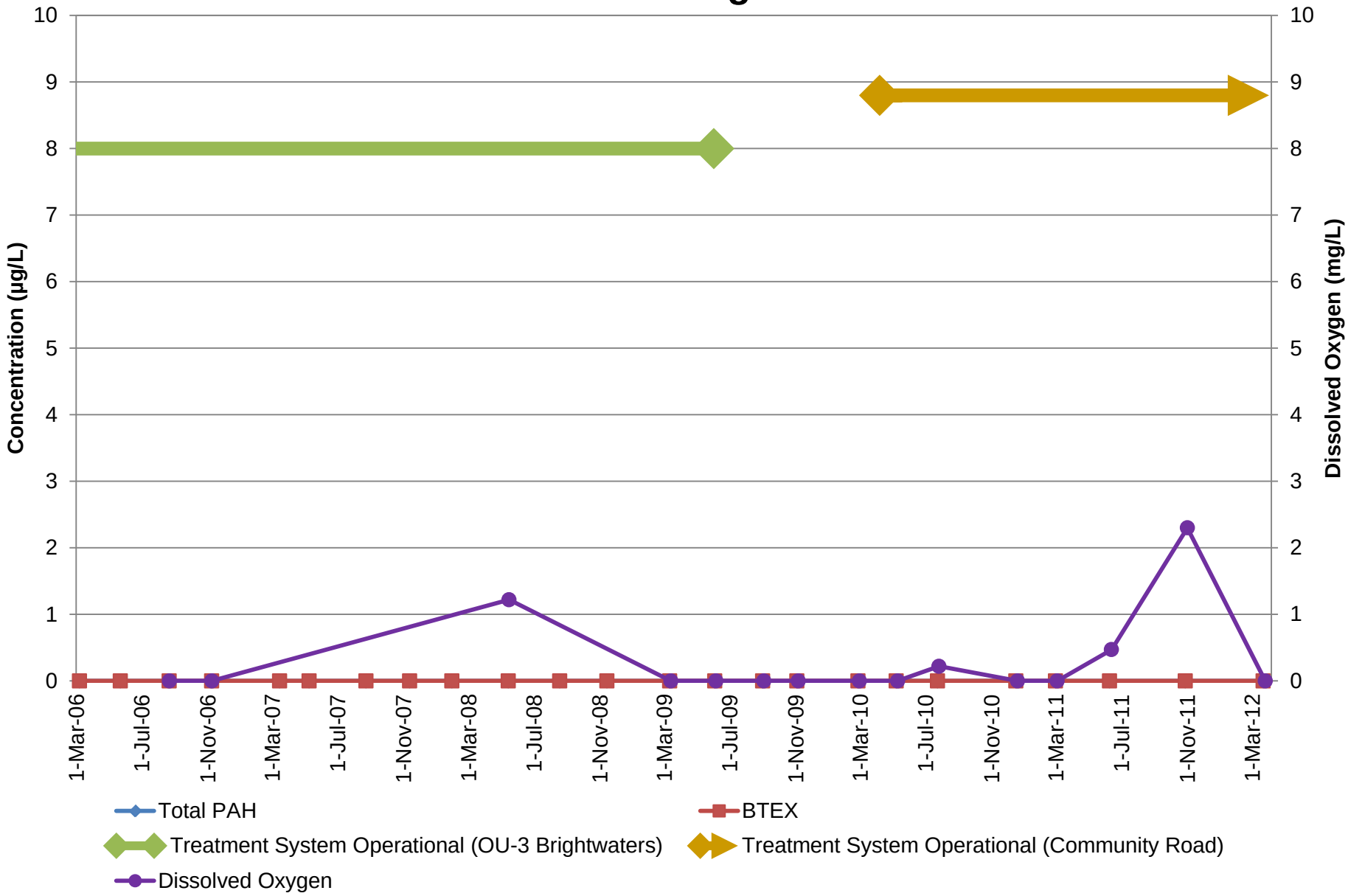
Monitoring Well BBMW-32I
14-19 ft bgs



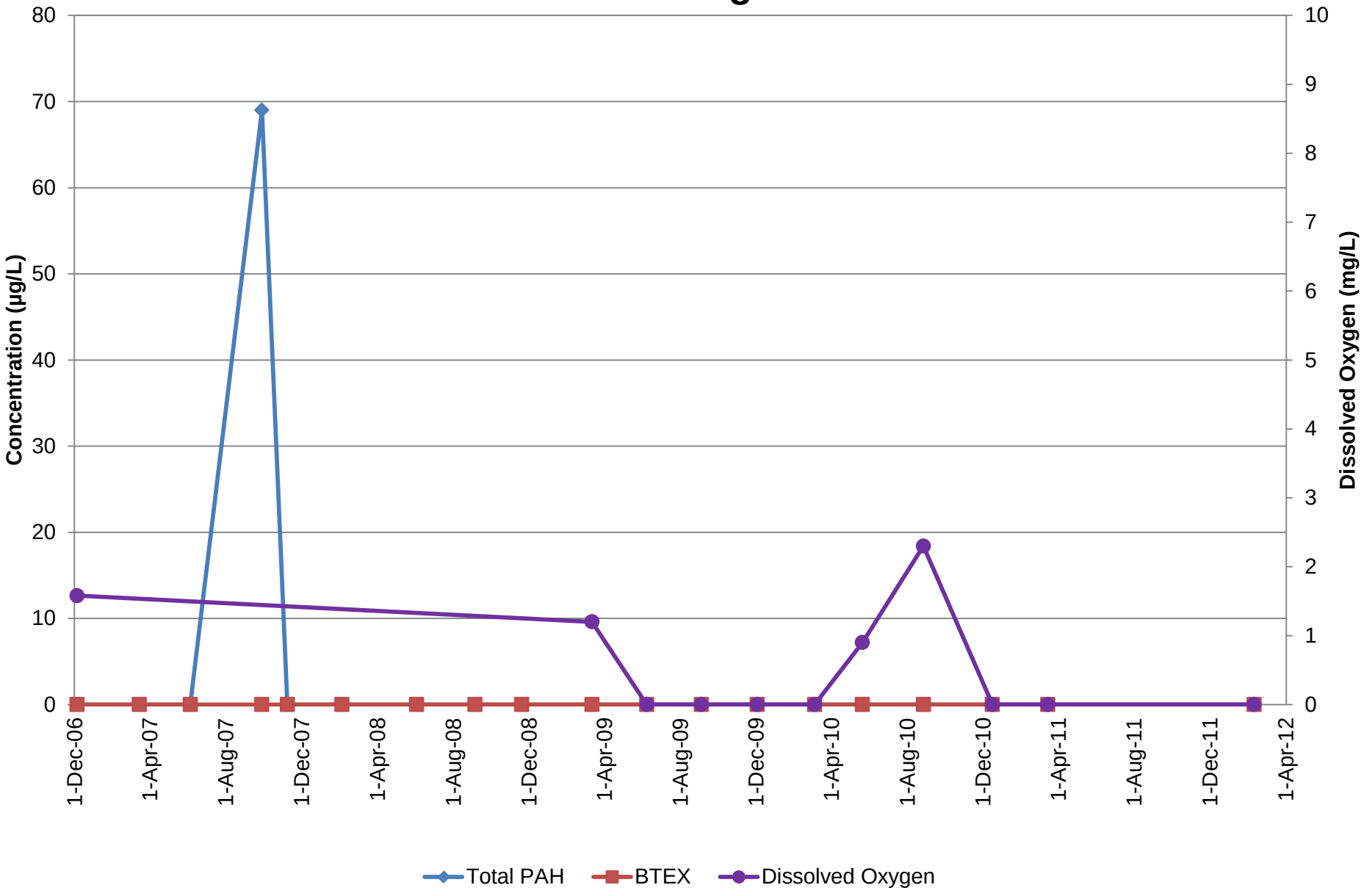
Monitoring Well BBMW-32D
30-35 ft bgs



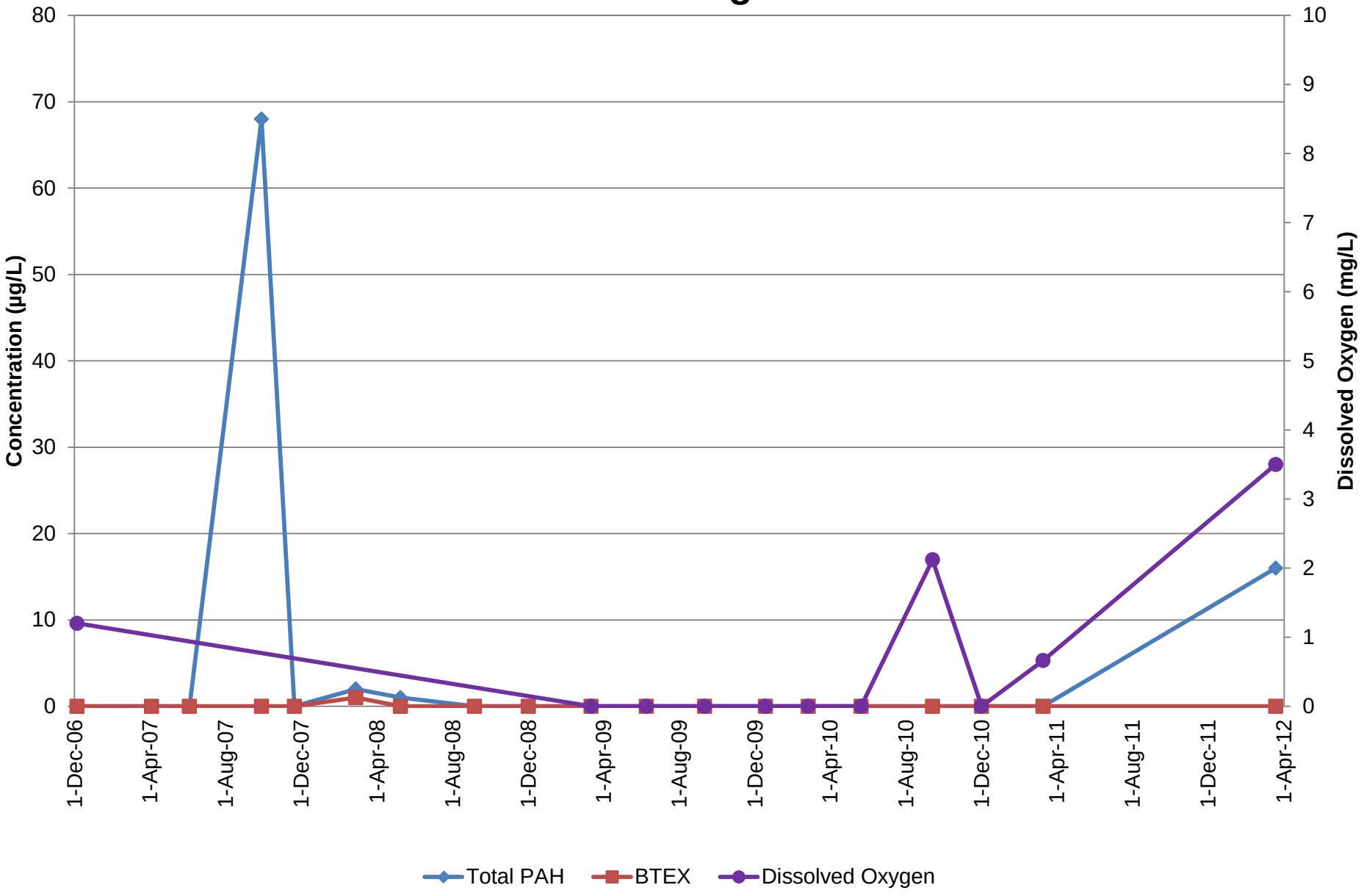
Monitoring Well BBMW-33
7-12 ft bgs



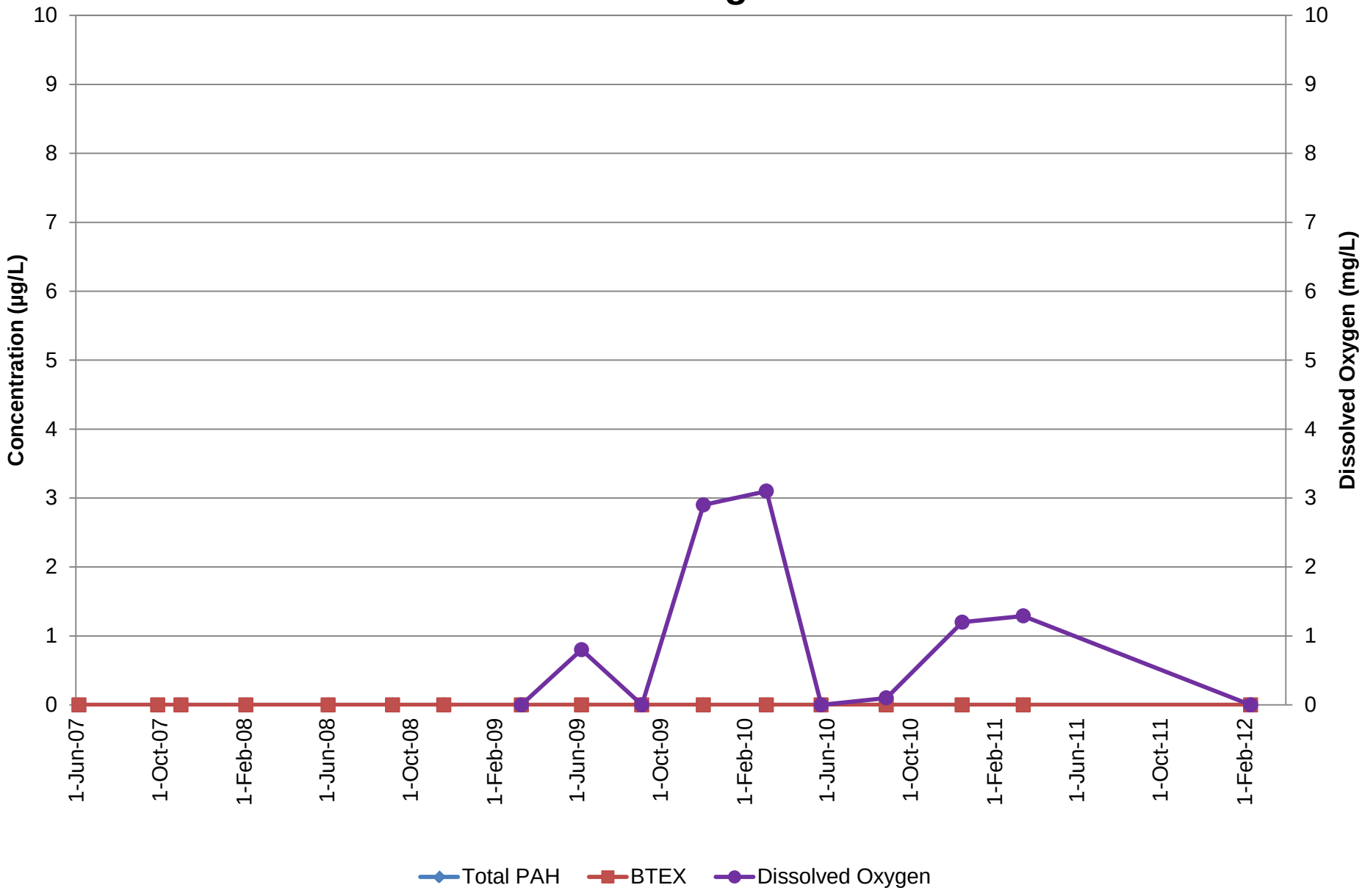
Monitoring Well BW-UST-10
5-10 ft bgs



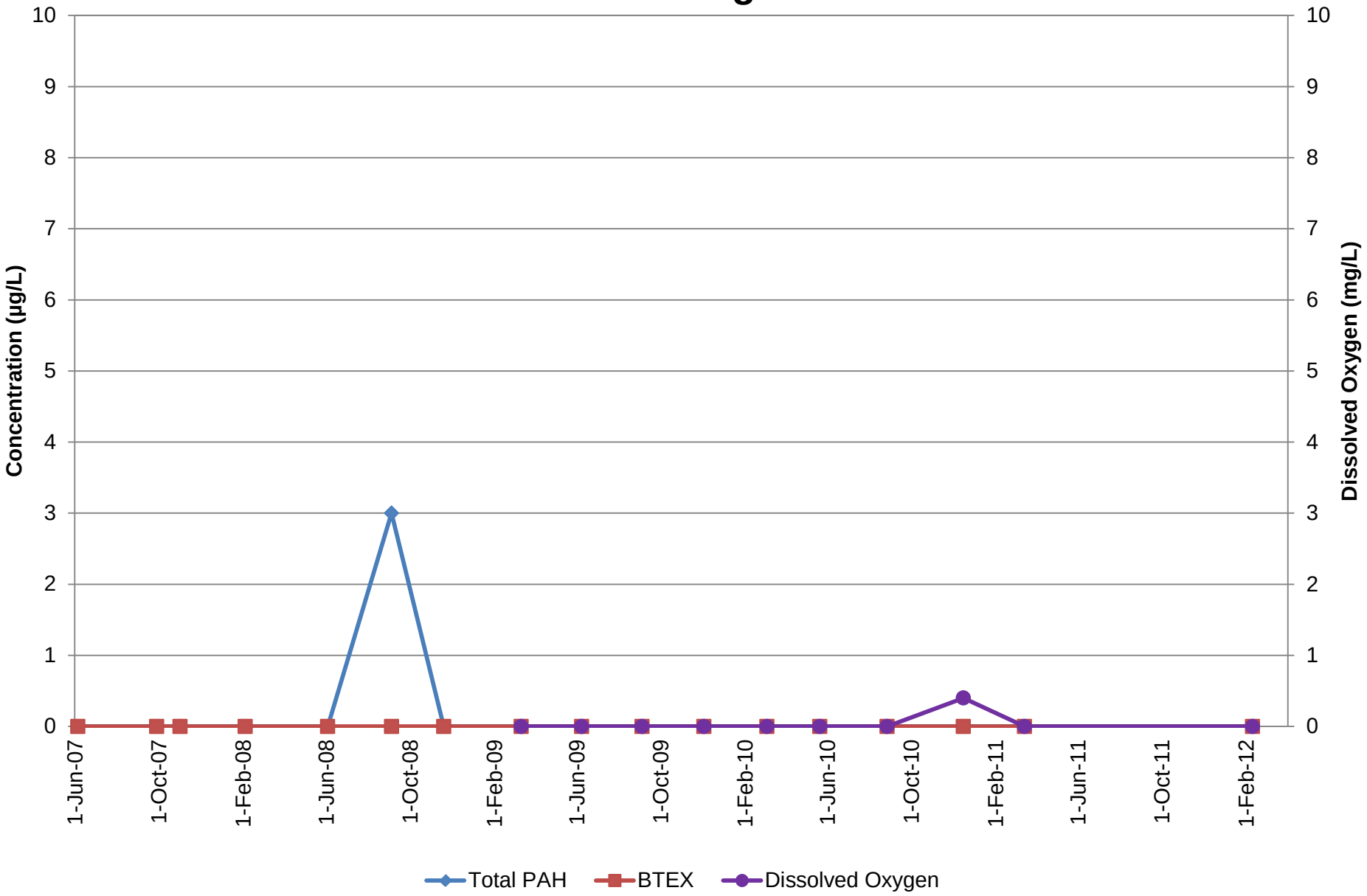
Monitoring Well BW-UST-11
5-10 ft bgs



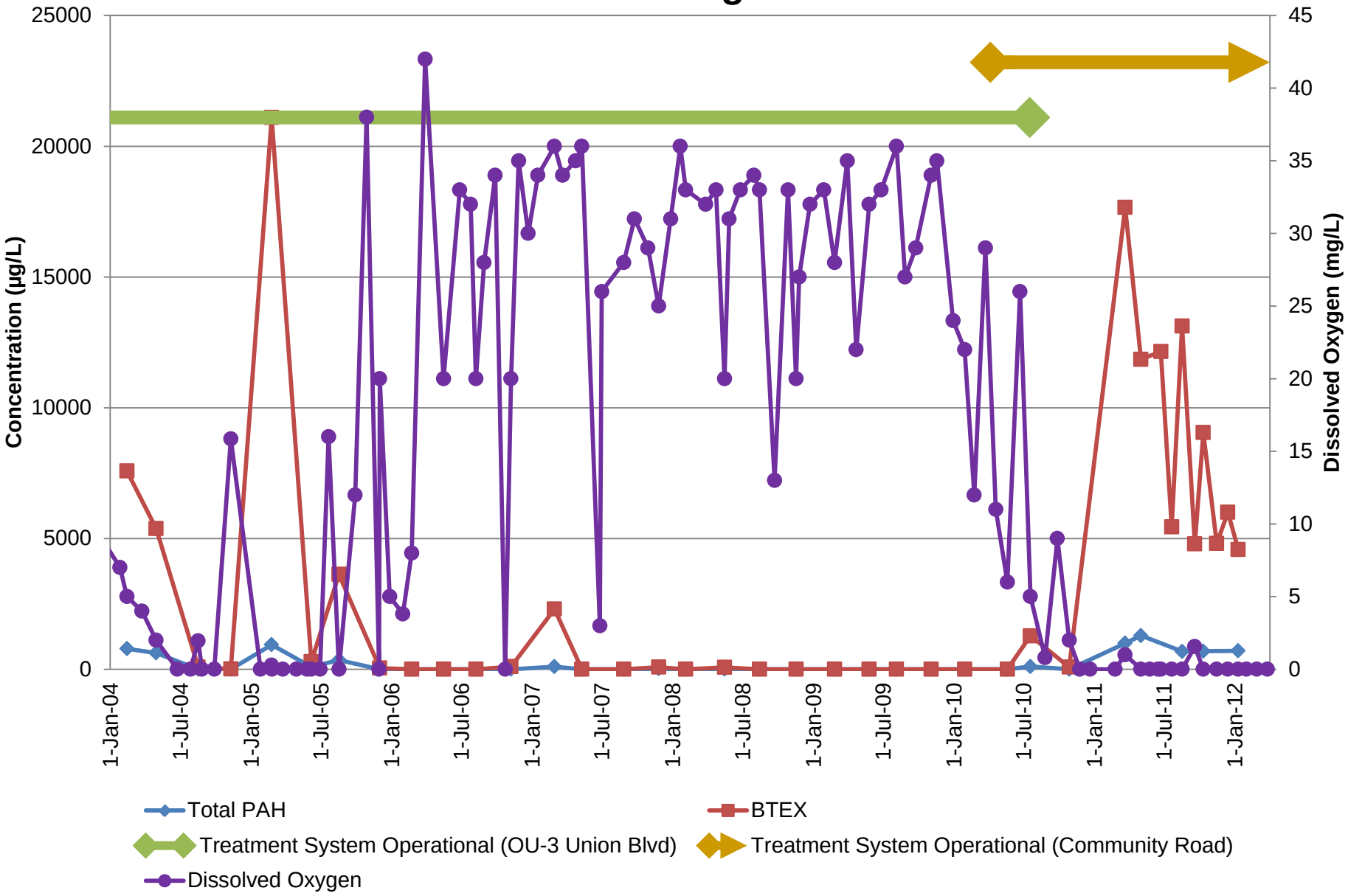
Monitoring Well BW-UST-28
5-10 ft bgs



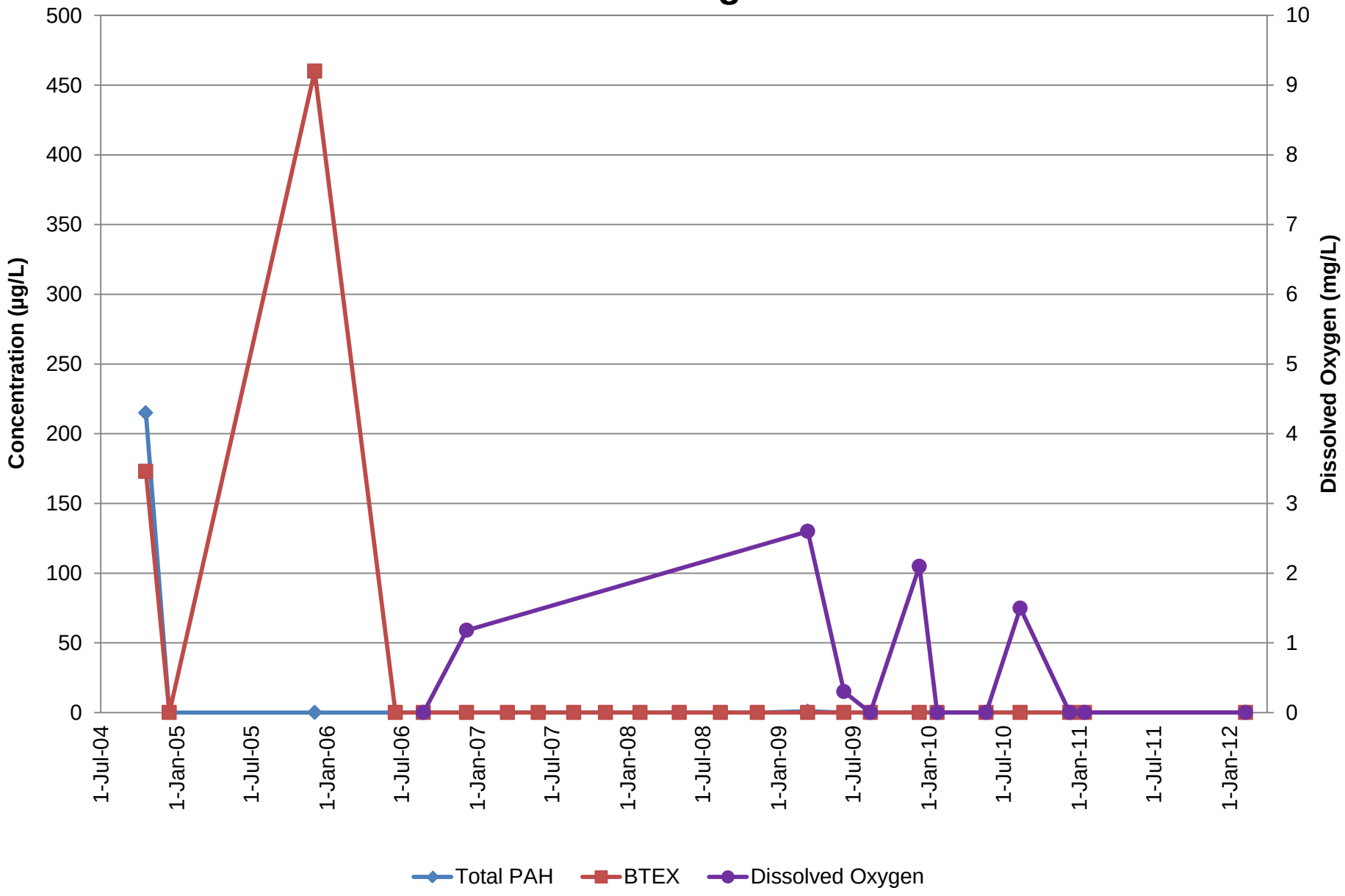
Monitoring Well BW-UST-29
5-10 ft bgs

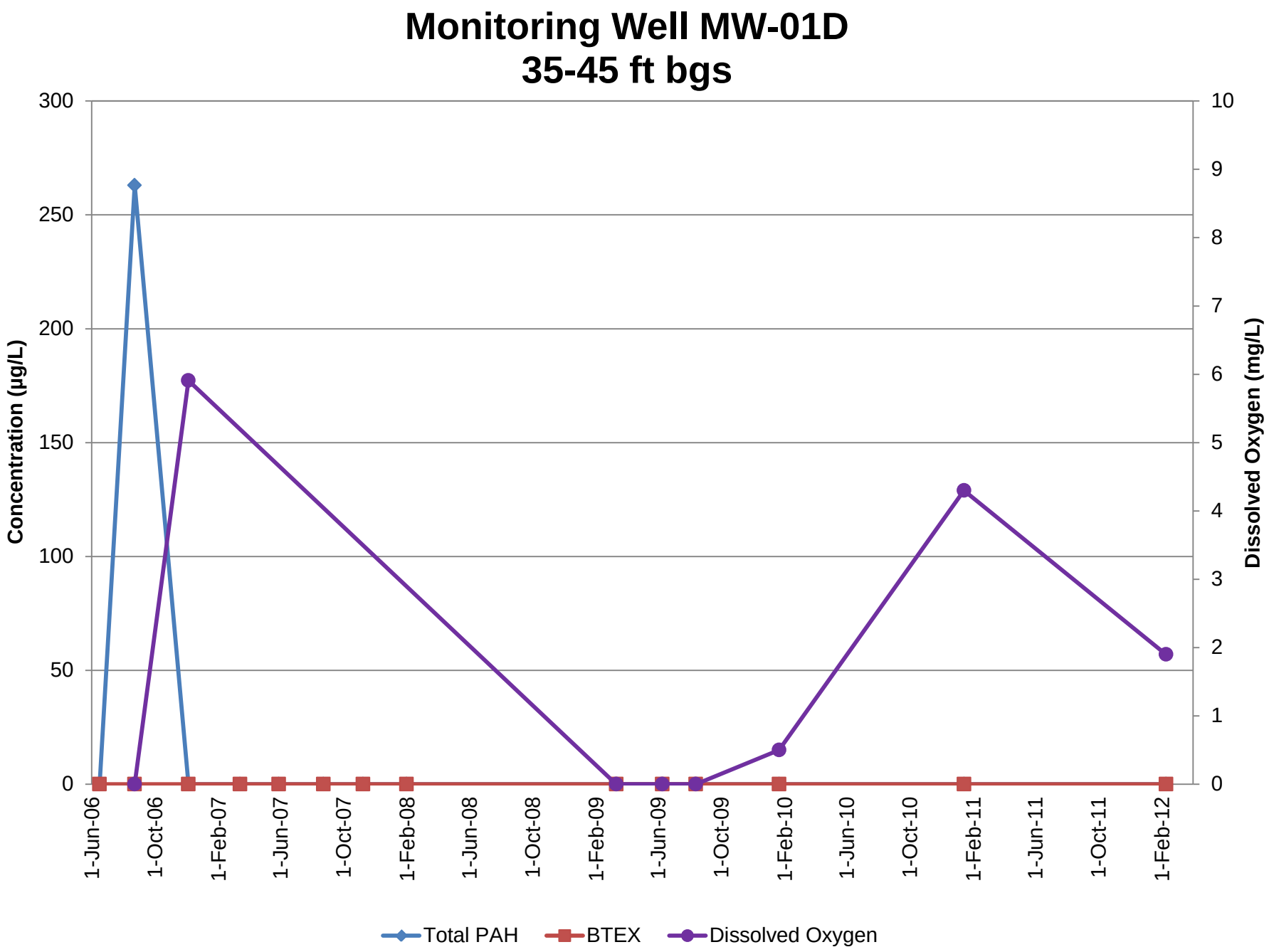


Monitoring Well IO-10
6-16 ft bgs

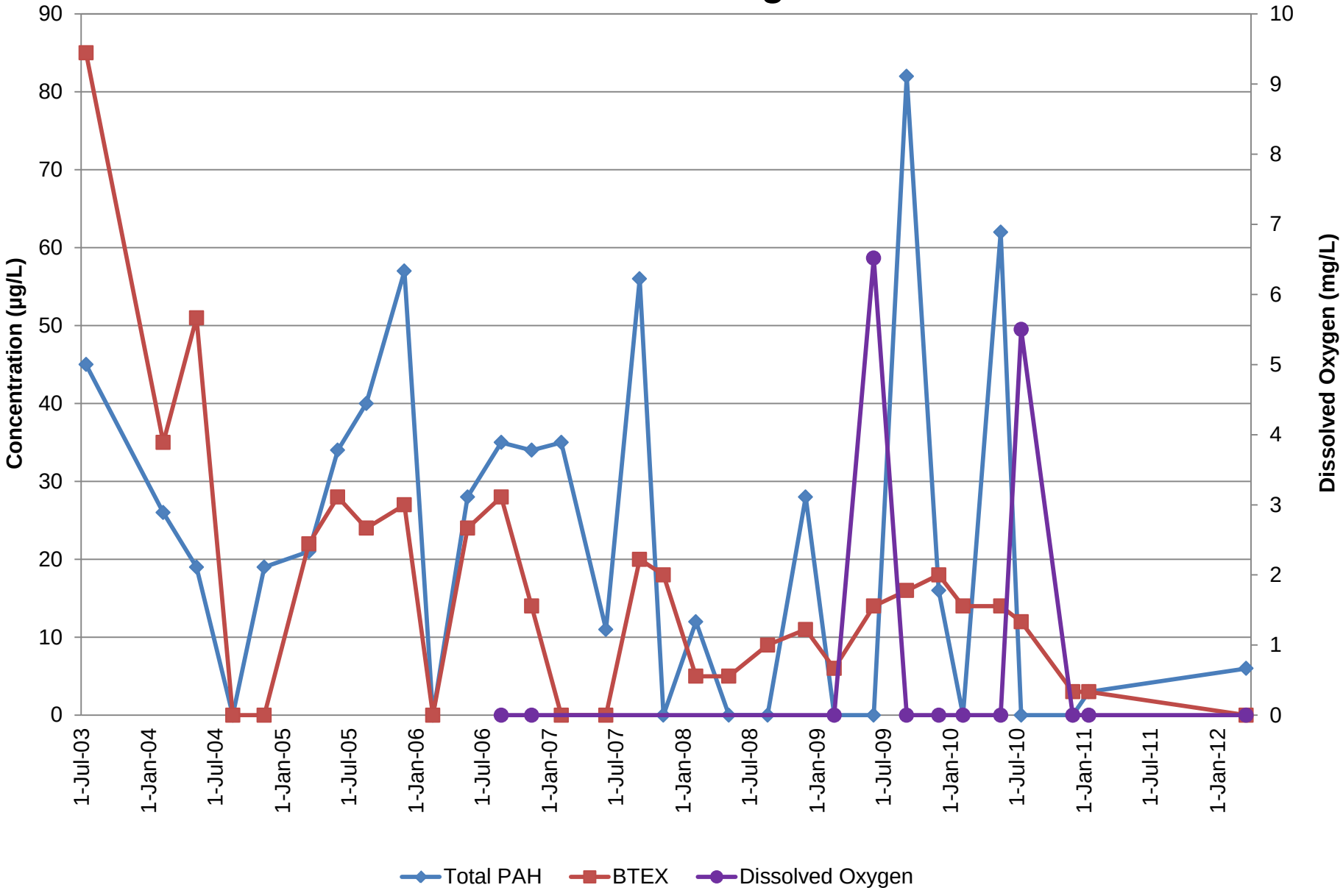


Monitoring Well MW-01S
4-14 ft bgs

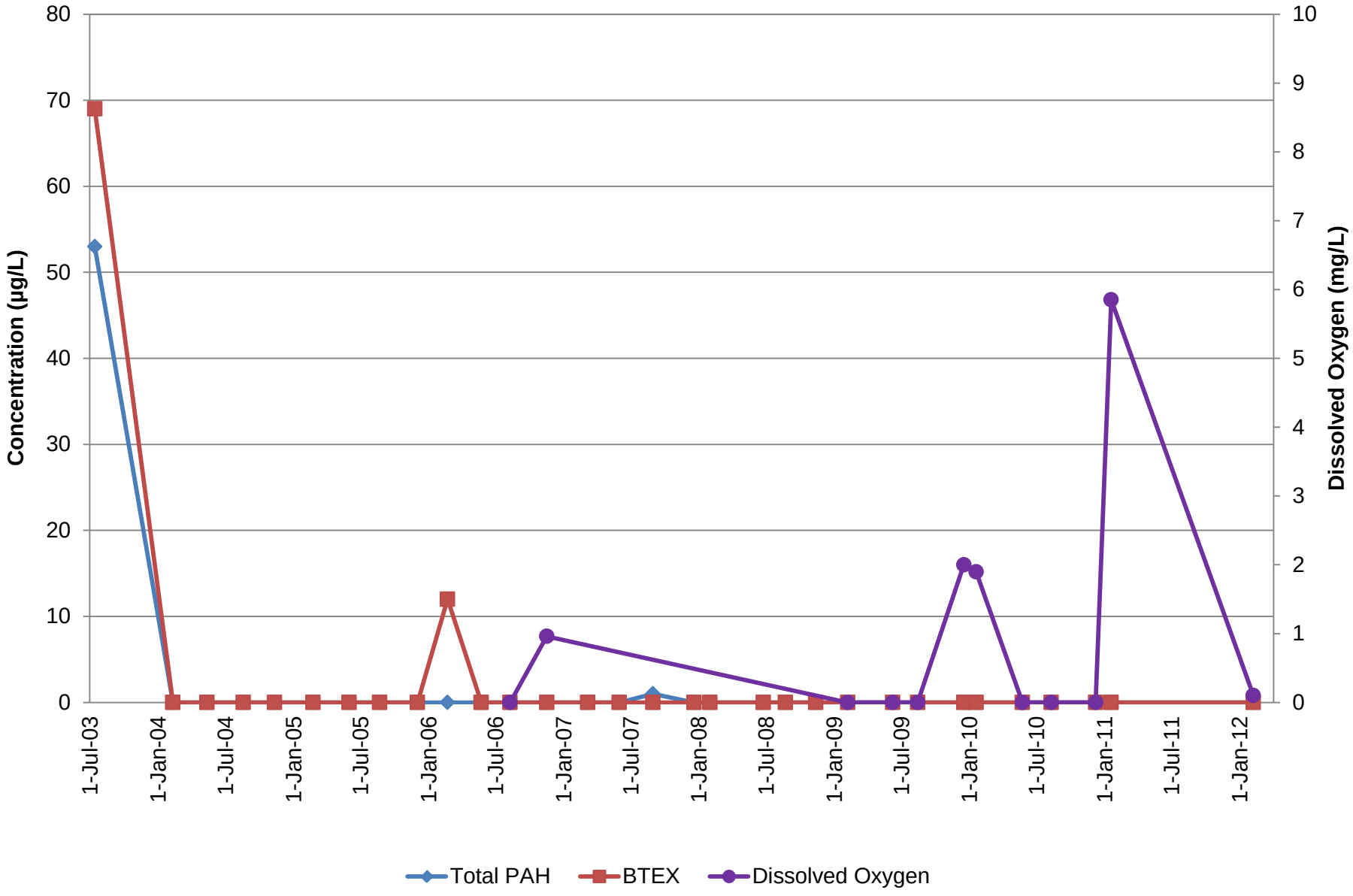



Monitoring Well MW-01D
35-45 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
300
250
200
150
100
50
0
10
9
8
7
6
5
4
3
2
1
0
1-Jun-06
1-Oct-06
1-Feb-07
1-Jun-07
1-Oct-07
1-Feb-08
1-Jun-08
1-Oct-08
1-Feb-09
1-Jun-09
1-Oct-09
1-Feb-10
1-Jun-10
1-Oct-10
1-Feb-11
1-Jun-11
1-Oct-11
1-Feb-12
Total PAH
BTEX
Dissolved Oxygen

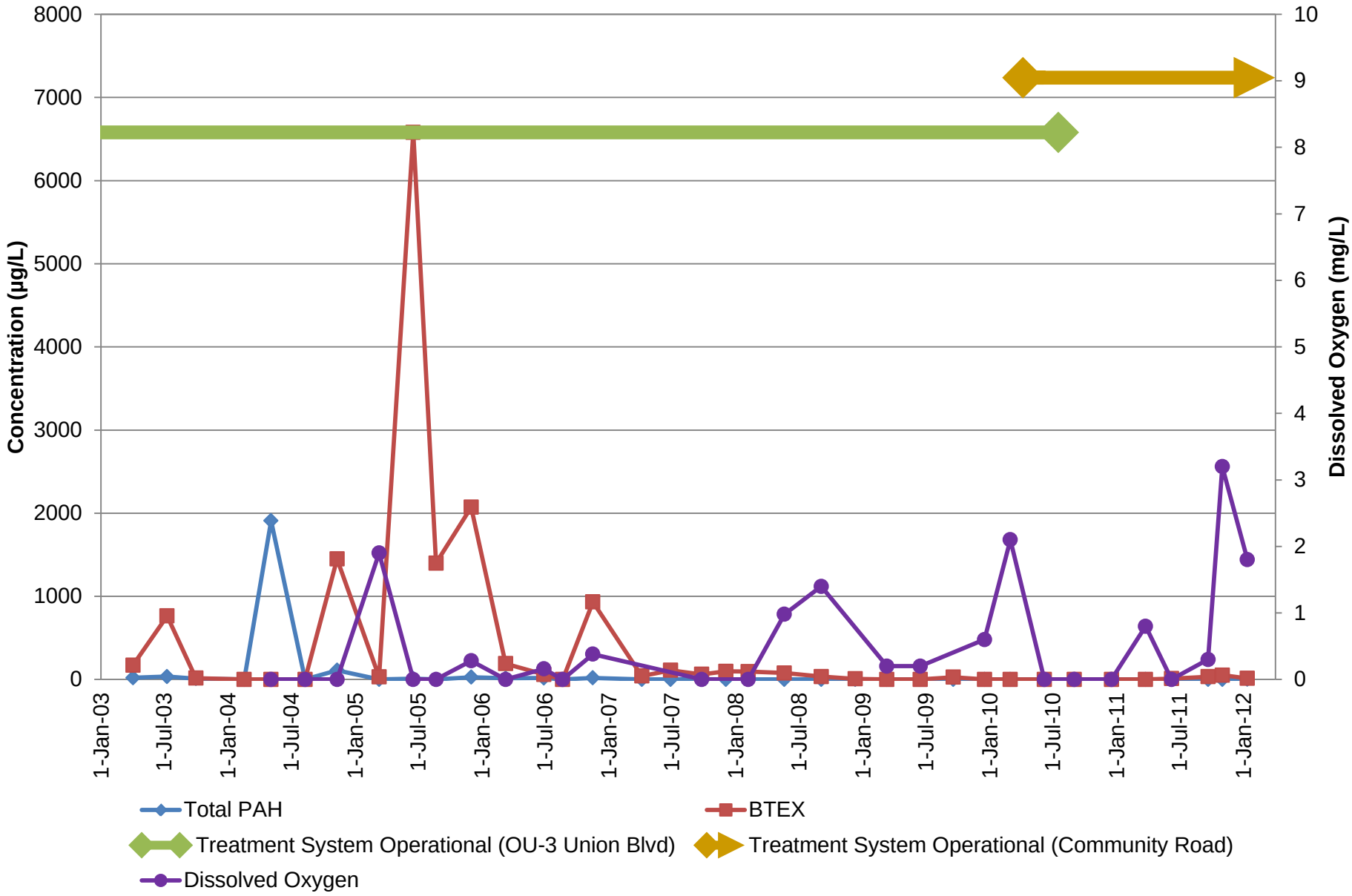
Monitoring Well MW-03
4.94-14.94 ft bgs

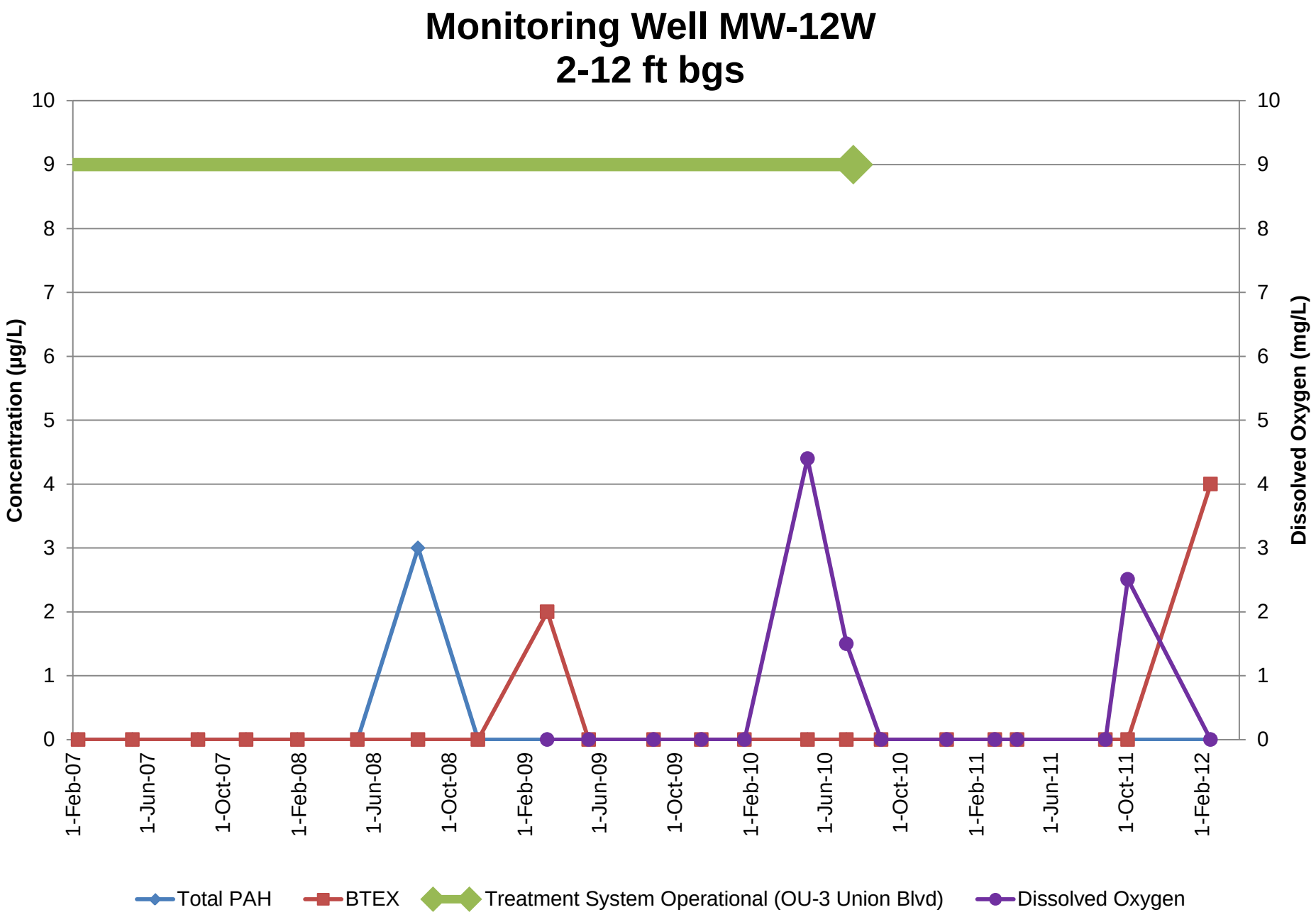


Monitoring Well MW-04
5.1-15.1 ft bgs

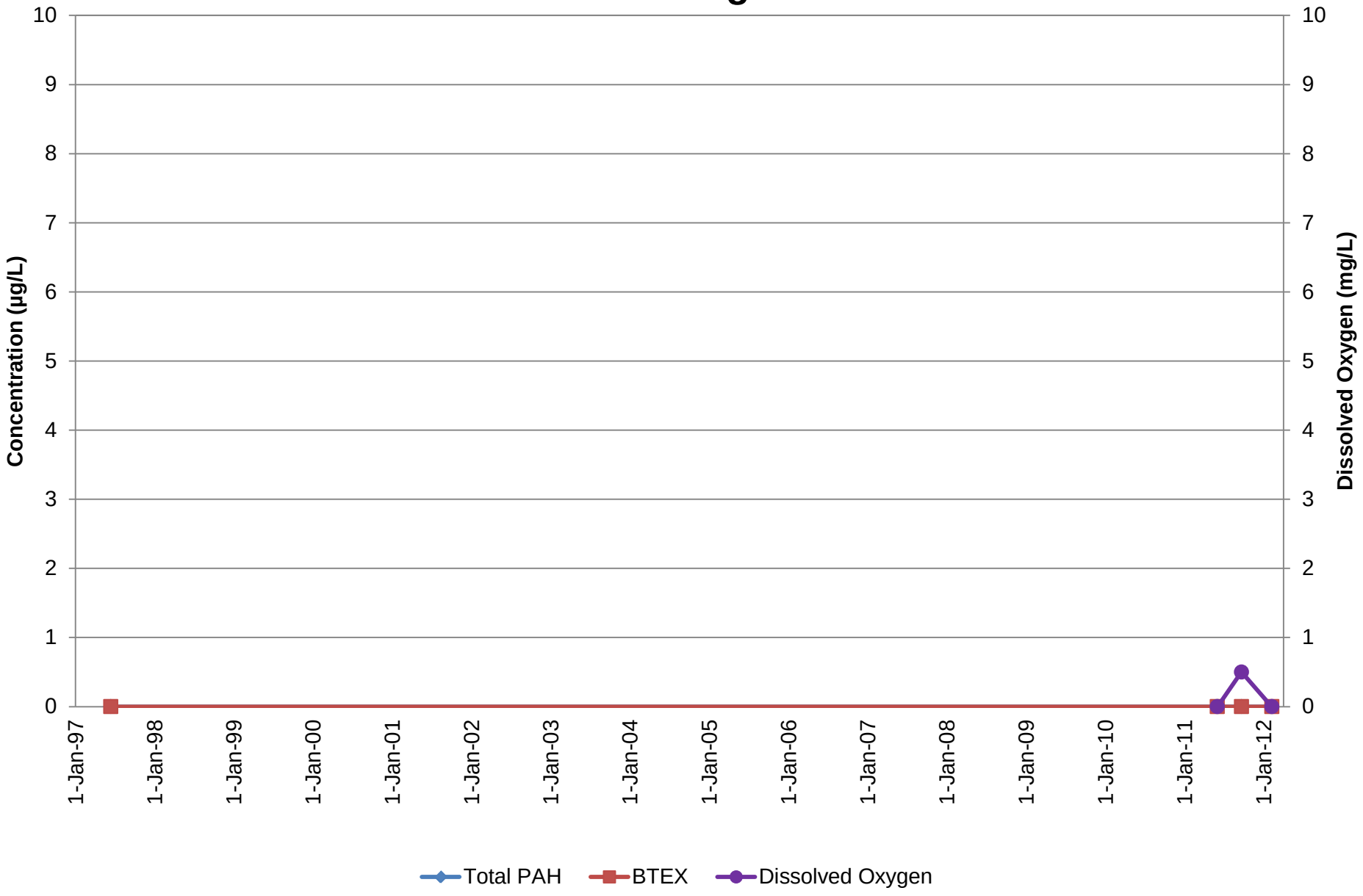


Monitoring Well MW-11W
2-10 ft bgs

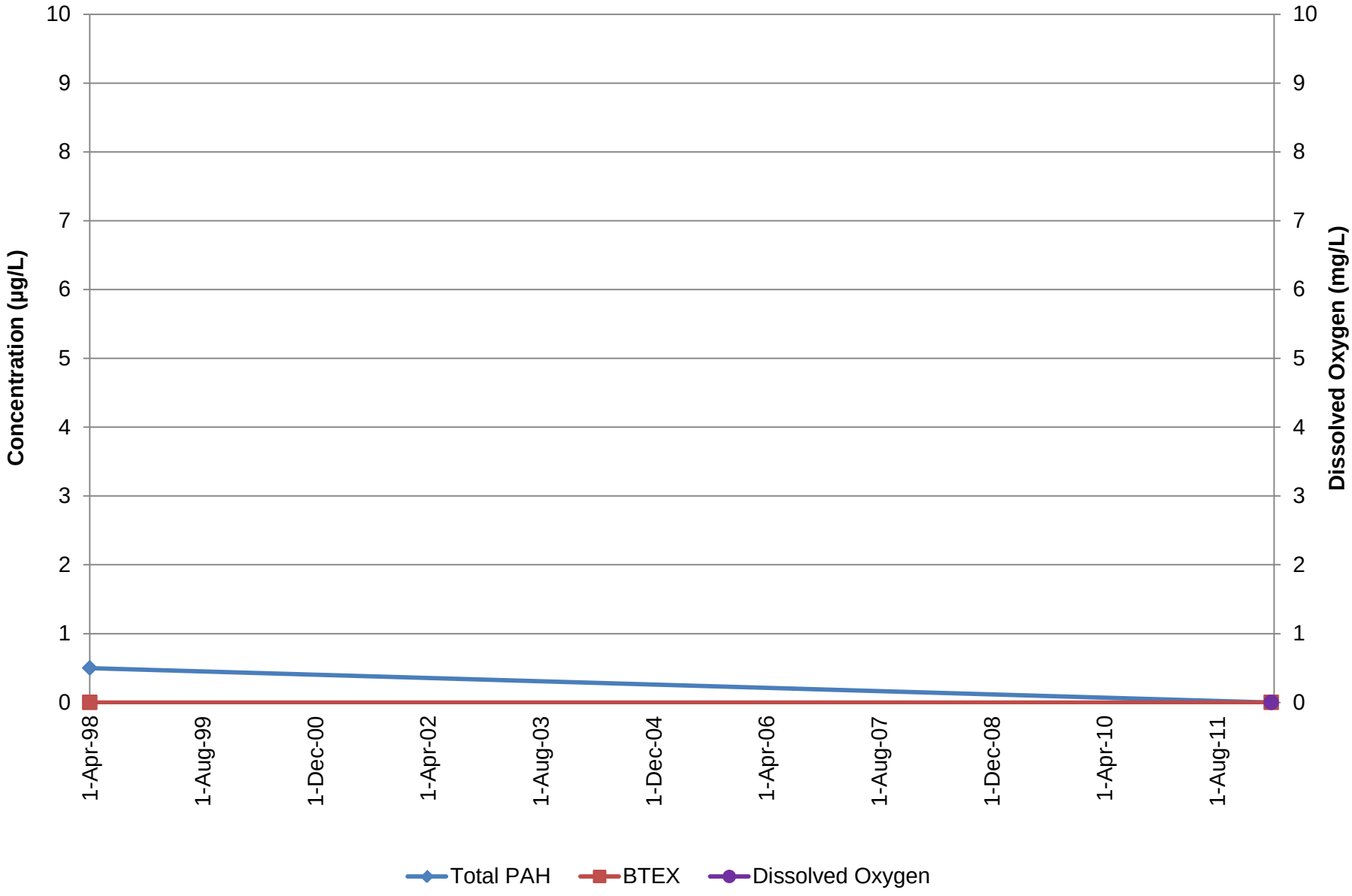



Monitoring Well MW-12W
2-12 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
1-Feb-07
1-Jun-07
1-Oct-07
1-Feb-08
1-Jun-08
1-Oct-08
1-Feb-09
1-Jun-09
1-Oct-09
1-Feb-10
1-Jun-10
1-Oct-10
1-Feb-11
1-Jun-11
1-Oct-11
1-Feb-12
Total PAH
BTEX
Treatment System Operational (OU-3 Union Blvd)
Dissolved Oxygen

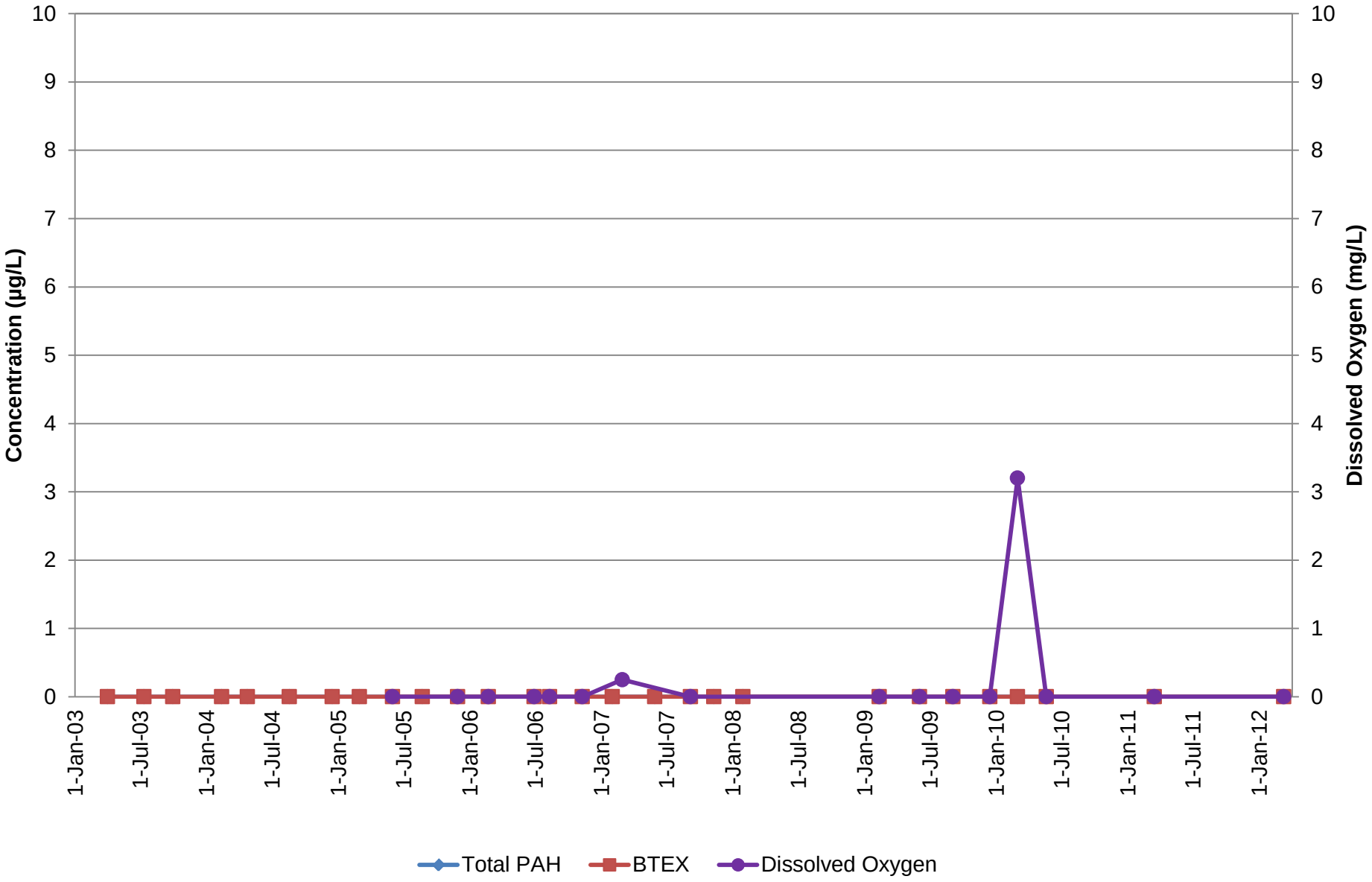
Monitoring Well MW-13W
2-10 ft bgs



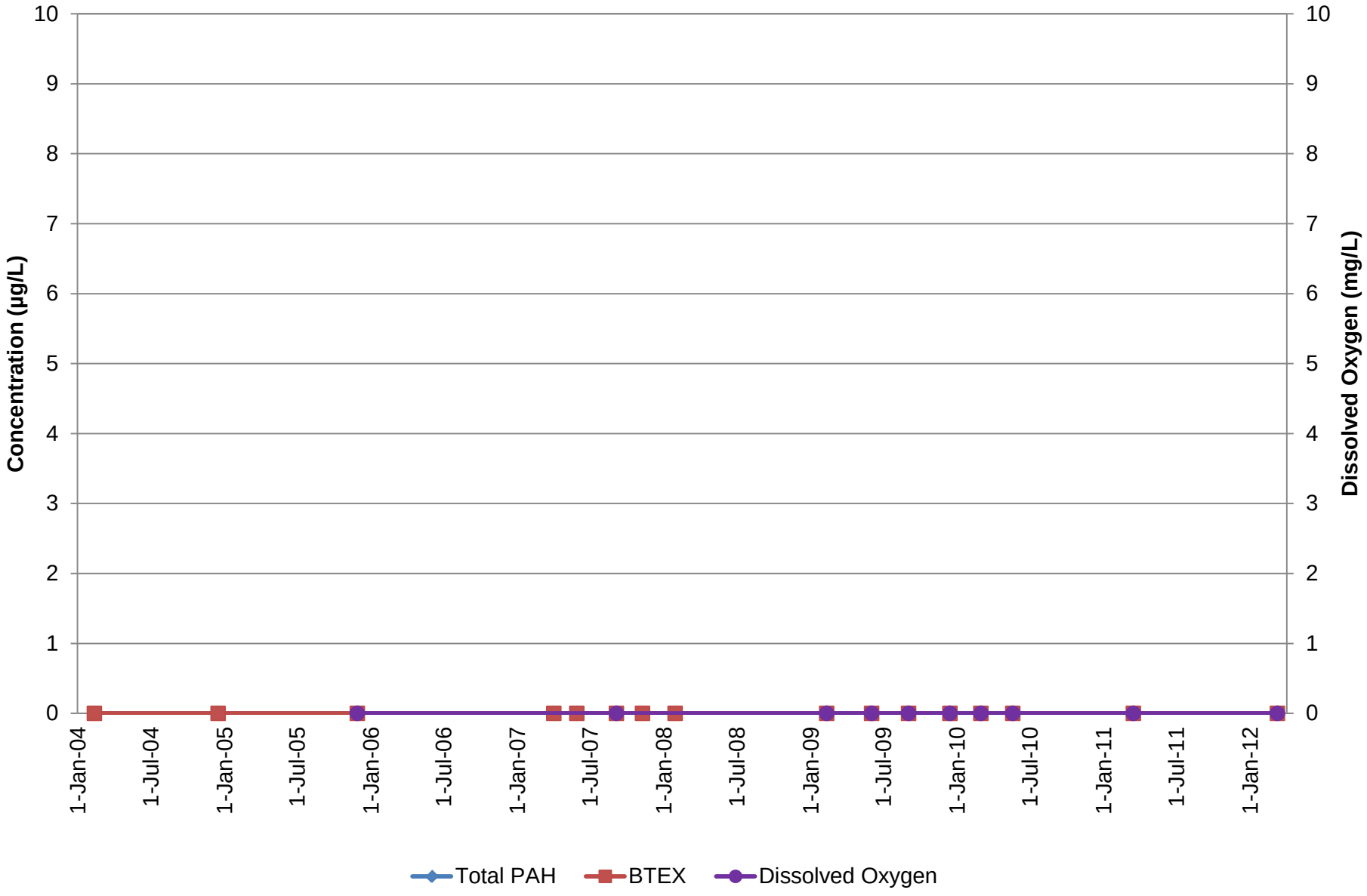
Monitoring Well MW-24D
14-19 ft bgs



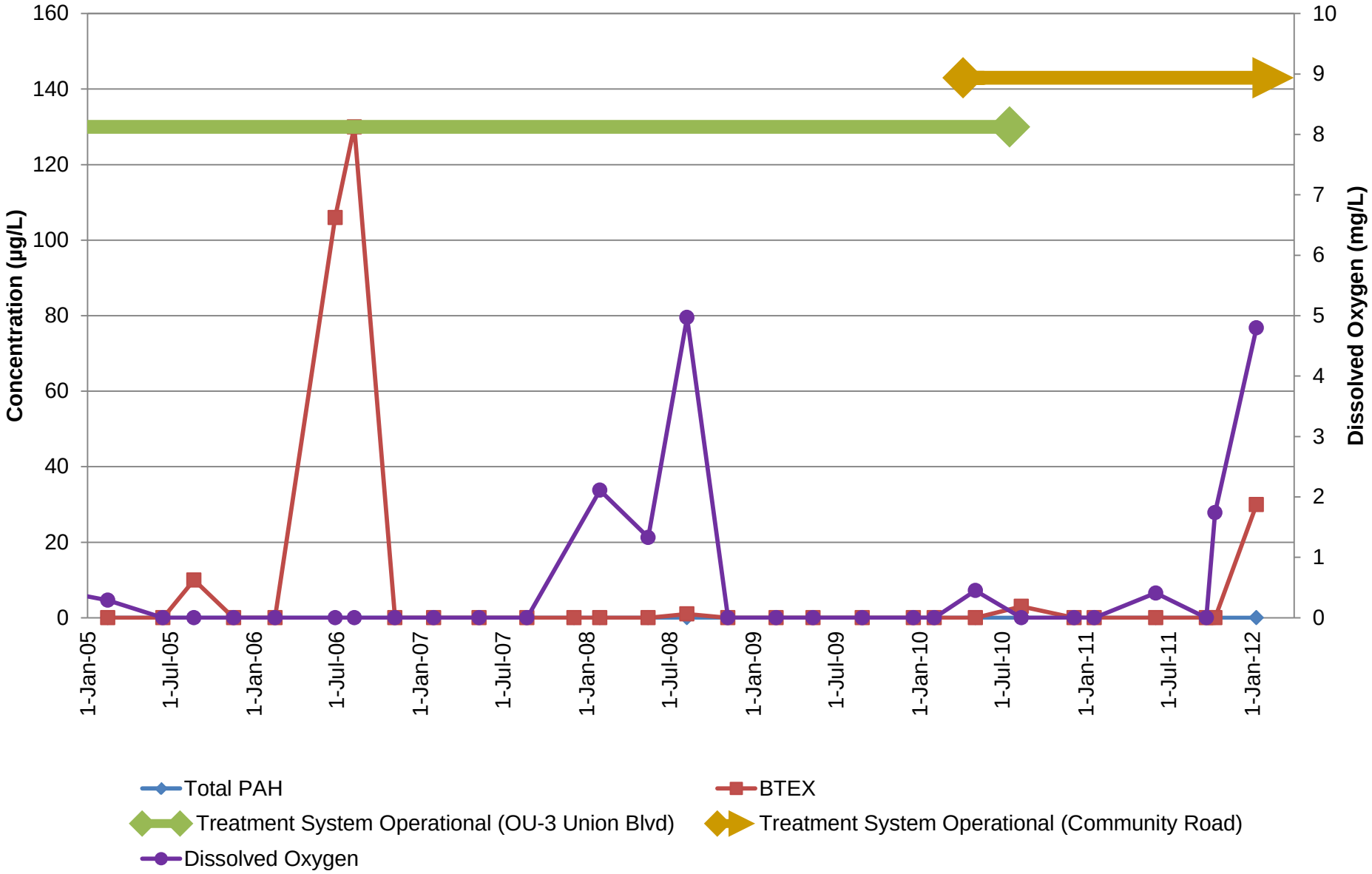
Monitoring Well MW-29S
2-10 ft bgs



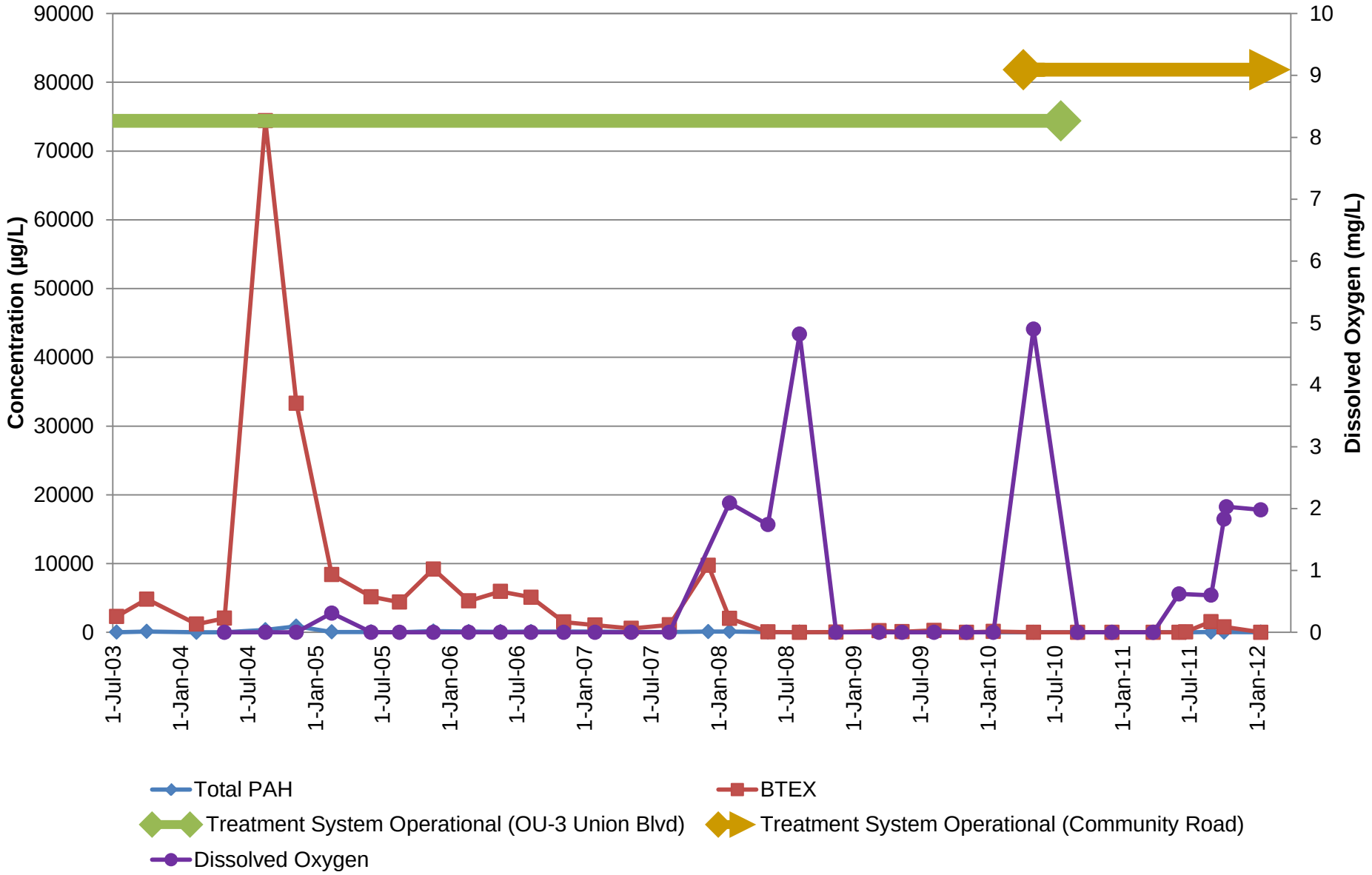
Monitoring Well MW-29D
14-19 ft bgs



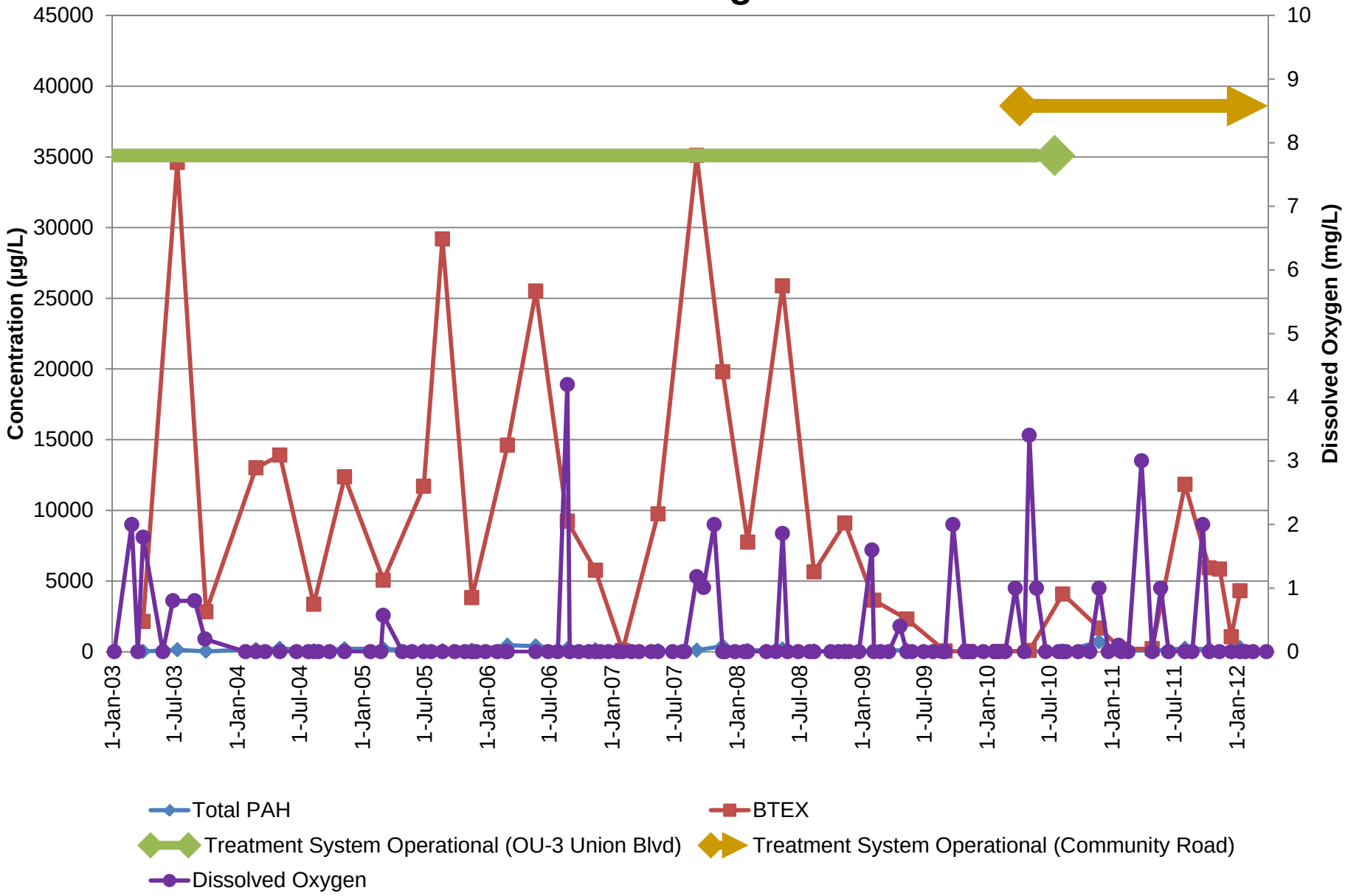
Monitoring Well MW-30WR
14-19 ft bgs



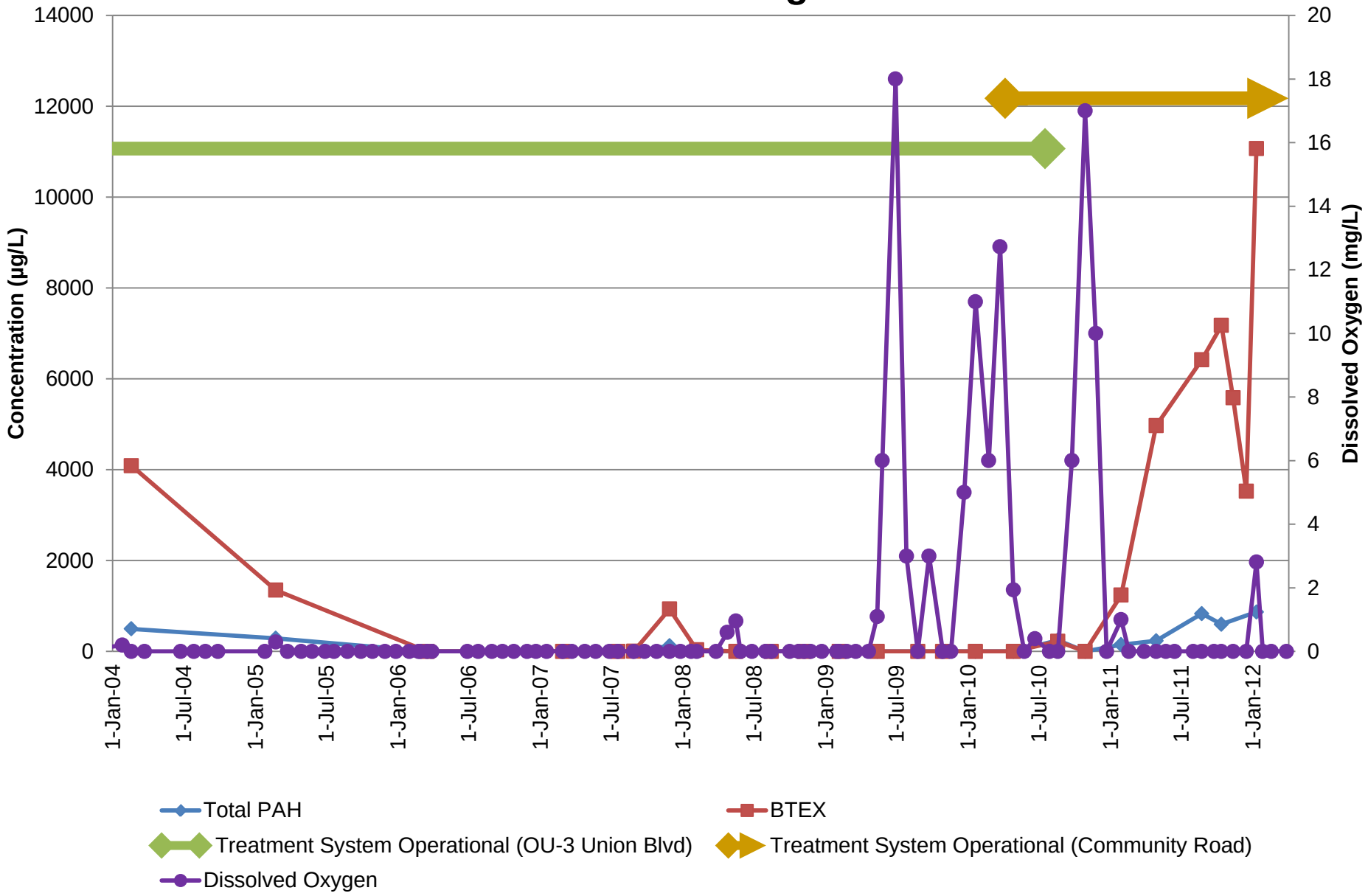
Monitoring Well MW-32WR
2-10 ft bgs

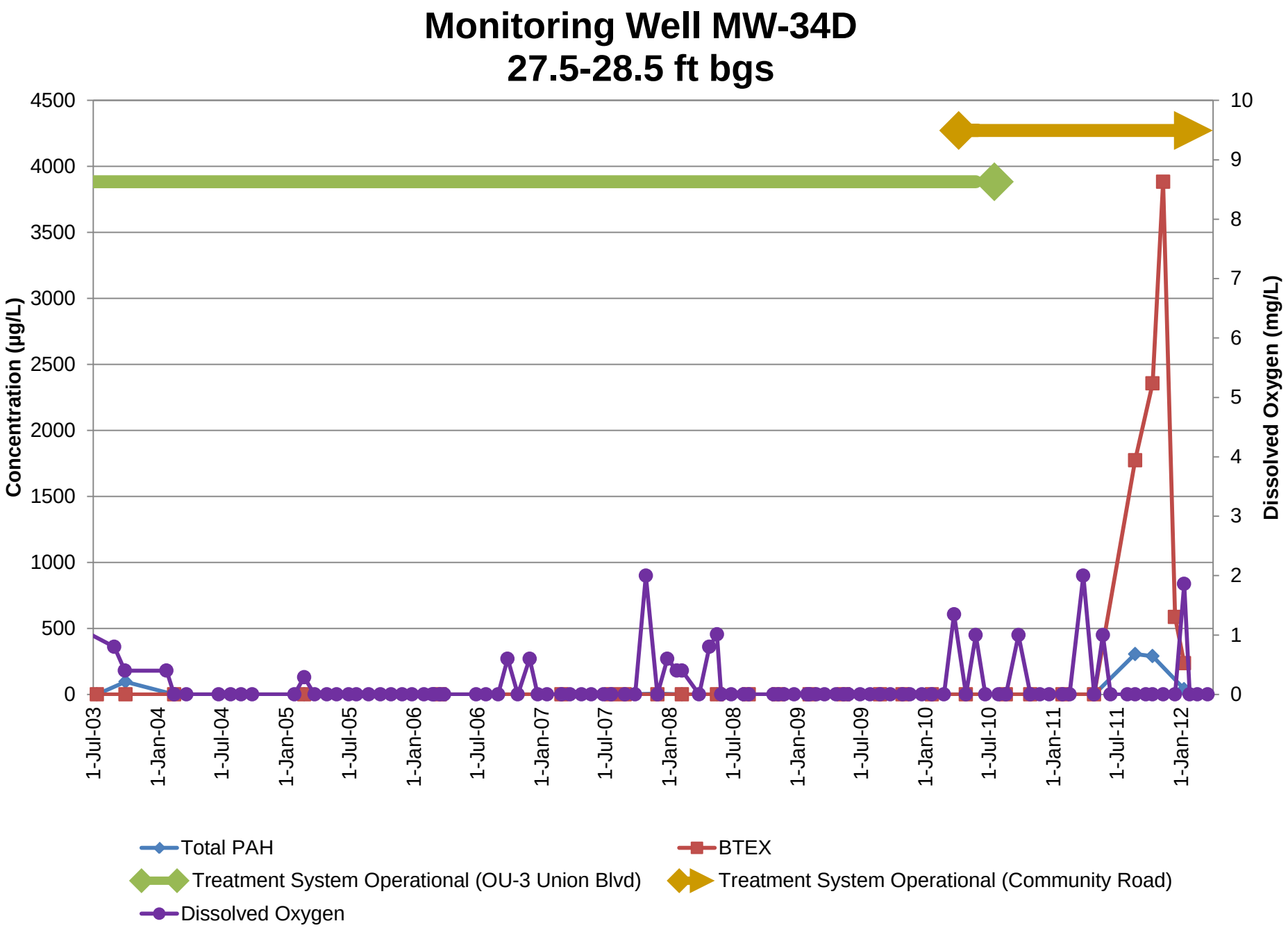


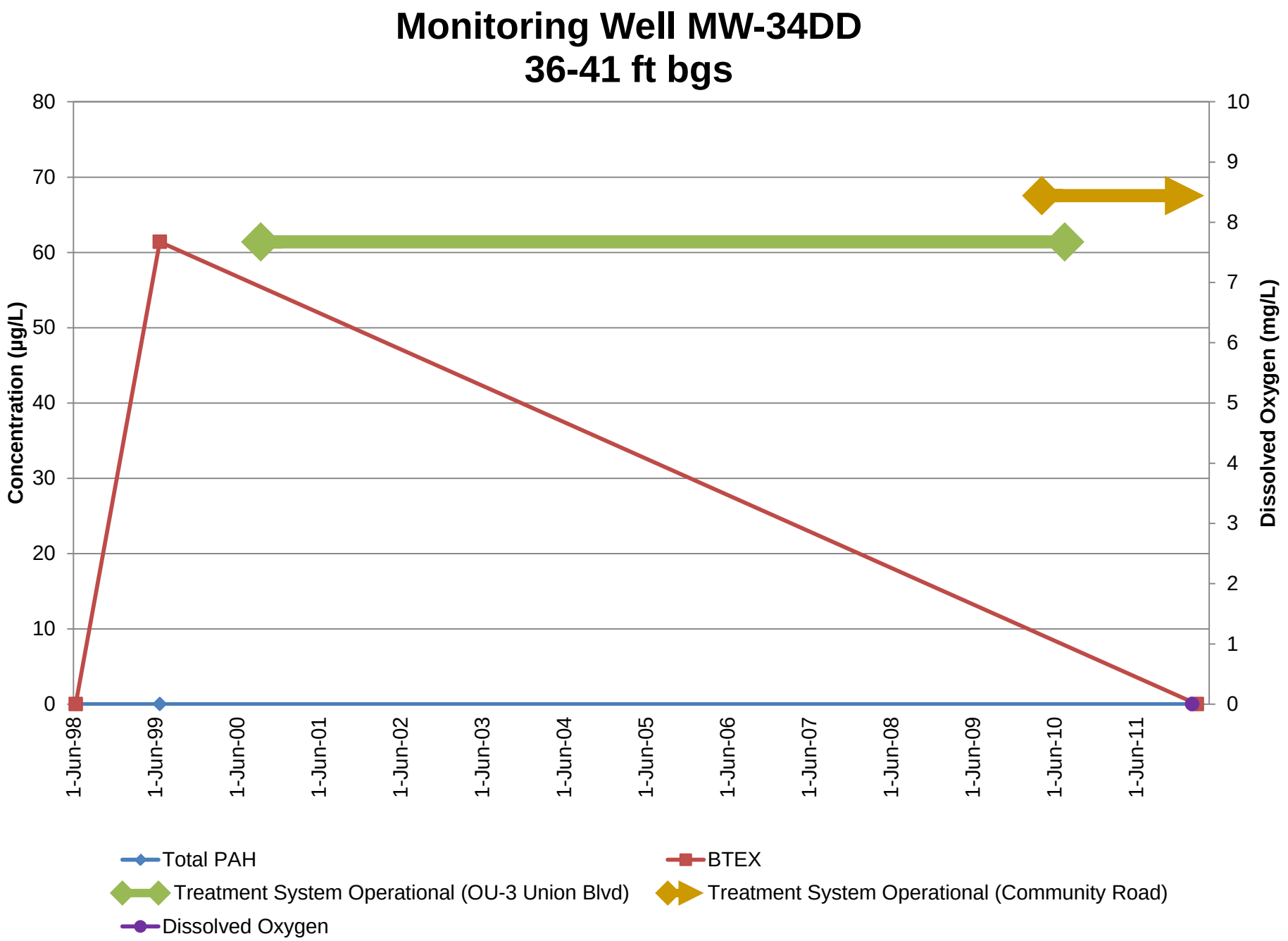
Monitoring Well MW-34S
2-10 ft bgs



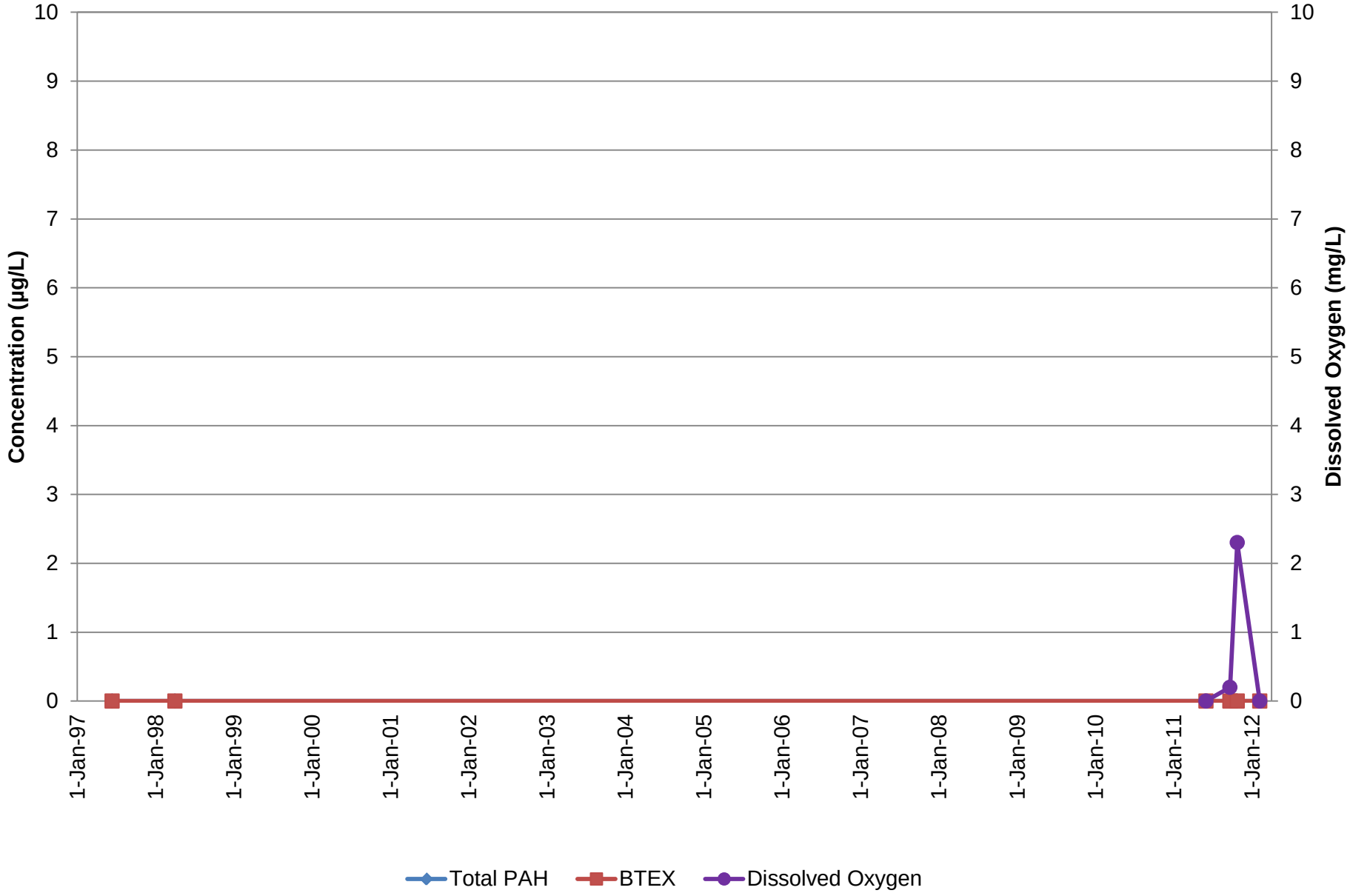
Monitoring Well MW-34I
18.5-19.5 ft bgs



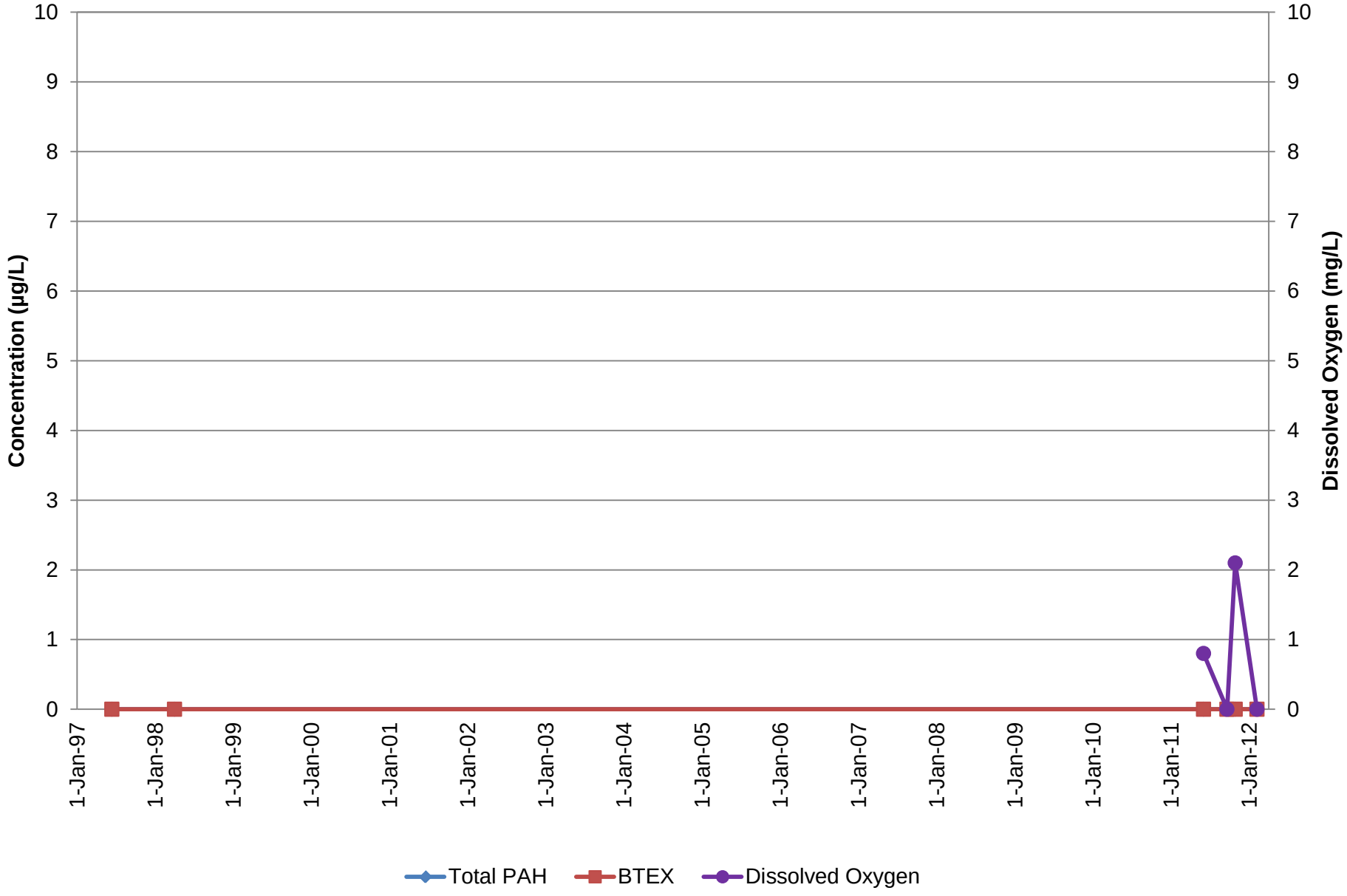

Monitoring Well MW-34D
27.5-28.5 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-03
1-Jan-04
1-Jul-04
1-Jan-05
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (OU-3 Union Blvd)
Treatment System Operational (Community Road)
Dissolved Oxygen


Monitoring Well MW-34DD
36-41 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
80
70
60
50
40
30
20
10
0
10
9
8
7
6
5
4
3
2
1
0
1-Jun-98
1-Jun-99
1-Jun-00
1-Jun-01
1-Jun-02
1-Jun-03
1-Jun-04
1-Jun-05
1-Jun-06
1-Jun-07
1-Jun-08
1-Jun-09
1-Jun-10
1-Jun-11
Total PAH
BTEX
Treatment System Operational (OU-3 Union Blvd)
Treatment System Operational (Community Road)
Dissolved Oxygen

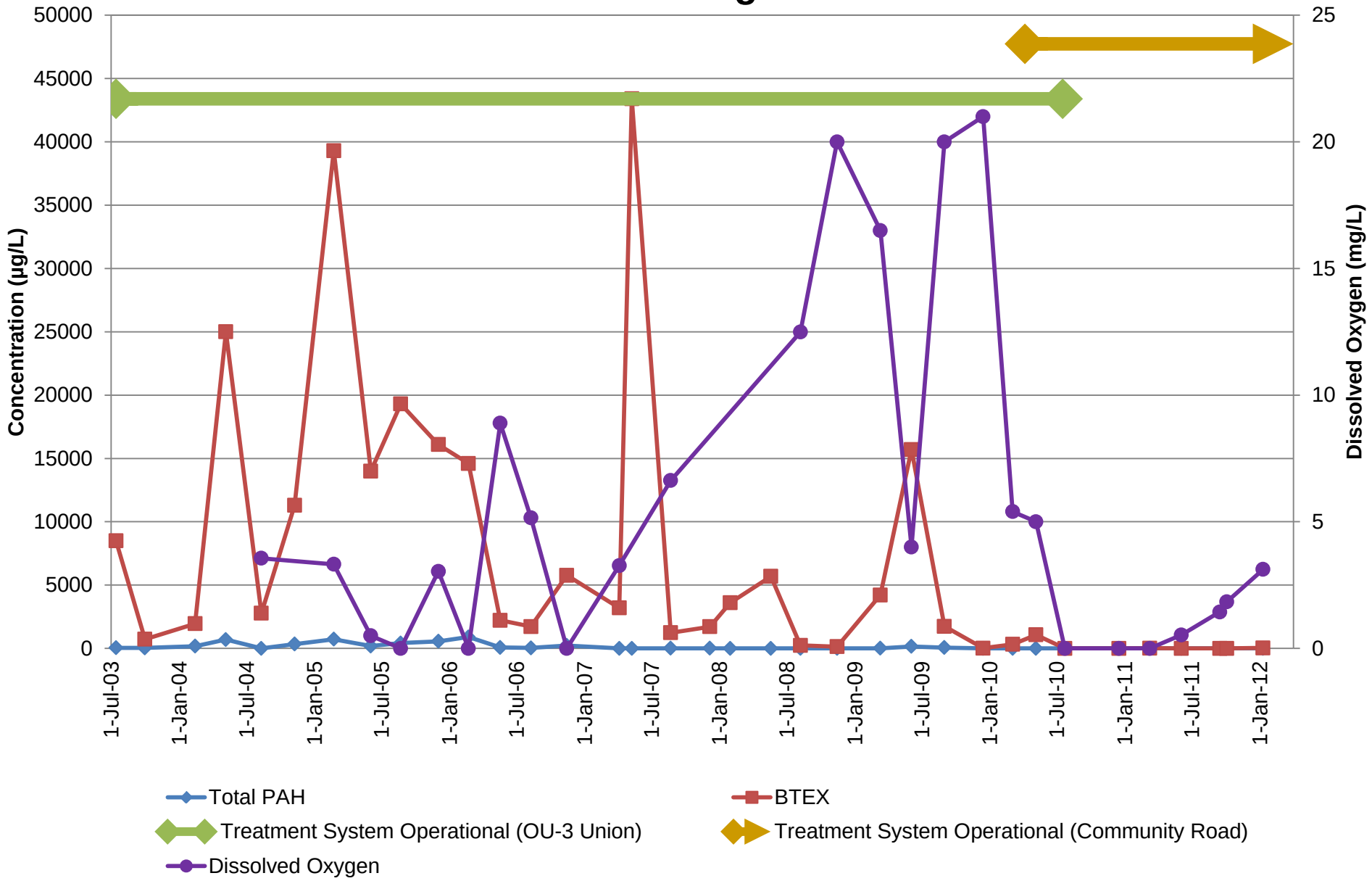
Monitoring Well MW-37W
2-10 ft bgs



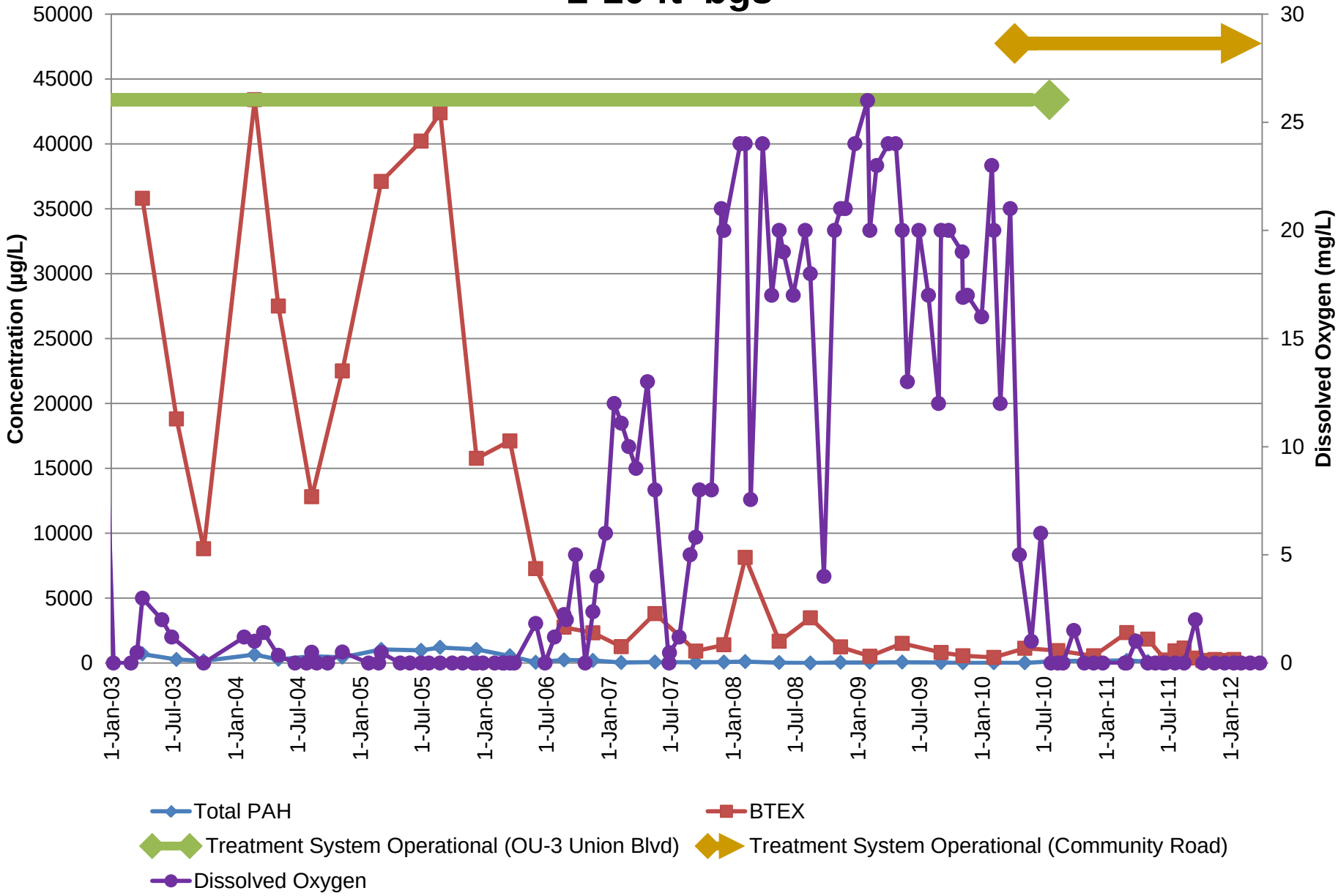
Monitoring Well MW-39W
2-10 ft bgs

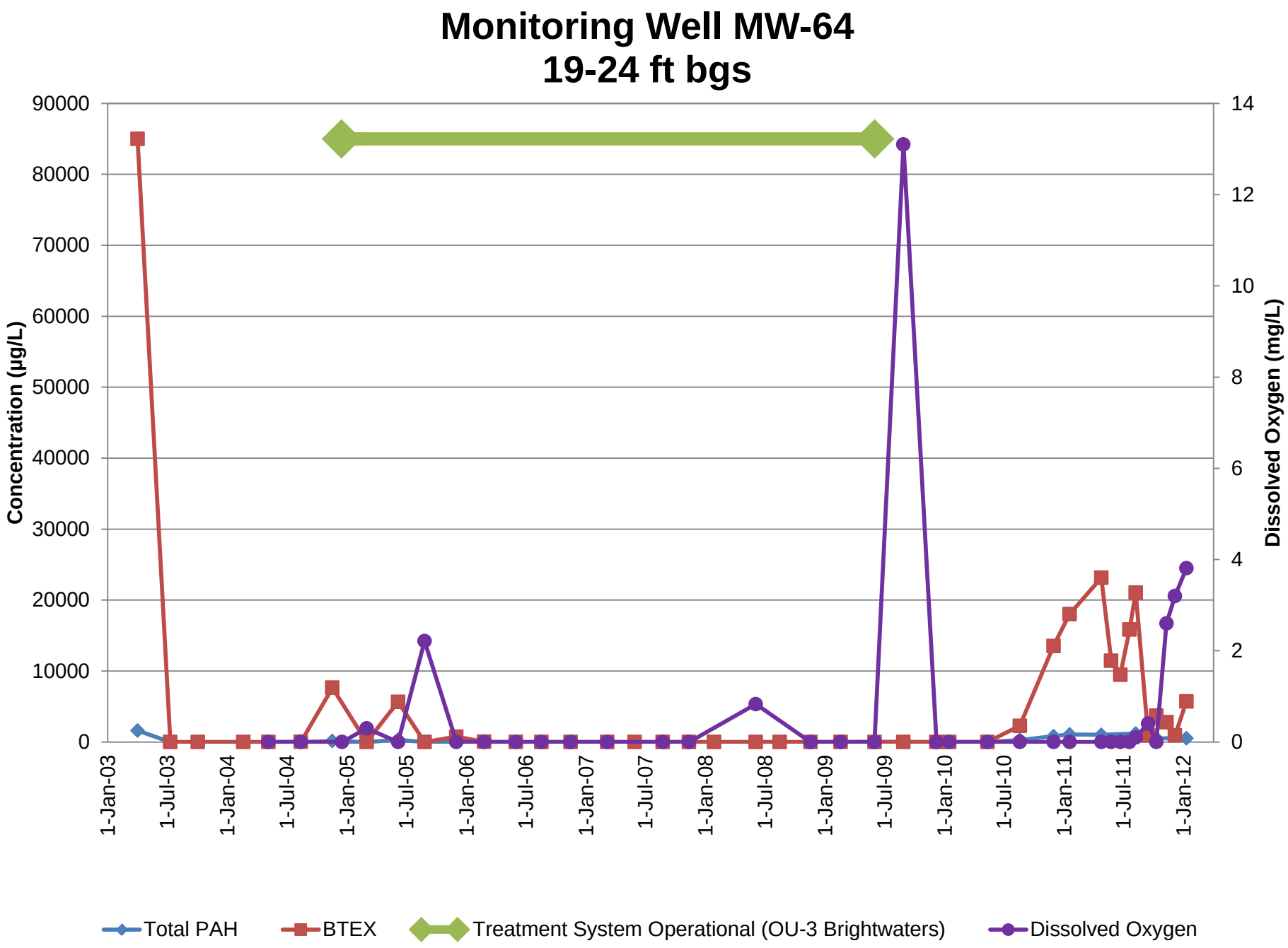


Monitoring Well MW-45W
2-10 ft bgs

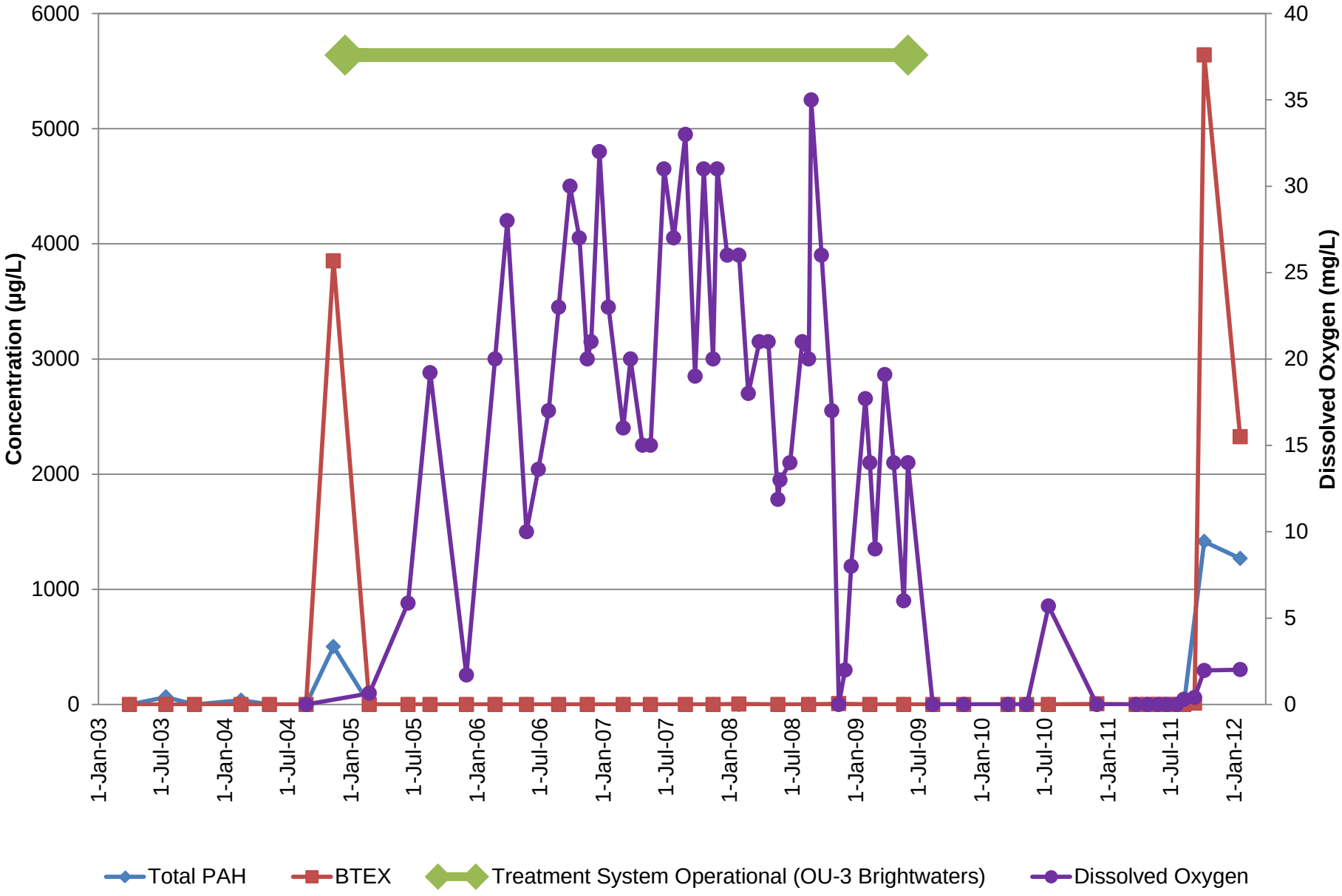


Monitoring Well MW-46WR
2-10 ft bgs

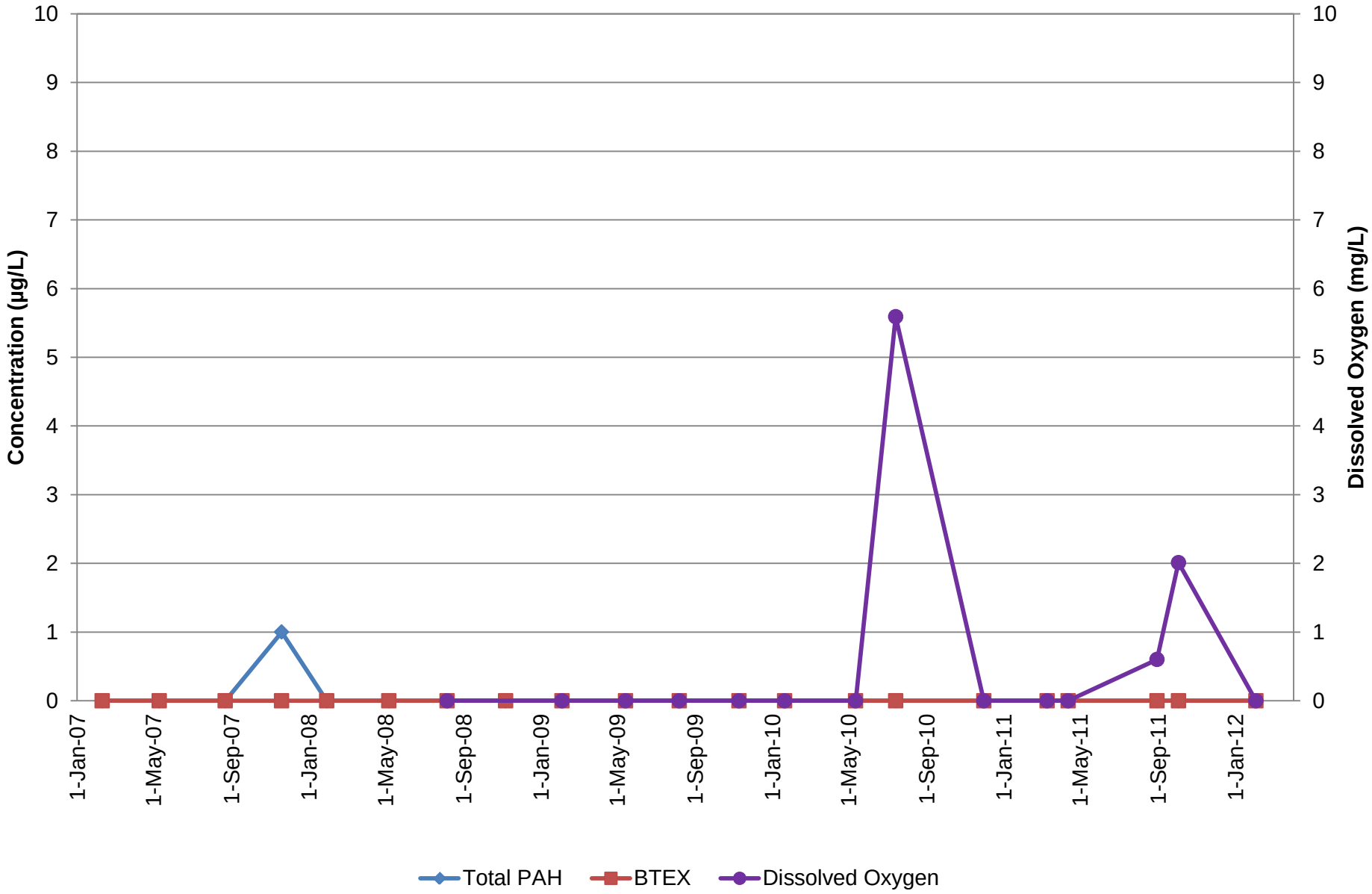



Monitoring Well MW-64
19-24 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
14
12
10
8
6
4
2
0
1-Jan-03
1-Jul-03
1-Jan-04
1-Jul-04
1-Jan-05
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (OU-3 Brightwaters)
Dissolved Oxygen

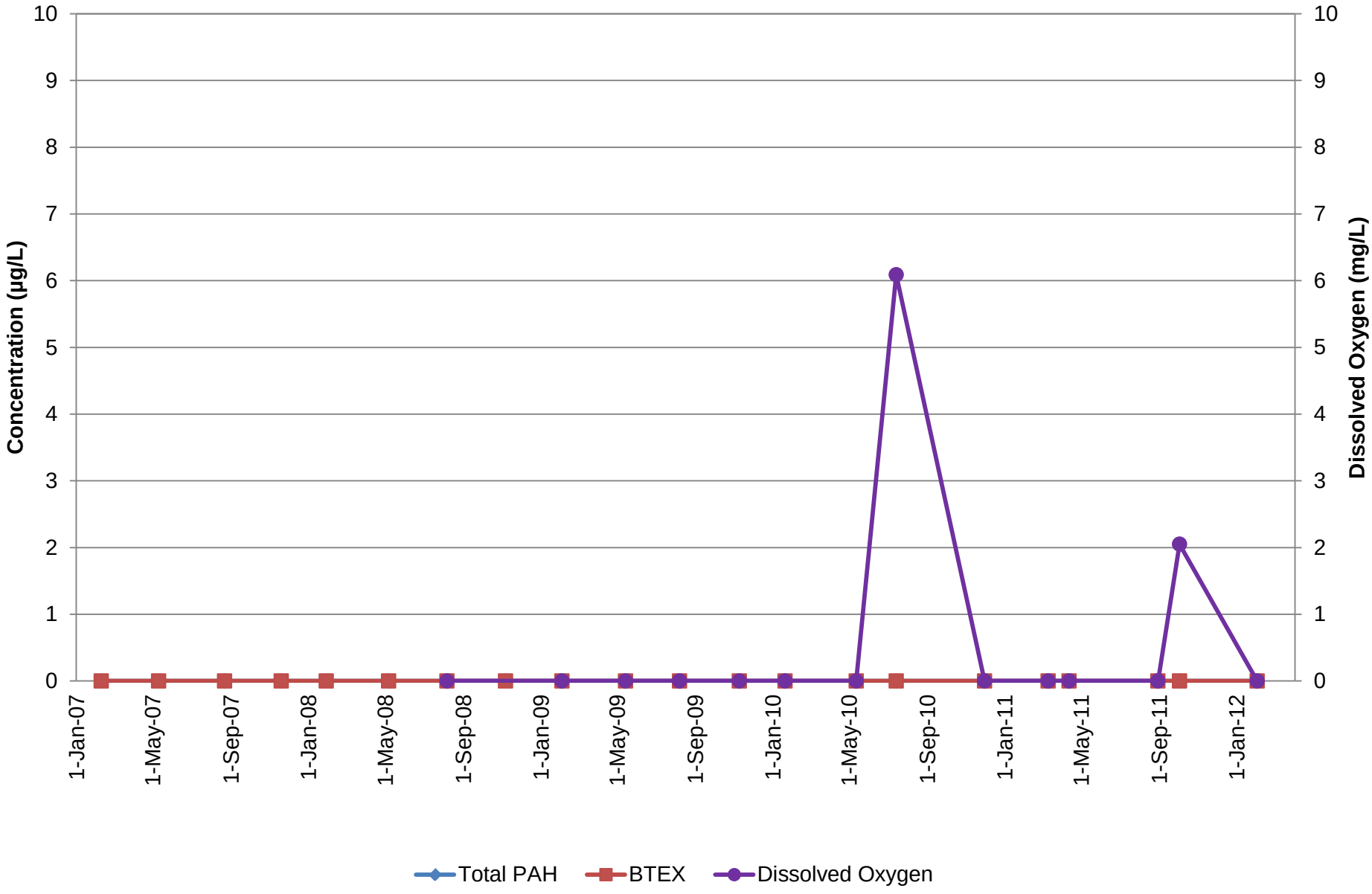
Monitoring Well MW-65
11-16 ft bgs



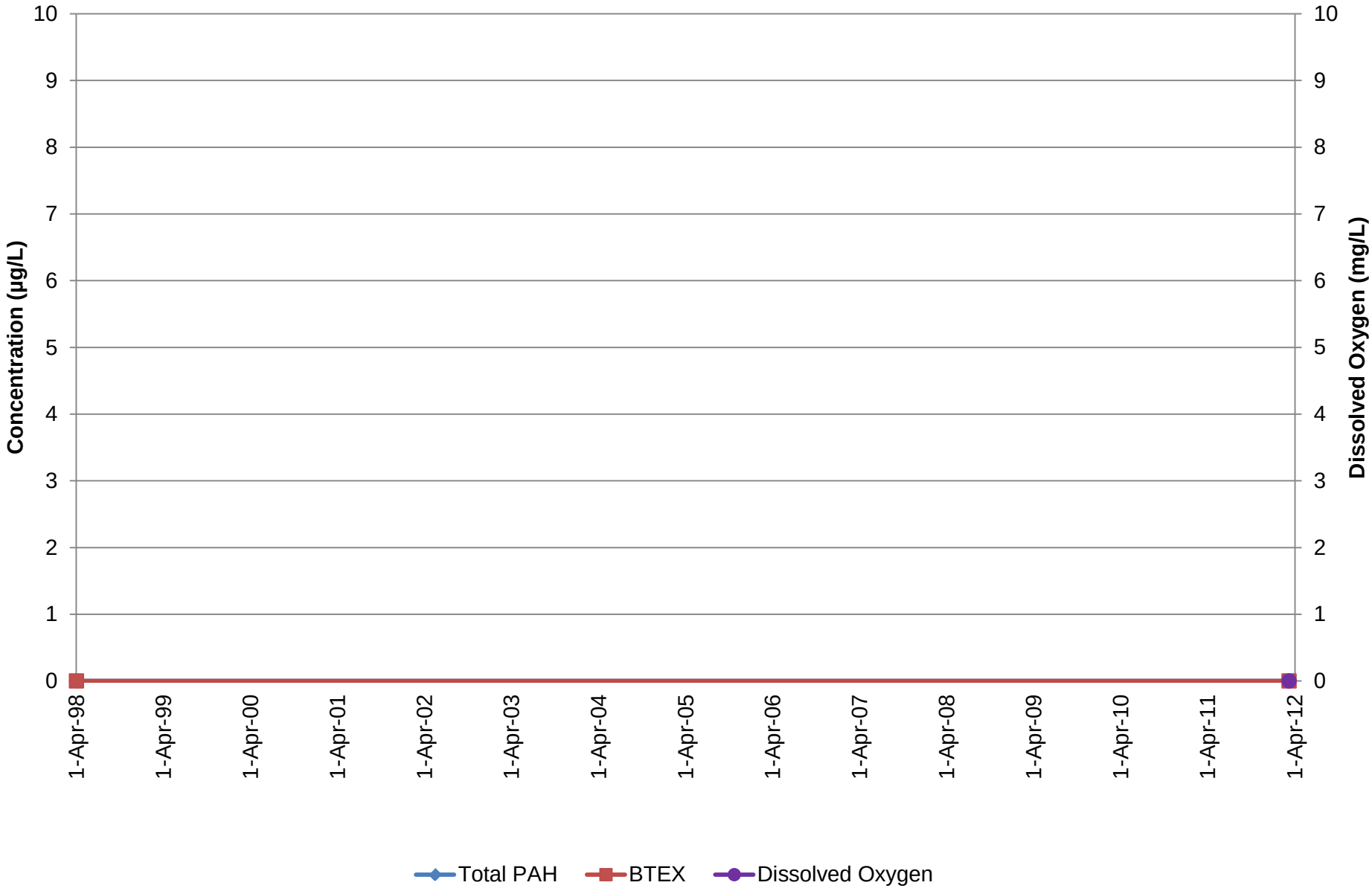
Monitoring Well MW-66S
1.5-11.5 ft bgs



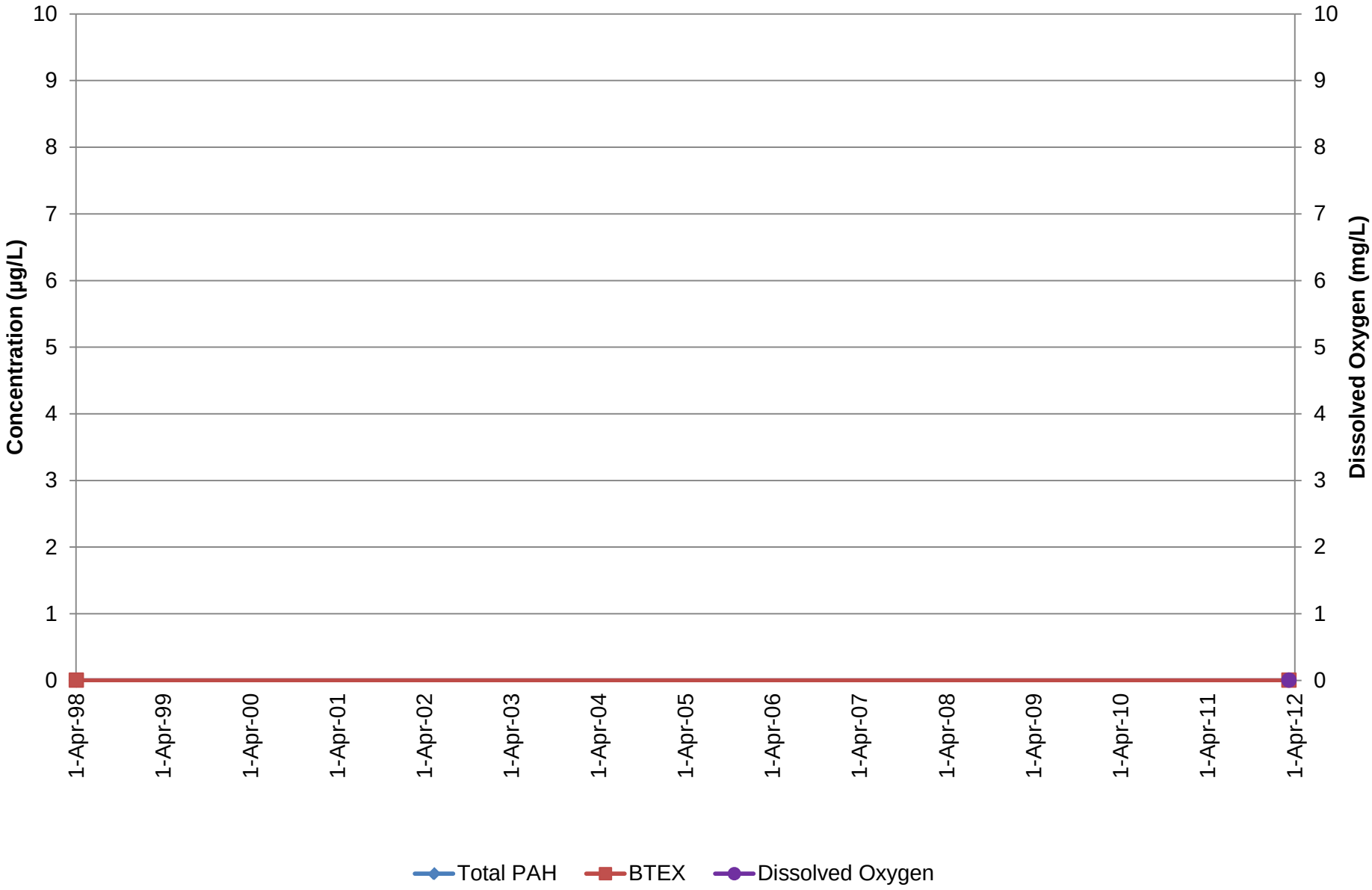
Monitoring Well MW-66D
24-29 ft bgs



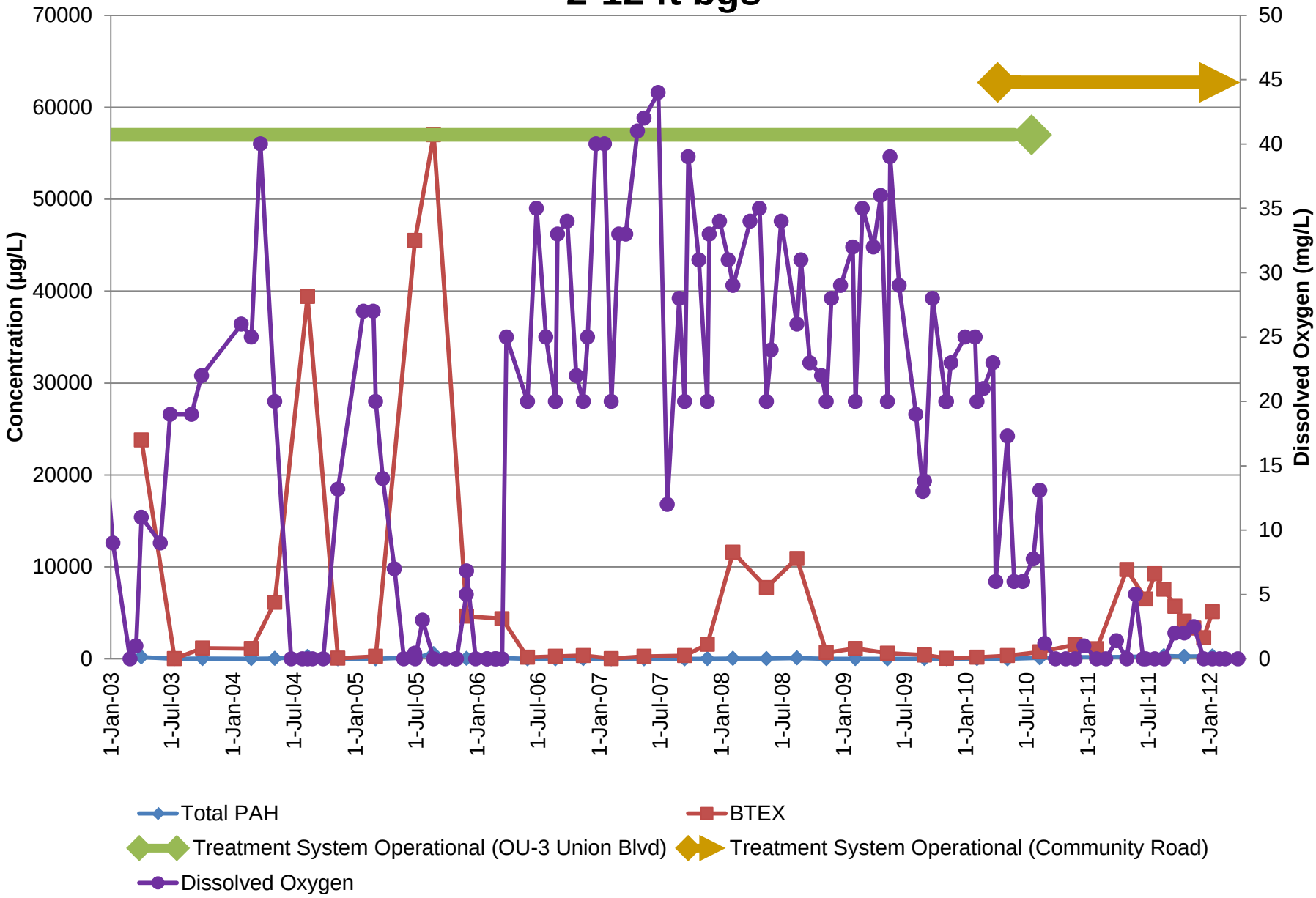
Monitoring Well MW-67S
2.5-12.5 ft bgs

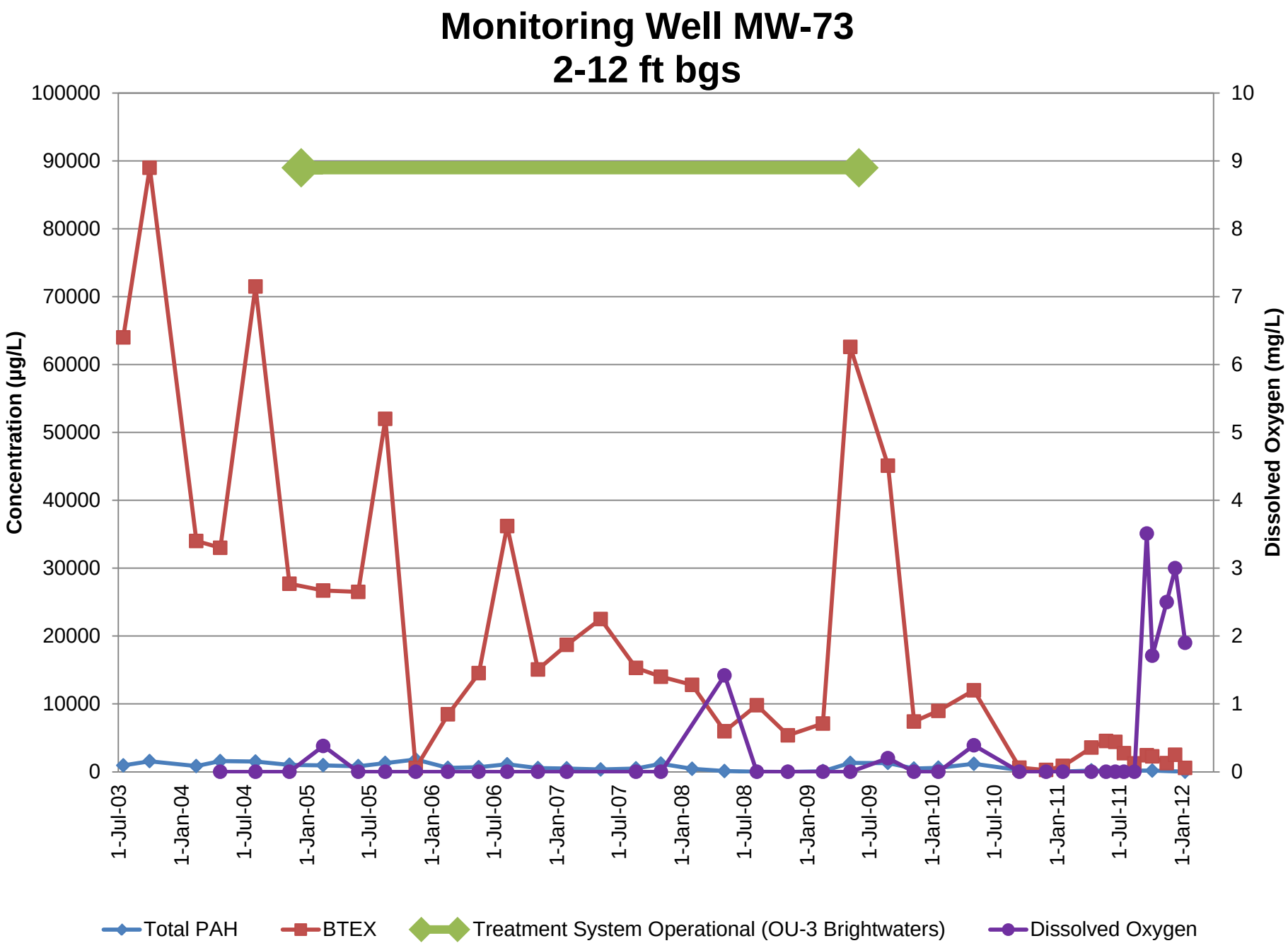


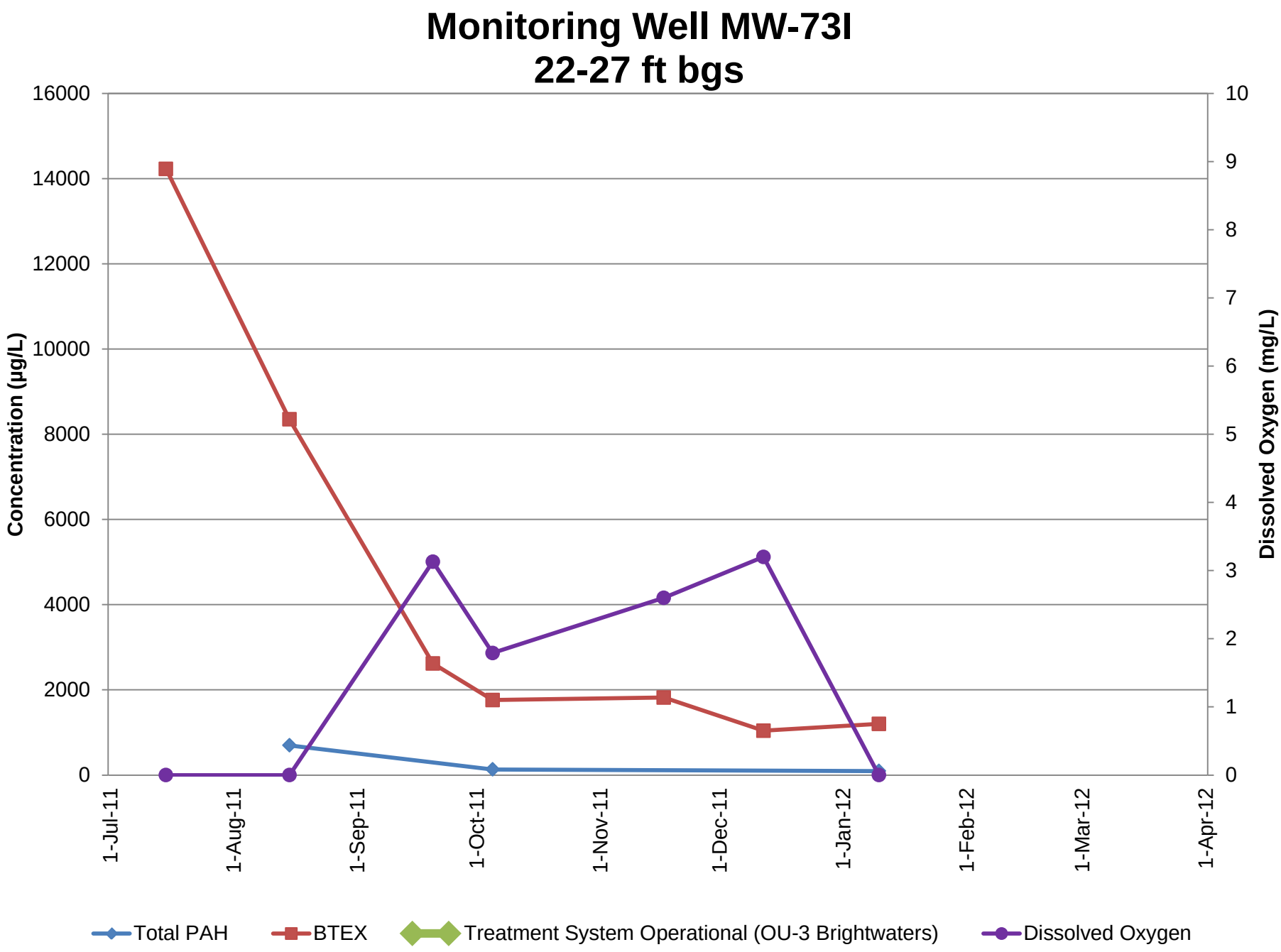
Monitoring Well MW-67D
24-29 ft bgs



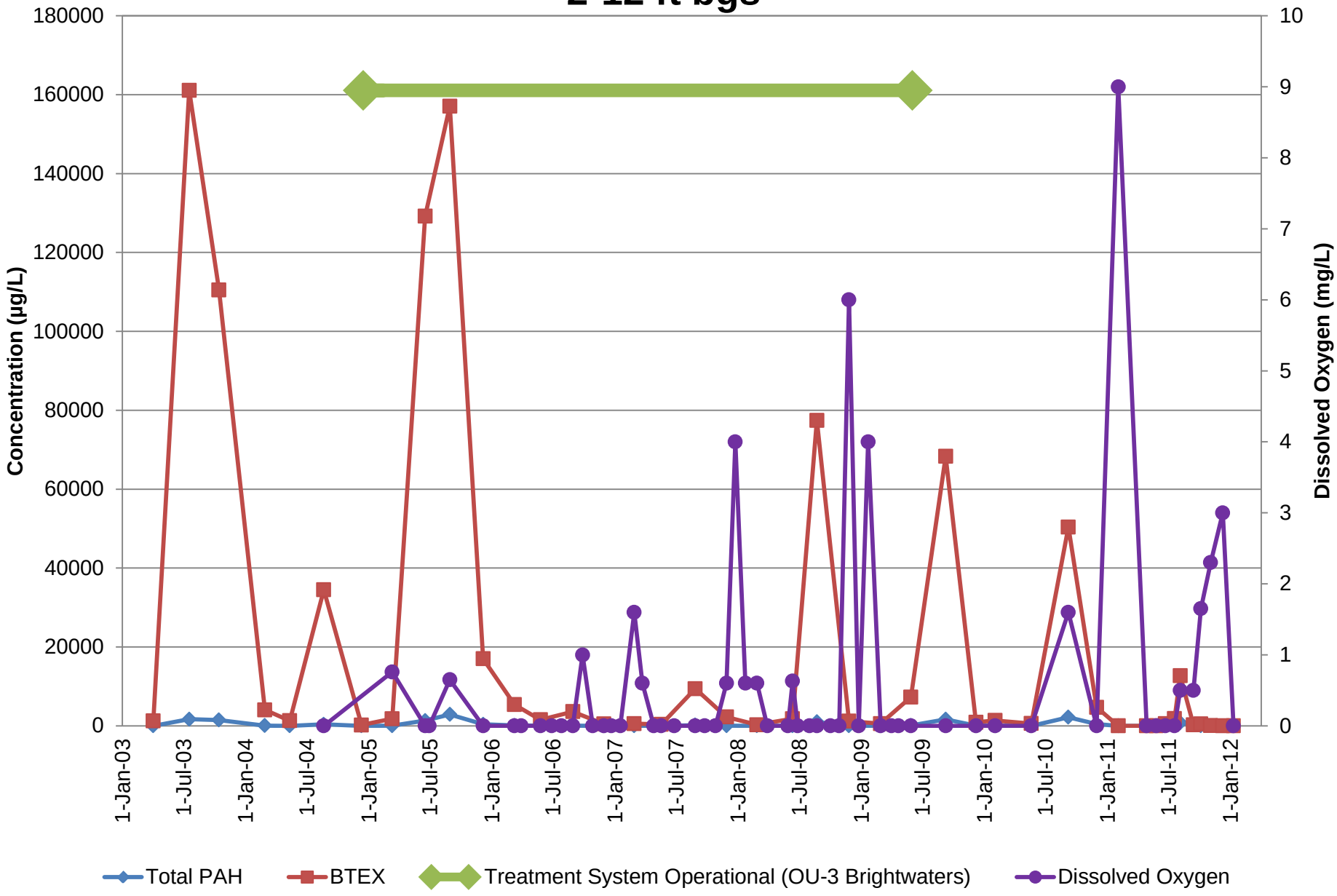
Monitoring Well MW-70/70S
2-12 ft bgs

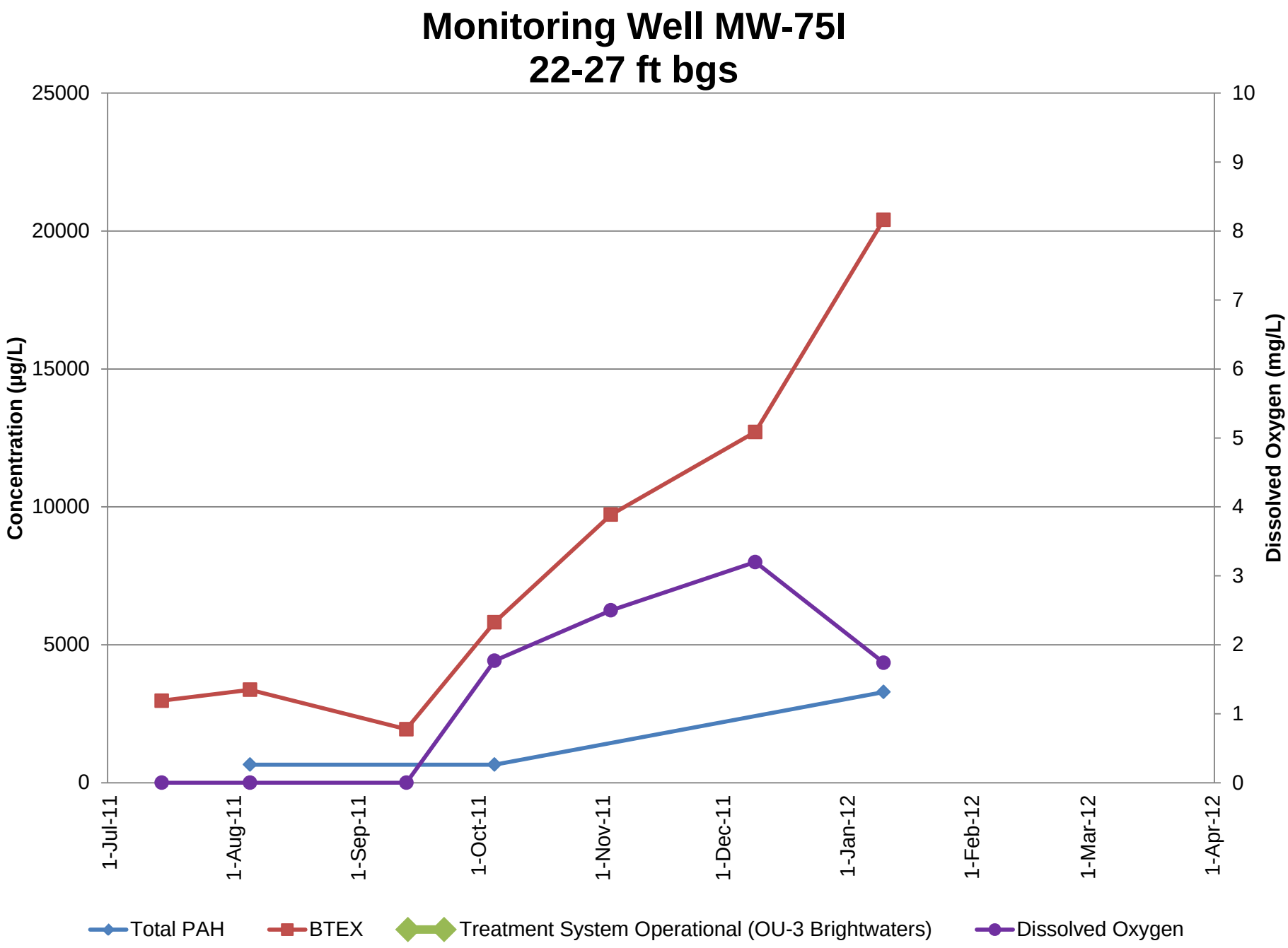


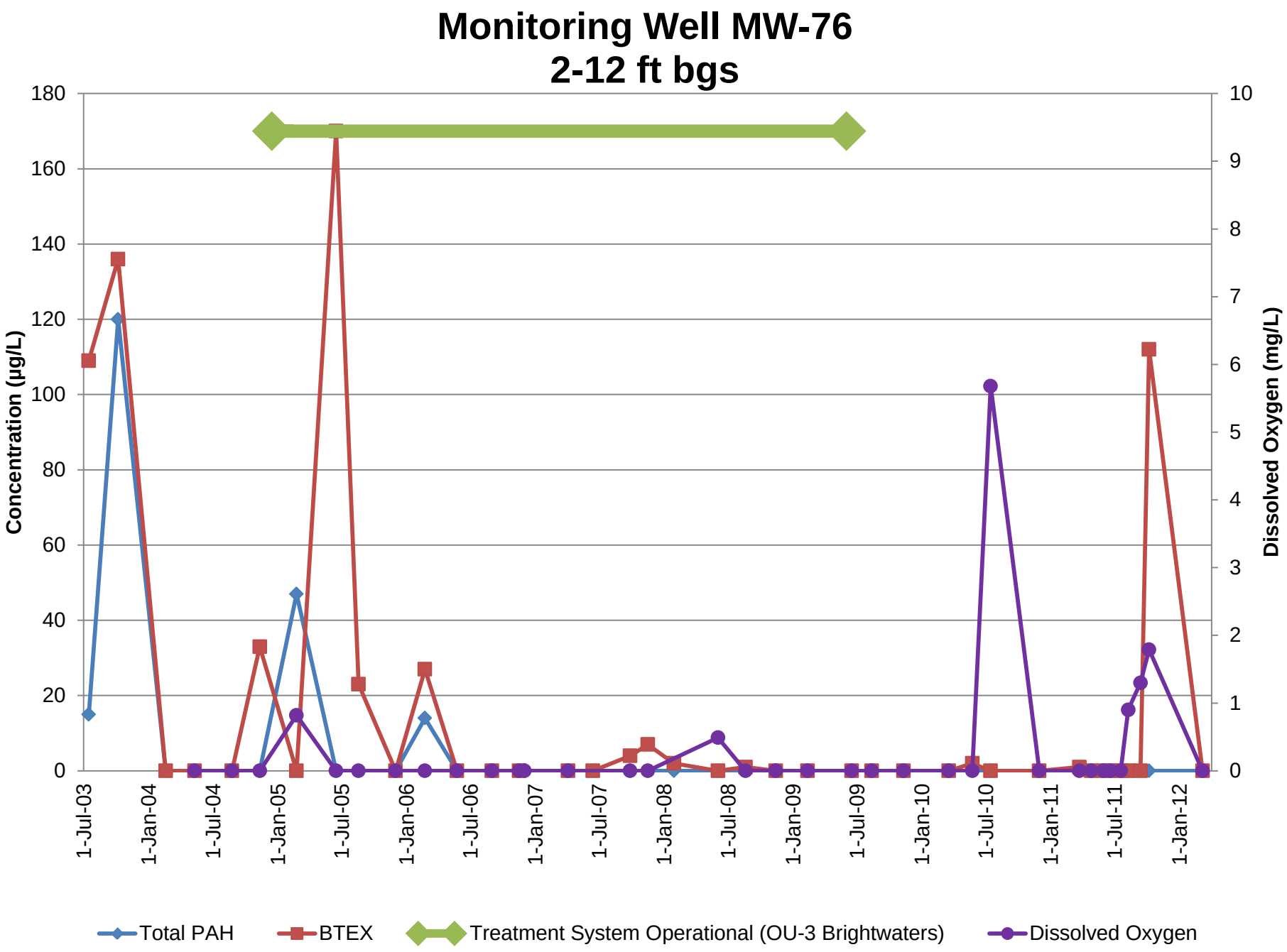

Monitoring Well MW-73
2-12 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-03
1-Jan-04
1-Jul-04
1-Jan-05
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (OU-3 Brightwaters)
Dissolved Oxygen


Monitoring Well MW-73I
22-27 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
16000
14000
12000
10000
8000
6000
4000
2000
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (OU-3 Brightwaters)
Dissolved Oxygen

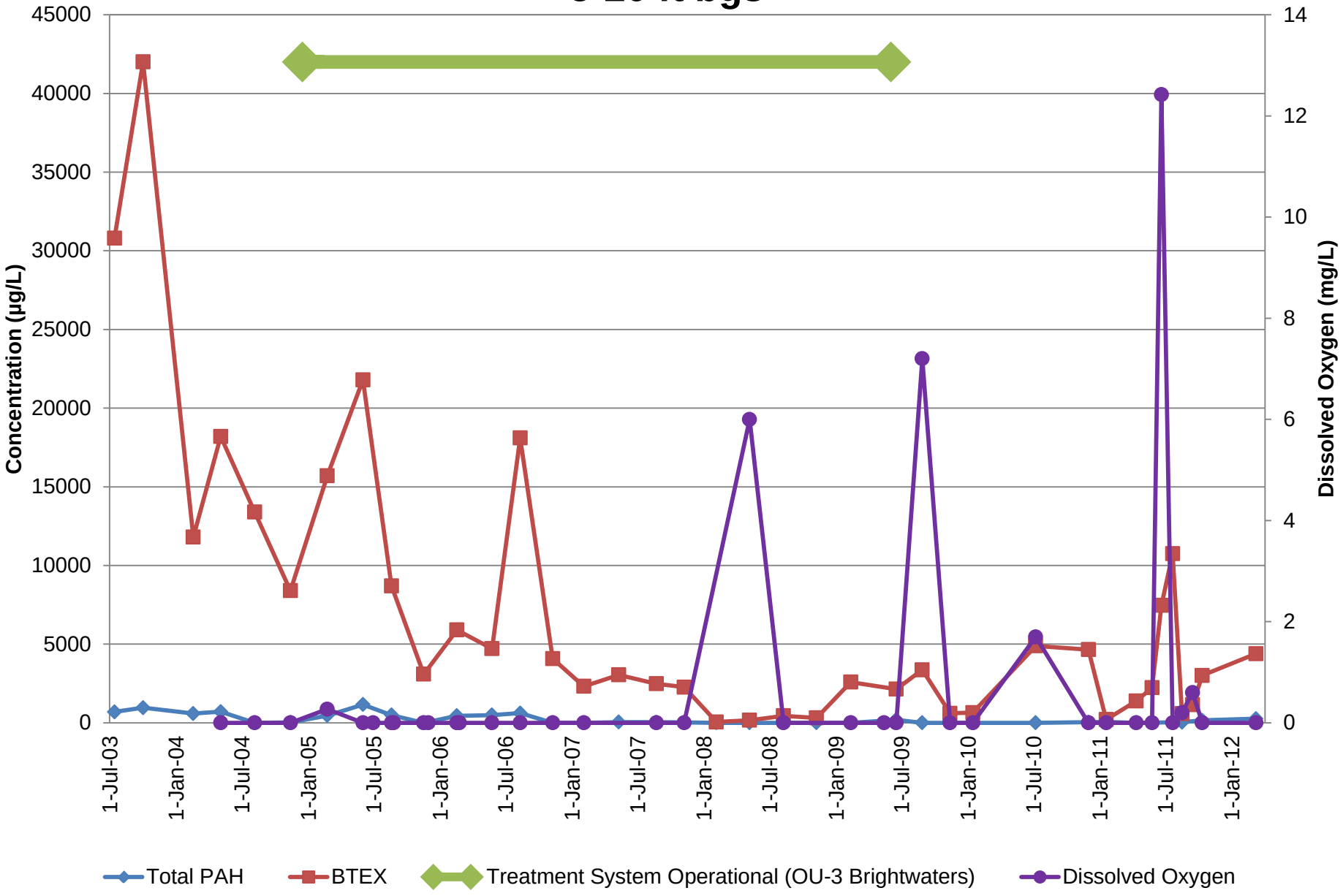
Monitoring Well MW-75
2-12 ft bgs



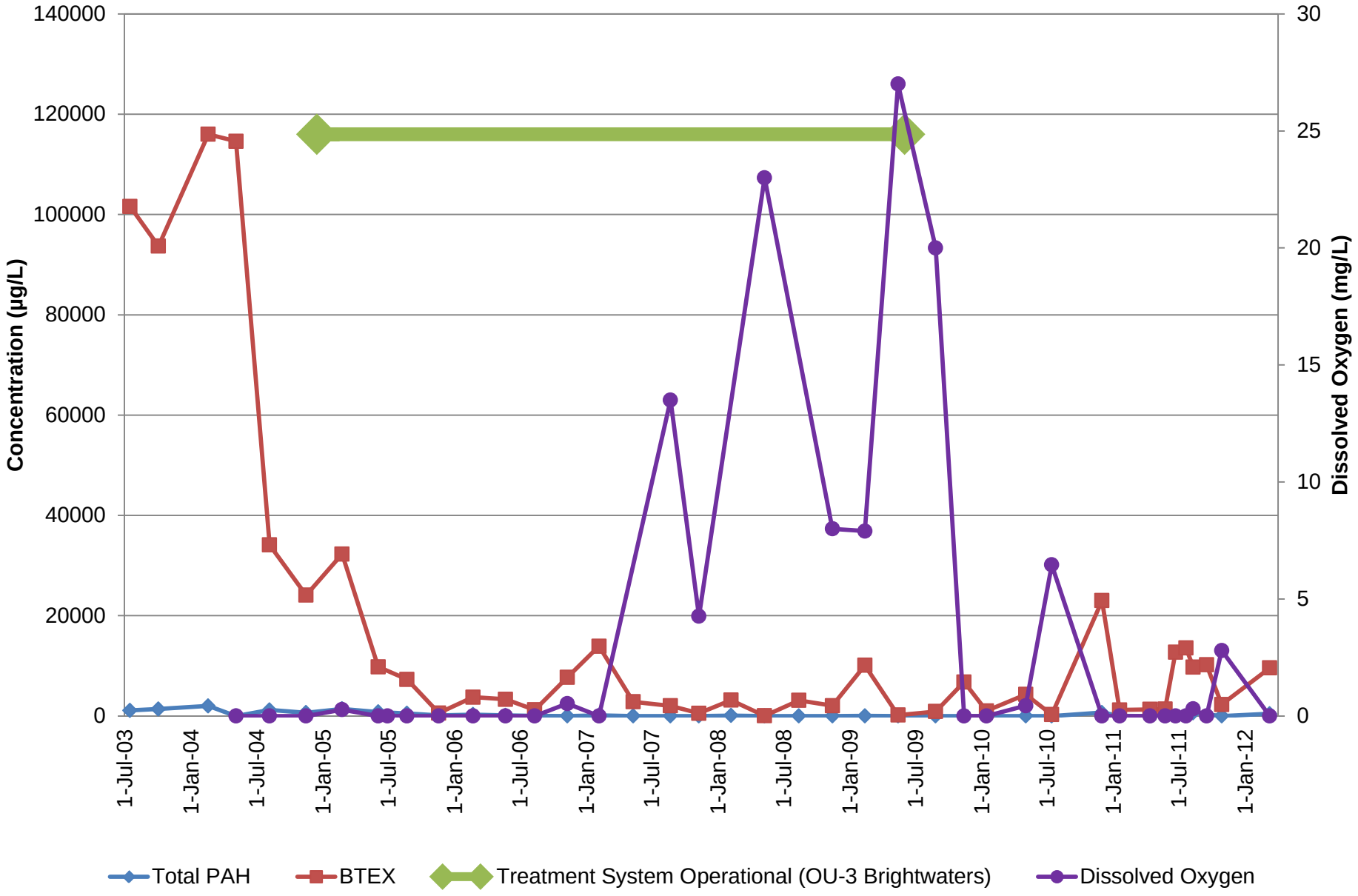

Monitoring Well MW-75I
22-27 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
25000
20000
15000
10000
5000
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (OU-3 Brightwaters)
Dissolved Oxygen


Monitoring Well MW-76
2-12 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
180
160
140
120
100
80
60
40
20
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-03
1-Jan-04
1-Jul-04
1-Jan-05
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (OU-3 Brightwaters)
Dissolved Oxygen

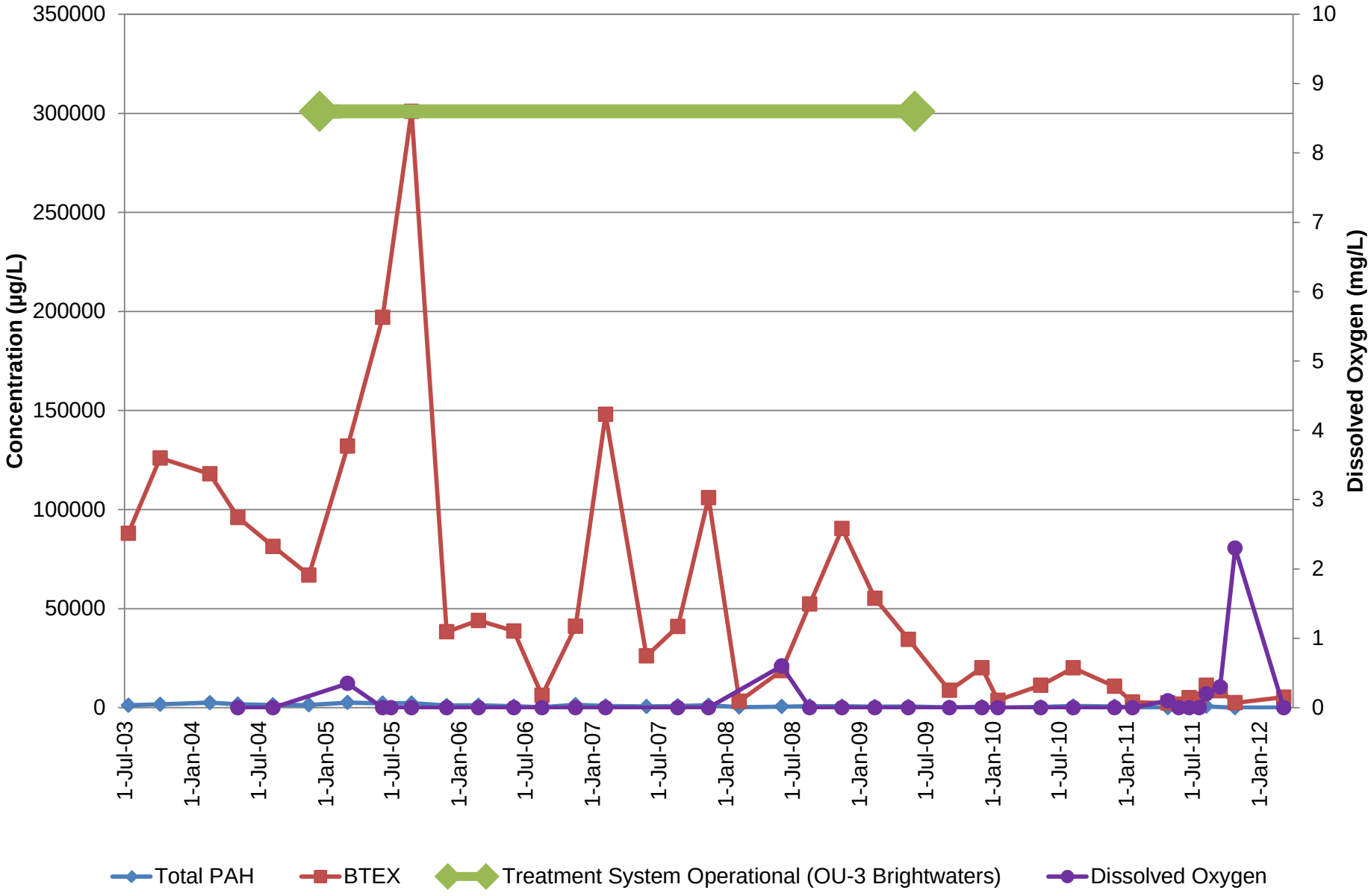
Monitoring Well MW-78
5-20 ft bgs



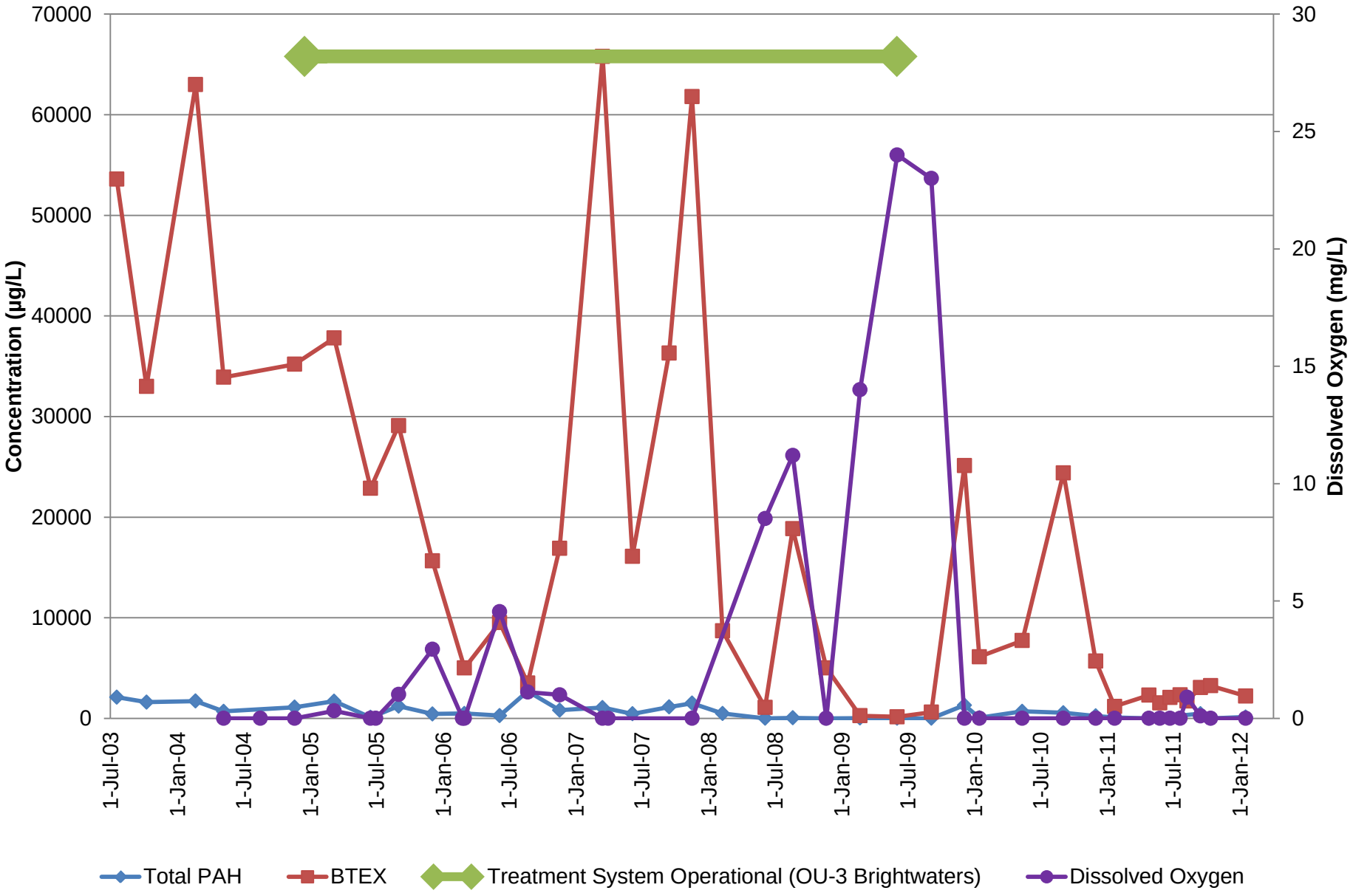
Monitoring Well MW-79
5-20 ft bgs

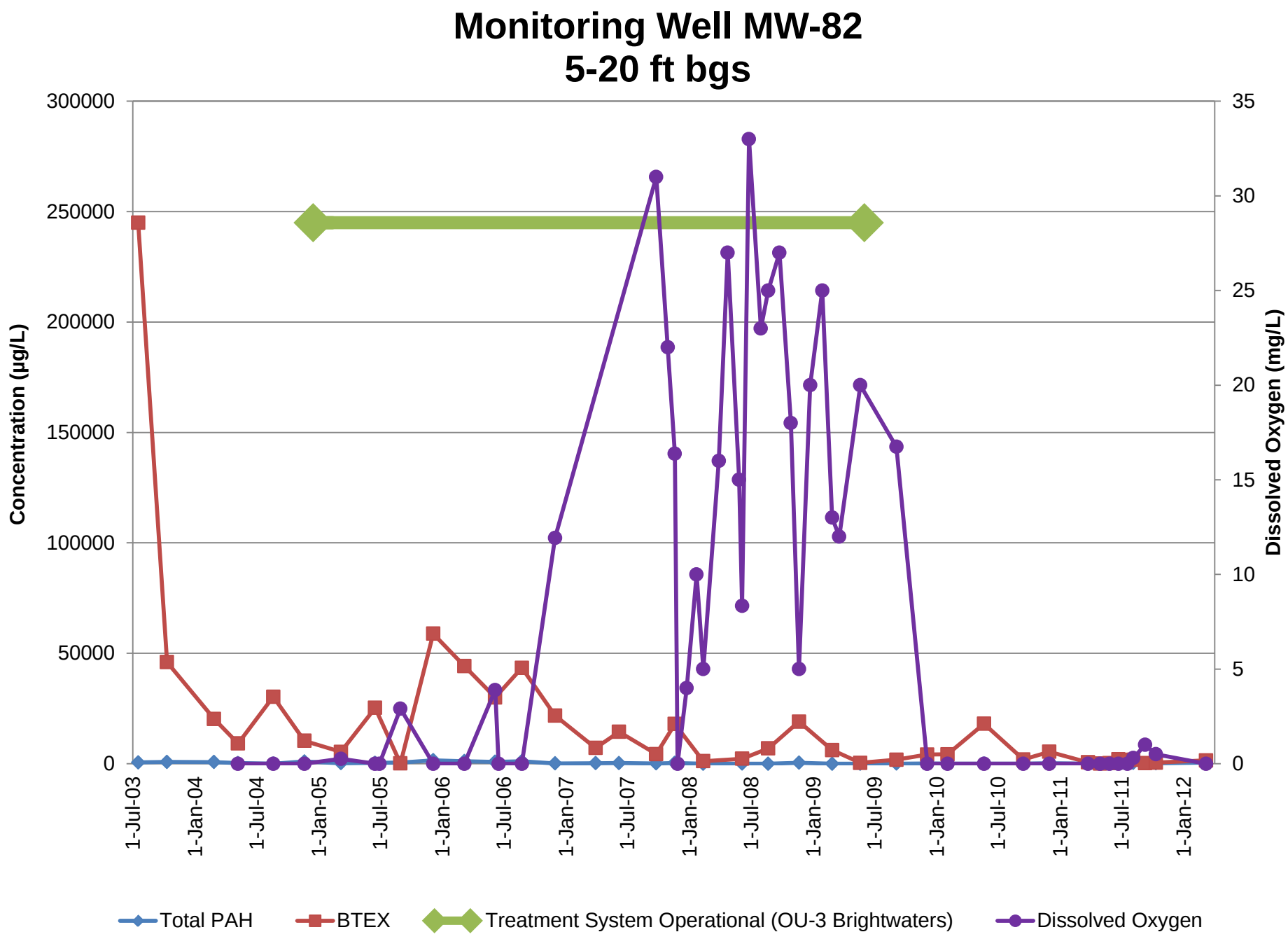


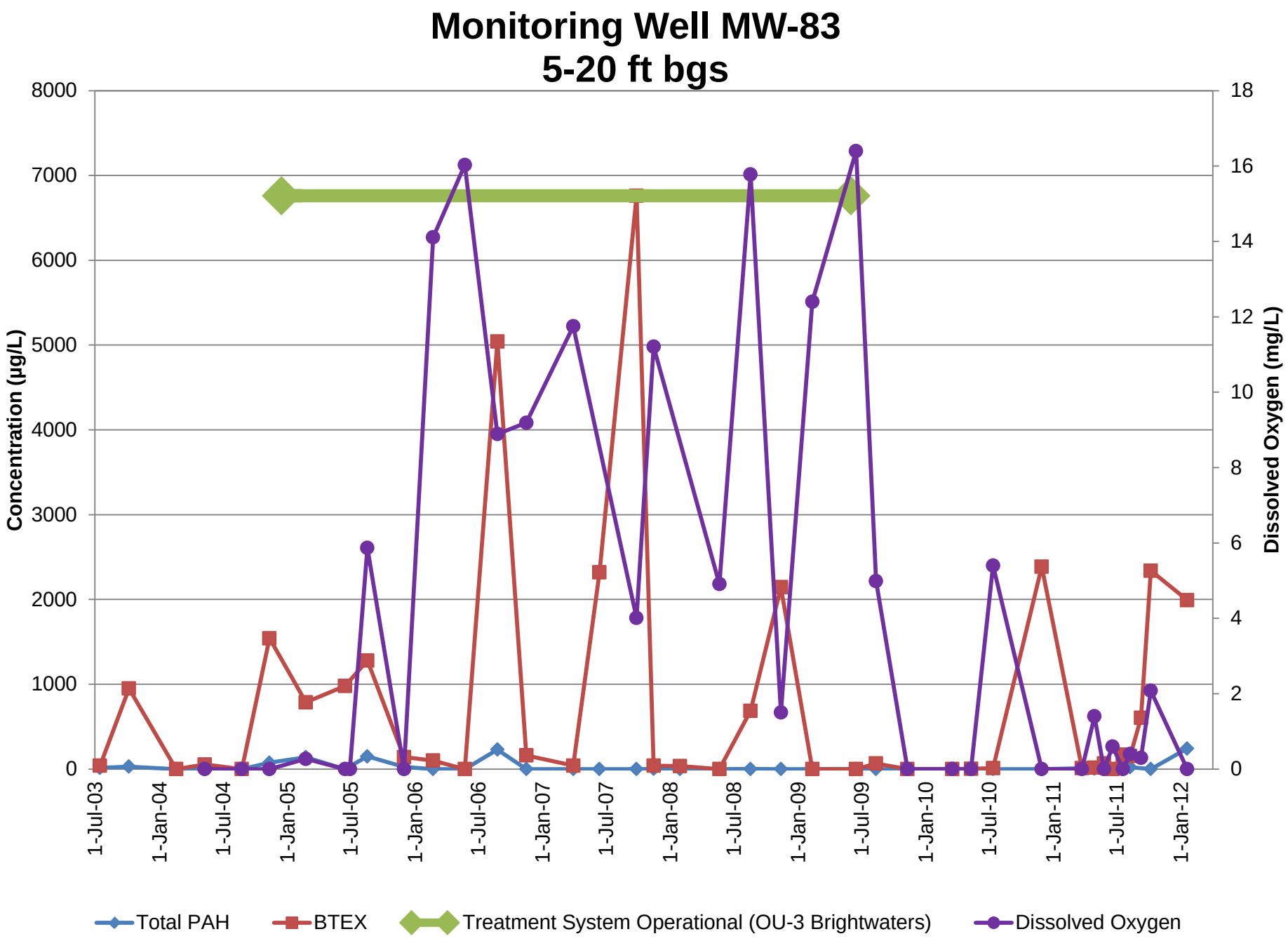
Monitoring Well MW-80
5-20 ft bgs



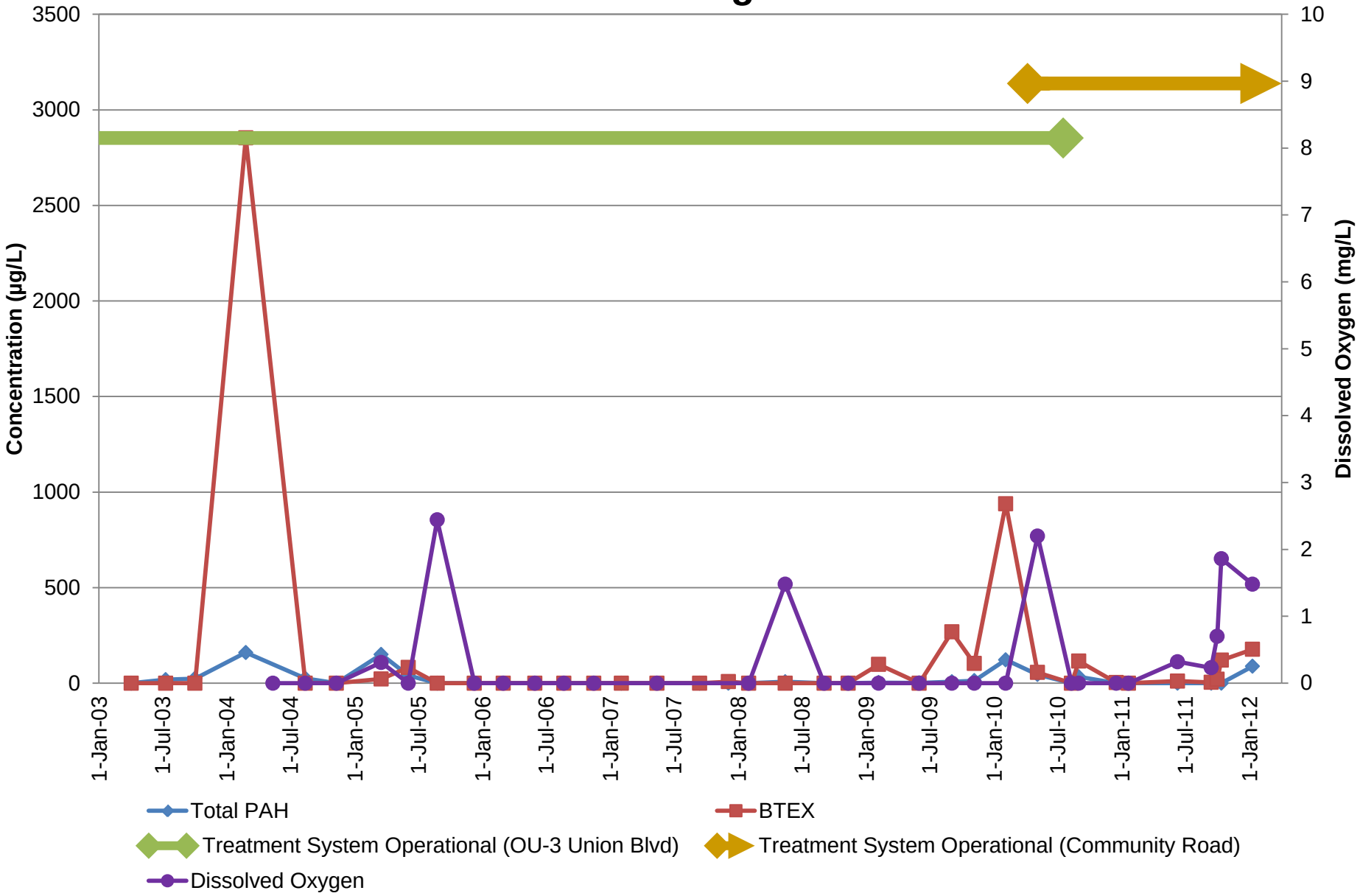
Monitoring Well MW-81
5-20 ft bgs



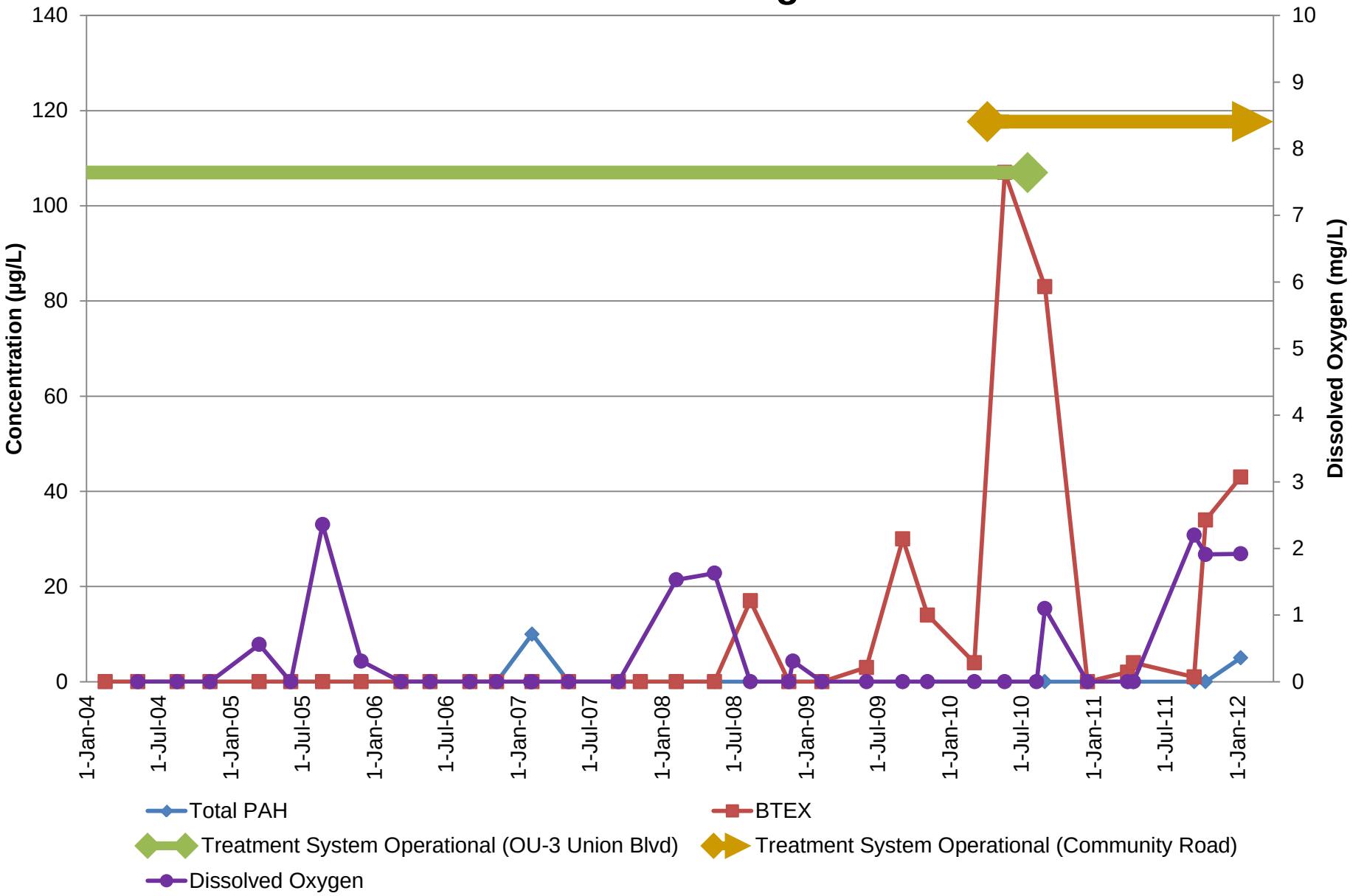

Monitoring Well MW-82
5-20 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
300000
250000
200000
150000
100000
50000
0
35
30
25
20
15
10
5
0
1-Jul-03
1-Jan-04
1-Jul-04
1-Jan-05
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (OU-3 Brightwaters)
Dissolved Oxygen


Monitoring Well MW-83
5-20 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
8000
7000
6000
5000
4000
3000
2000
1000
0
18
16
14
12
10
8
6
4
2
0
1-Jul-03
1-Jan-04
1-Jul-04
1-Jan-05
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (OU-3 Brightwaters)
Dissolved Oxygen

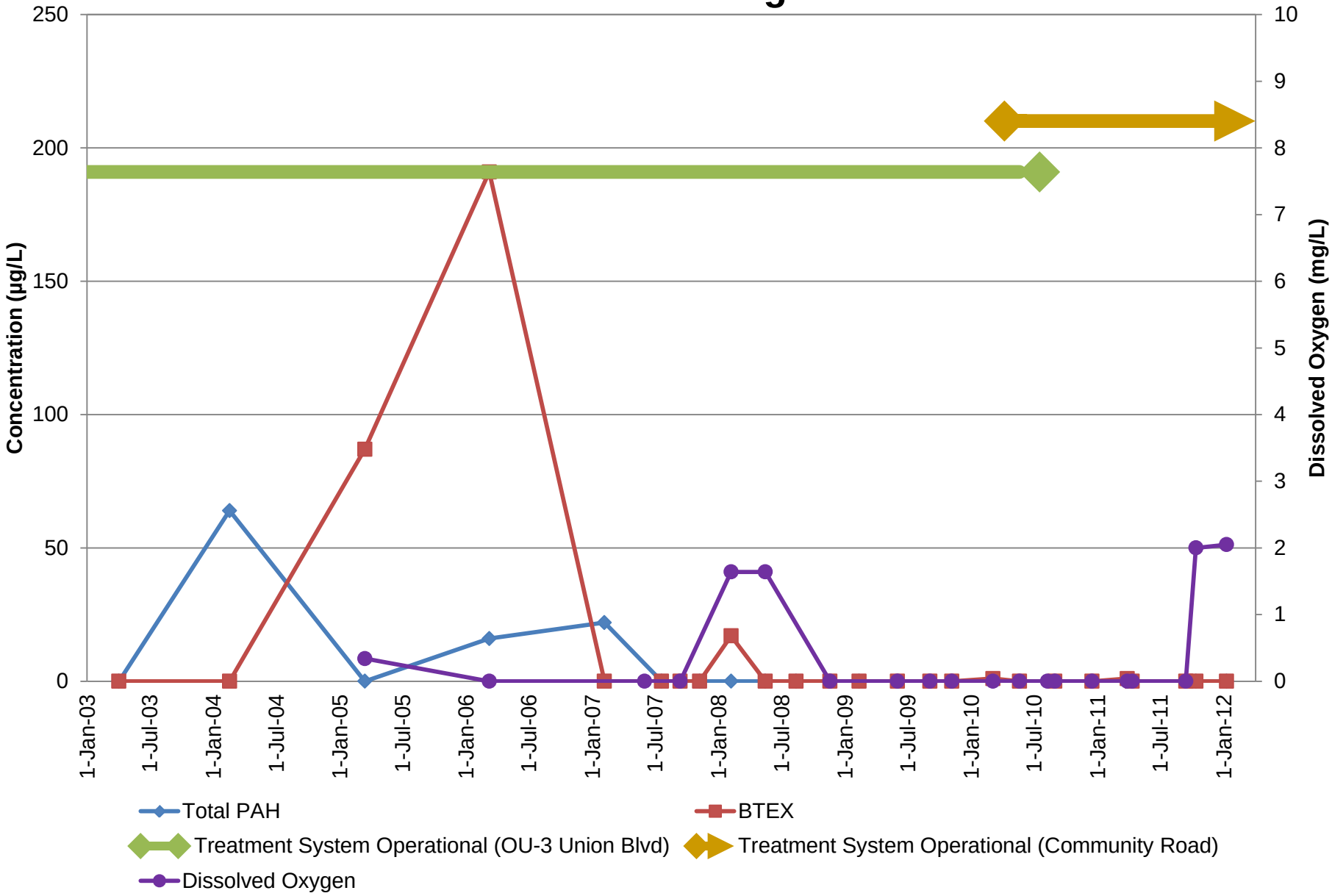
Monitoring Well MWBS-02S
5-15 ft bgs

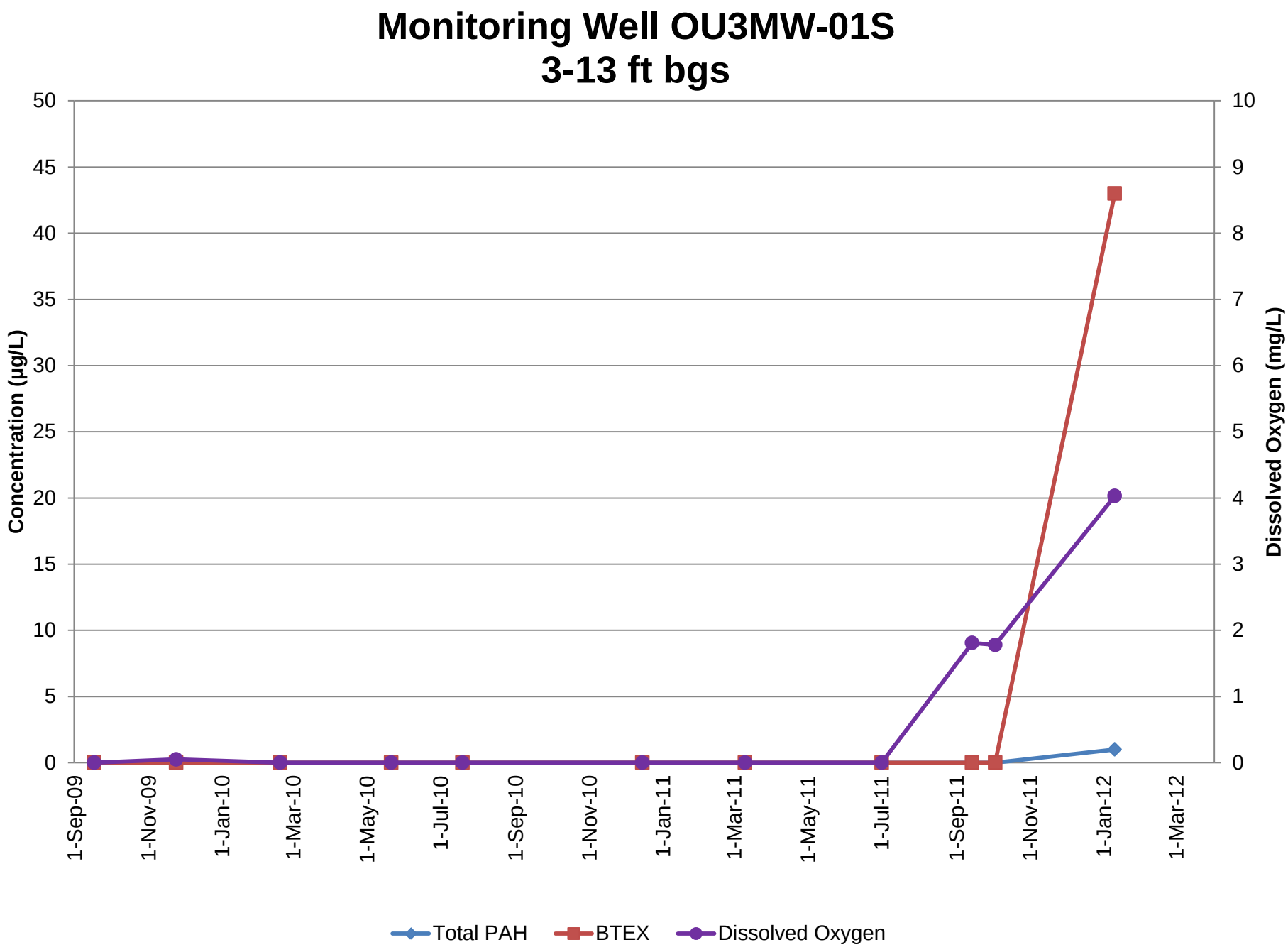


Monitoring Well MWBS-02I
14.5-15.5 ft bgs

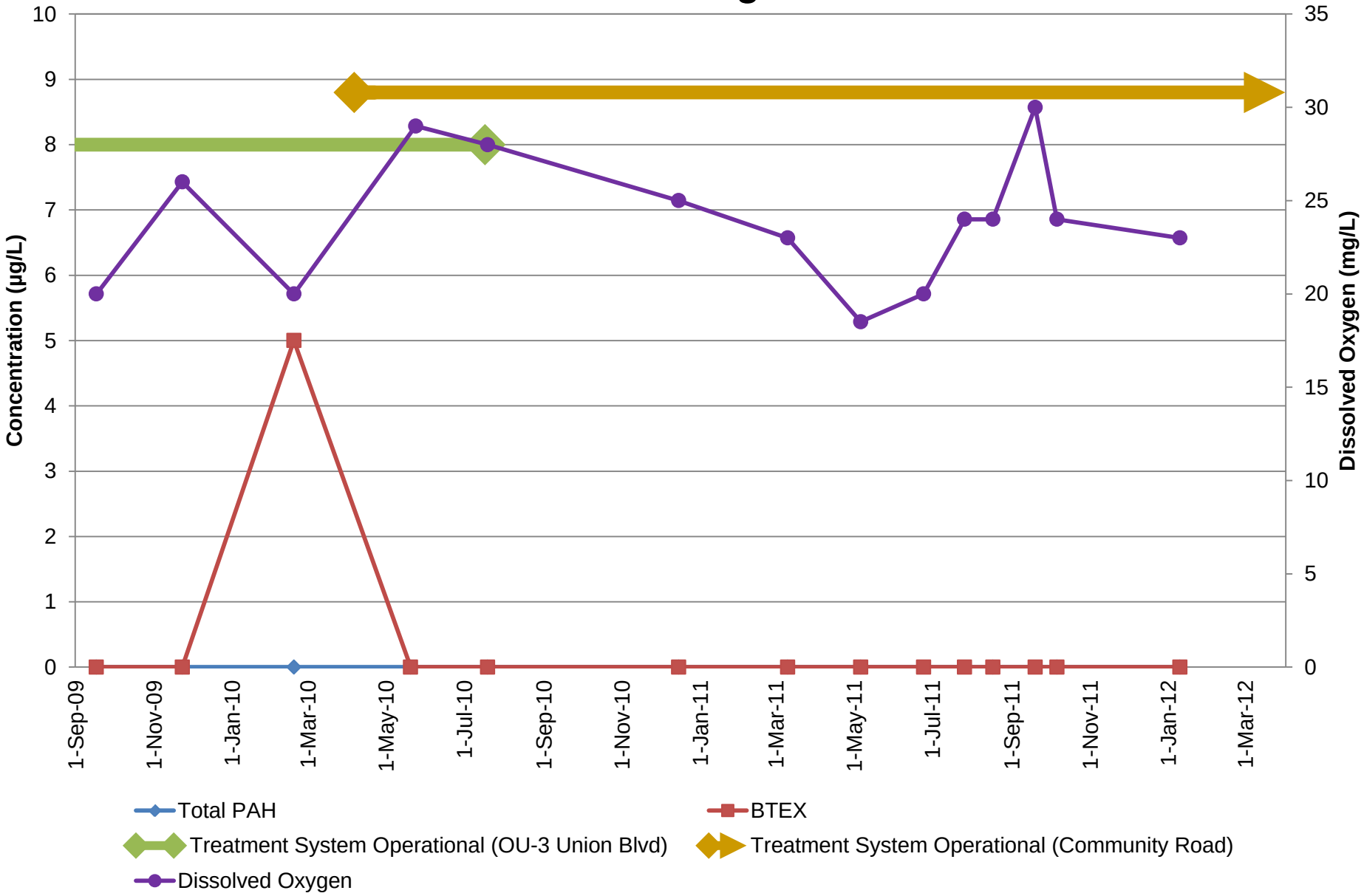


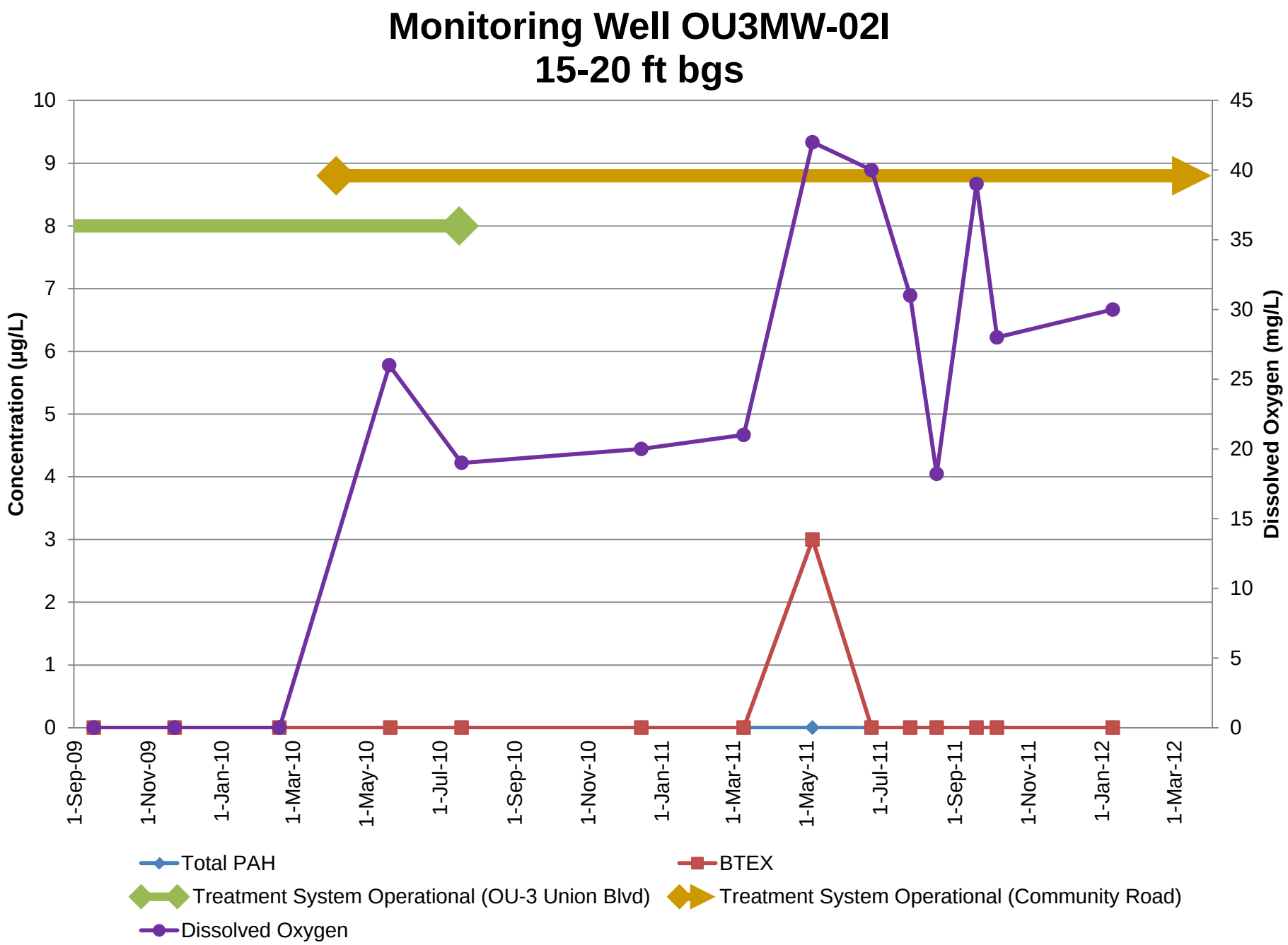
Monitoring Well MWBS-02D
24.5-25.5 ft bgs



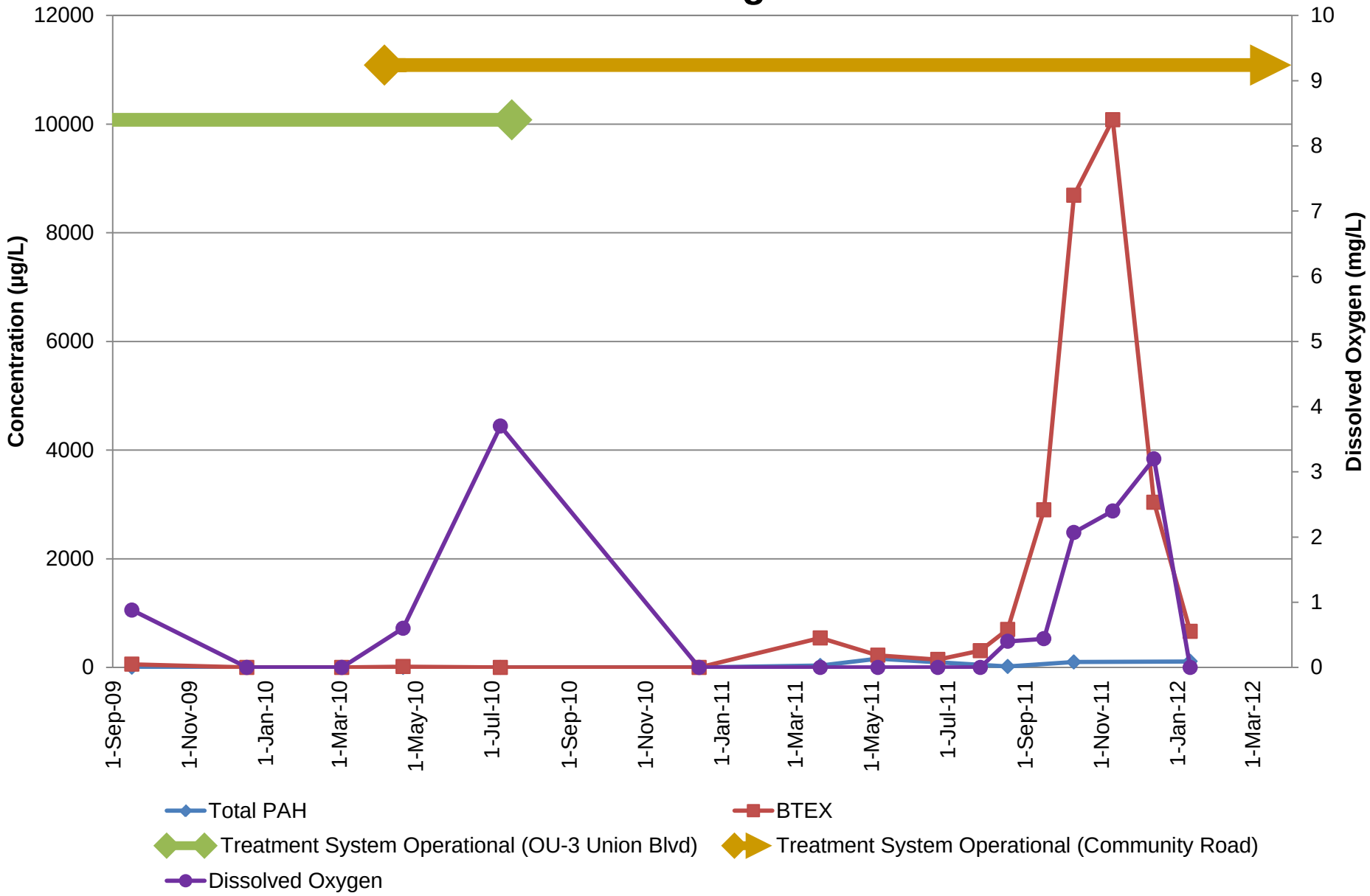

Monitoring Well OU3MW-01S
3-13 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
50
45
40
35
30
25
20
15
10
5
0
10
9
8
7
6
5
4
3
2
1
0
1-Sep-09
1-Nov-09
1-Jan-10
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
Total PAH
BTEX
Dissolved Oxygen

Monitoring Well OU3MW-02S
3-13 ft bgs

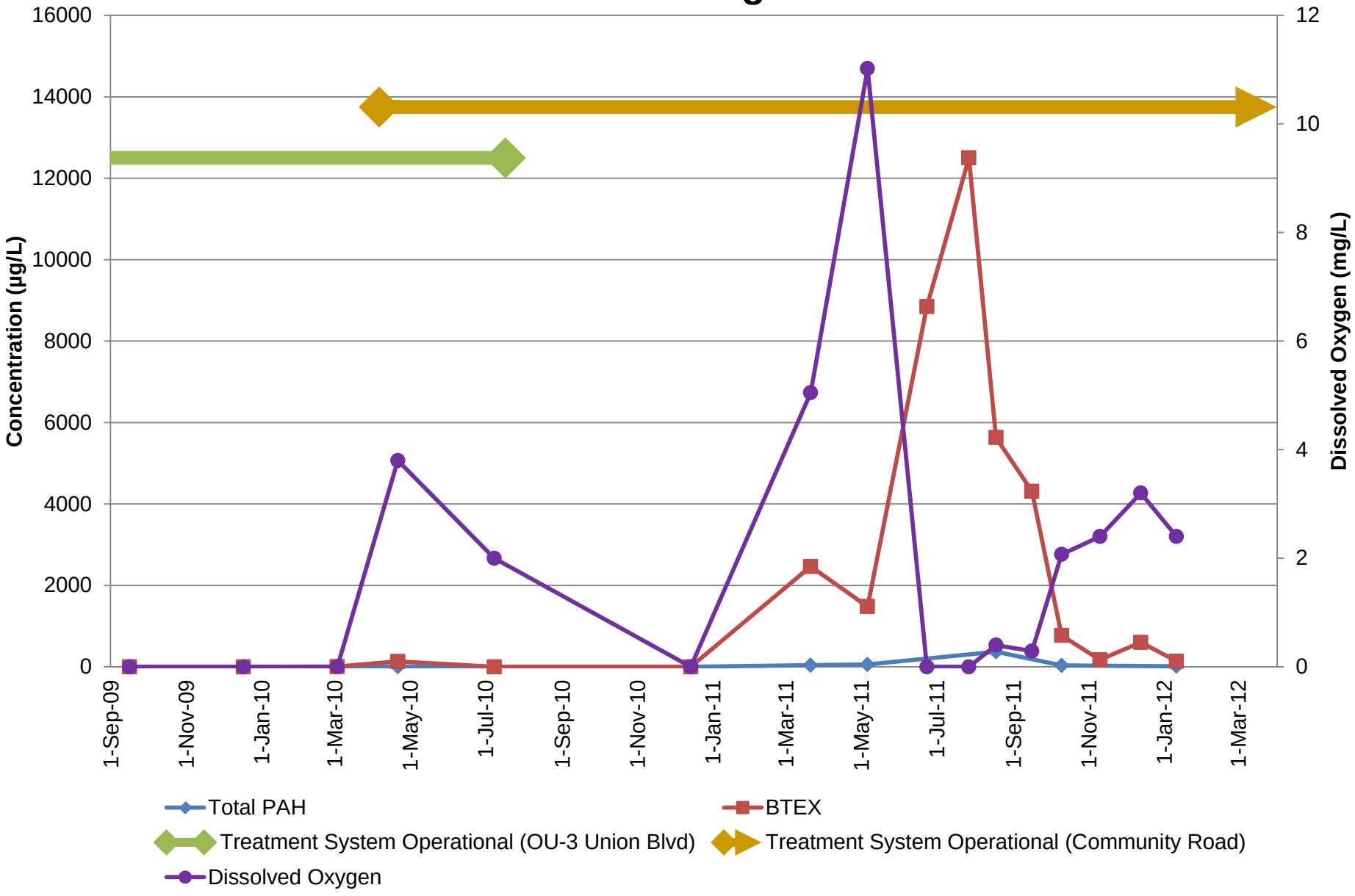



Monitoring Well OU3MW-02I
15-20 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
0
5
10
15
20
25
30
35
40
45
1-Sep-09
1-Nov-09
1-Jan-10
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
Total PAH
BTEX
Treatment System Operational (OU-3 Union Blvd)
Treatment System Operational (Community Road)
Dissolved Oxygen

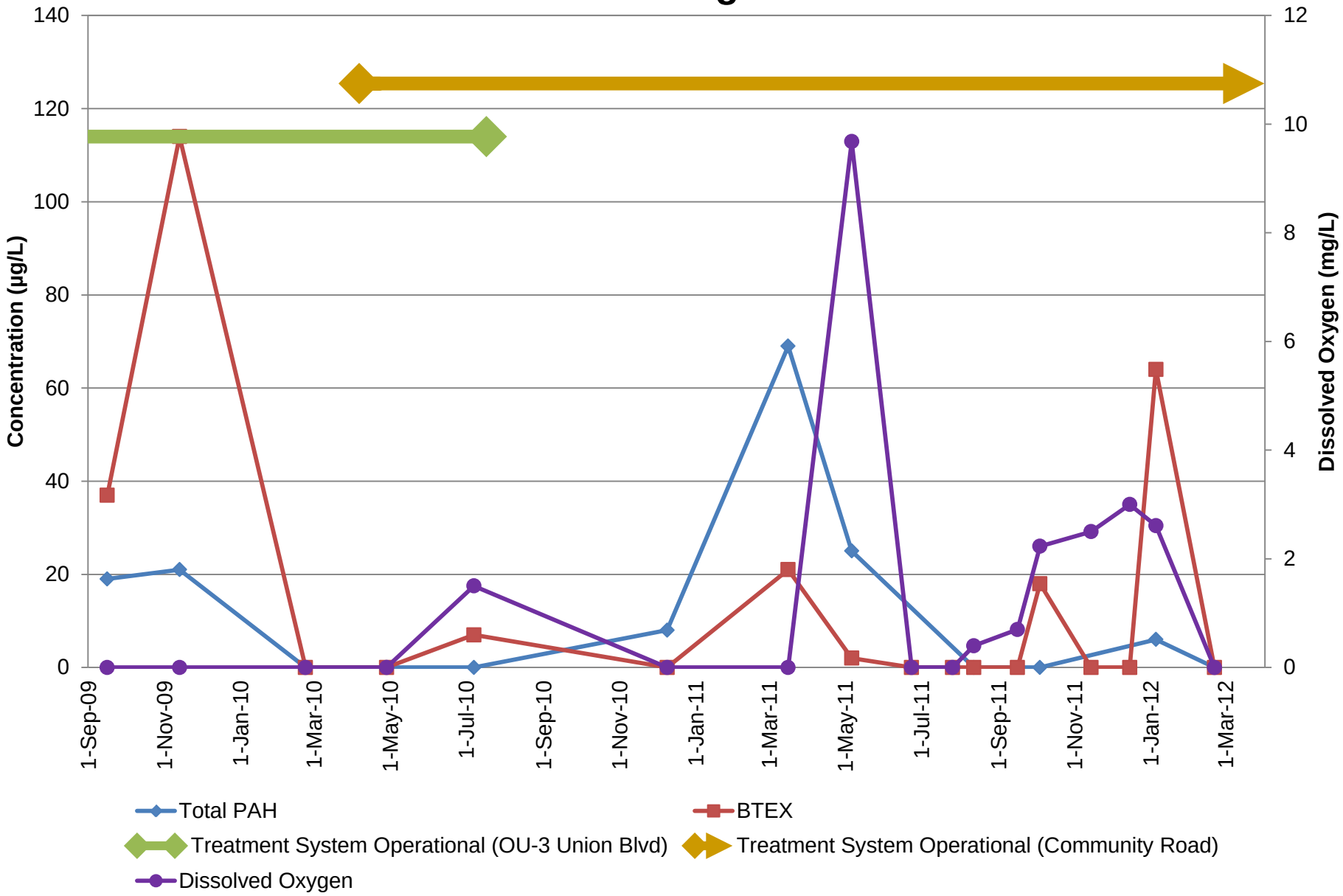
Monitoring Well OU3MW-03S
1-11 ft bgs



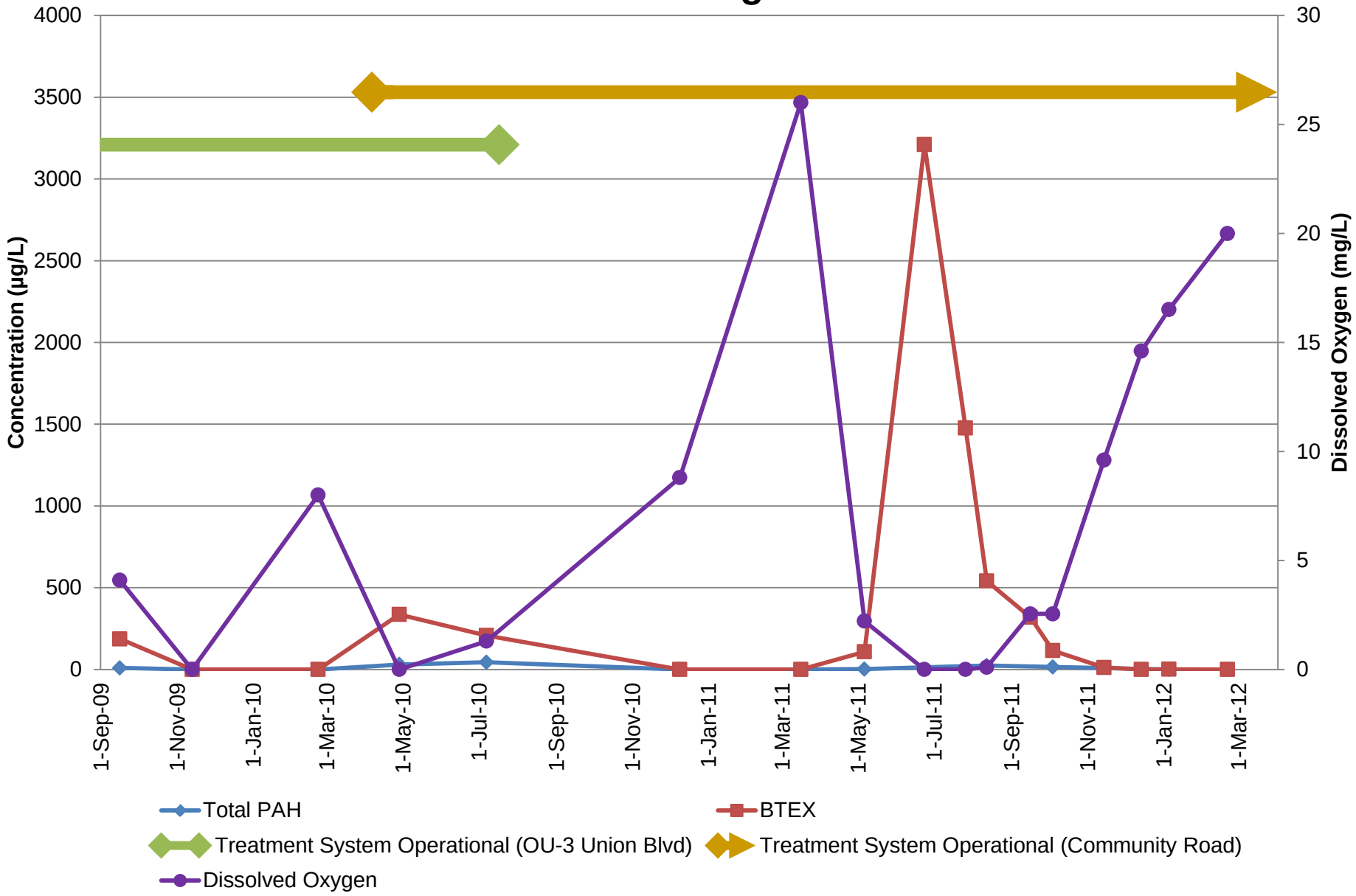
Monitoring Well OU3MW-03I
20-25 ft bgs



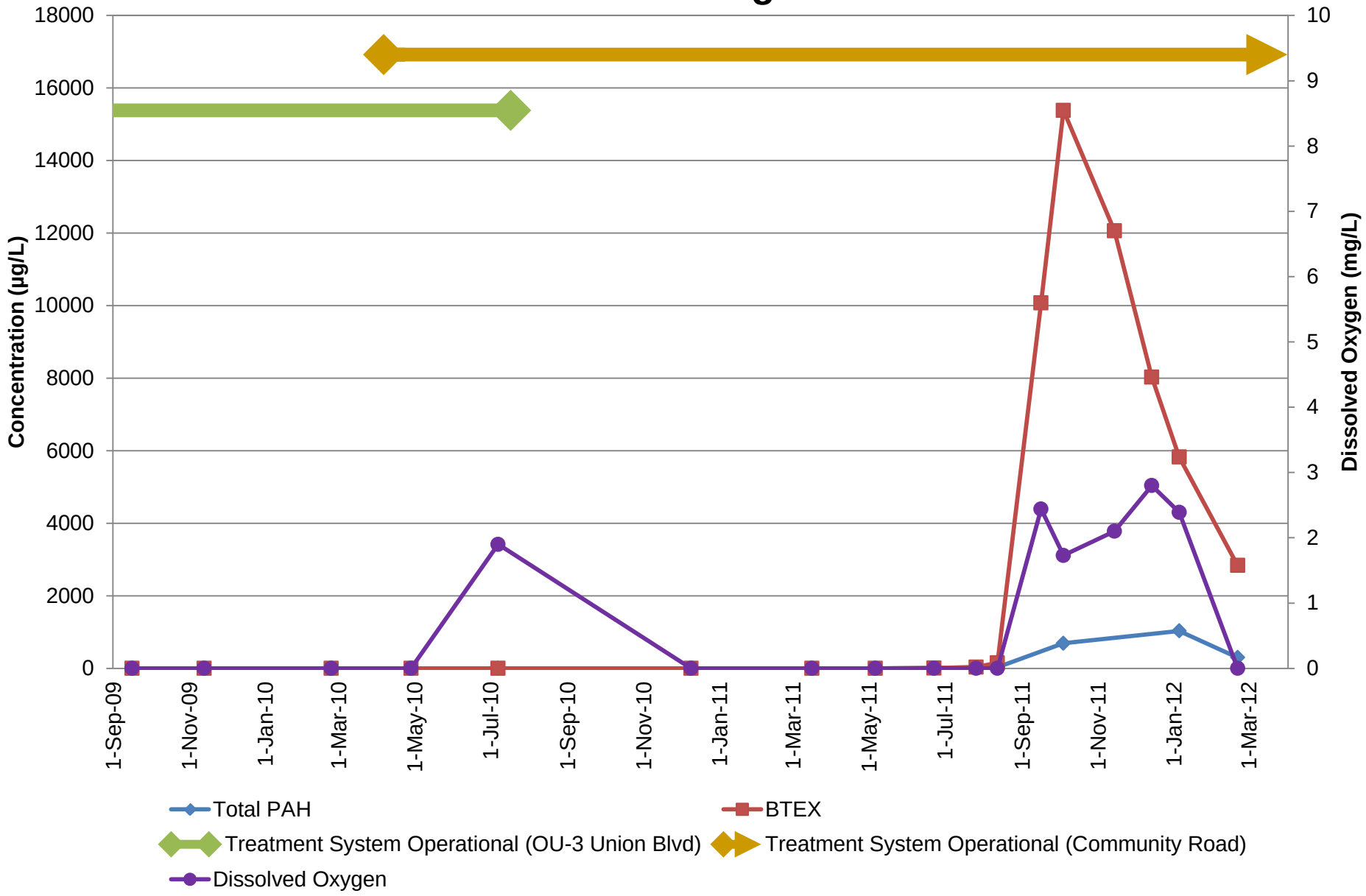
Monitoring Well OU3MW-04S
1-11 ft bgs

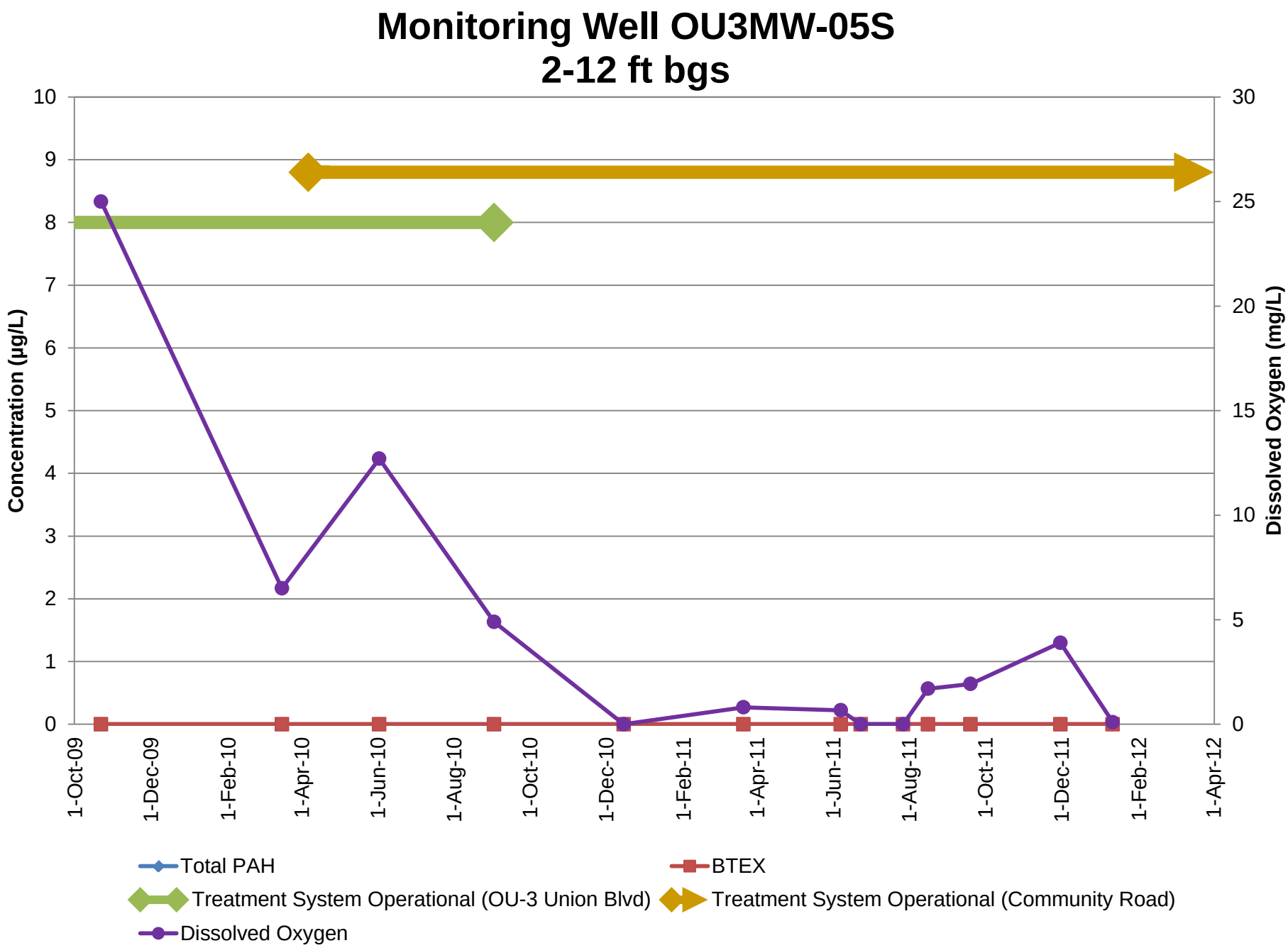


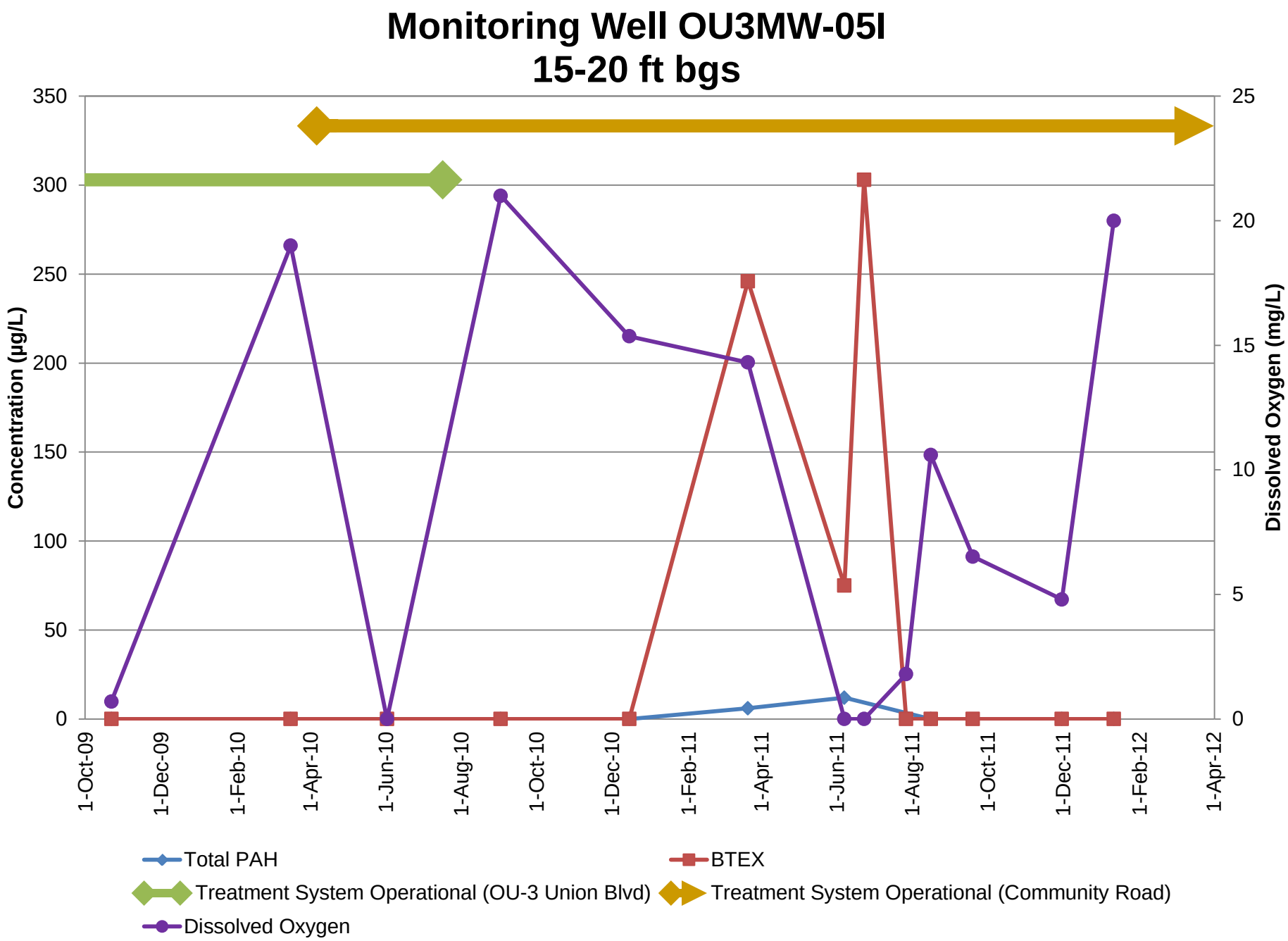
Monitoring Well OU3MW-04I
16-21 ft bgs

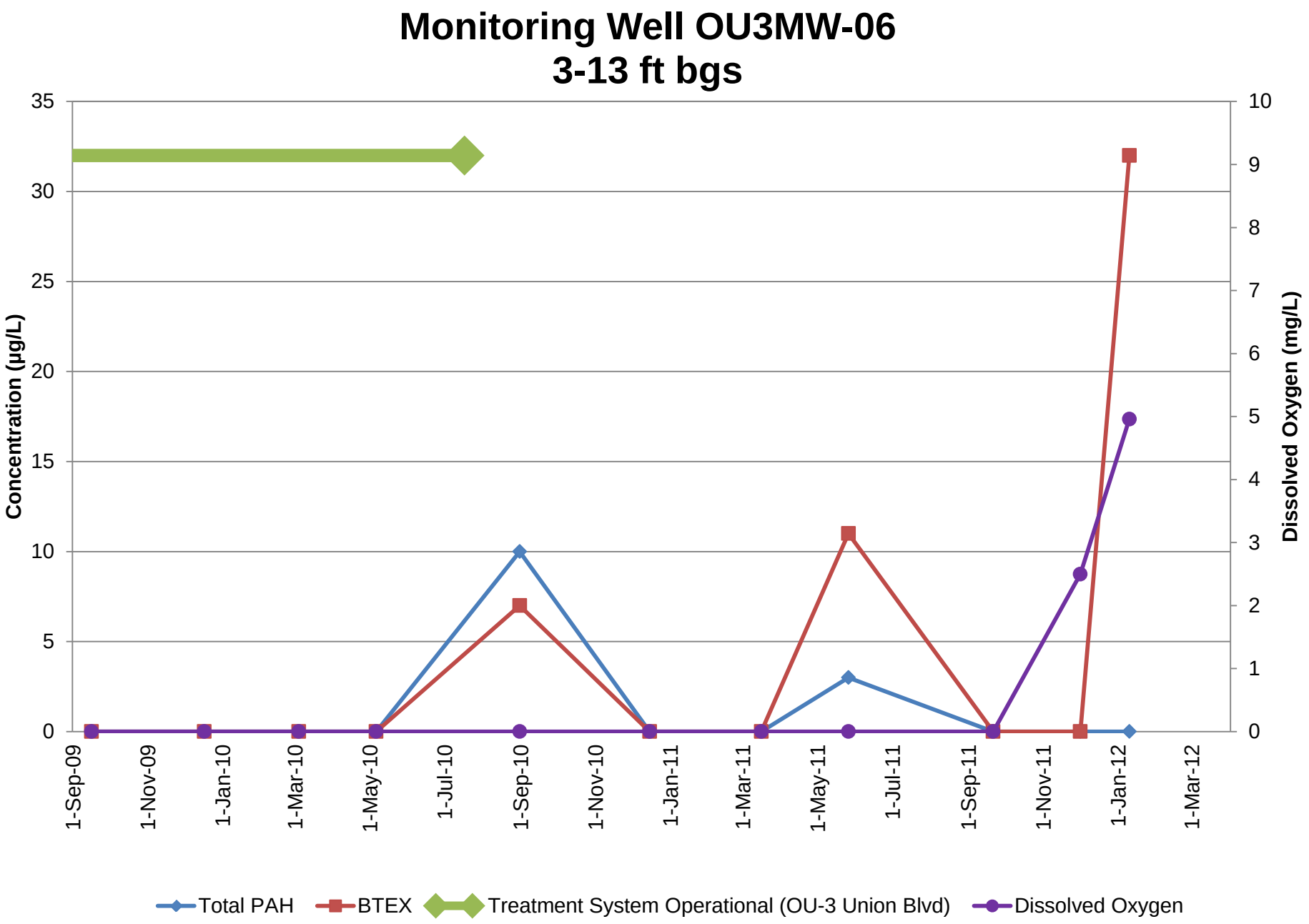


Monitoring Well OU3MW-04D
26-31 ft bgs

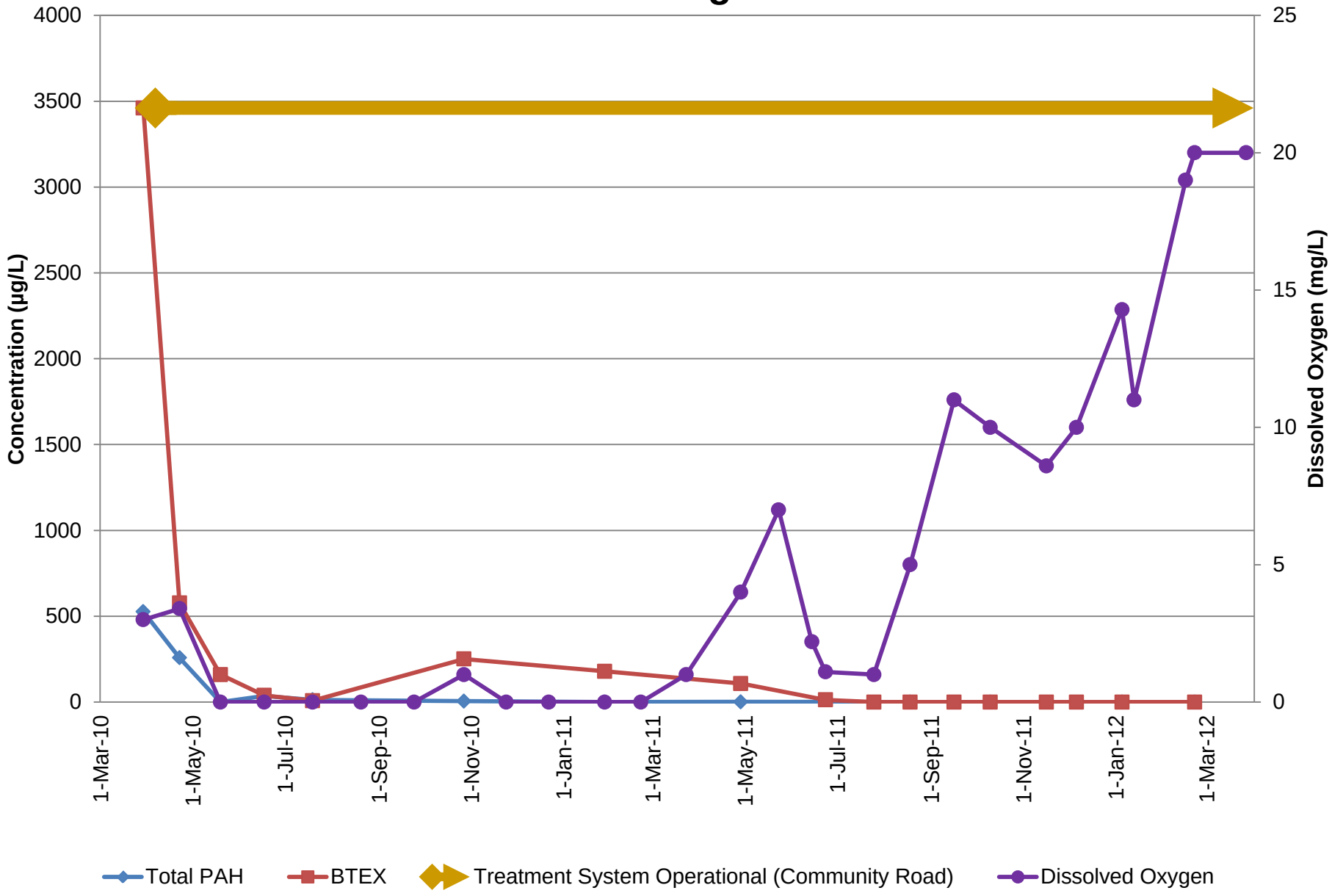



Monitoring Well OU3MW-05S
2-12 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
0
5
10
15
20
25
30
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (OU-3 Union Blvd)
Treatment System Operational (Community Road)
Dissolved Oxygen

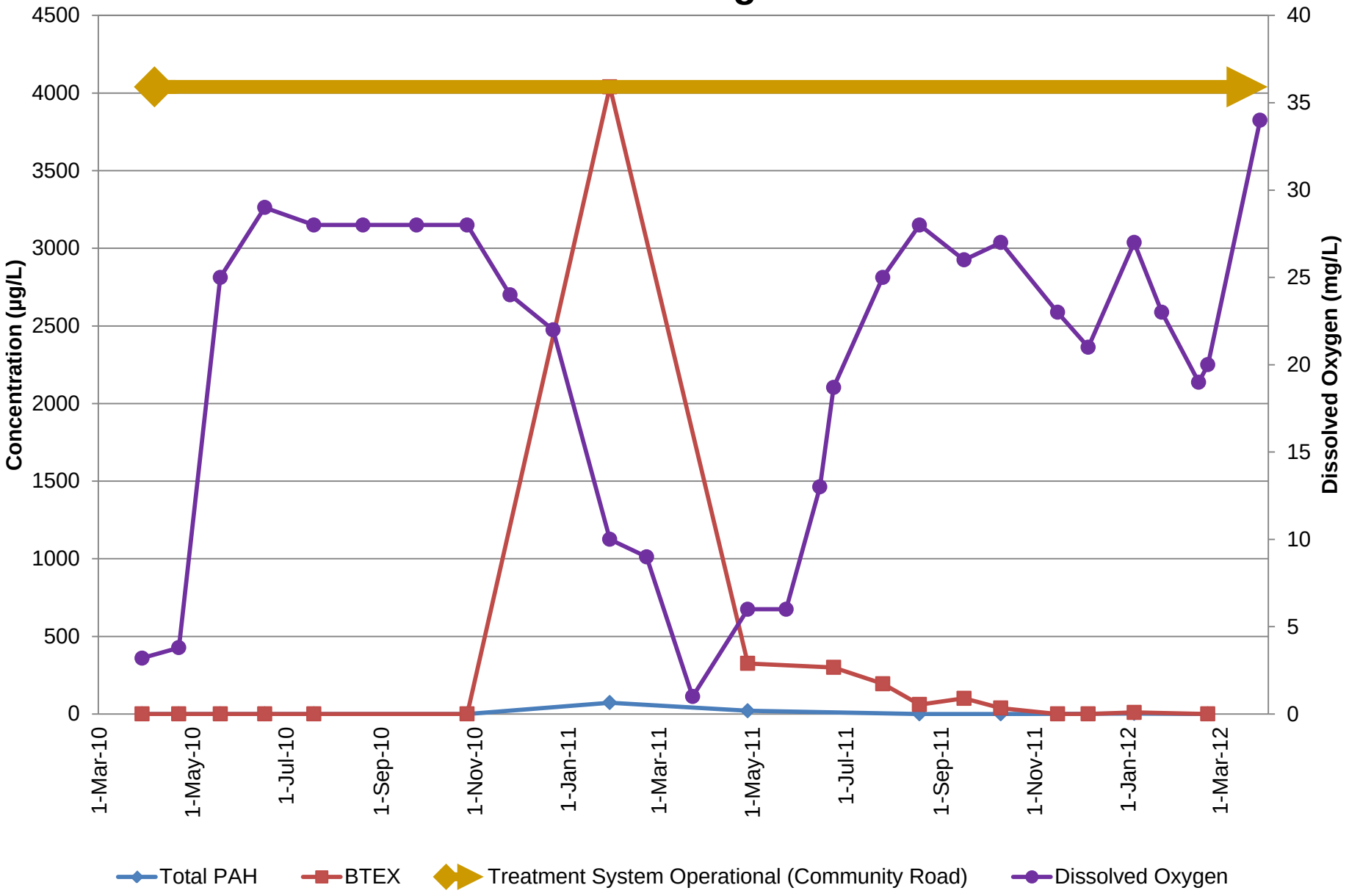

Monitoring Well OU3MW-05I
15-20 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
350
300
250
200
150
100
50
0
25
20
15
10
5
0
1-Oct-09
1-Dec-09
1-Feb-10
1-Apr-10
1-Jun-10
1-Aug-10
1-Oct-10
1-Dec-10
1-Feb-11
1-Apr-11
1-Jun-11
1-Aug-11
1-Oct-11
1-Dec-11
1-Feb-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (OU-3 Union Blvd)
Treatment System Operational (Community Road)
Dissolved Oxygen


Monitoring Well OU3MW-06
3-13 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
35
30
25
20
15
10
5
0
10
9
8
7
6
5
4
3
2
1
0
1-Sep-09
1-Nov-09
1-Jan-10
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
Total PAH
BTEX
Treatment System Operational (OU-3 Union Blvd)
Dissolved Oxygen

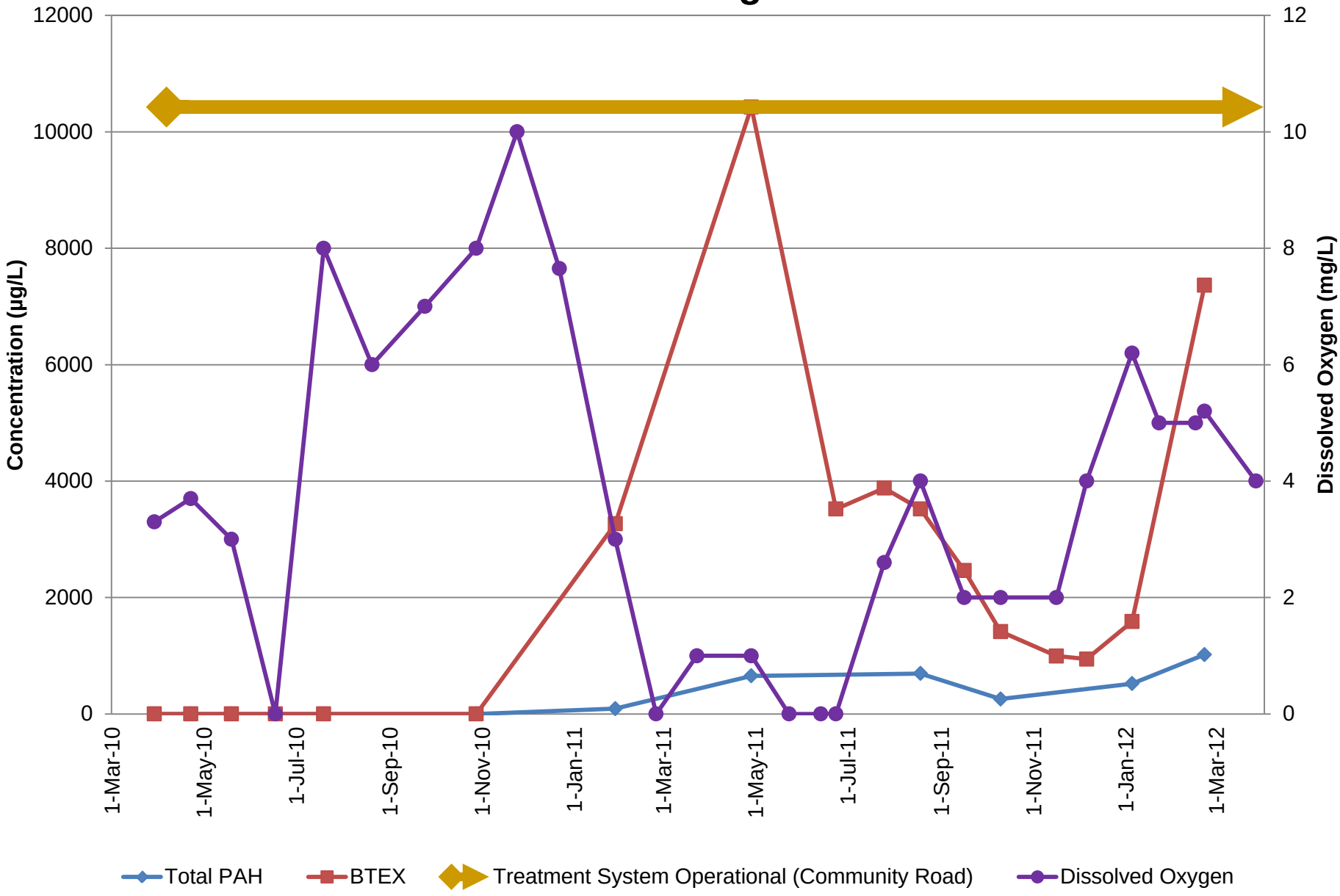
Monitoring Well OU3MW-07S
3-13 ft bgs



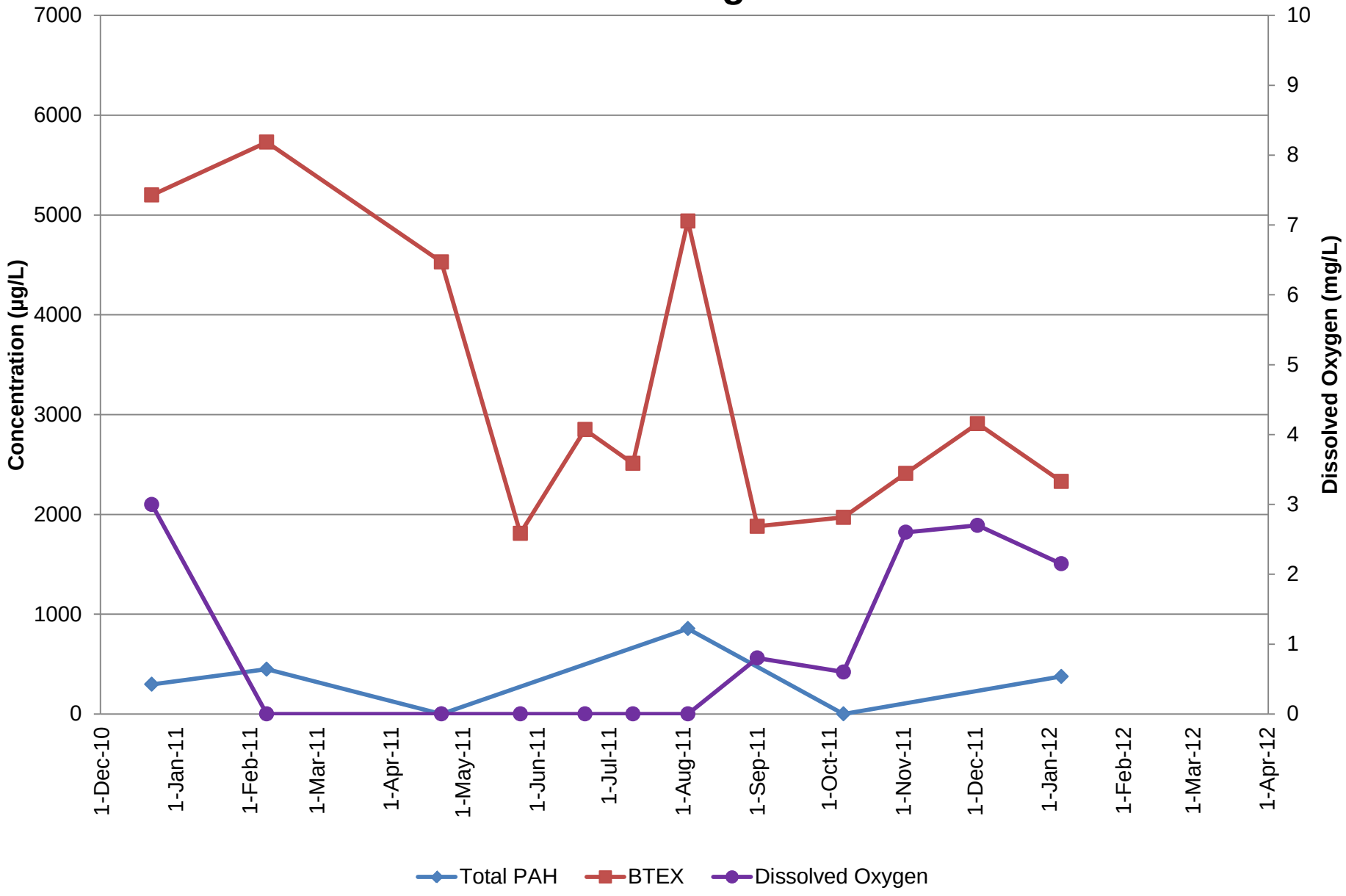
Monitoring Well OU3MW-07I
15-20 ft bgs



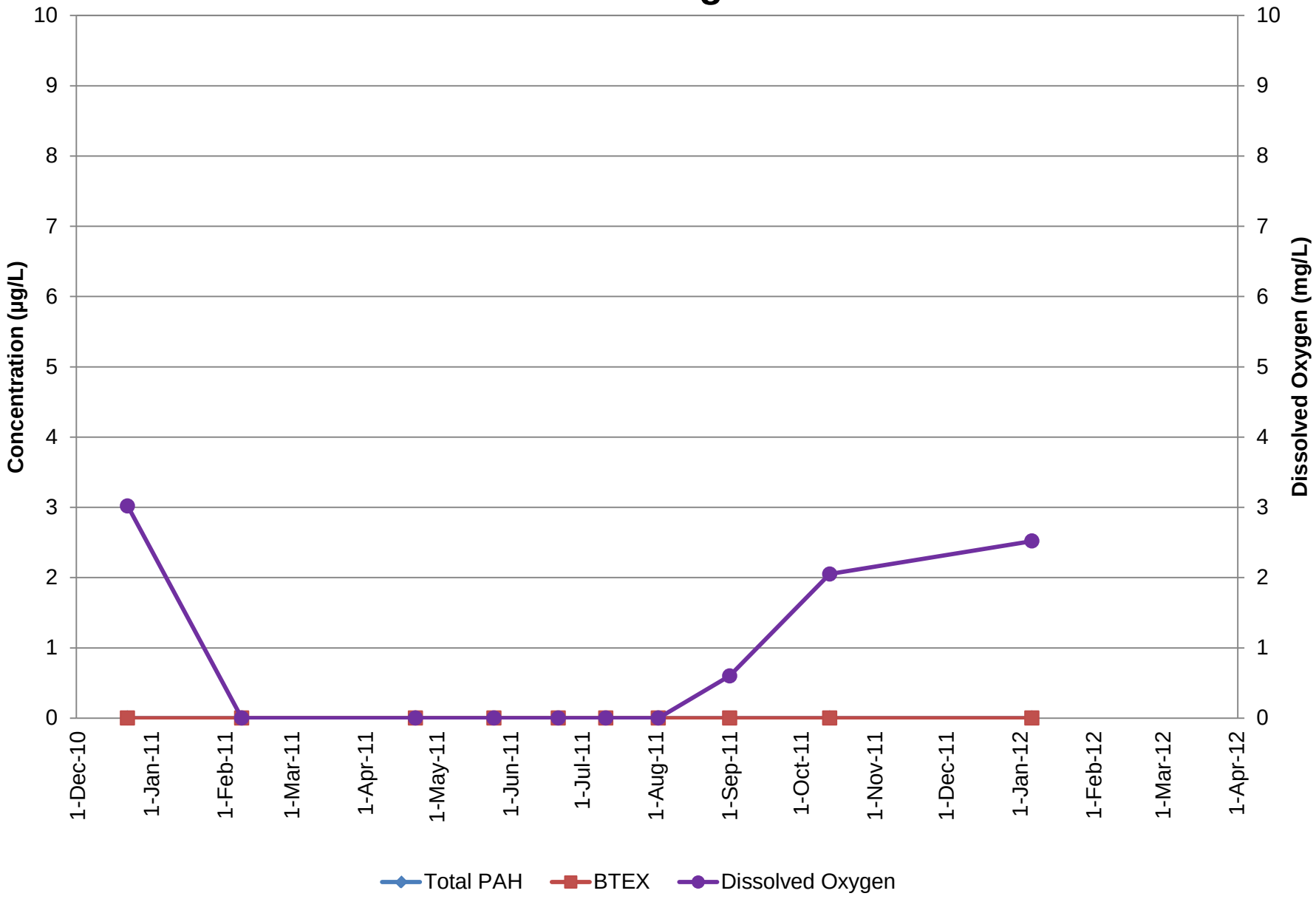
Monitoring Well OU3MW-07I2
20-25 ft bgs



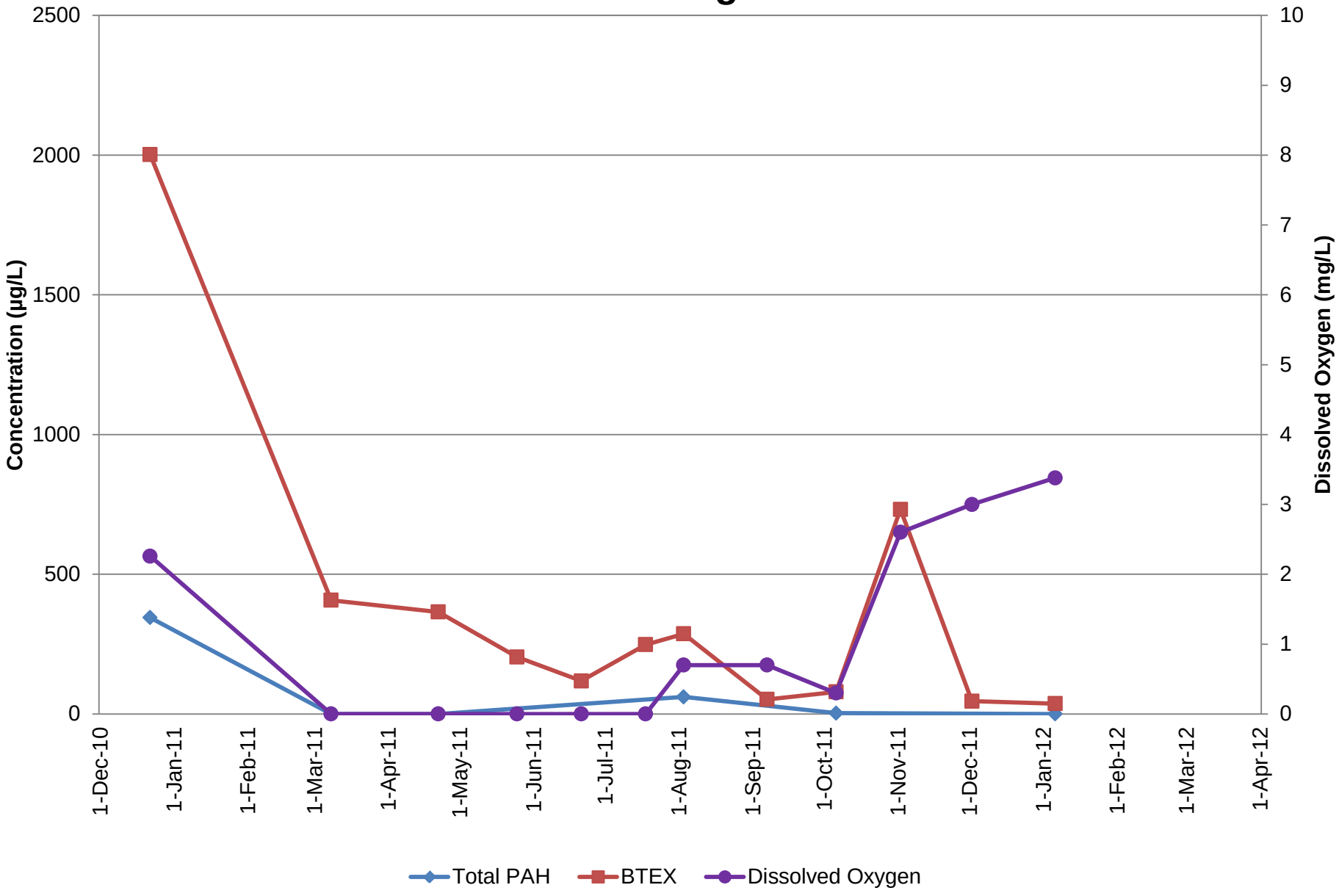
Monitoring Well OU3MW-08S
2-12 ft bgs



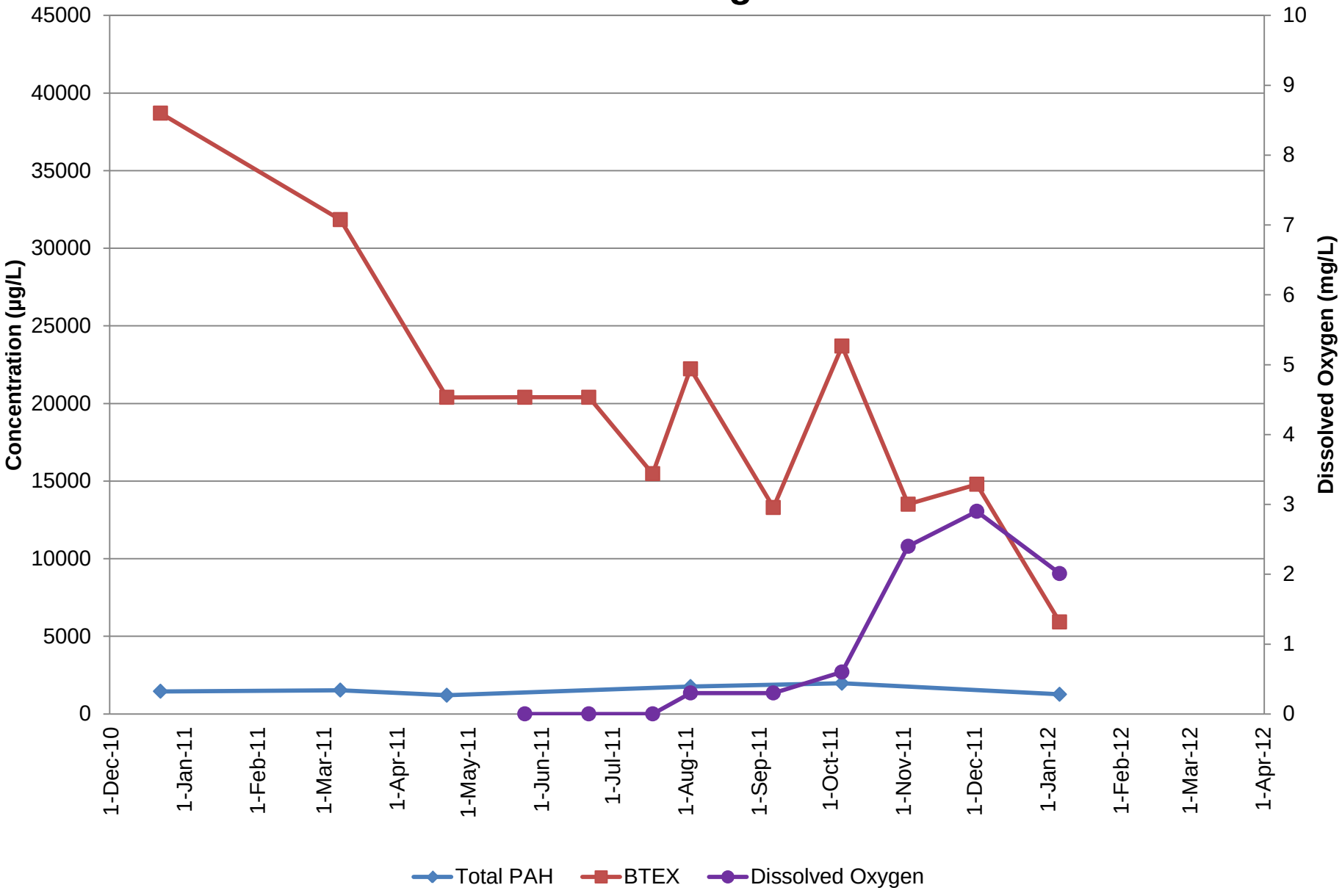
Monitoring Well OU3MW-08I
25-30 ft bgs

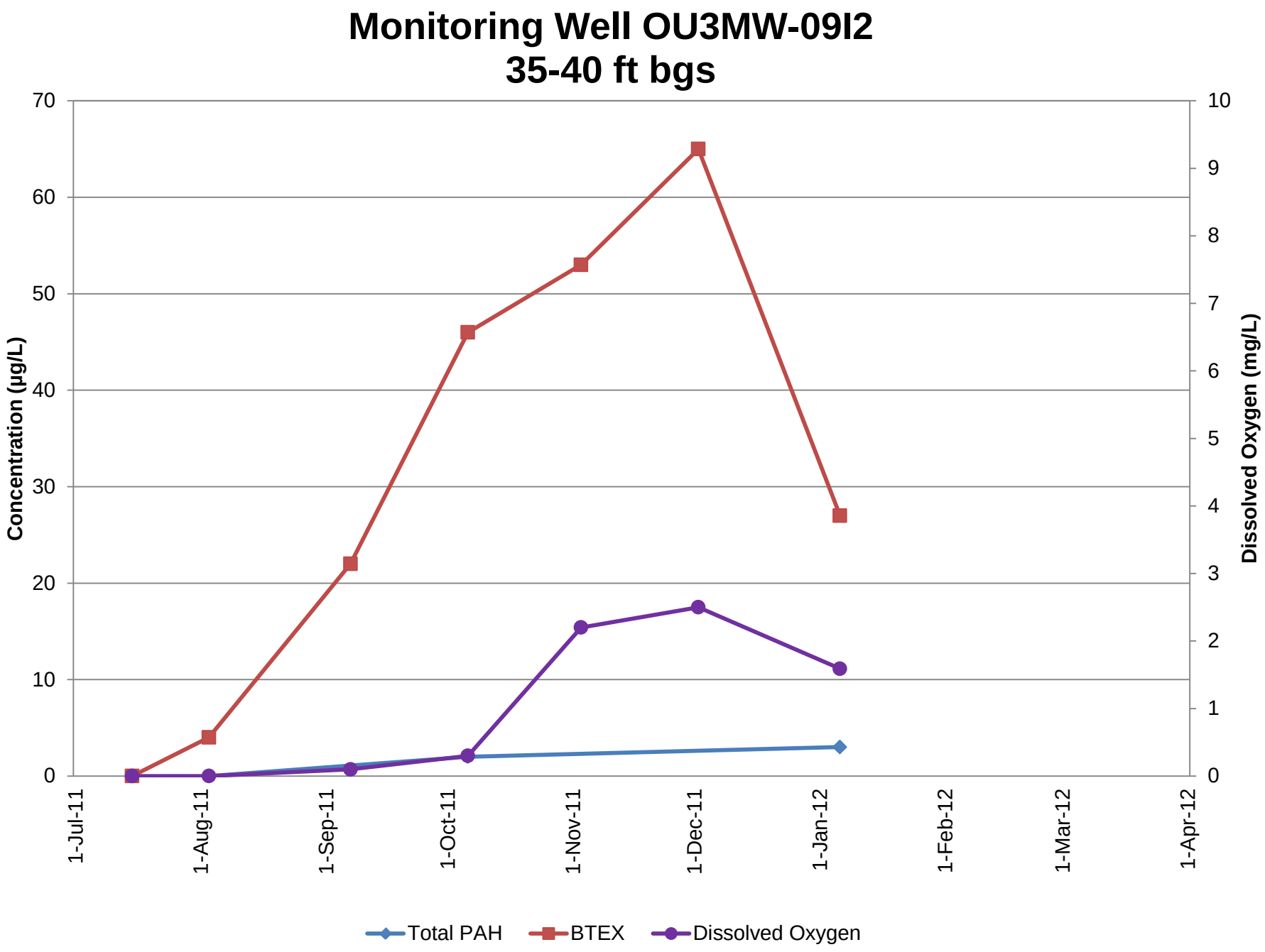


Monitoring Well OU3MW-09S
2-12 ft bgs

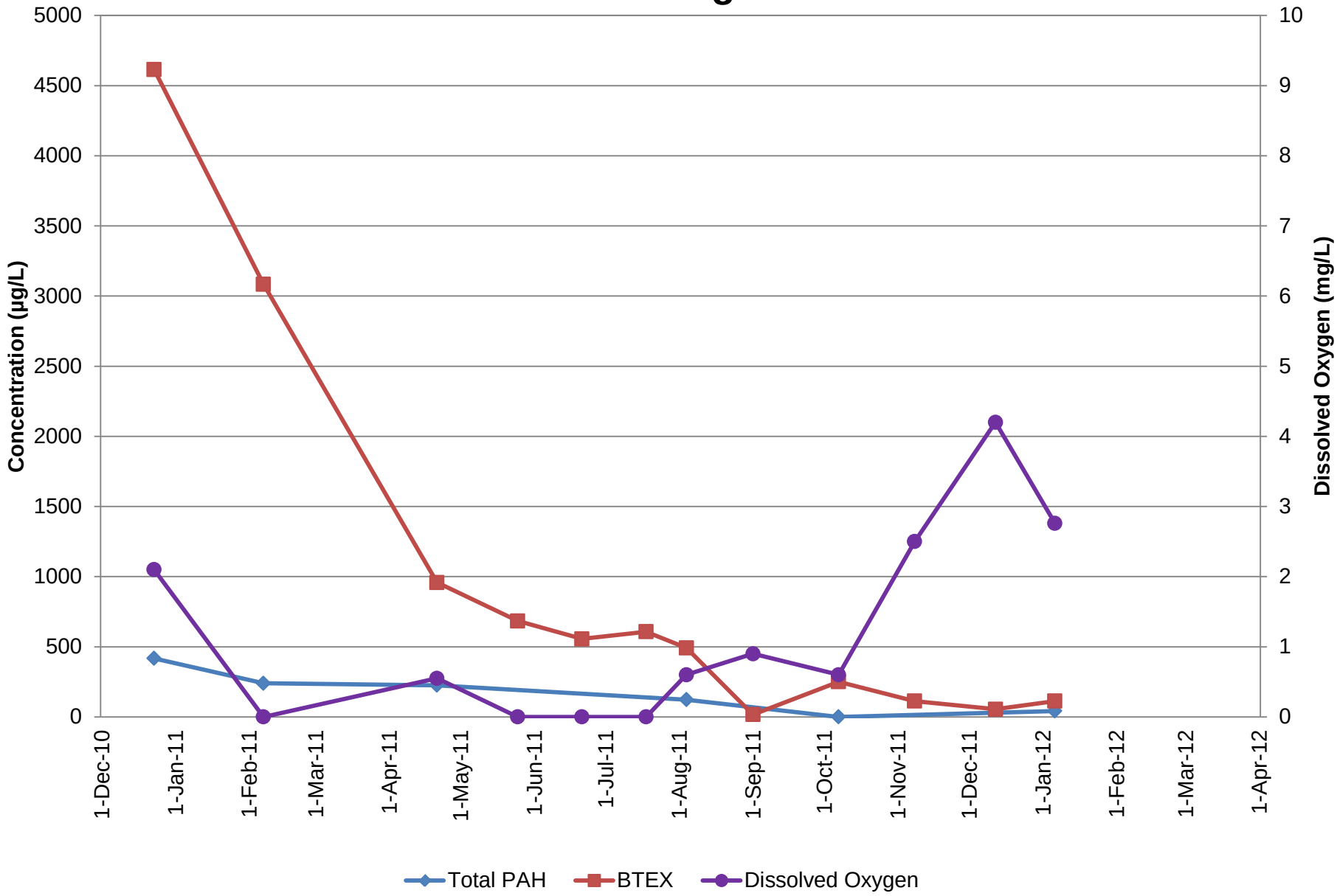


Monitoring Well OU3MW-09I
25-30 ft bgs

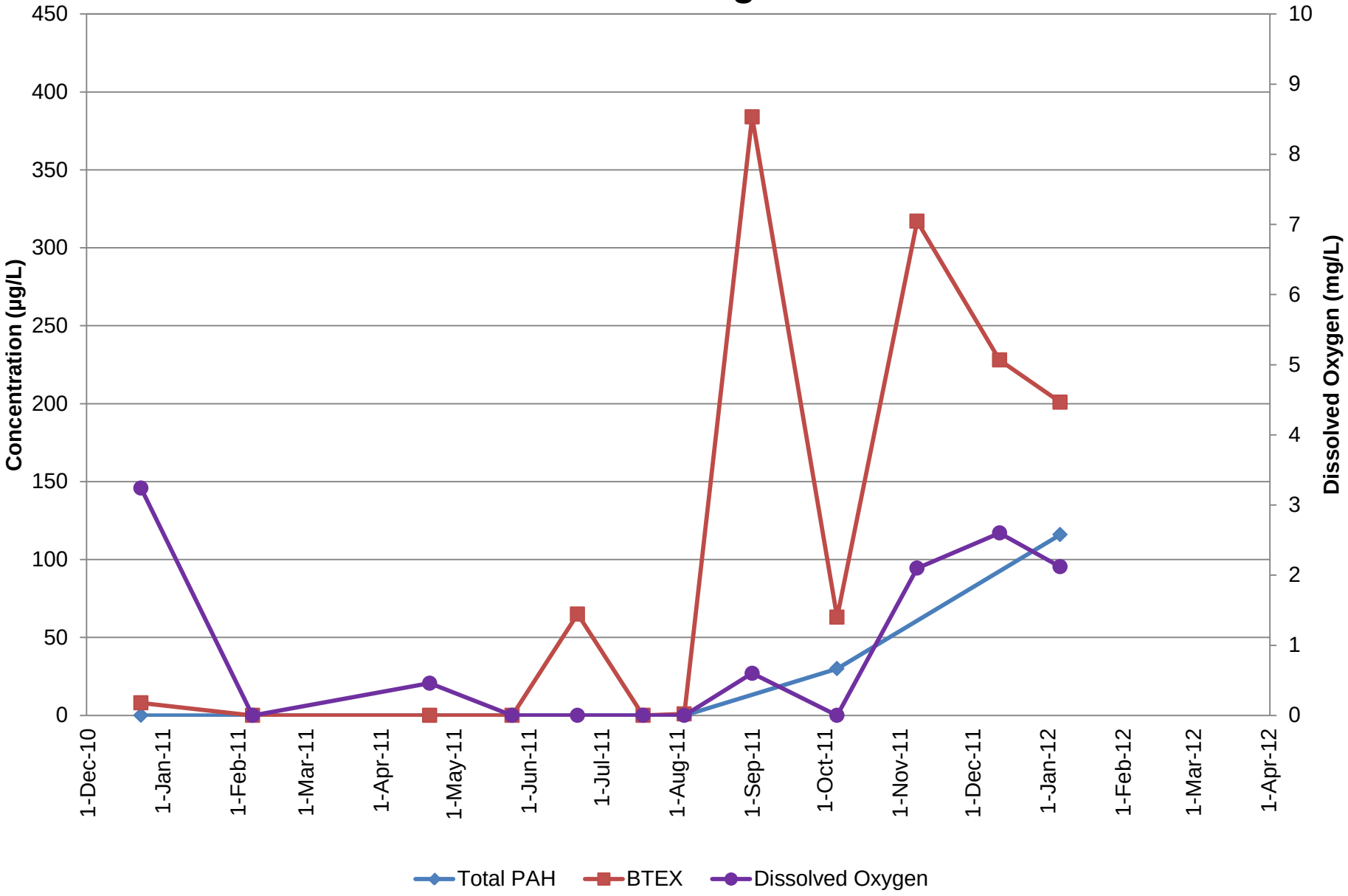



Monitoring Well OU3MW-09I2
35-40 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
70
60
50
40
30
20
10
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

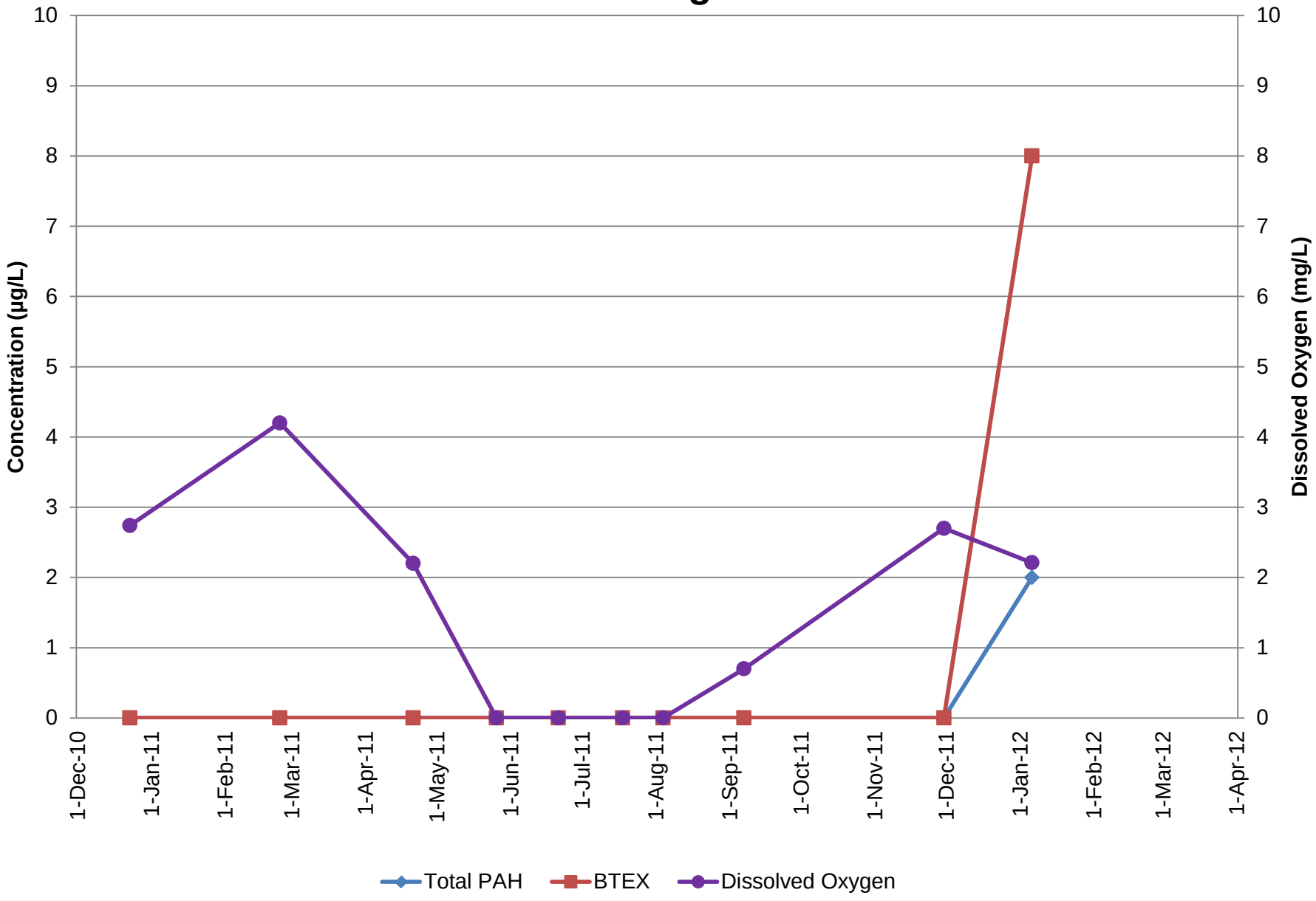
Monitoring Well OU3MW-10S
2-12 ft bgs



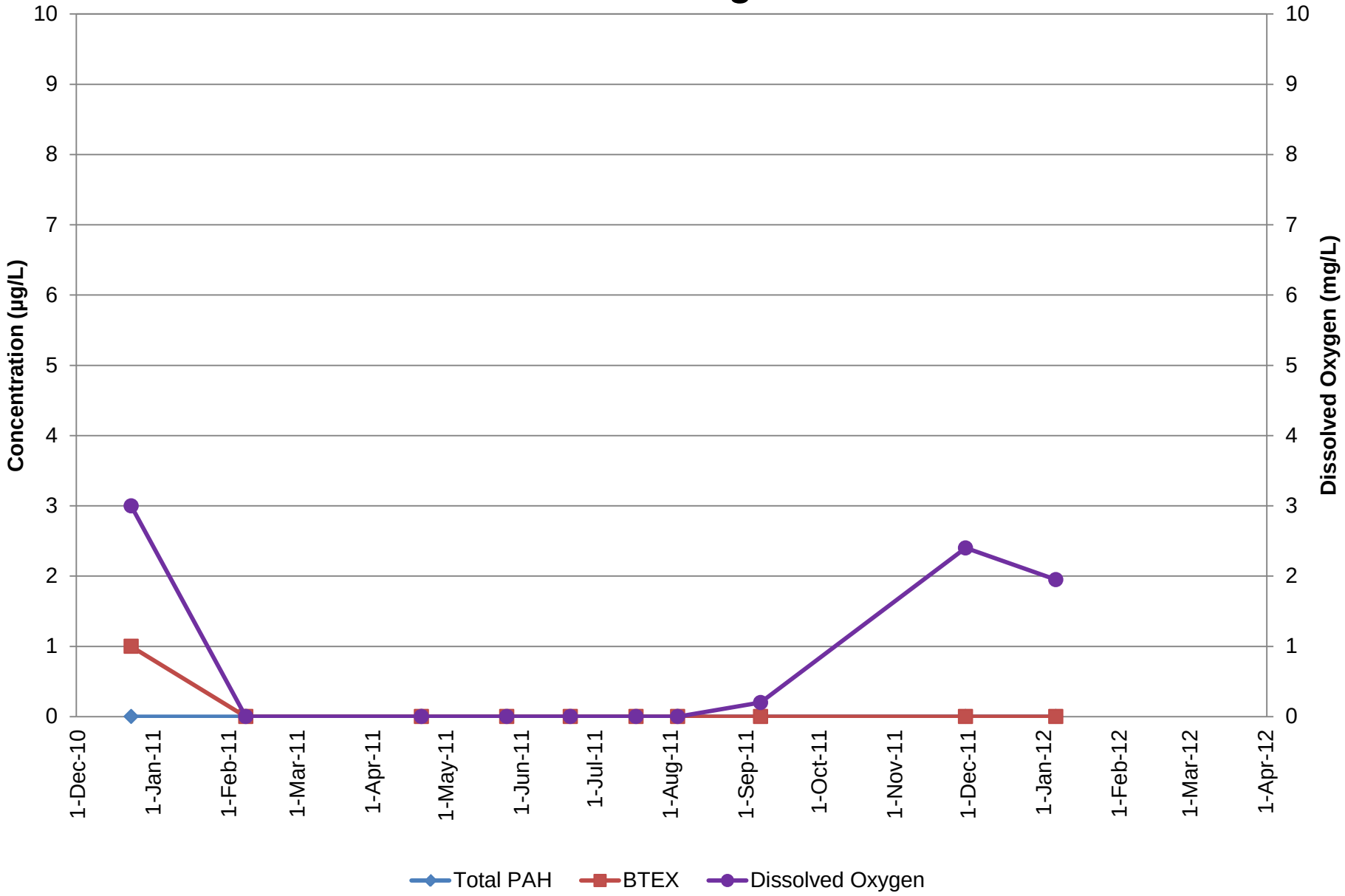
Monitoring Well OU3MW-10I
25-30 ft bgs



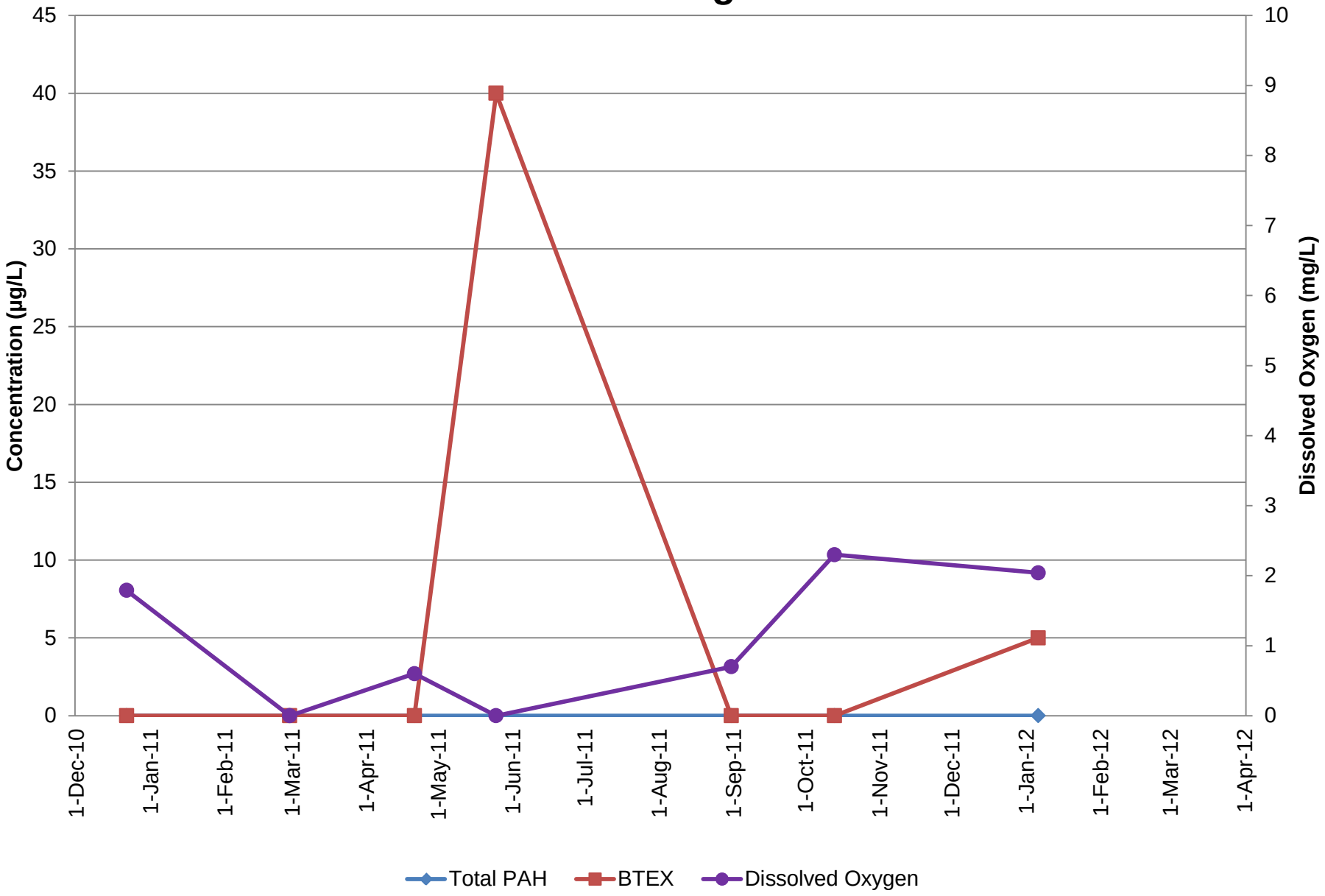
Monitoring Well OU3MW-11S
2-12 ft bgs

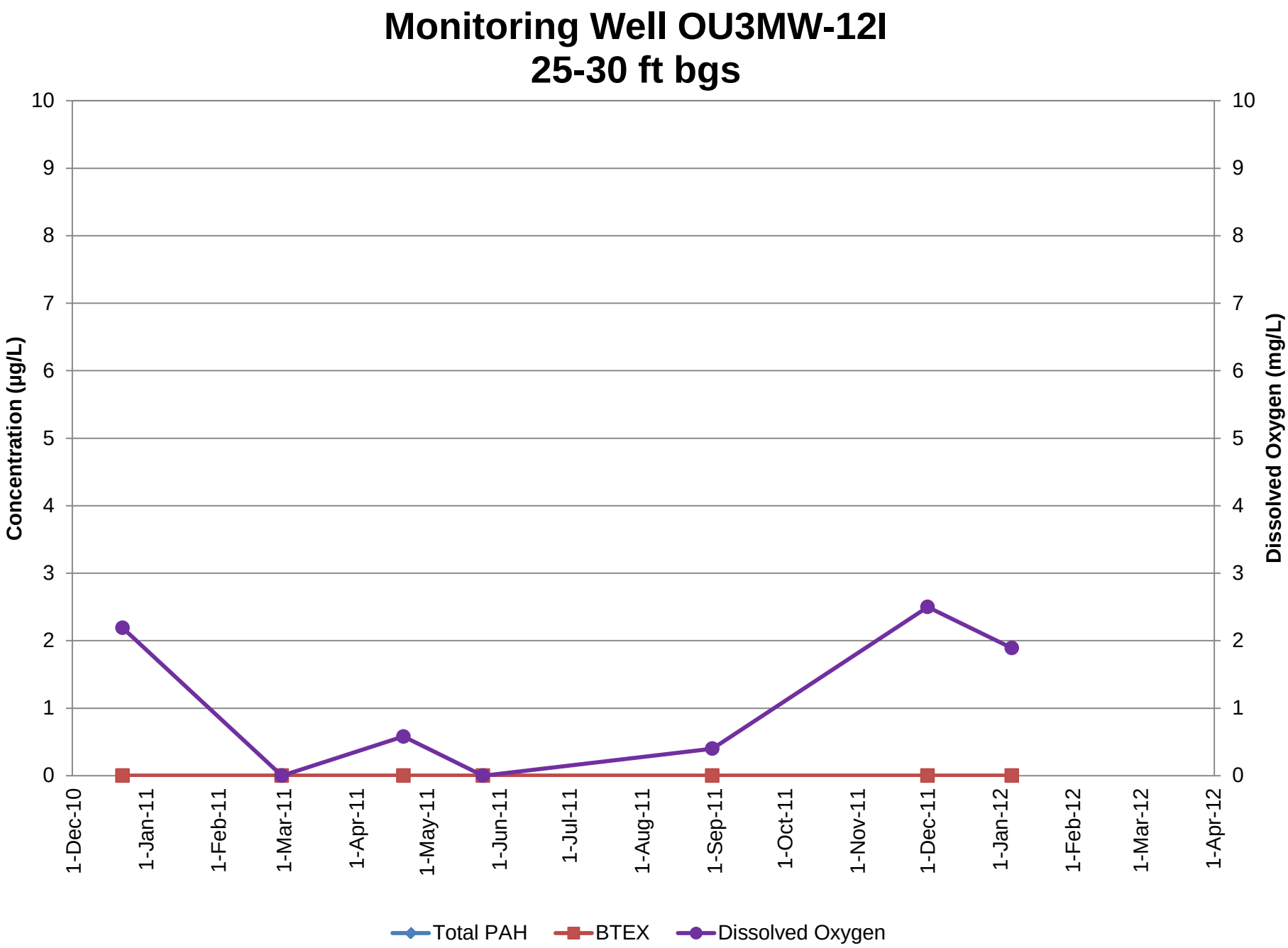


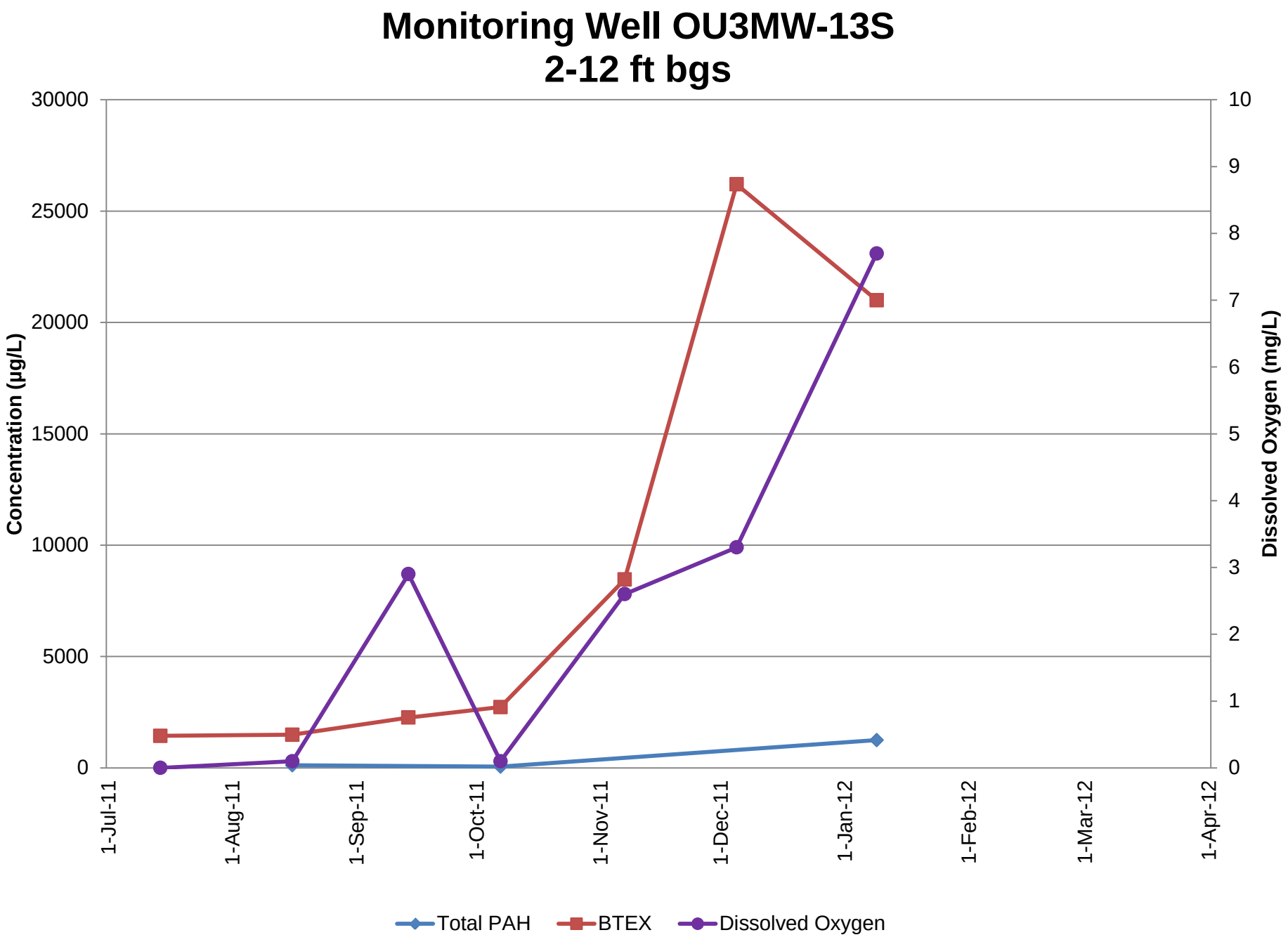
Monitoring Well OU3MW-11I
25-30 ft bgs

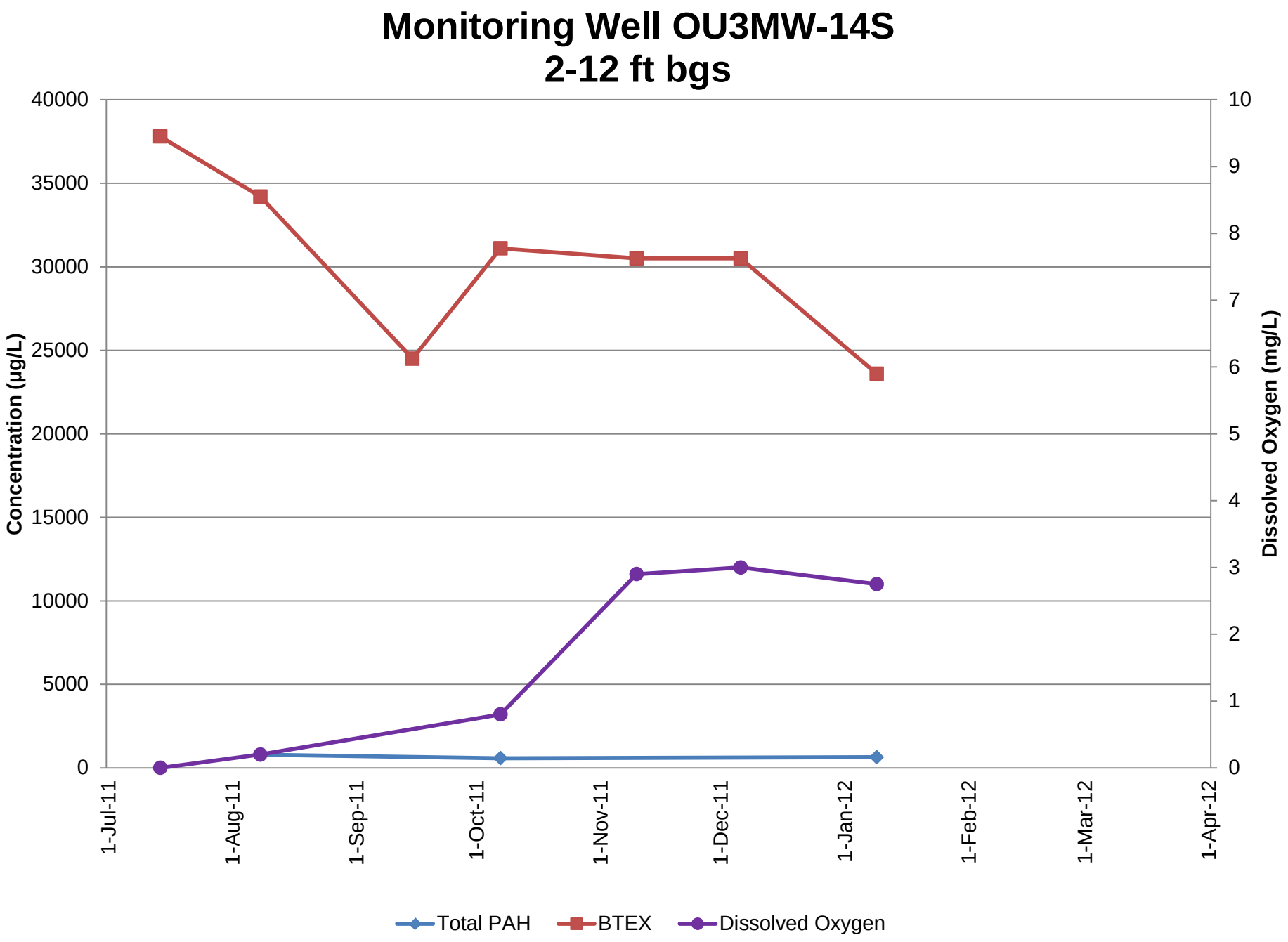


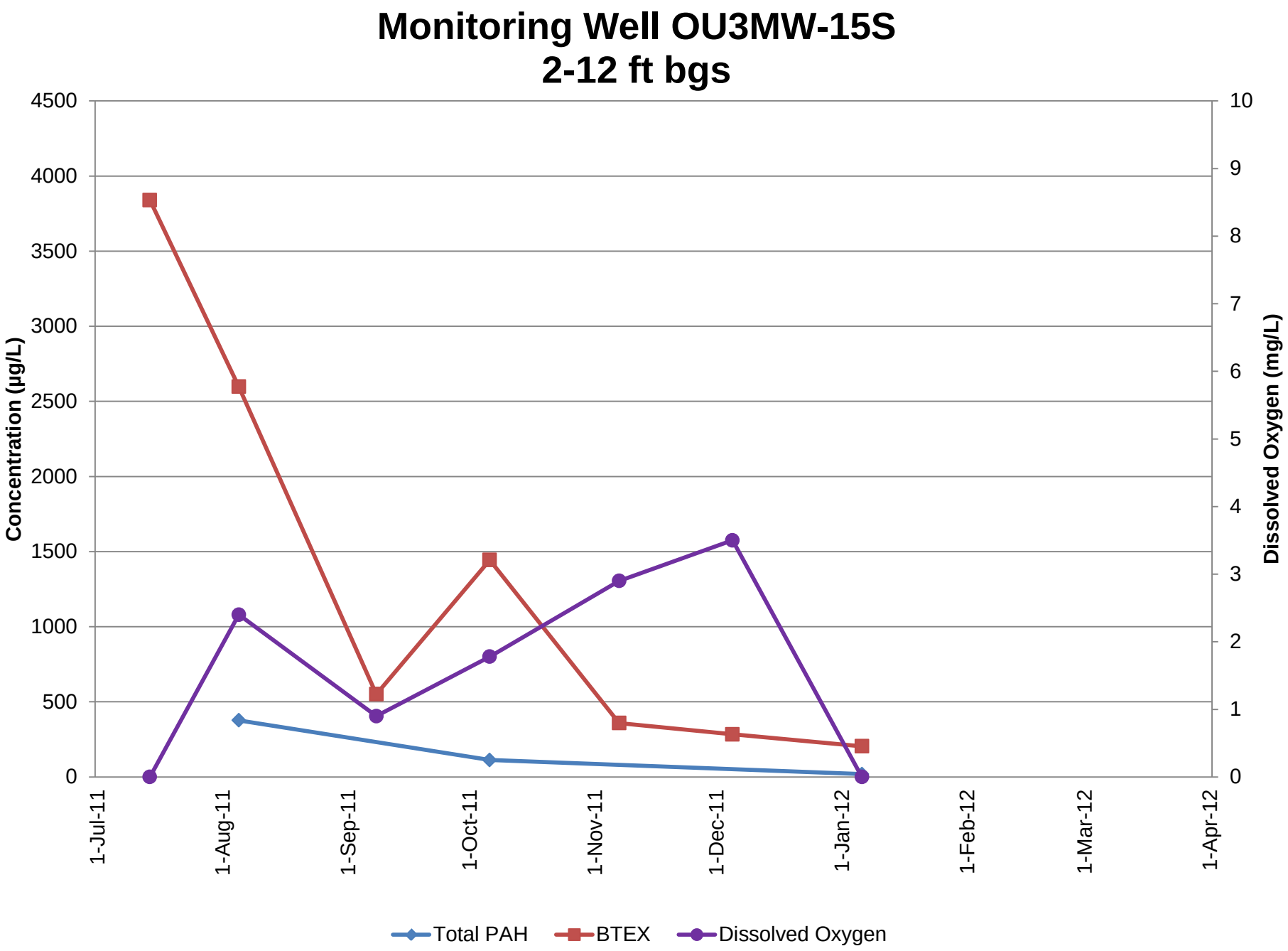
Monitoring Well OU3MW-12S
2-12 ft bgs

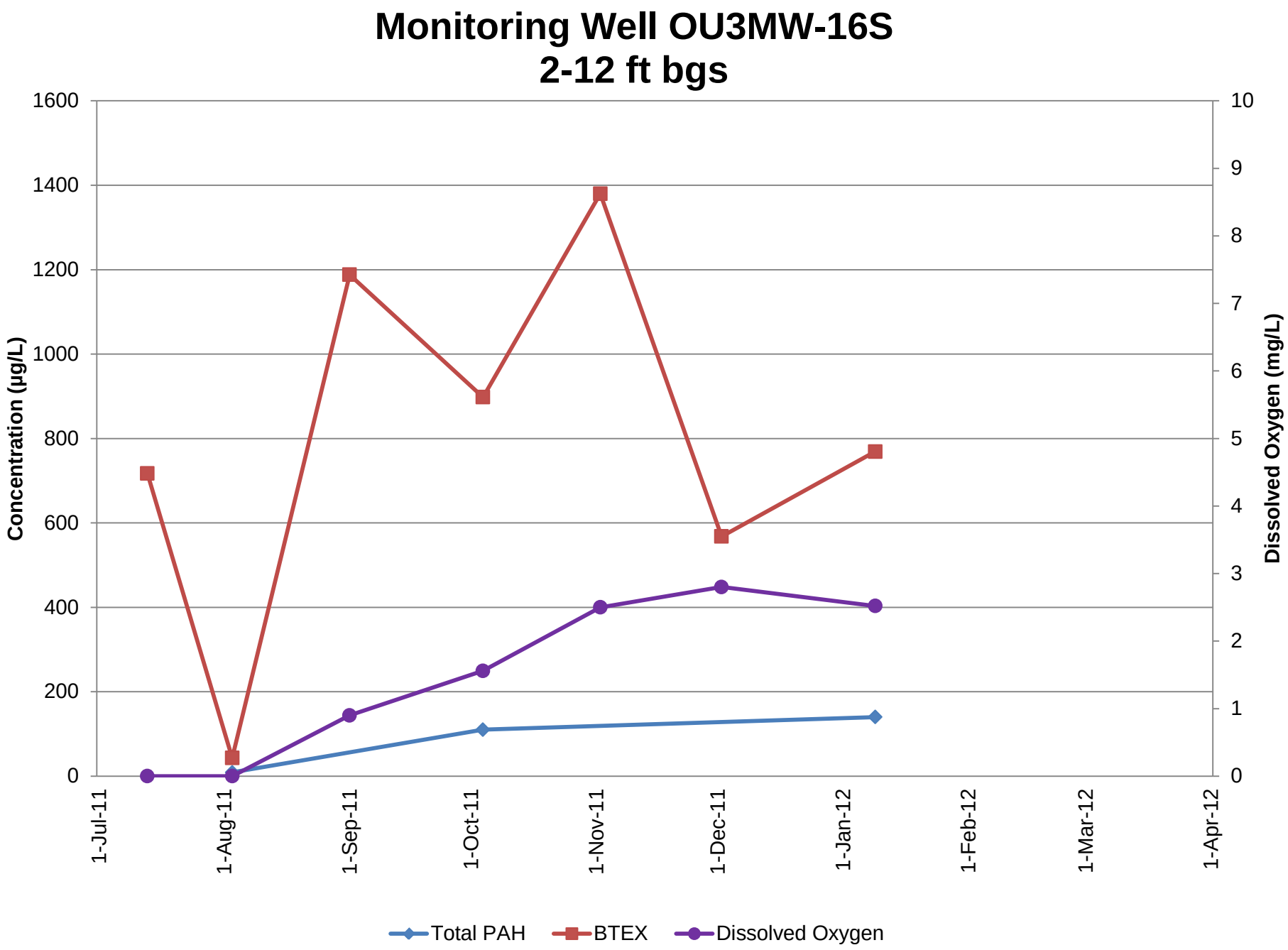


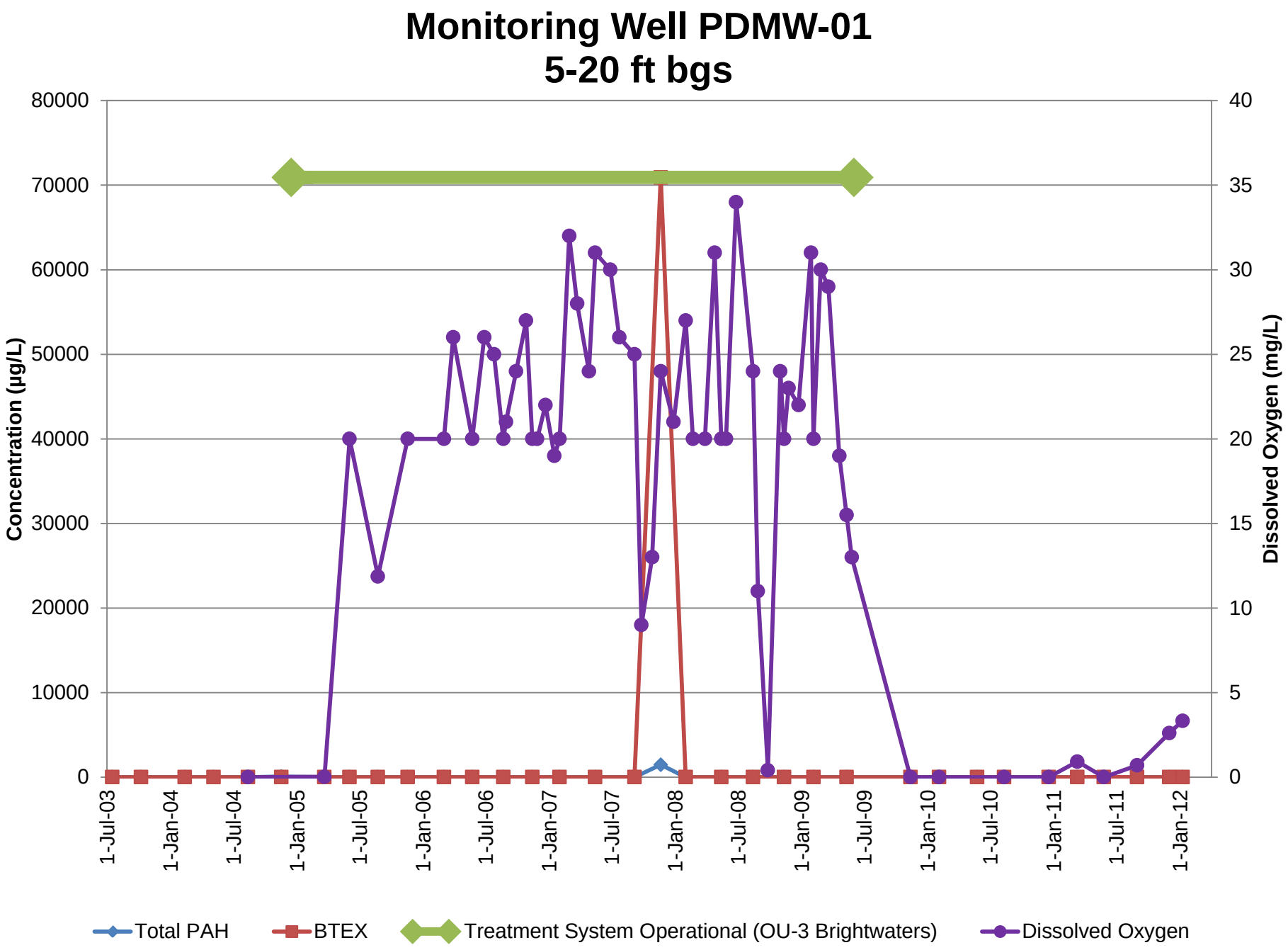

Monitoring Well OU3MW-12I
25-30 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
1-Dec-10
1-Jan-11
1-Feb-11
1-Mar-11
1-Apr-11
1-May-11
1-Jun-11
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen


Monitoring Well OU3MW-13S
2-12 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
30000
25000
20000
15000
10000
5000
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

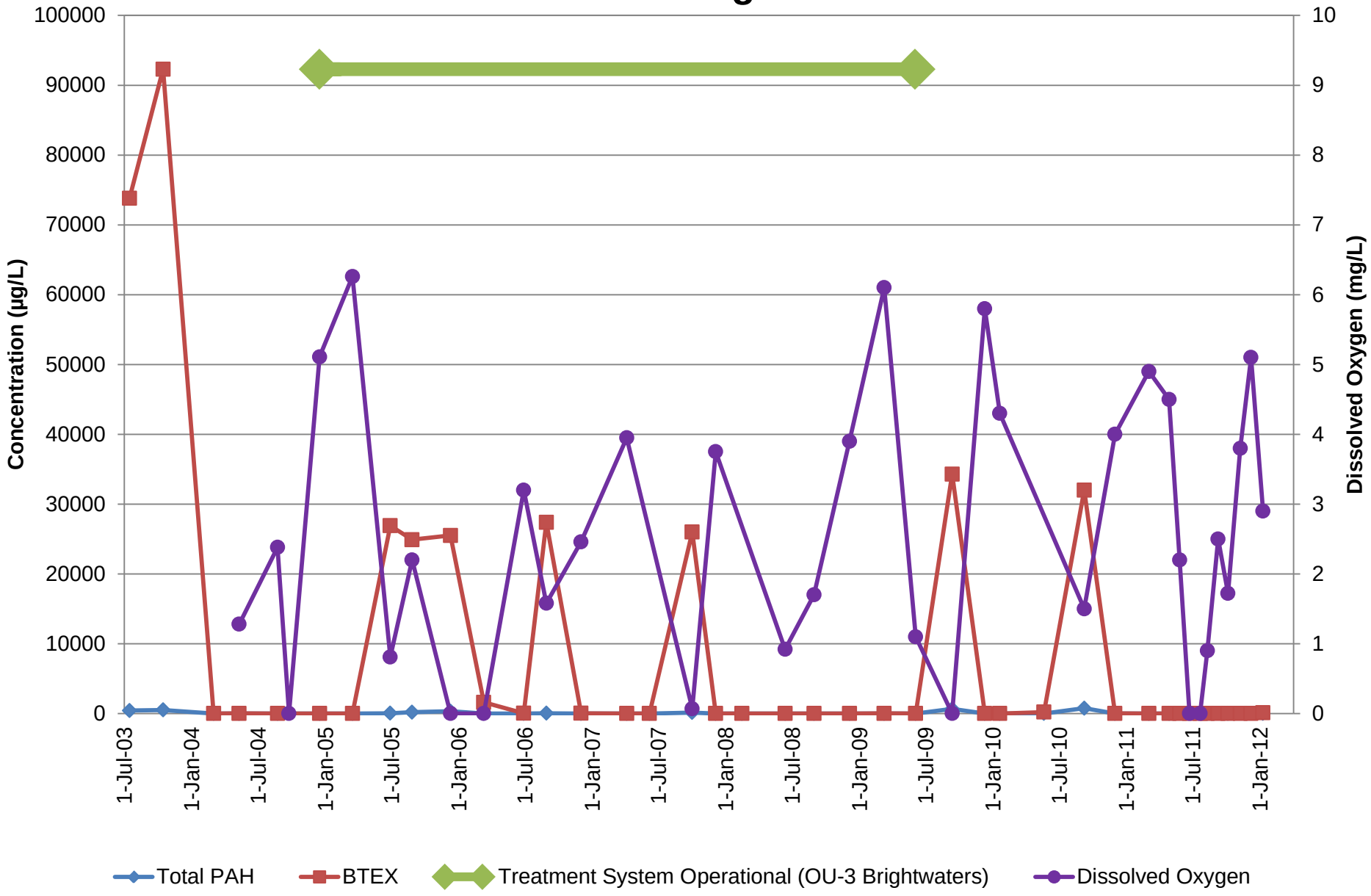

Monitoring Well OU3MW-14S
2-12 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
40000
35000
30000
25000
20000
15000
10000
5000
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen


Monitoring Well OU3MW-15S
2-12 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

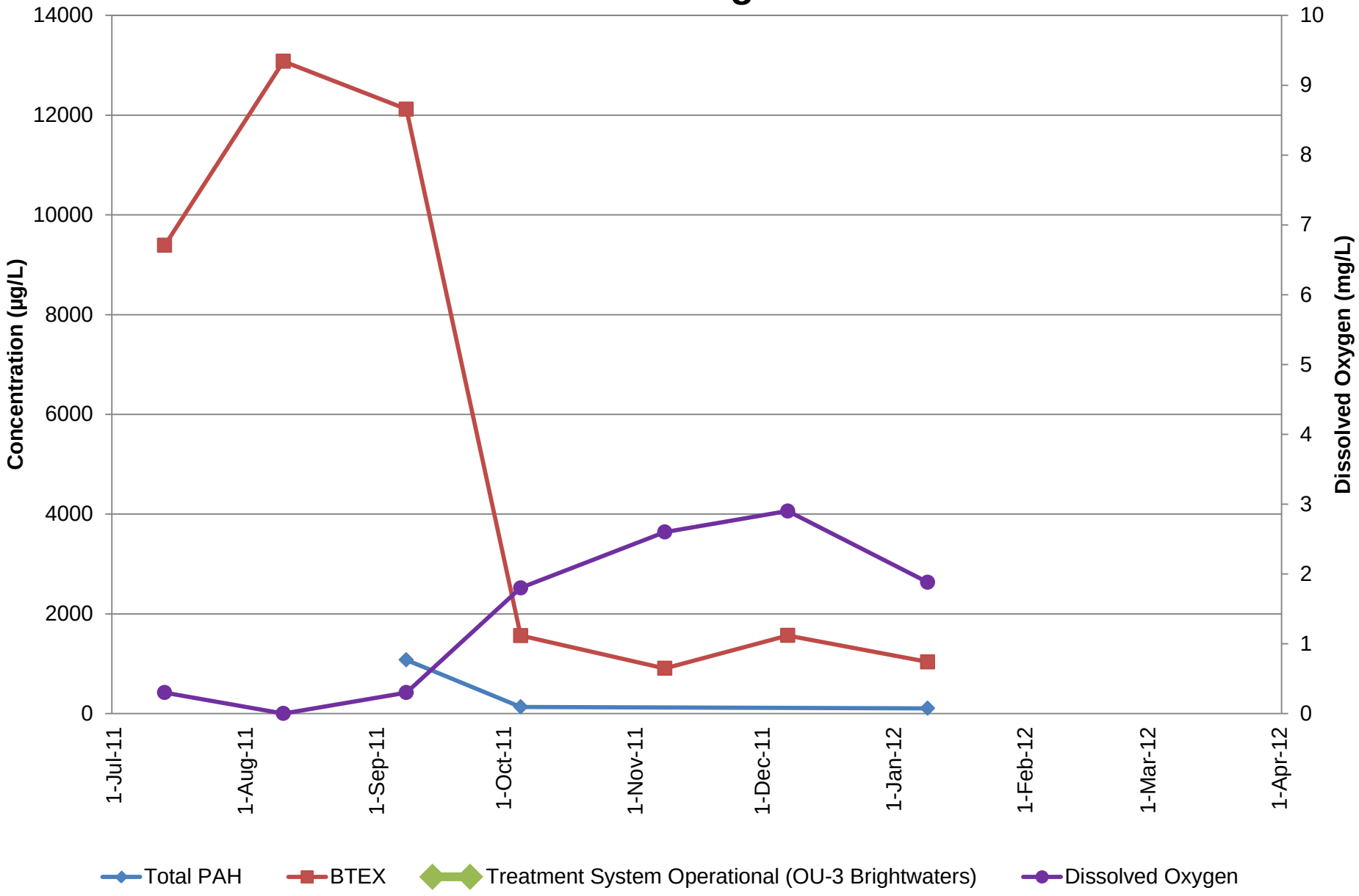

Monitoring Well OU3MW-16S
2-12 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
1600
1400
1200
1000
800
600
400
200
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Dissolved Oxygen

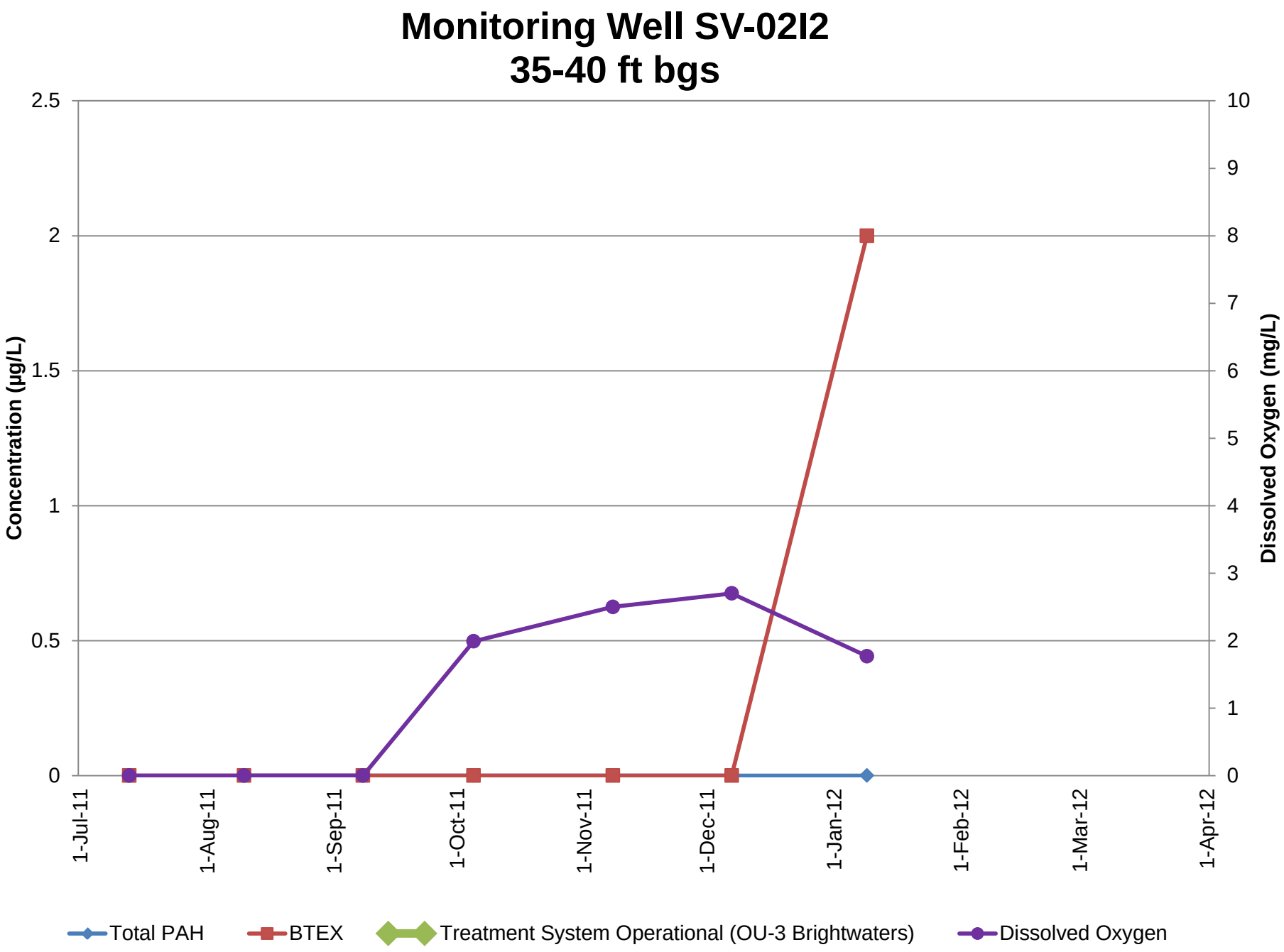

Monitoring Well PDMW-01
5-20 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
80000
70000
60000
50000
40000
30000
20000
10000
0
40
35
30
25
20
15
10
5
0
1-Jul-03
1-Jan-04
1-Jul-04
1-Jan-05
1-Jul-05
1-Jan-06
1-Jul-06
1-Jan-07
1-Jul-07
1-Jan-08
1-Jul-08
1-Jan-09
1-Jul-09
1-Jan-10
1-Jul-10
1-Jan-11
1-Jul-11
1-Jan-12
Total PAH
BTEX
Treatment System Operational (OU-3 Brightwaters)
Dissolved Oxygen

Monitoring Well SV-02
2-12 ft bgs

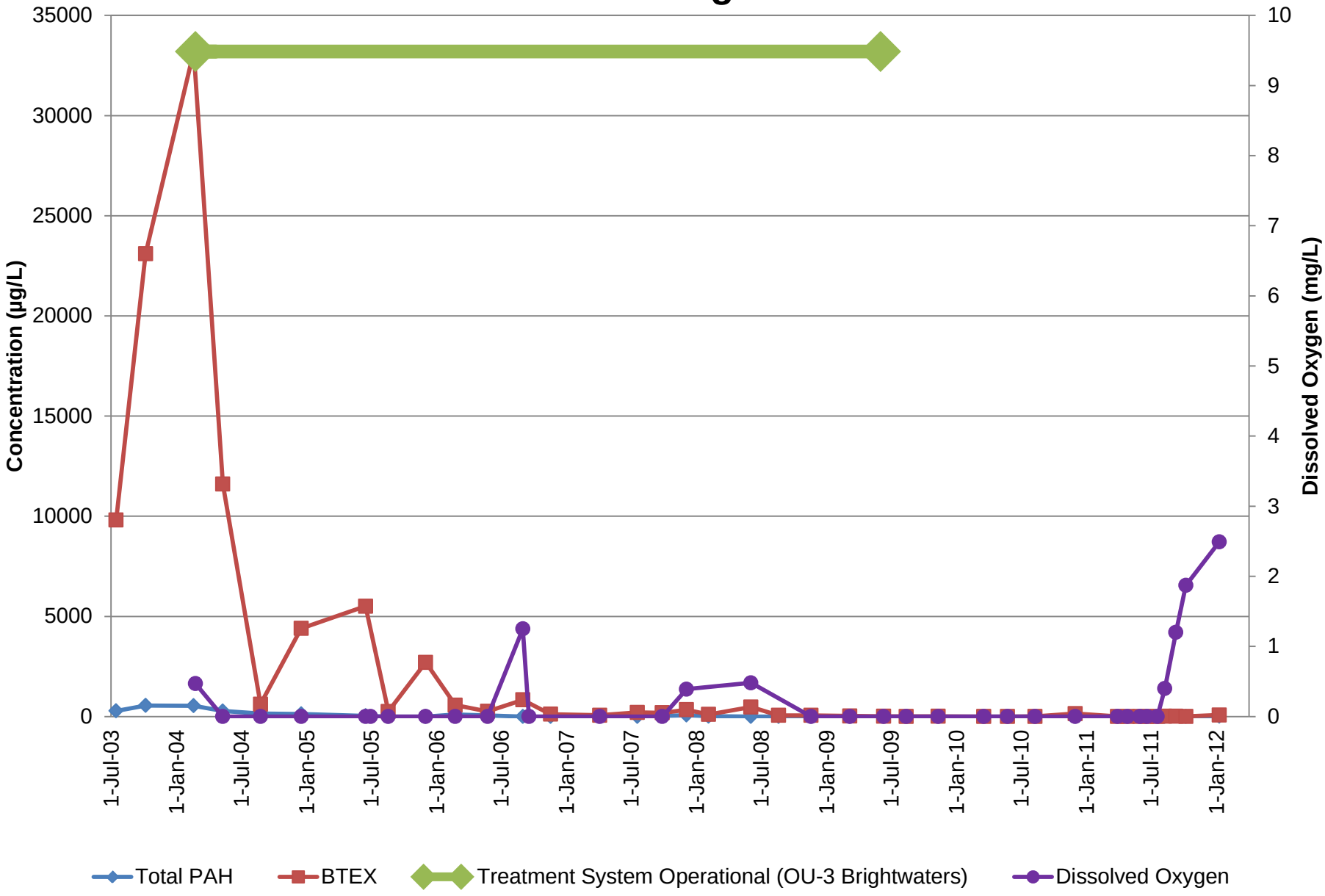


Monitoring Well SV-02I
22-27 ft bgs

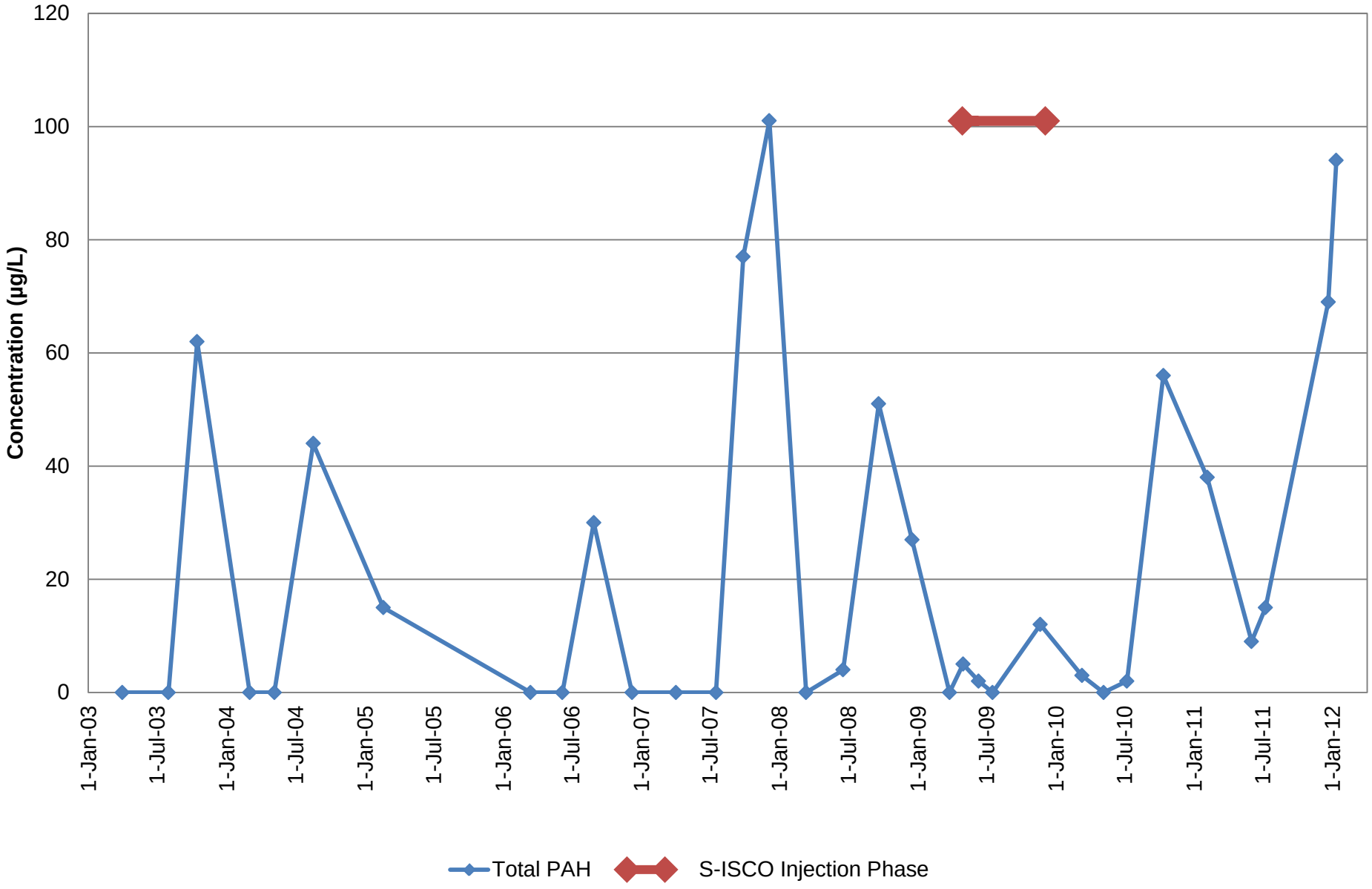



Monitoring Well SV-02I2
35-40 ft bgs
Concentration (µg/L)
Dissolved Oxygen (mg/L)
2.5
2
1.5
1
0.5
0
10
9
8
7
6
5
4
3
2
1
0
1-Jul-11
1-Aug-11
1-Sep-11
1-Oct-11
1-Nov-11
1-Dec-11
1-Jan-12
1-Feb-12
1-Mar-12
1-Apr-12
Total PAH
BTEX
Treatment System Operational (OU-3 Brightwaters)
Dissolved Oxygen

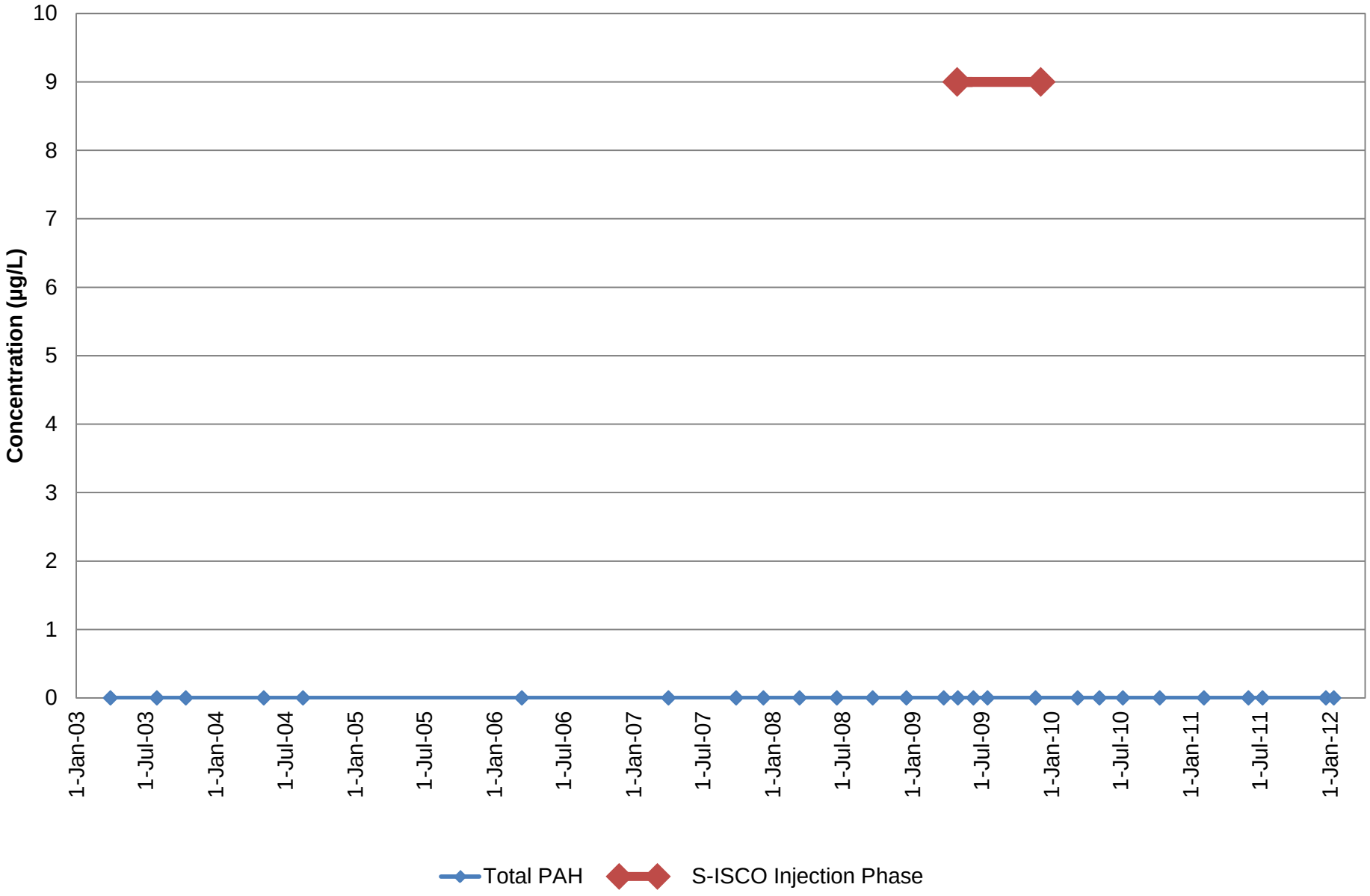
Monitoring Well SV-03
2-12 ft bgs



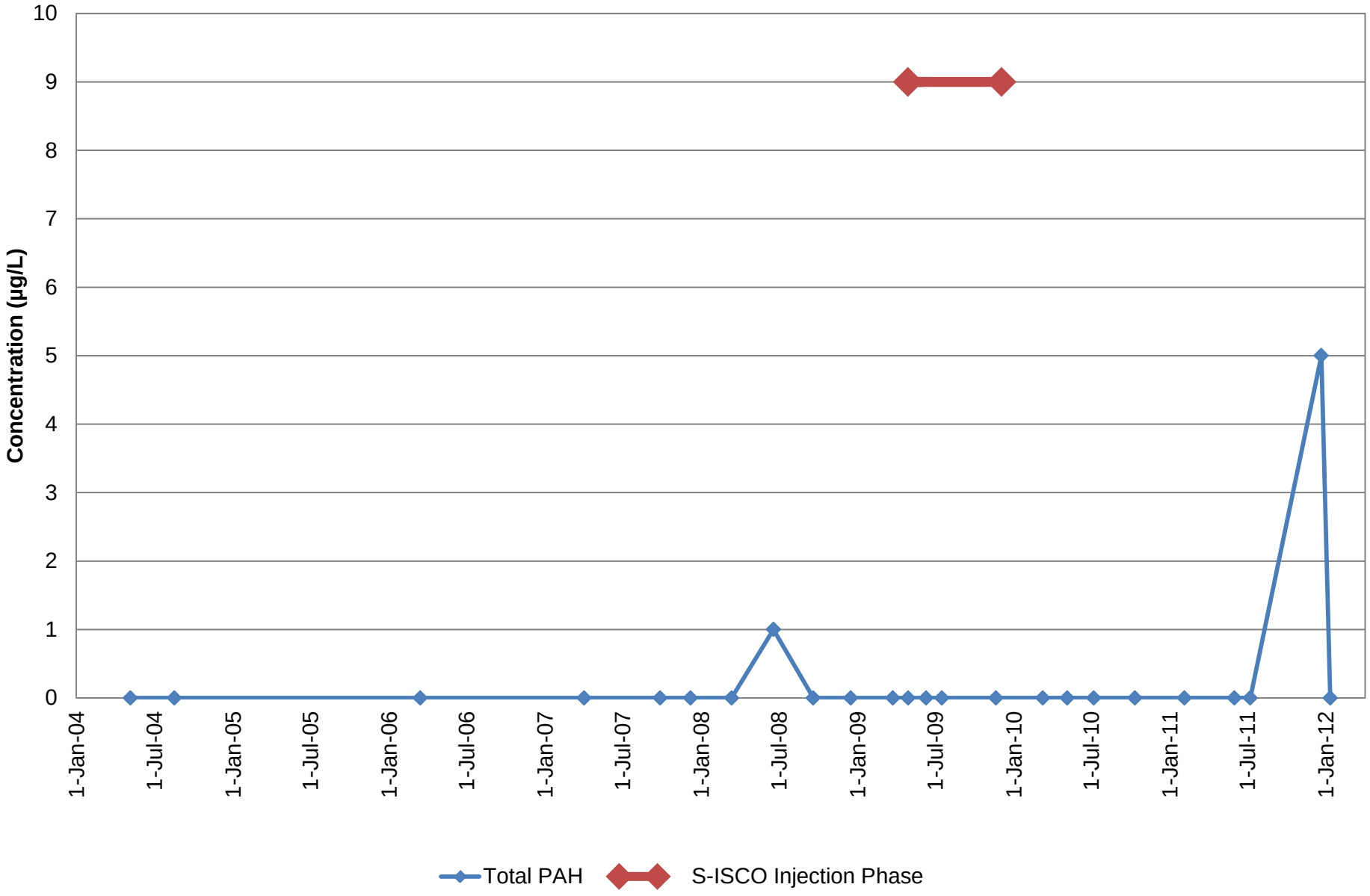
Monitoring Well WCMW-02S
3-13 ft bgs



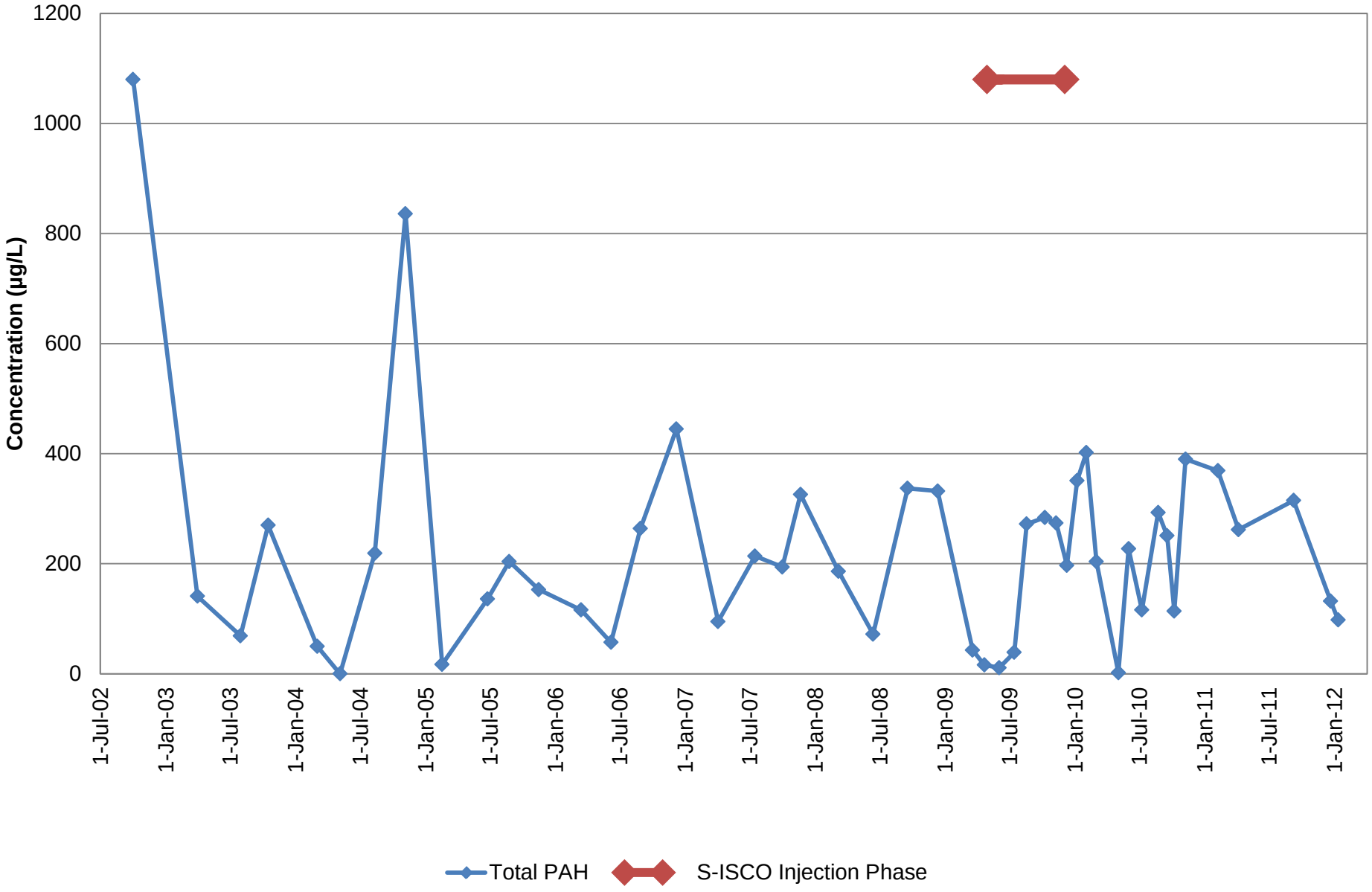
Monitoring Well WCMW-02I
34.5-44.5 ft bgs



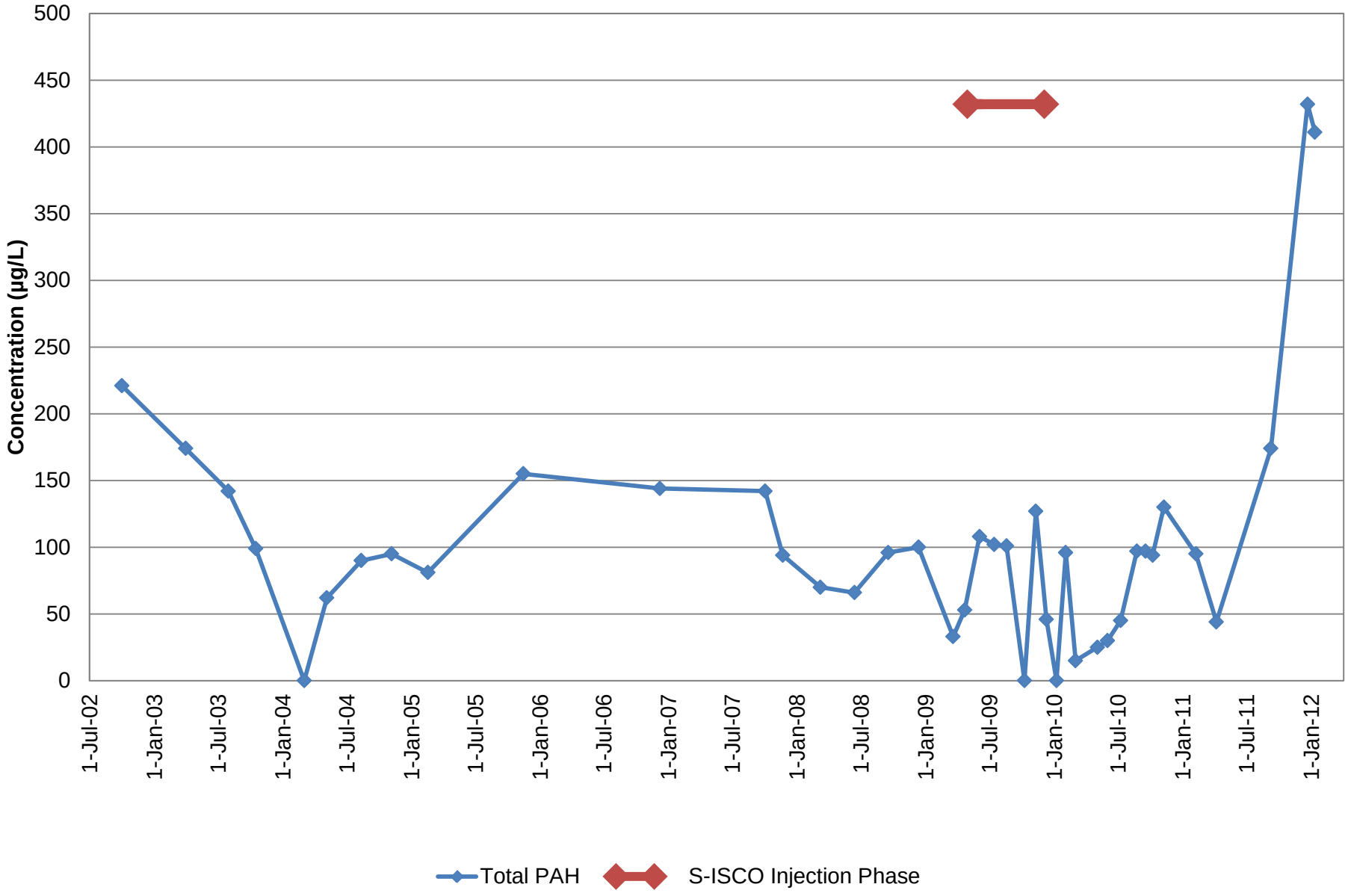
Monitoring Well WCMW-02D
62-72 ft bgs



Monitoring Well WCMW-04S
1.6-11.6 ft bgs



Monitoring Well WCMW-04I
19-24 ft bgs



Monitoring Well WCMW-04I2
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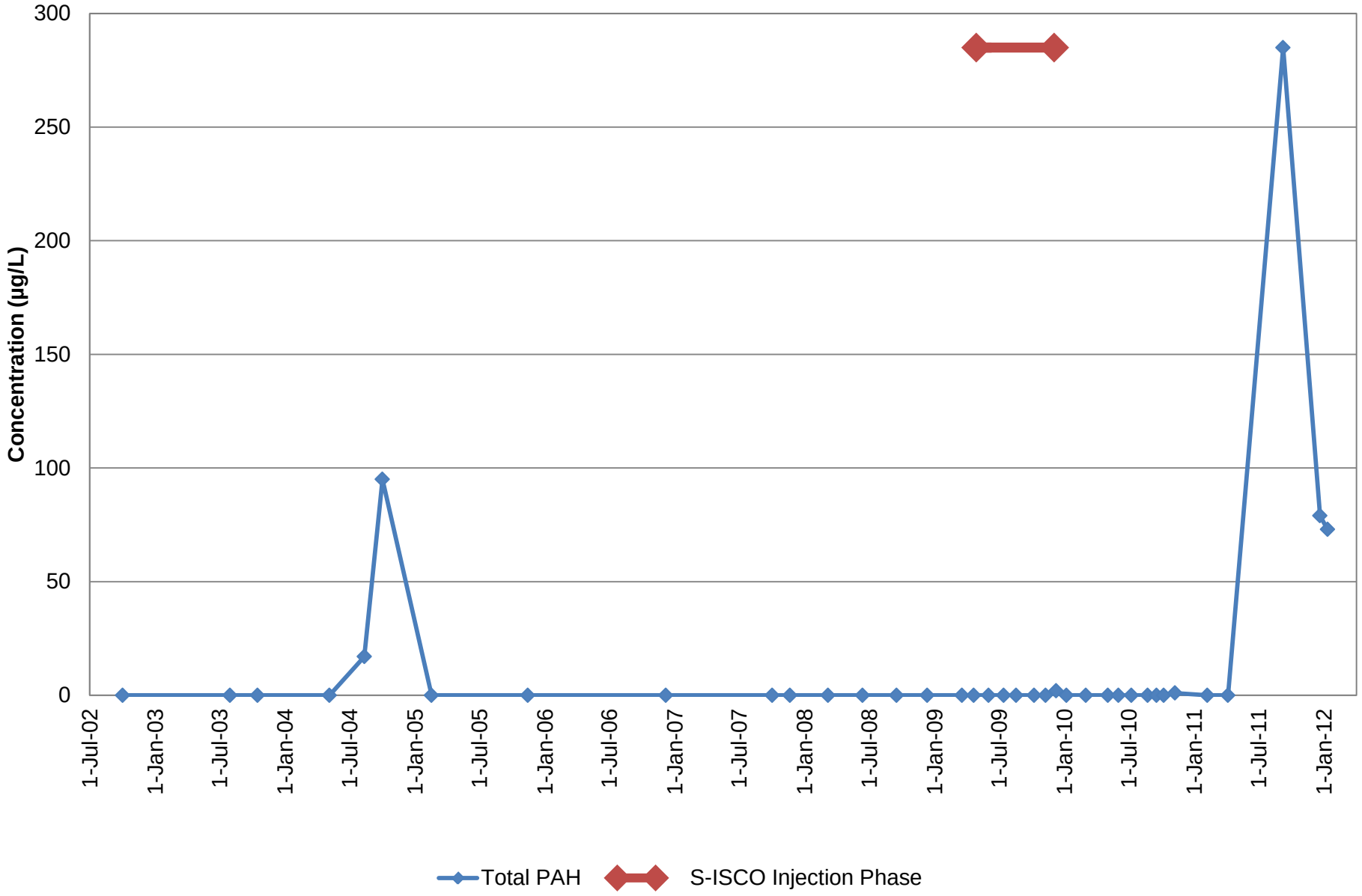
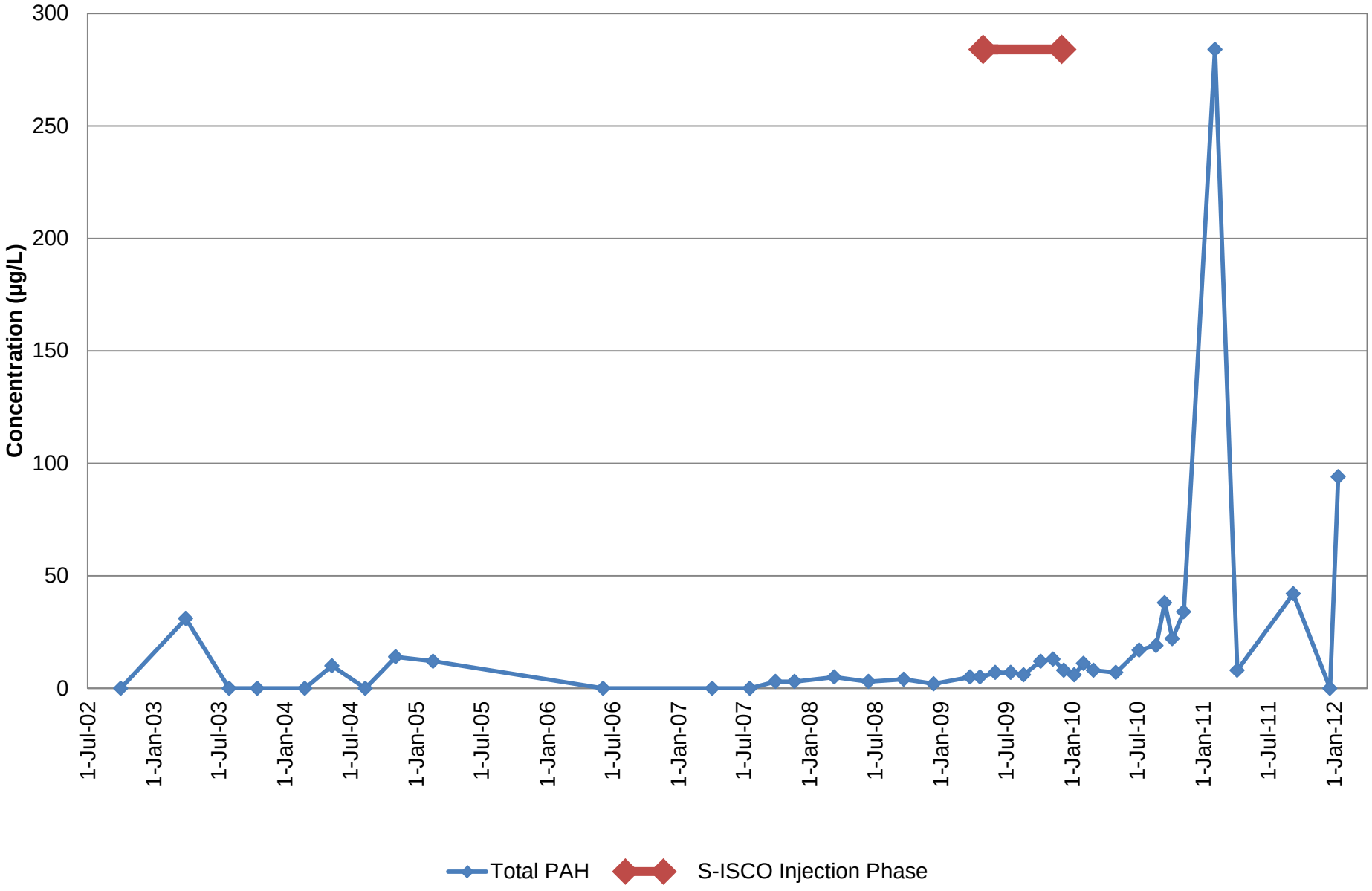


Monitoring Well WCMW-05S
1.15-11.15 ft bgs



Monitoring Well WCMW-05I
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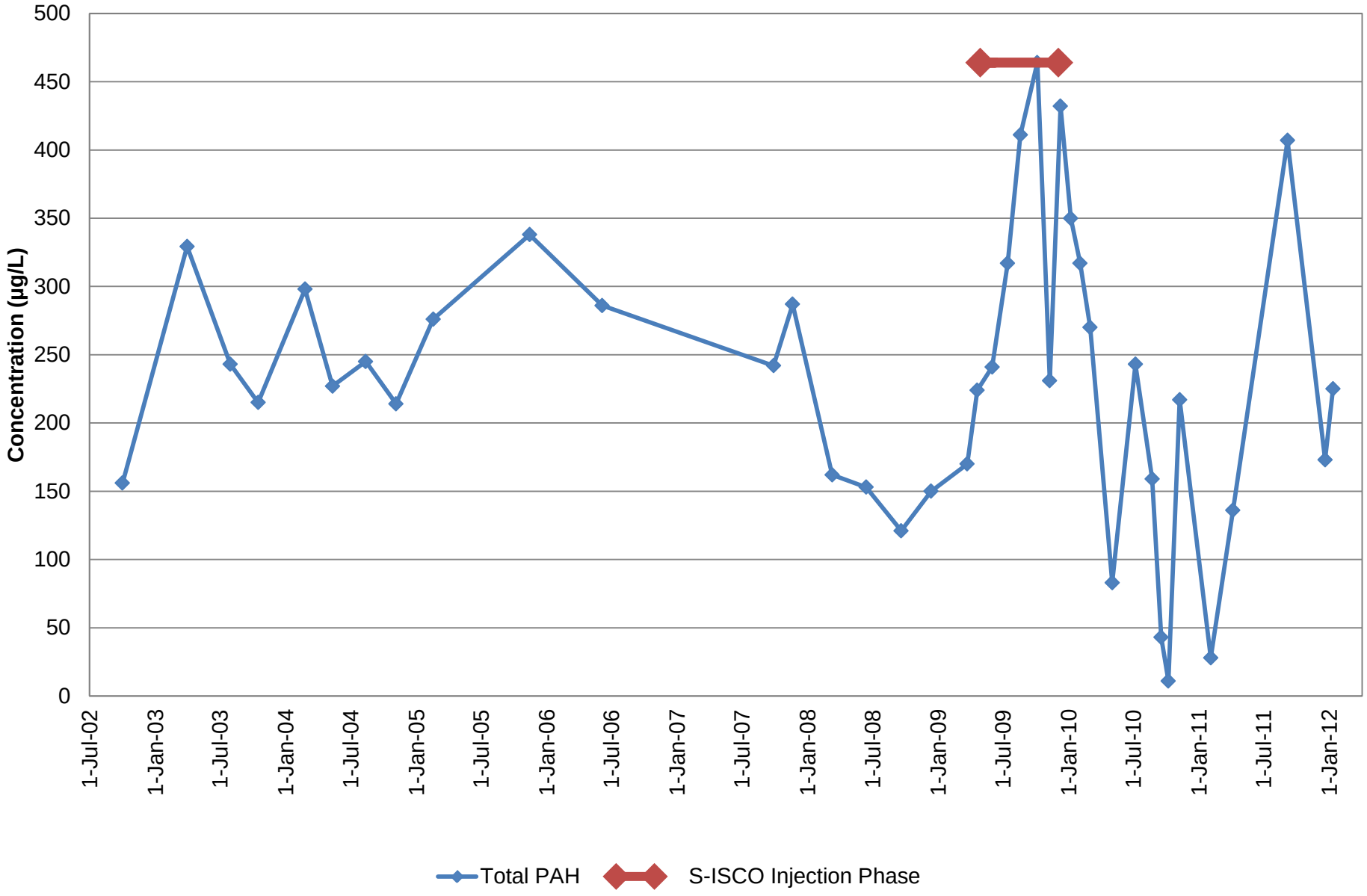

Monitoring Well WCMW-05I2
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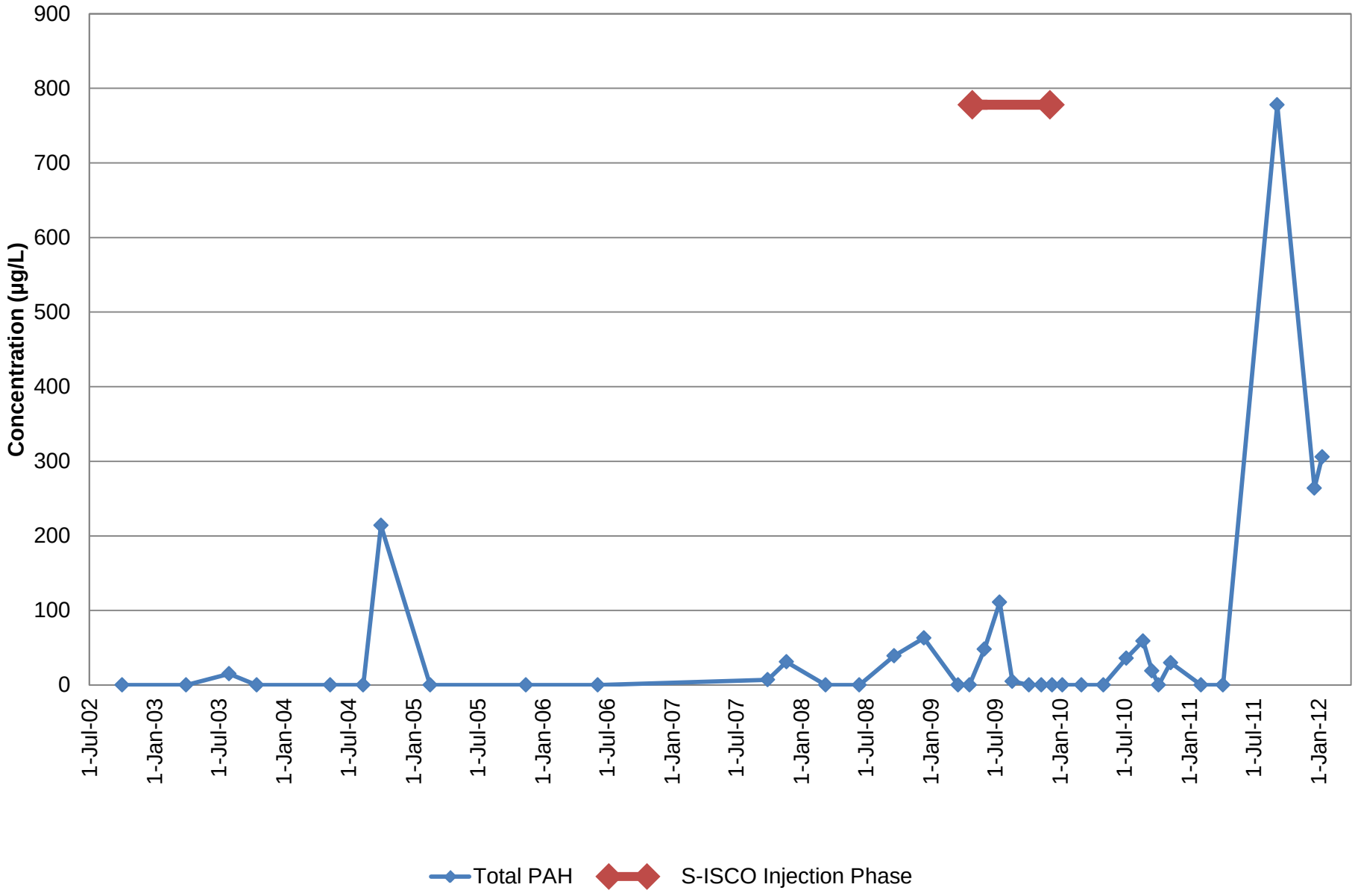
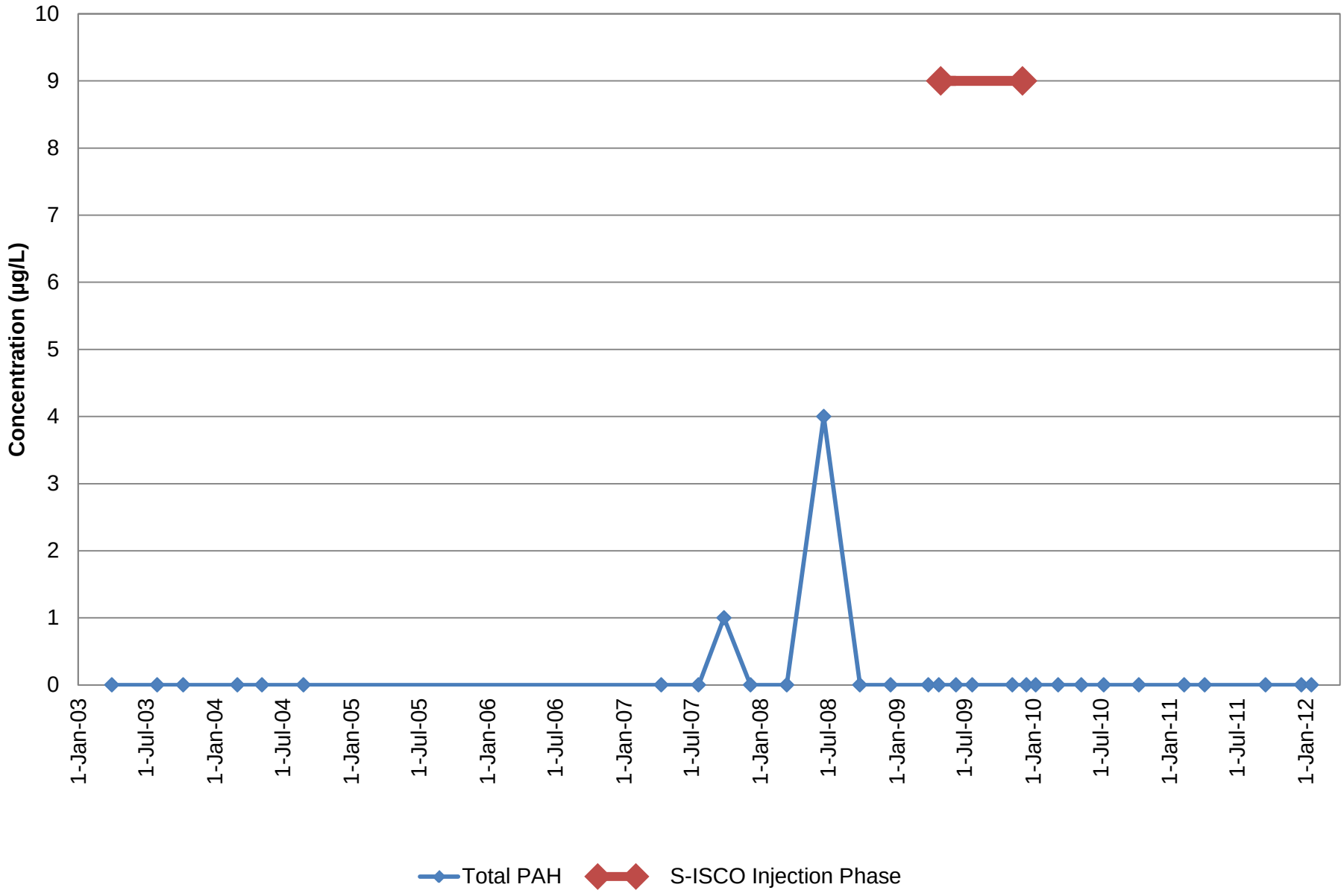
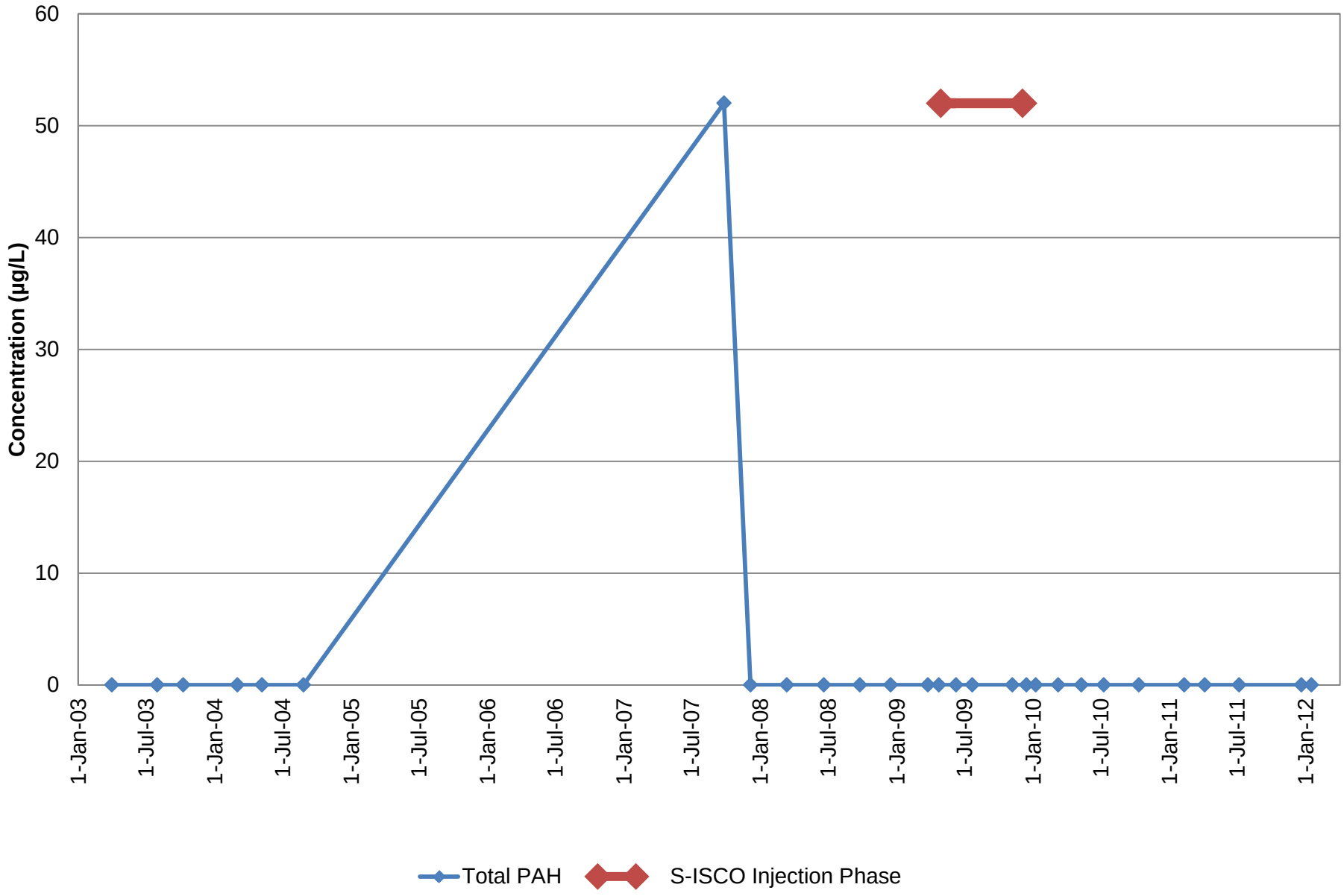


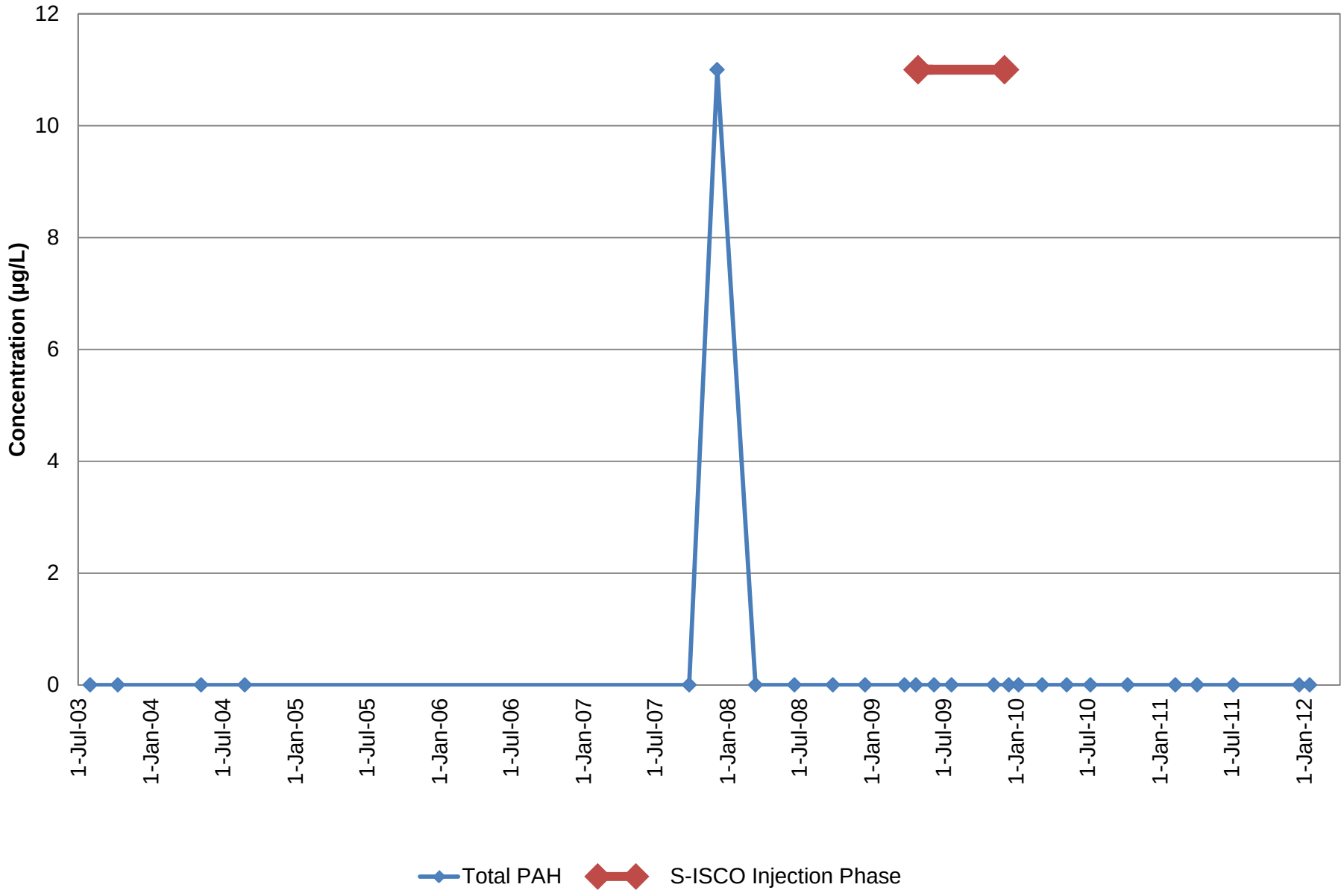
Monitoring Well WCMW-06S
2-12 ft bgs



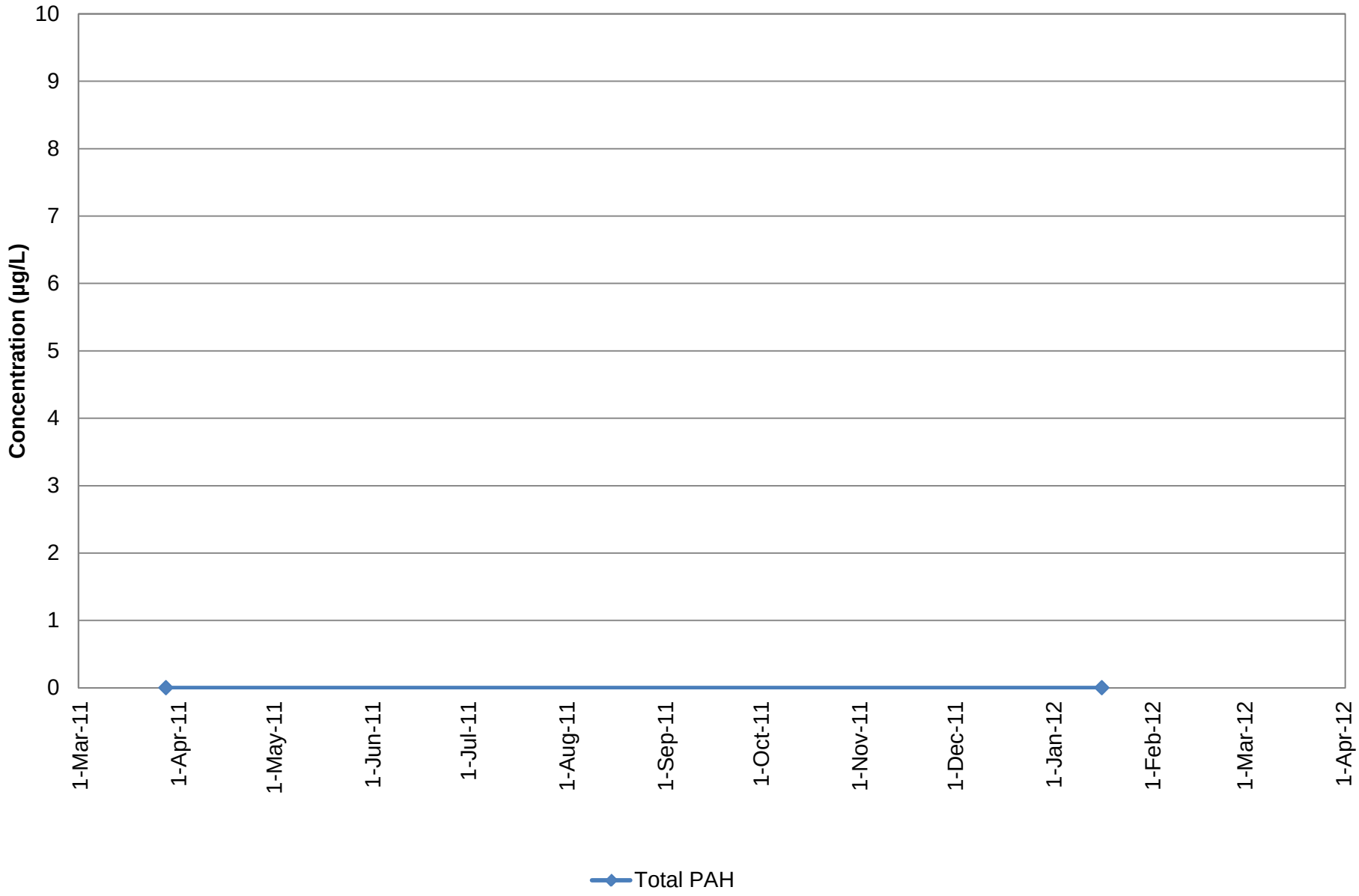
Monitoring Well WCMW-06I
19.55-24.55 ft bgs



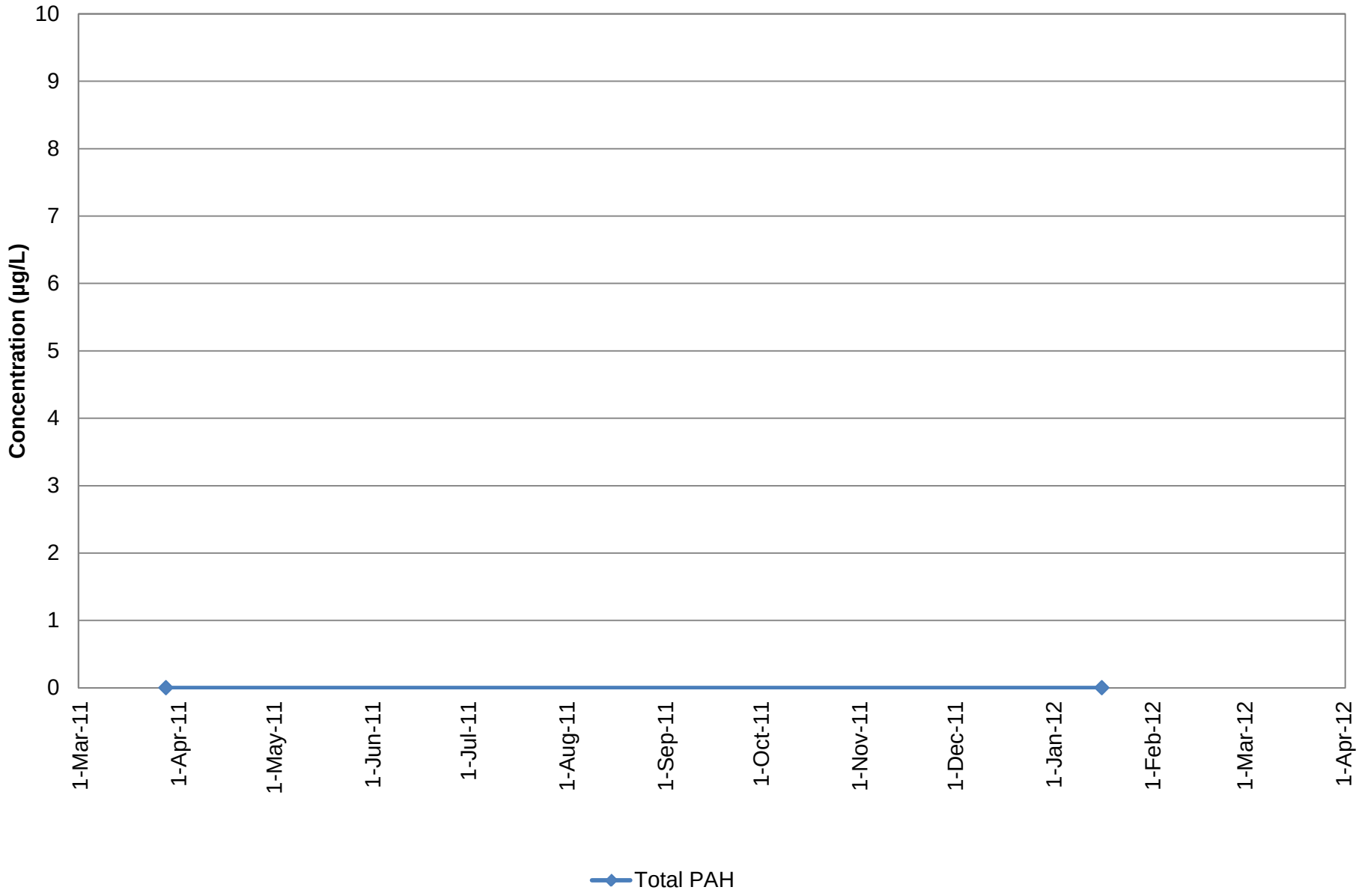
Monitoring Well WCMW-06I2
29.83-34.83 ft bgs



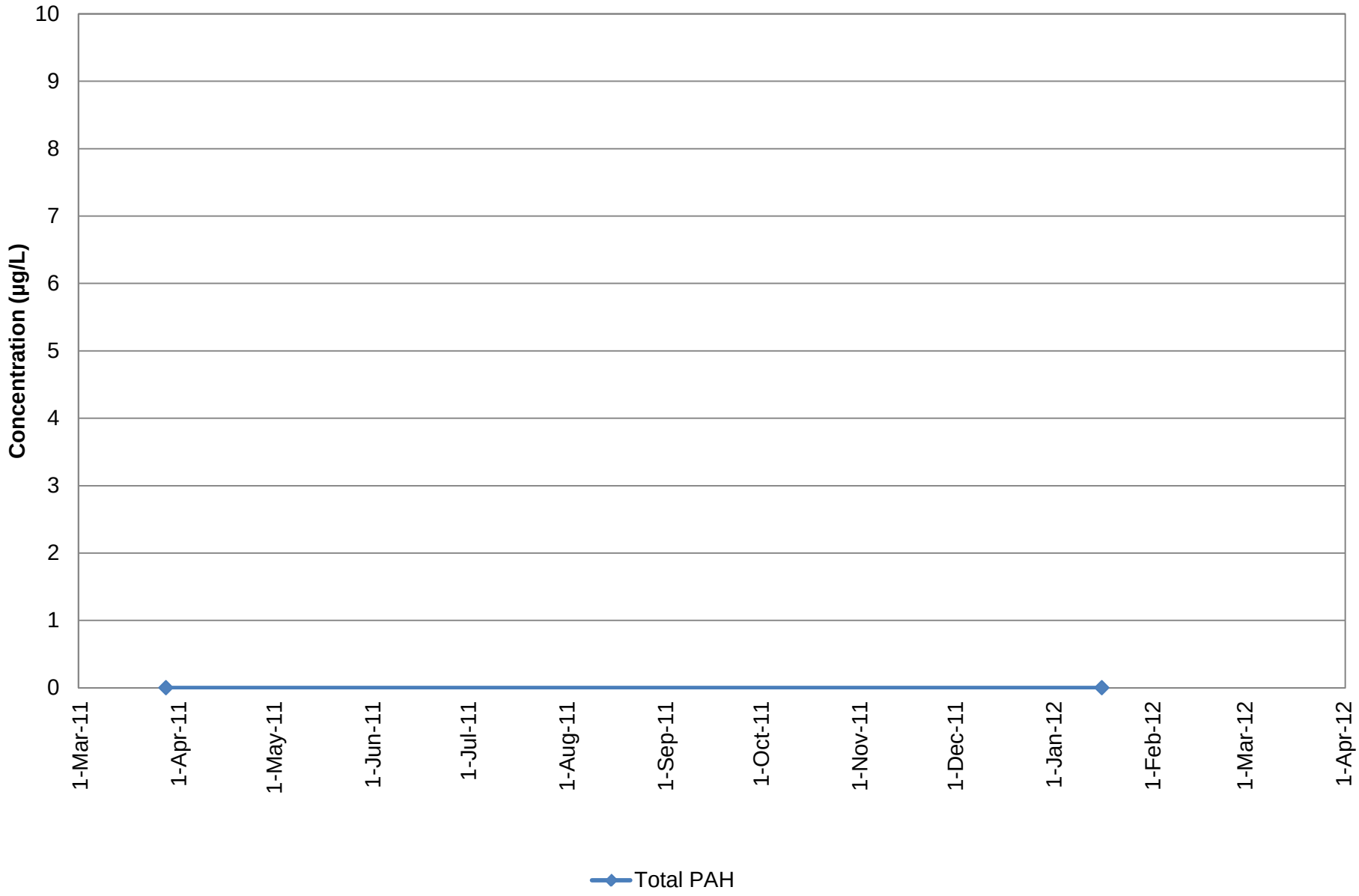
Monitoring Well WCMW-07S
2.76-12.76 ft bgs



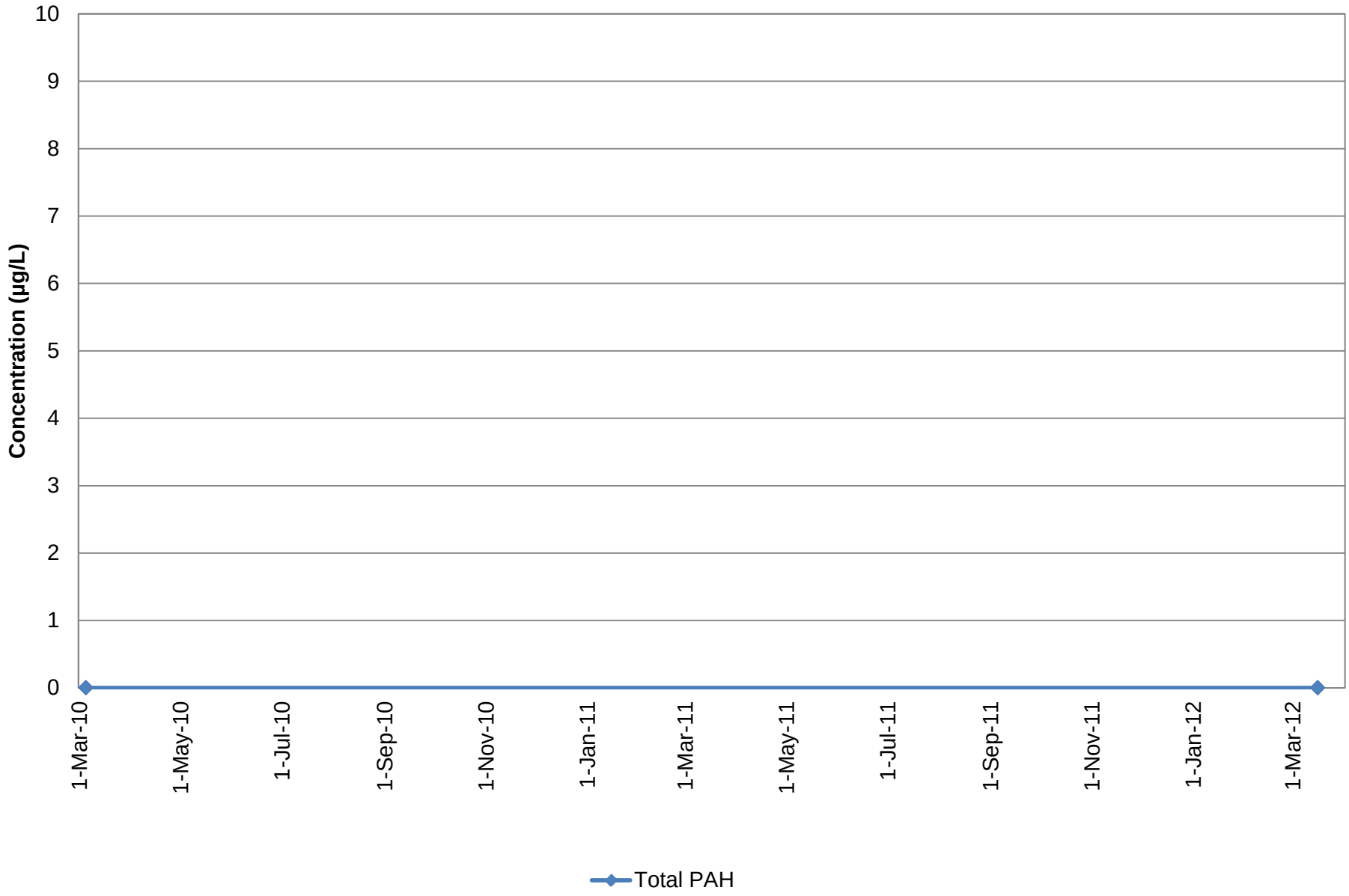
Monitoring Well WCMW-07I
18.9-23.9 ft bgs



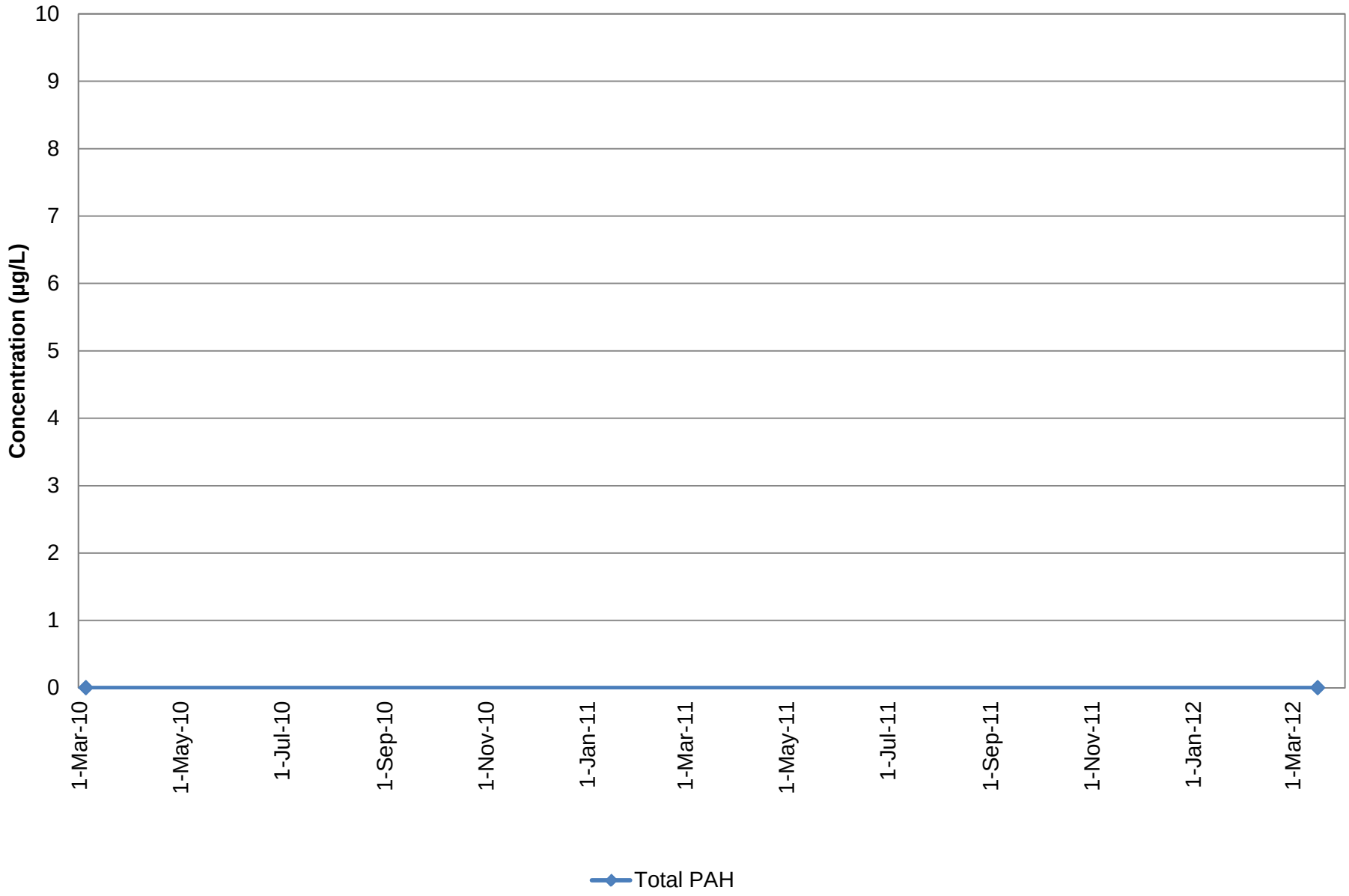
Monitoring Well WCMW-07I2
28.95-33.95 ft bgs



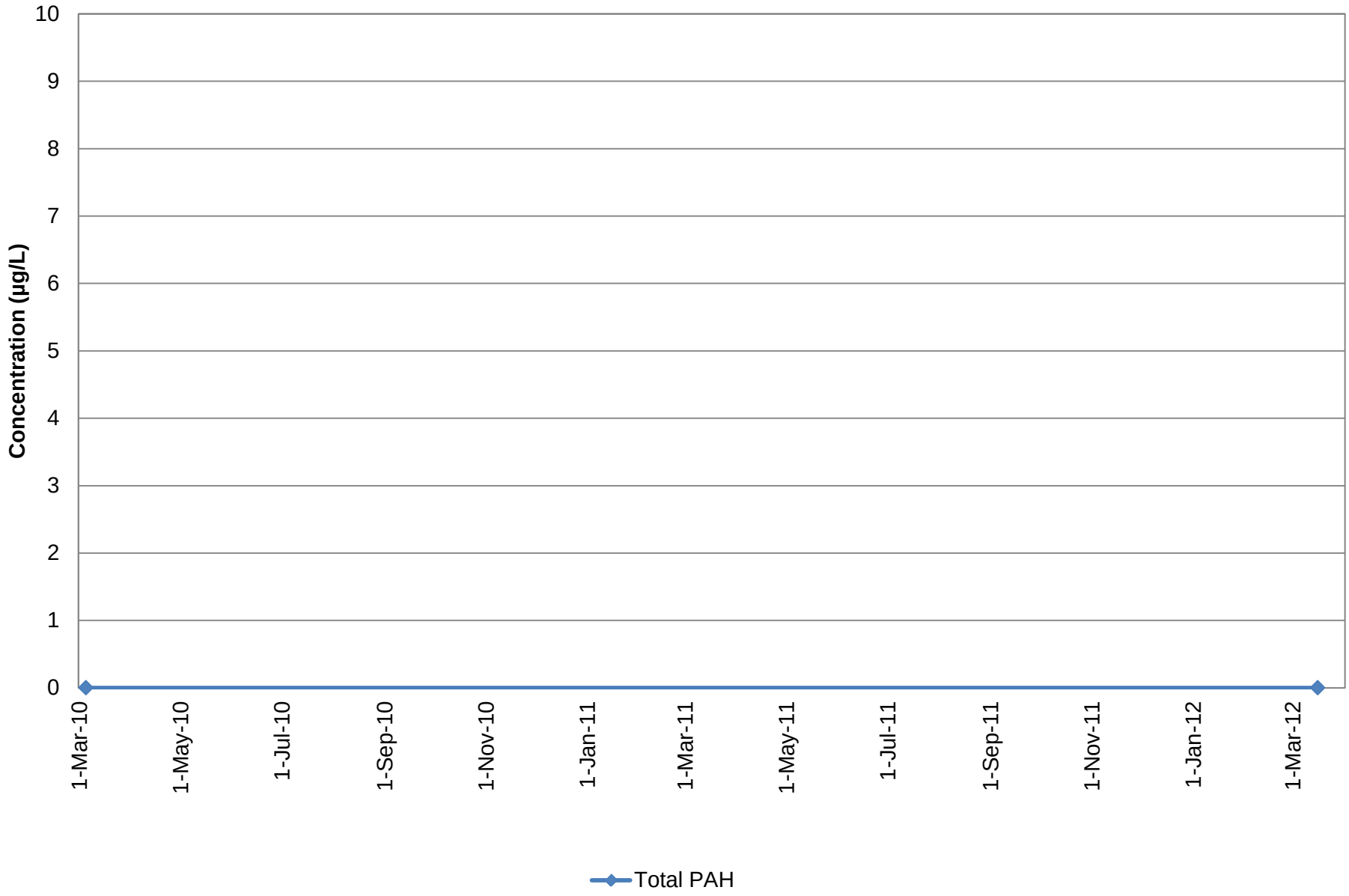
Monitoring Well WCMW-08S
4.2-9.2 ft bgs



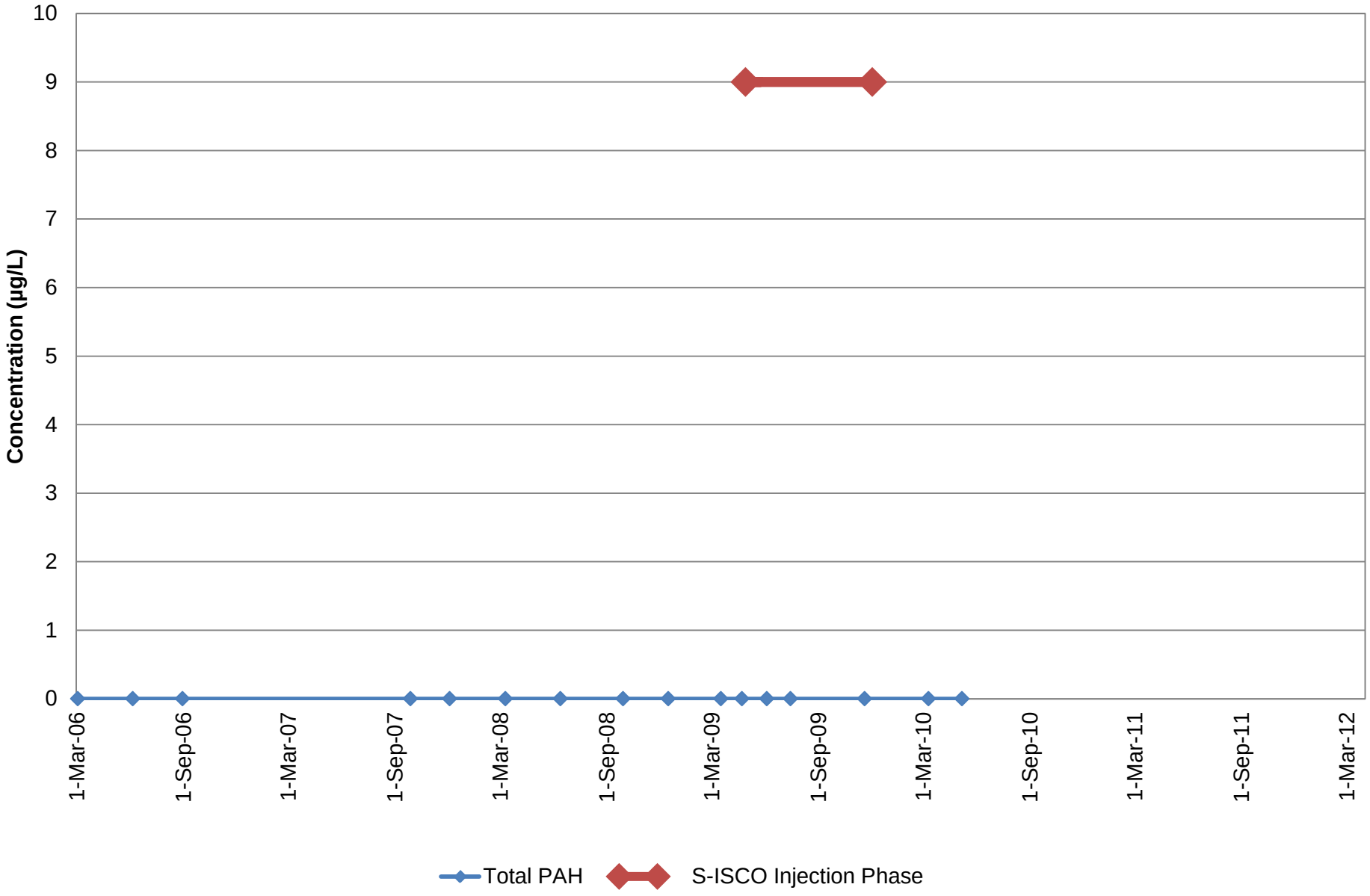
Monitoring Well WCMW-08I
19.2-24.2 ft bgs



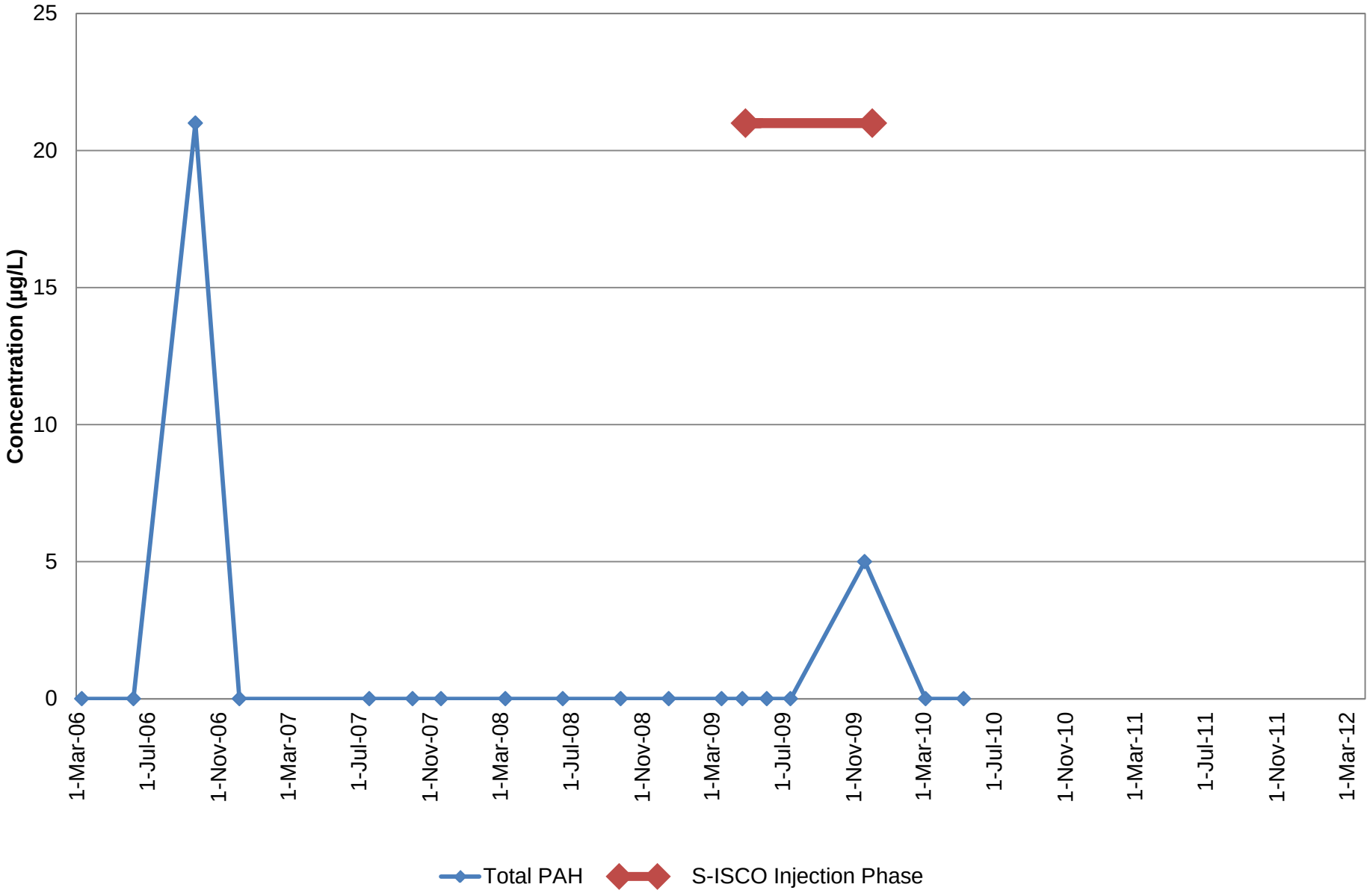
Monitoring Well WCMW-08I2
26.9 - 31.9 ft bgs



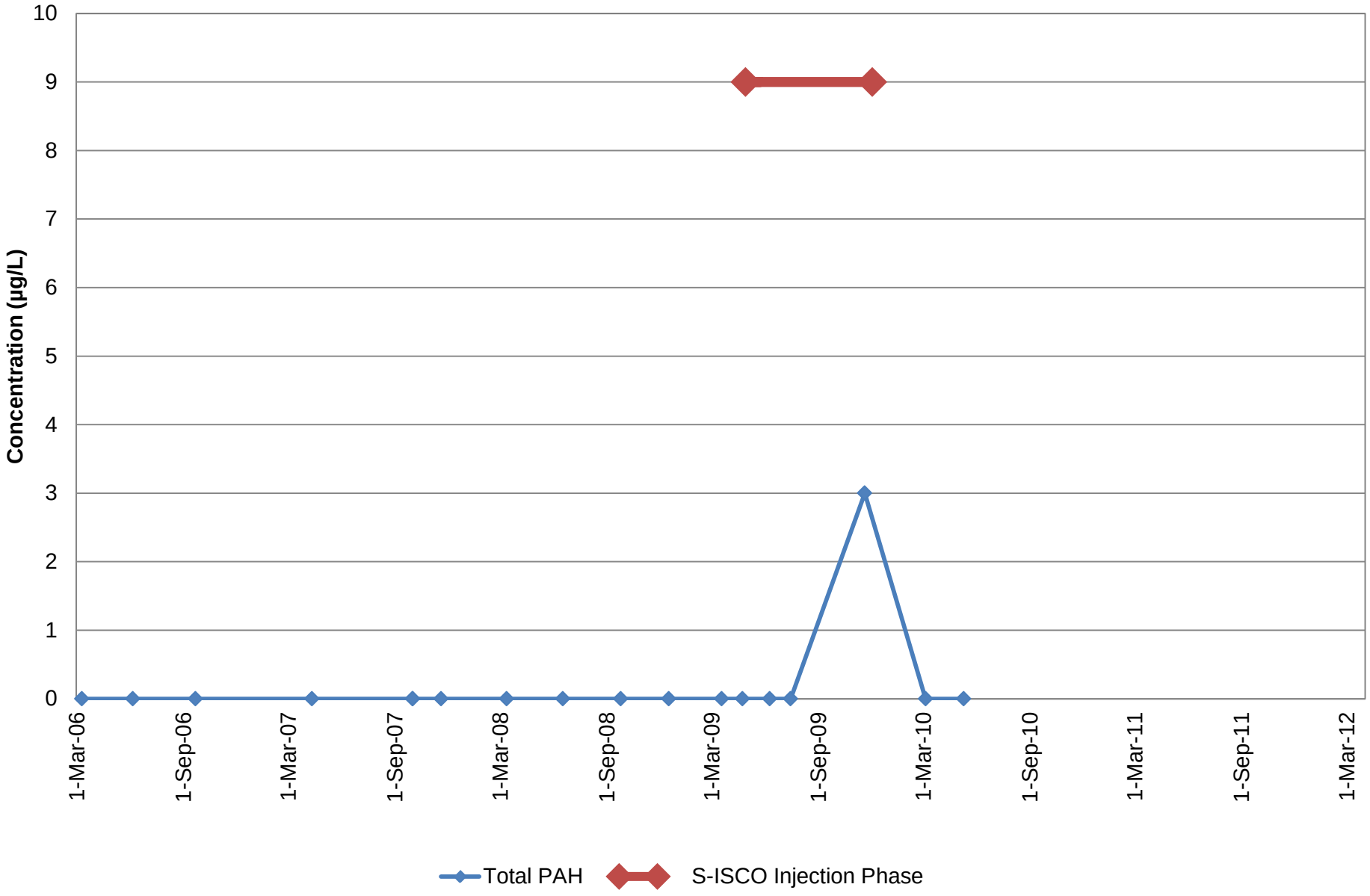
Monitoring Well WCMW-09S
5-15 ft bgs



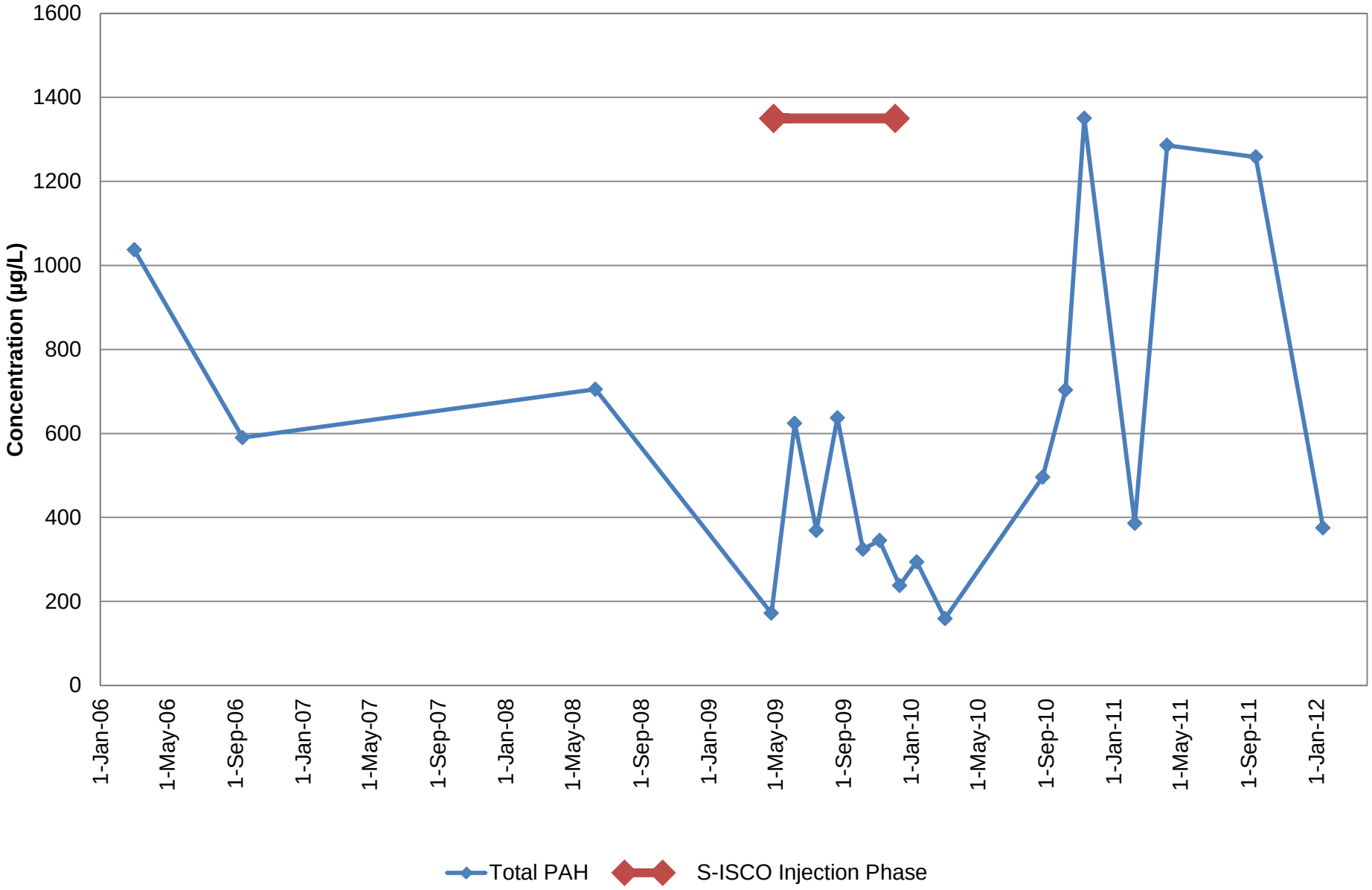
Monitoring Well WCMW-10S
15-20 ft bgs



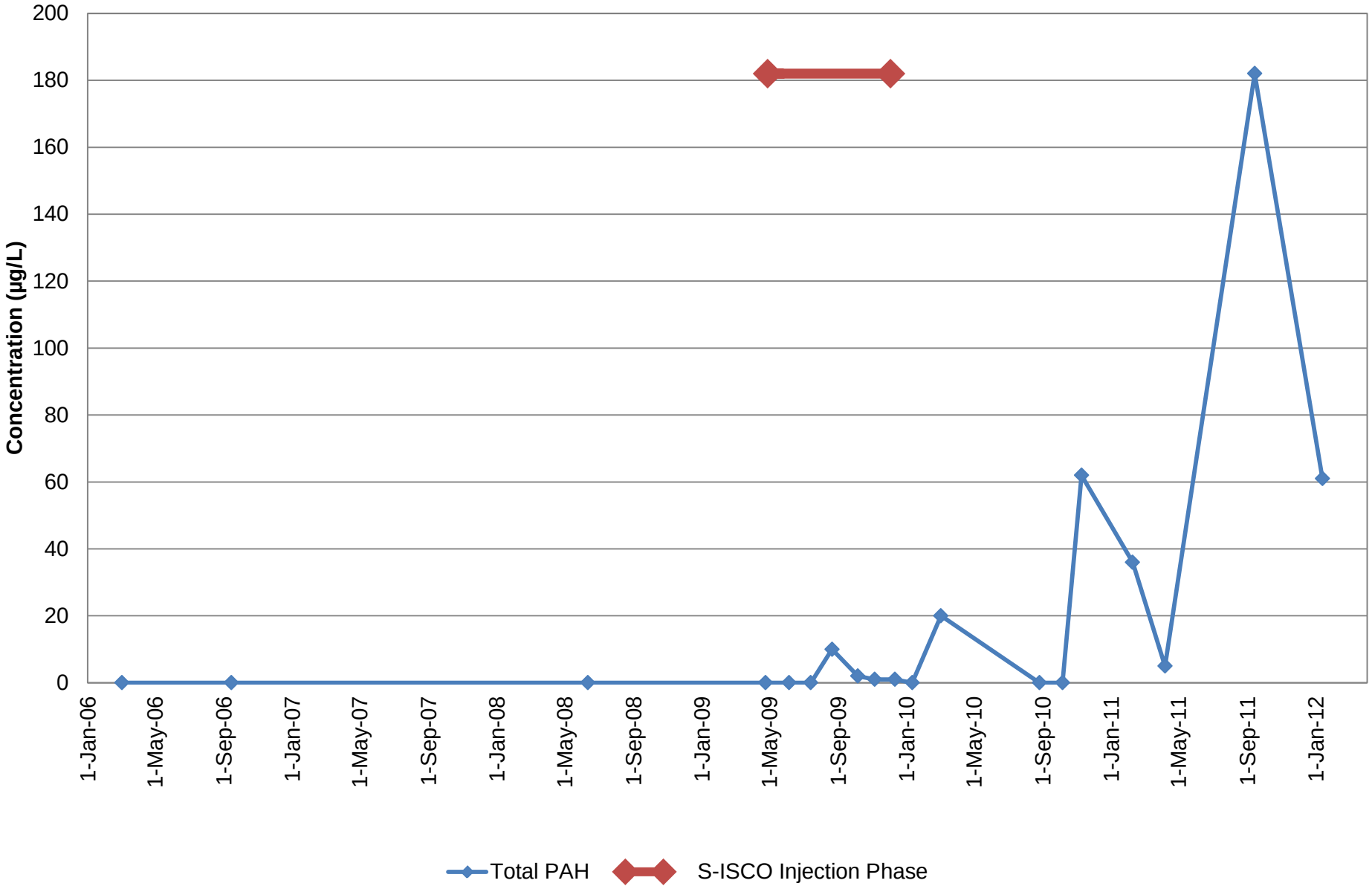
Monitoring Well WCMW-10D
40-50 ft bgs



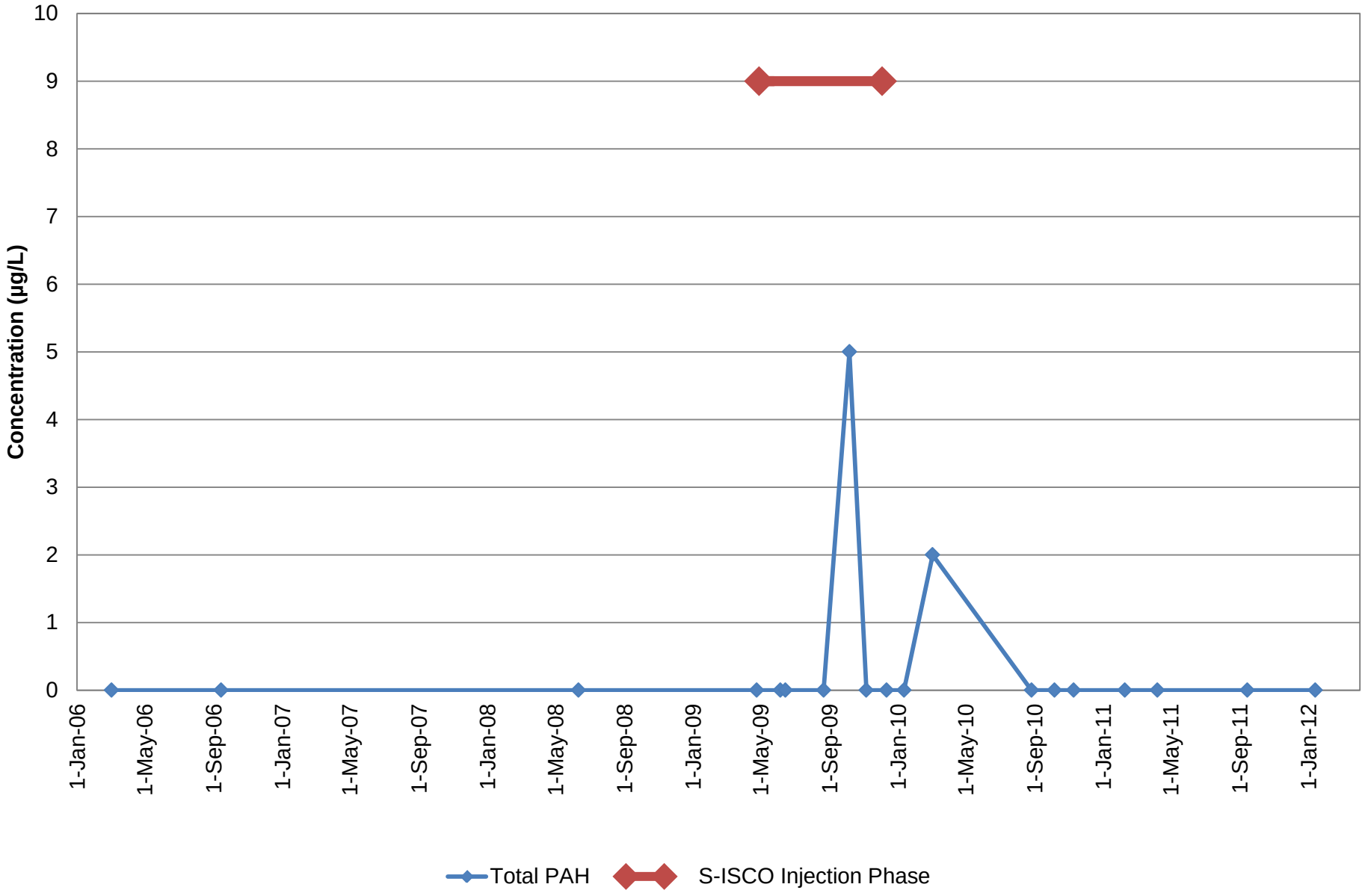
Monitoring Well WCMW-11S
5-15 ft bgs



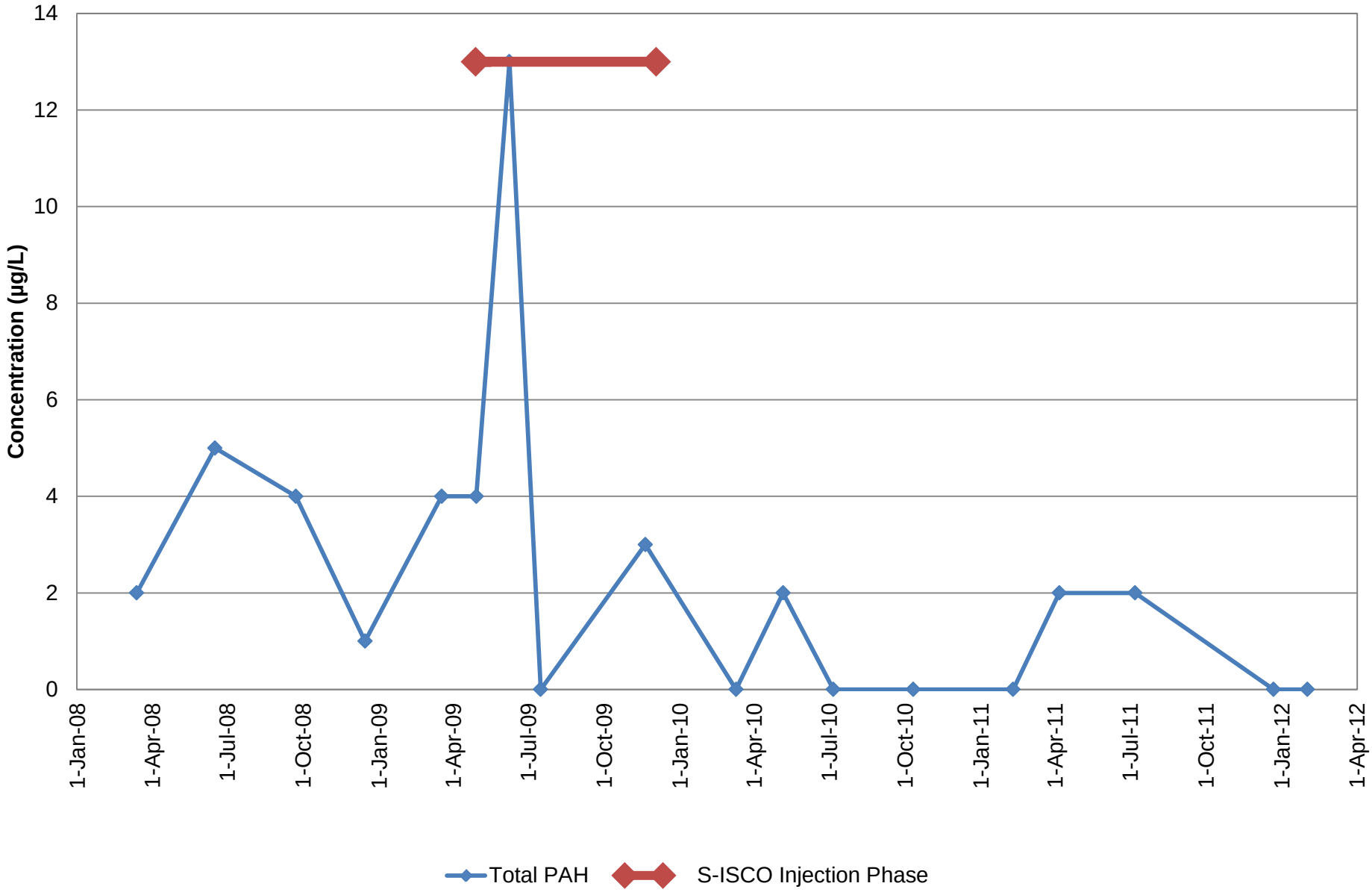
Monitoring Well WCMW-11I
25-35 ft bgs



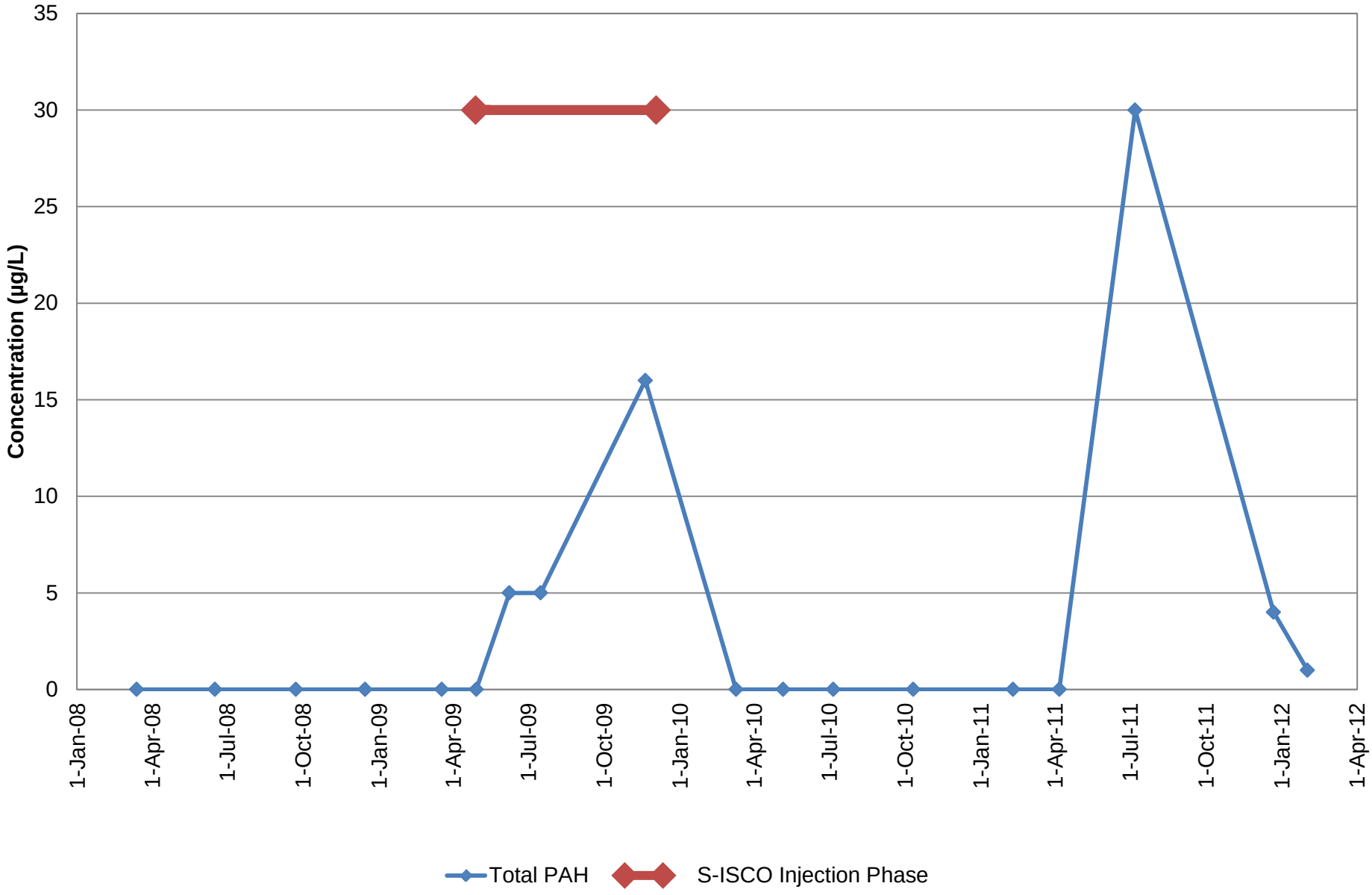
Monitoring Well WCMW-11D
50-60 ft bgs



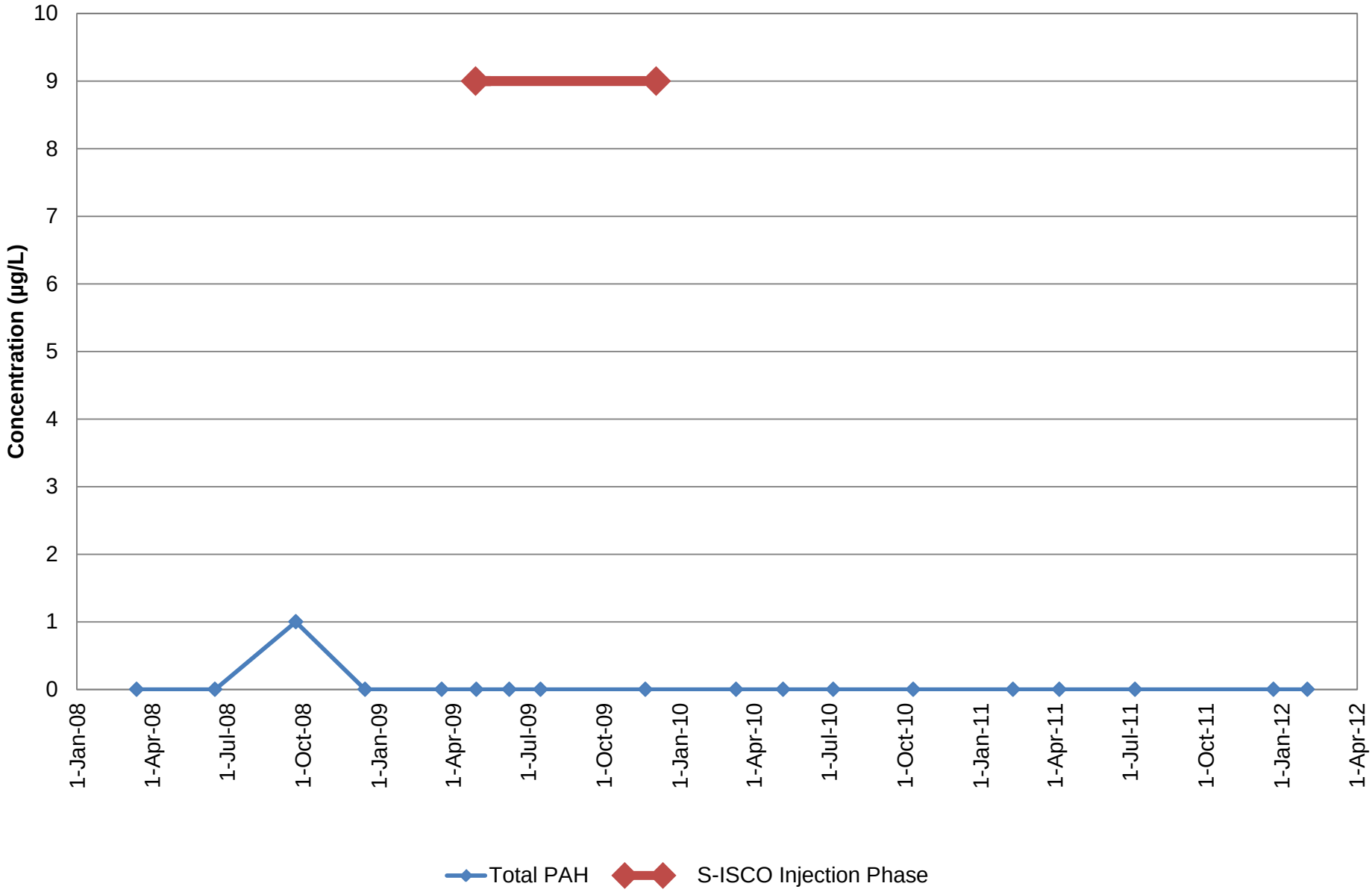
Monitoring Well WCMW-12S
3-13 ft bgs



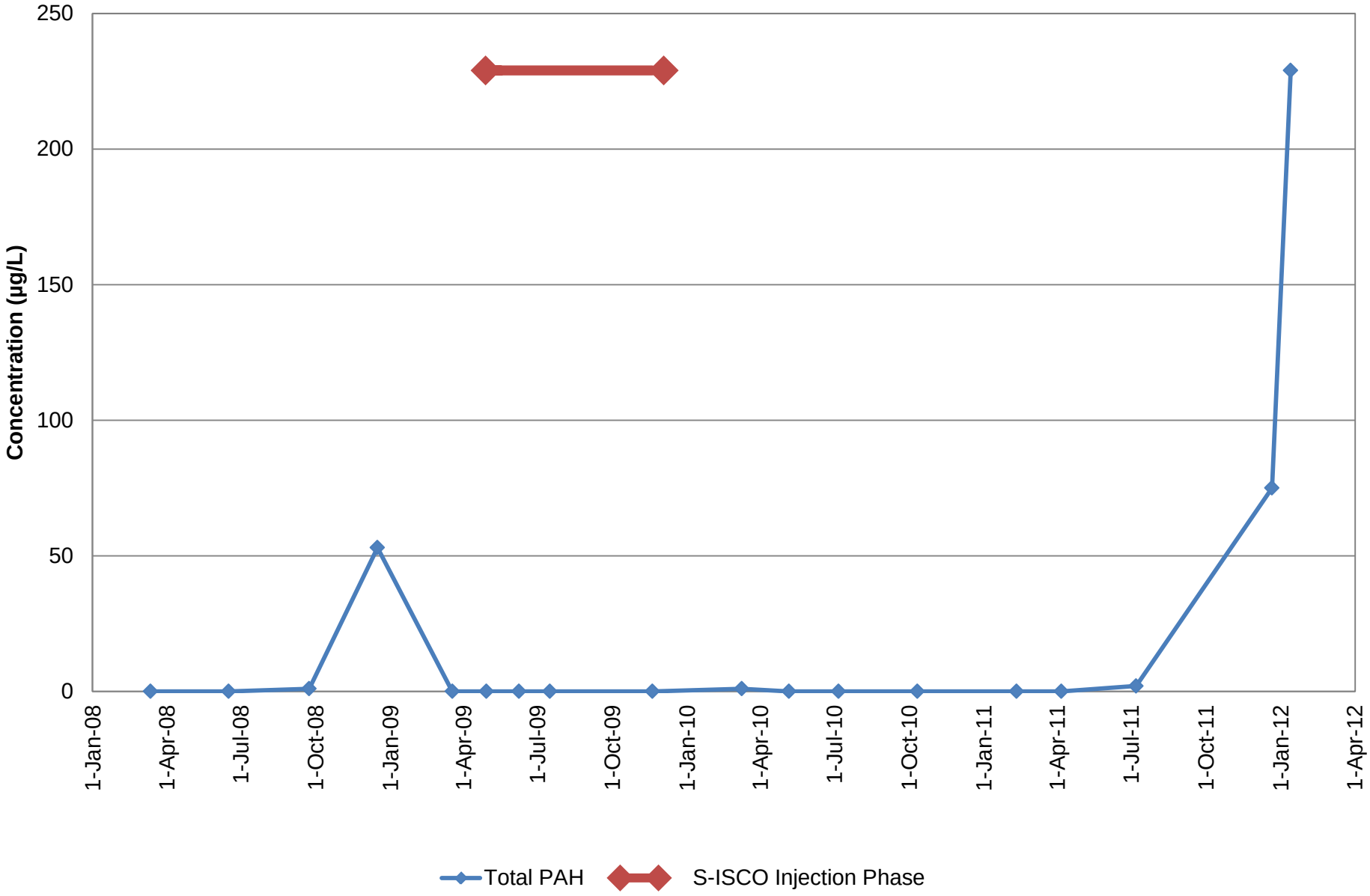
Monitoring Well WCMW-12I
25-30 ft bgs



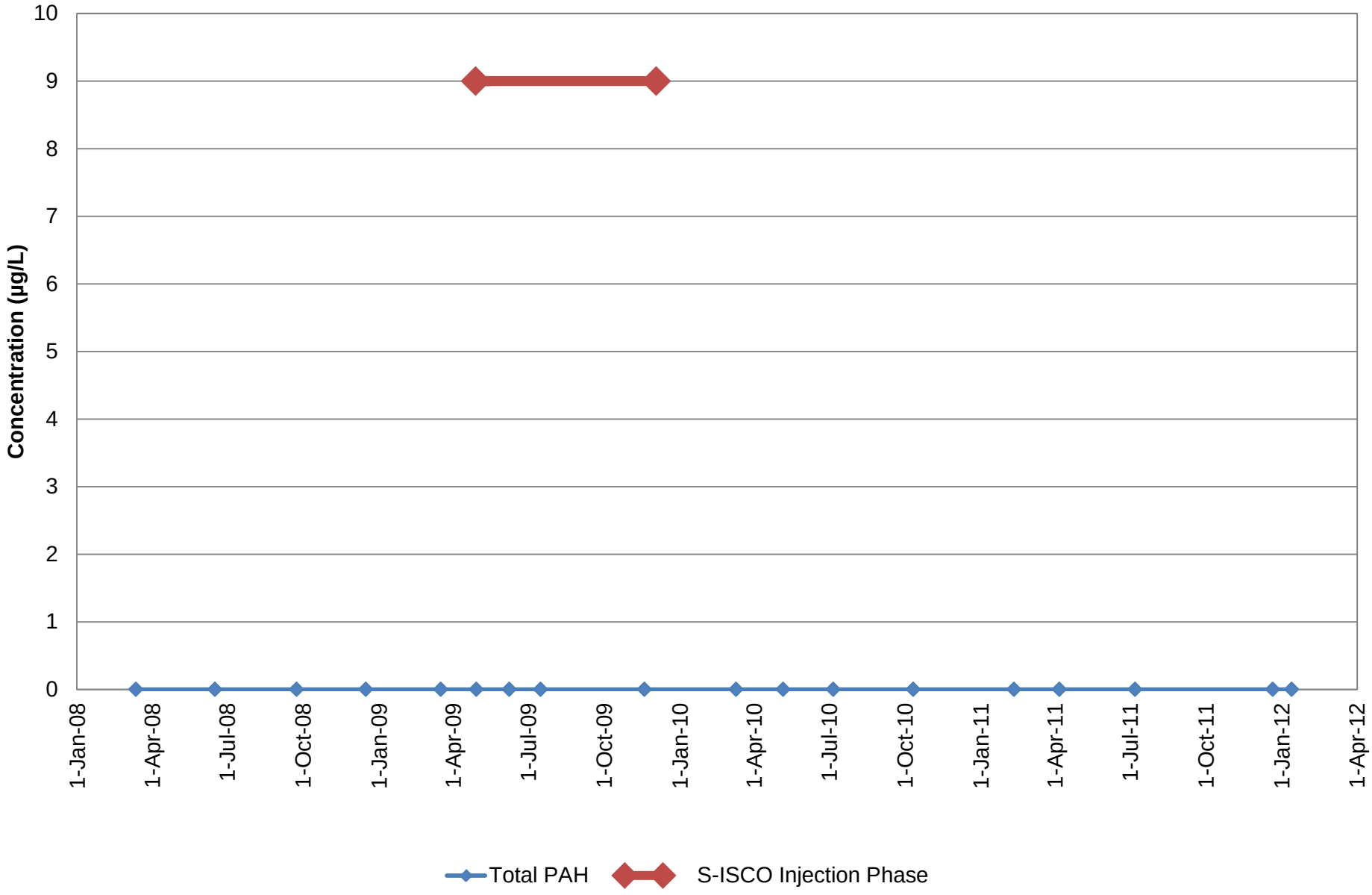
Monitoring Well WCMW-12D
62-72 ft bgs



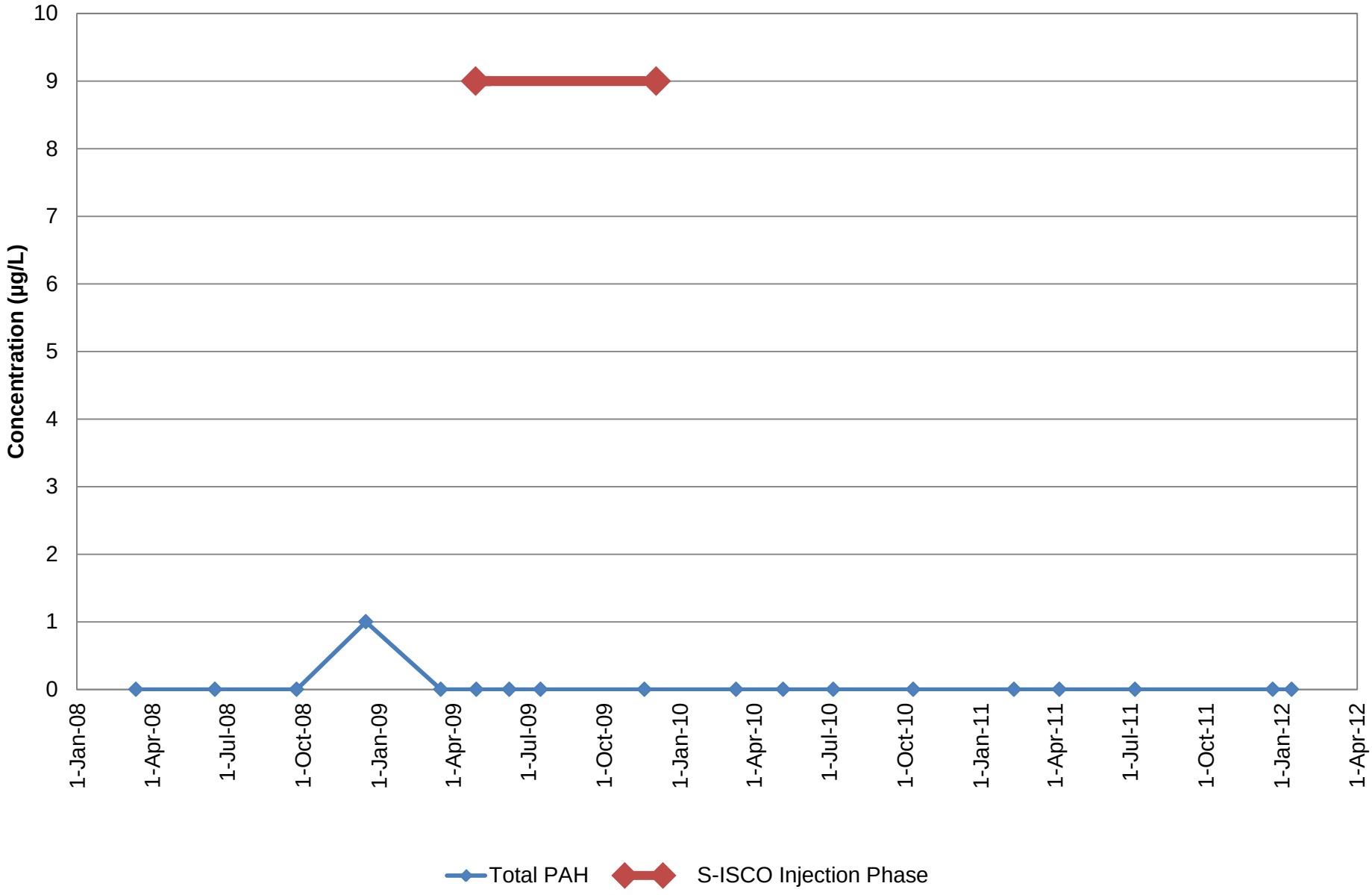
Monitoring Well WCMW-13S
3-13 ft bgs



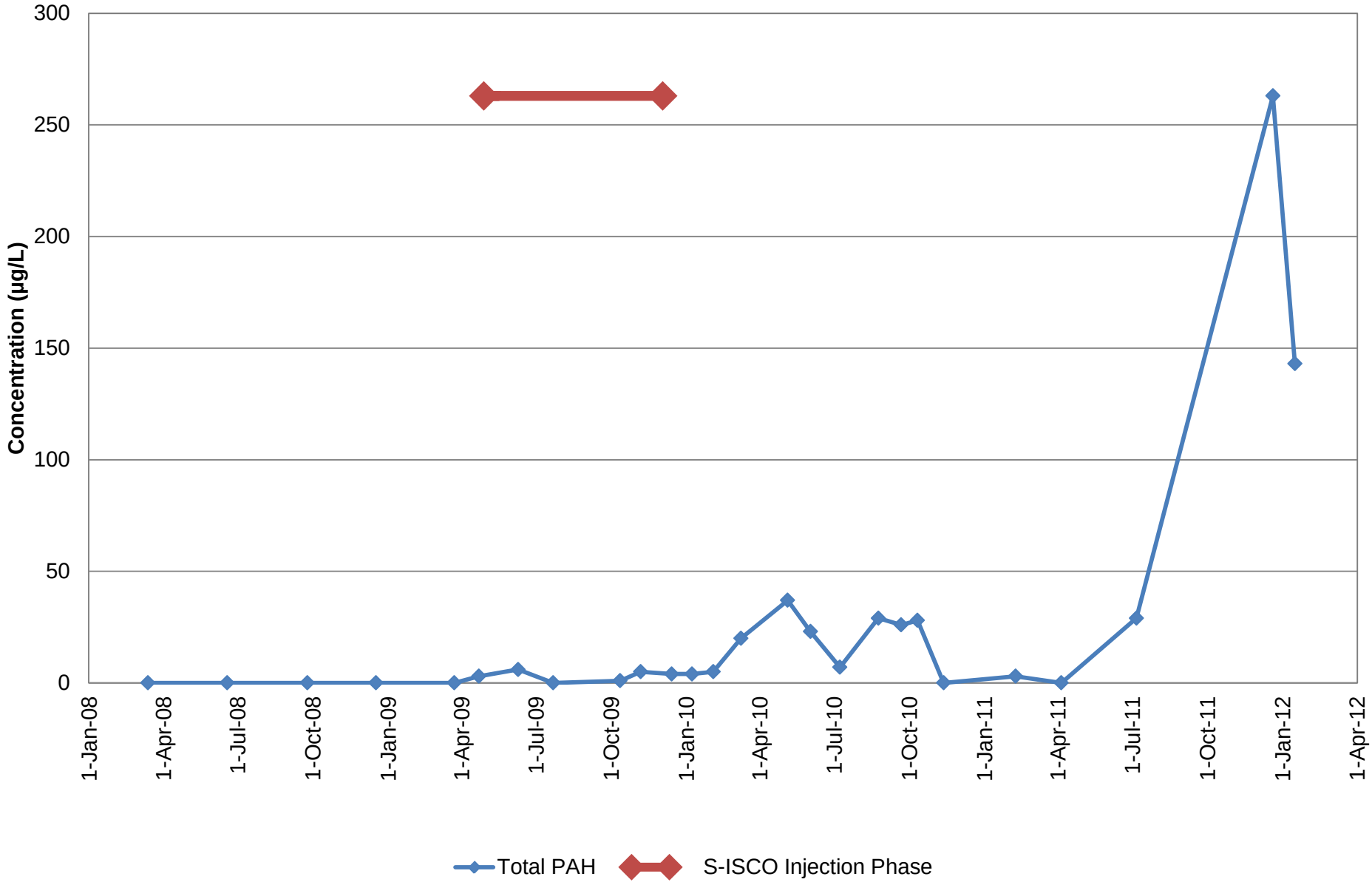
Monitoring Well WCMW-13I
25-30 ft bgs



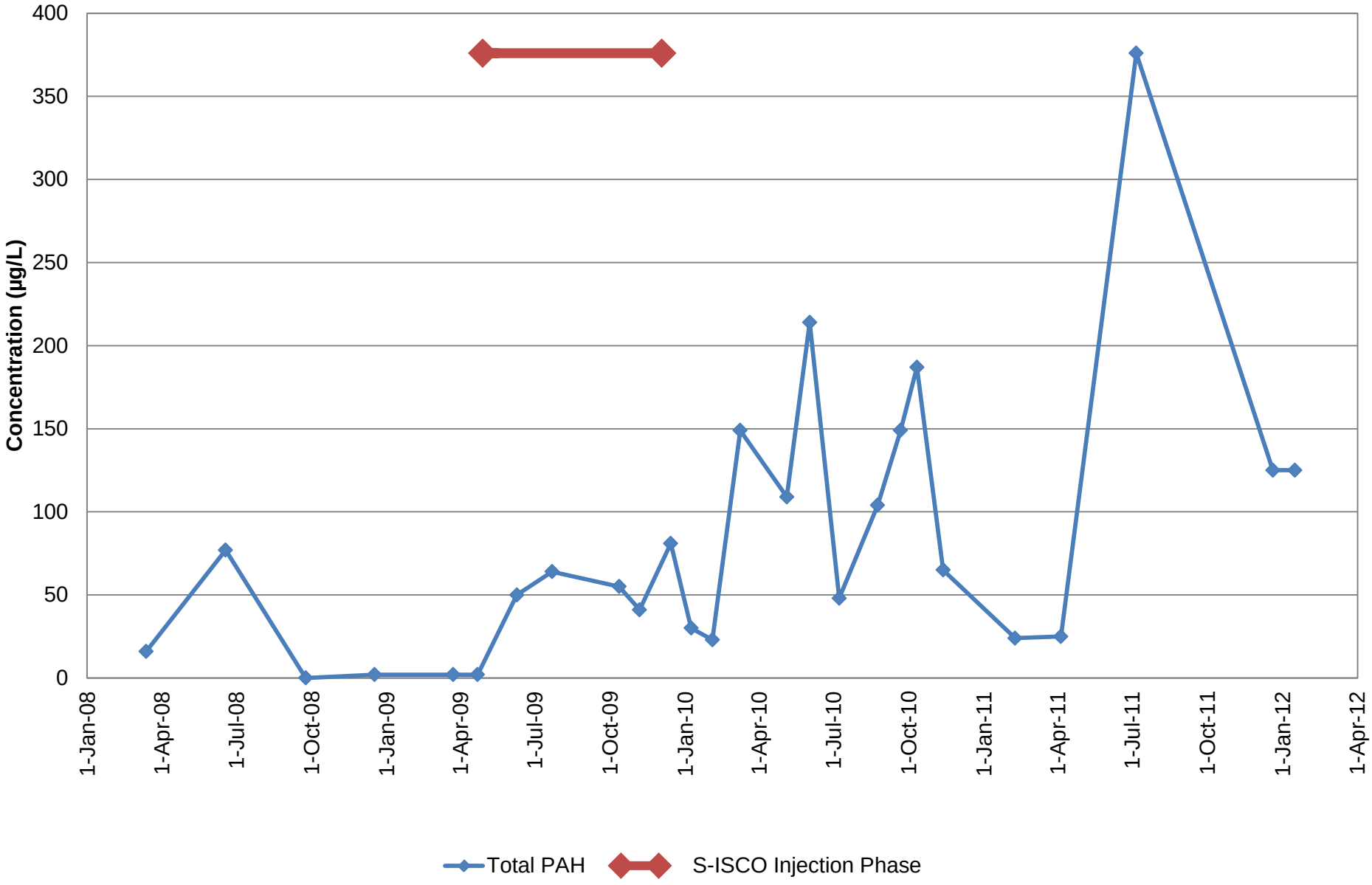
Monitoring Well WCMW-13D
65-70 ft bgs



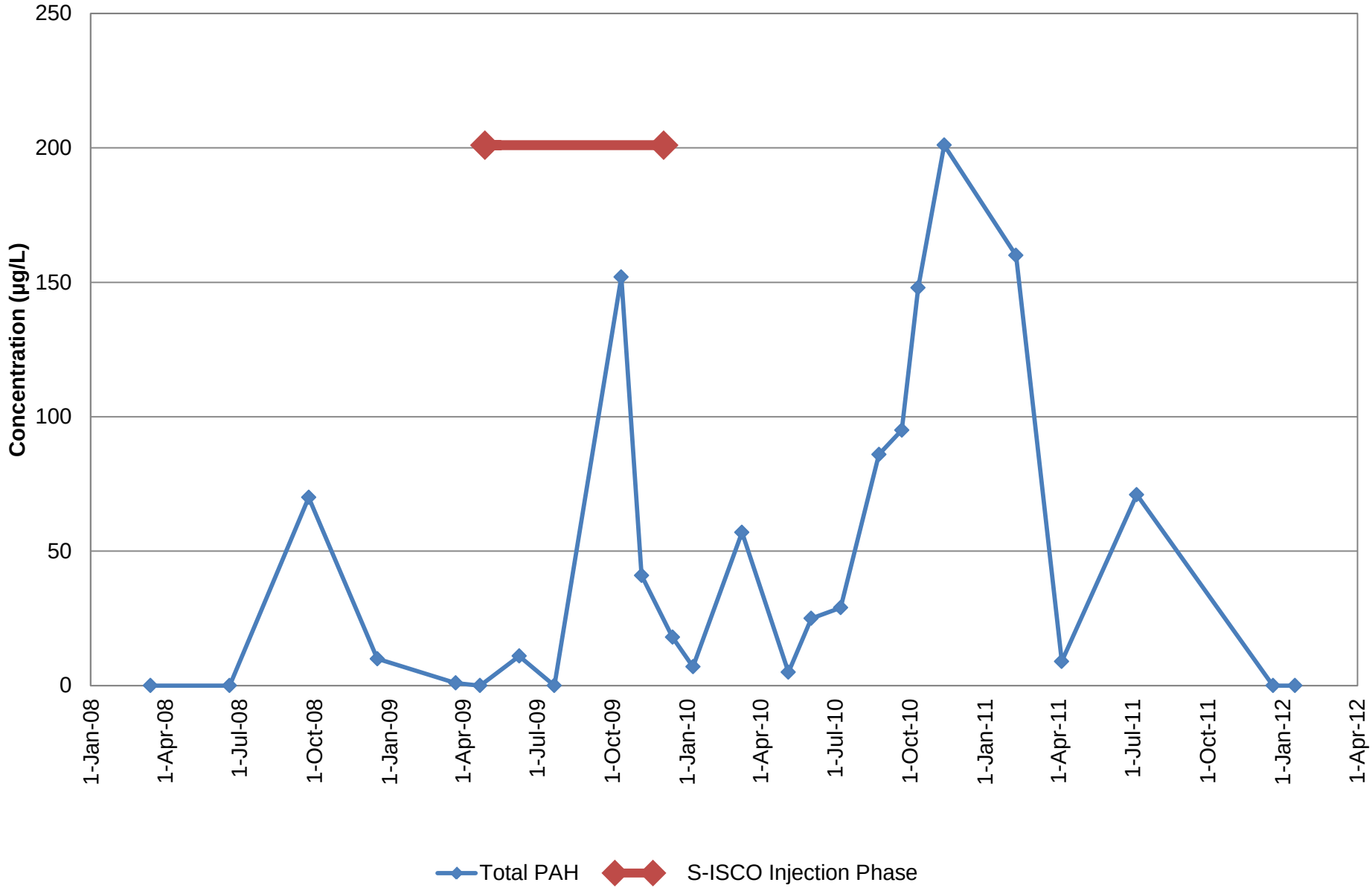
Monitoring Well WCMW-14S
2-12 ft bgs



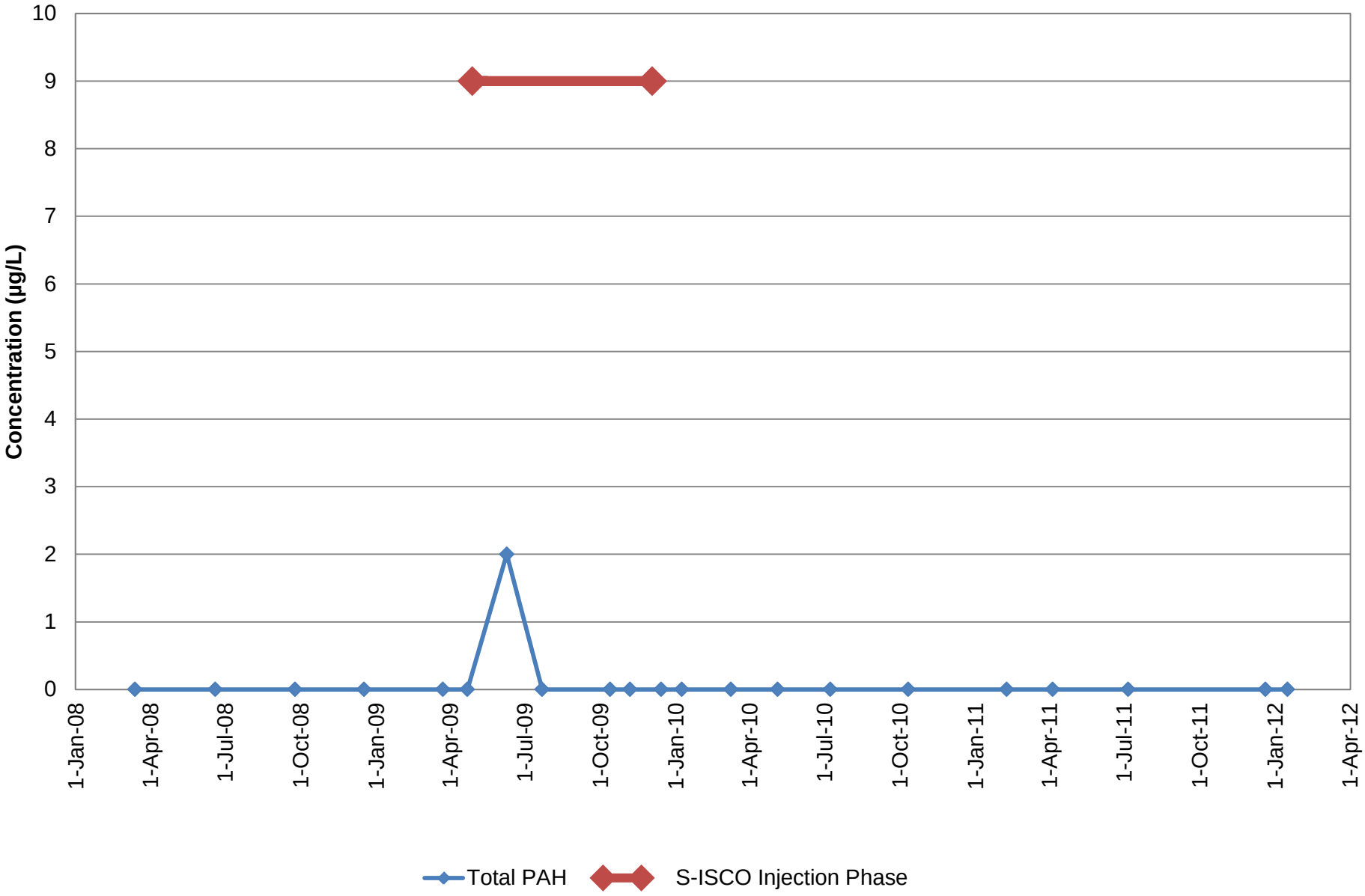
Monitoring Well WCMW-14I
20-25 ft bgs



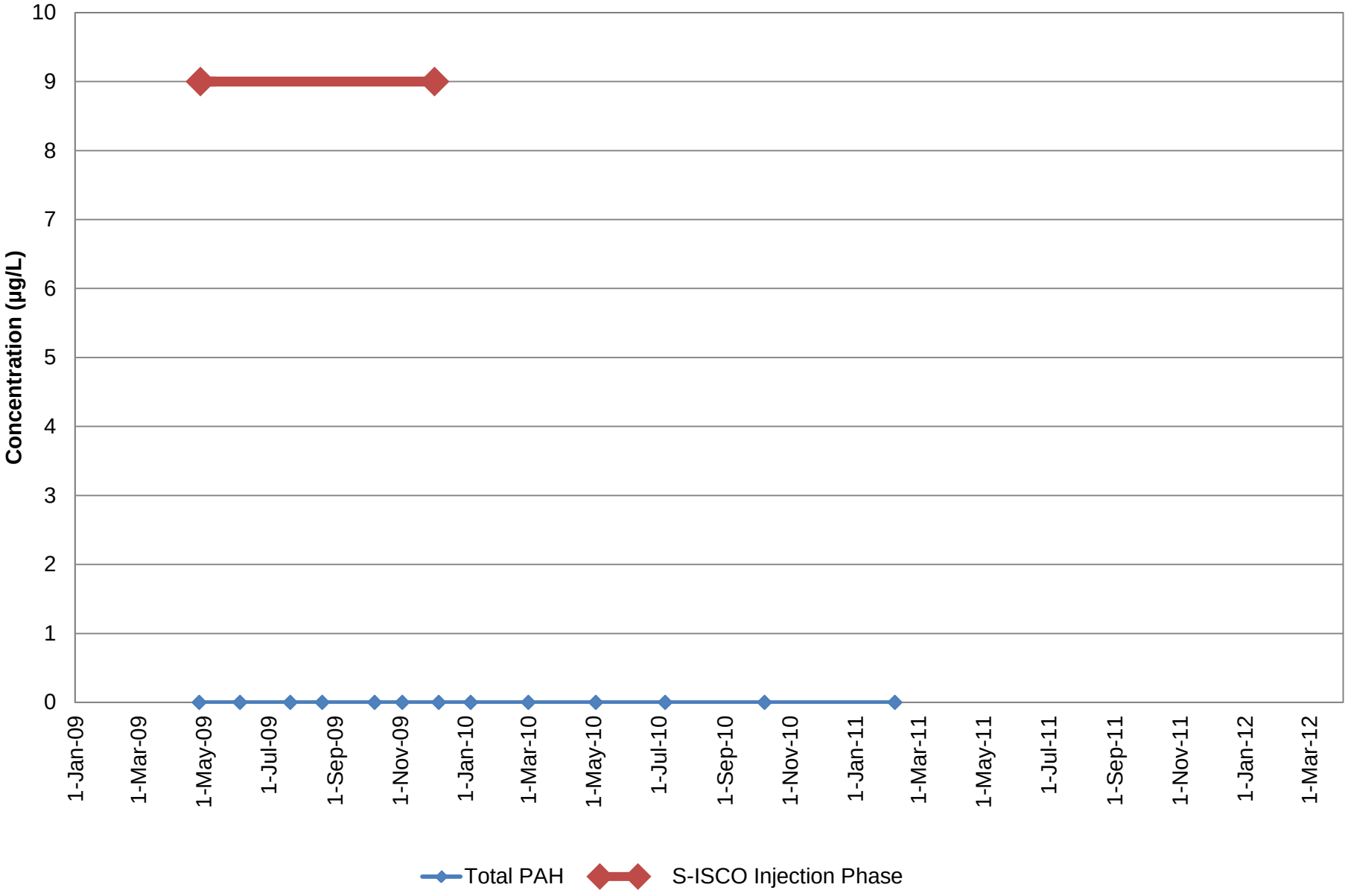
Monitoring Well WCMW-14I2
30-35 ft bgs



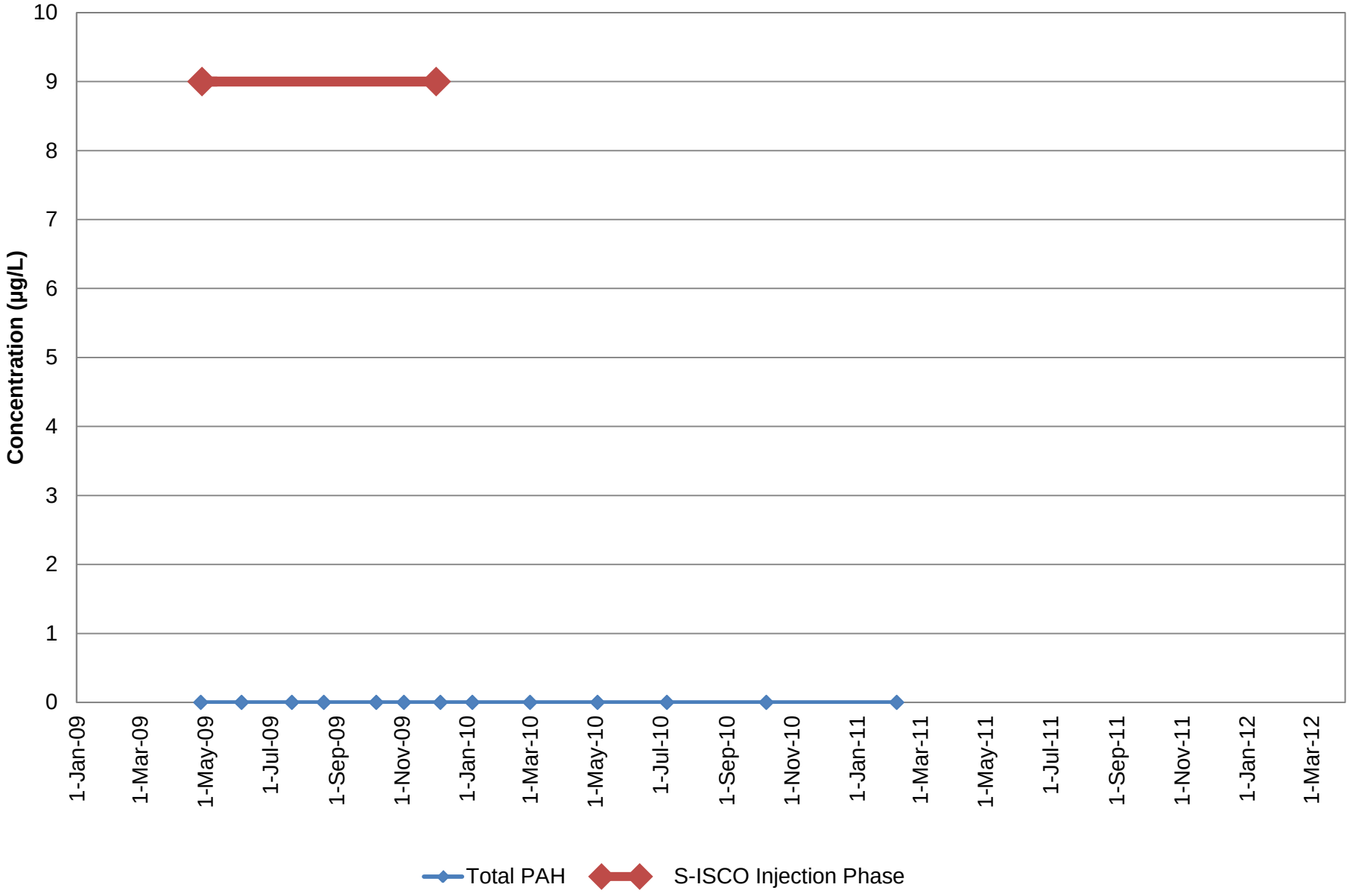
Monitoring Well WCMW-14D
67-72 bgs



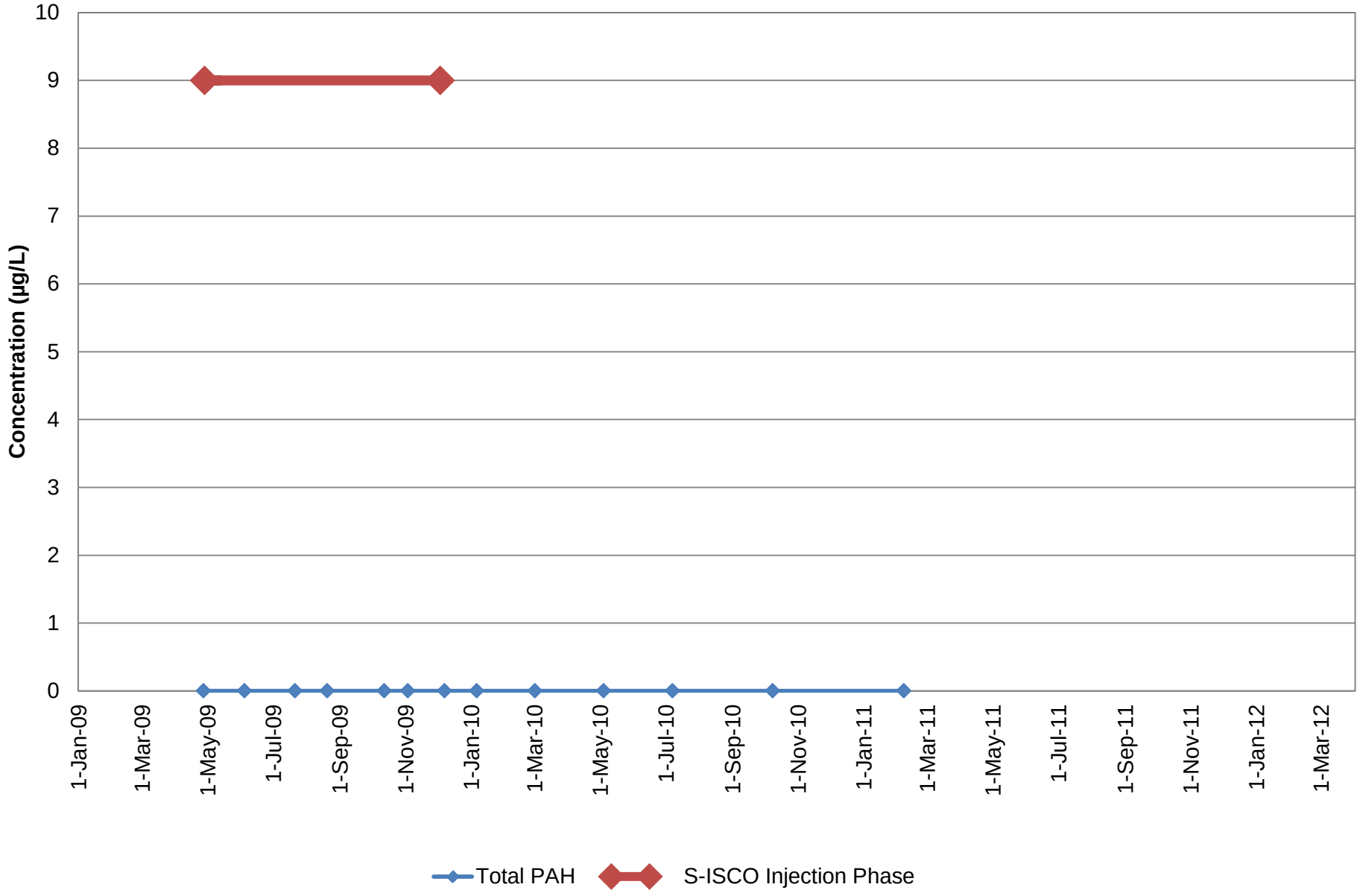
Monitoring Well WCMW-18WT
2-7 ft bgs



Monitoring Well WCMW-18S
2-12 ft bgs



Monitoring Well WCMW-18I
20-25 ft bgs



Monitoring Well WCMW-18I2
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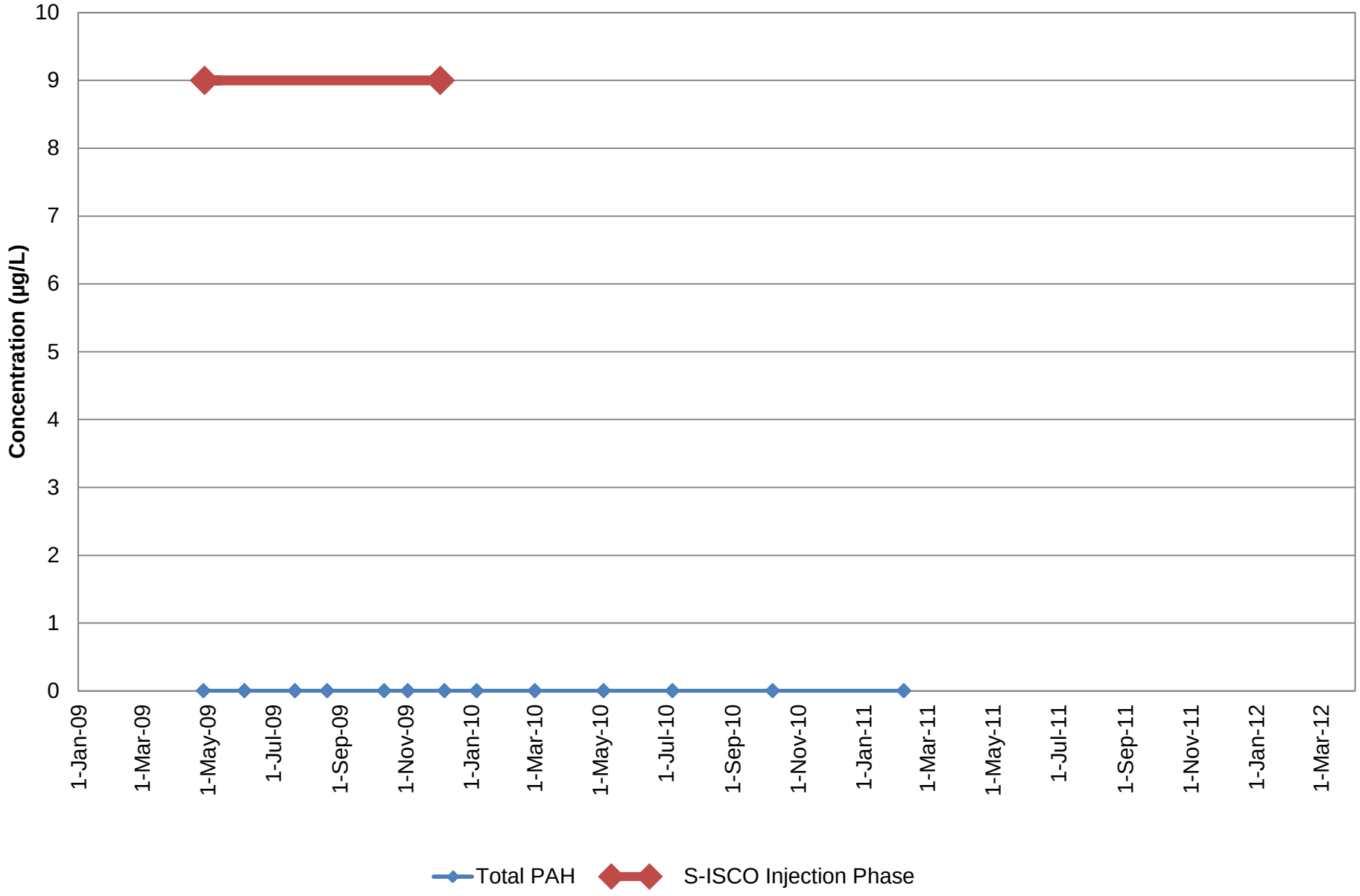
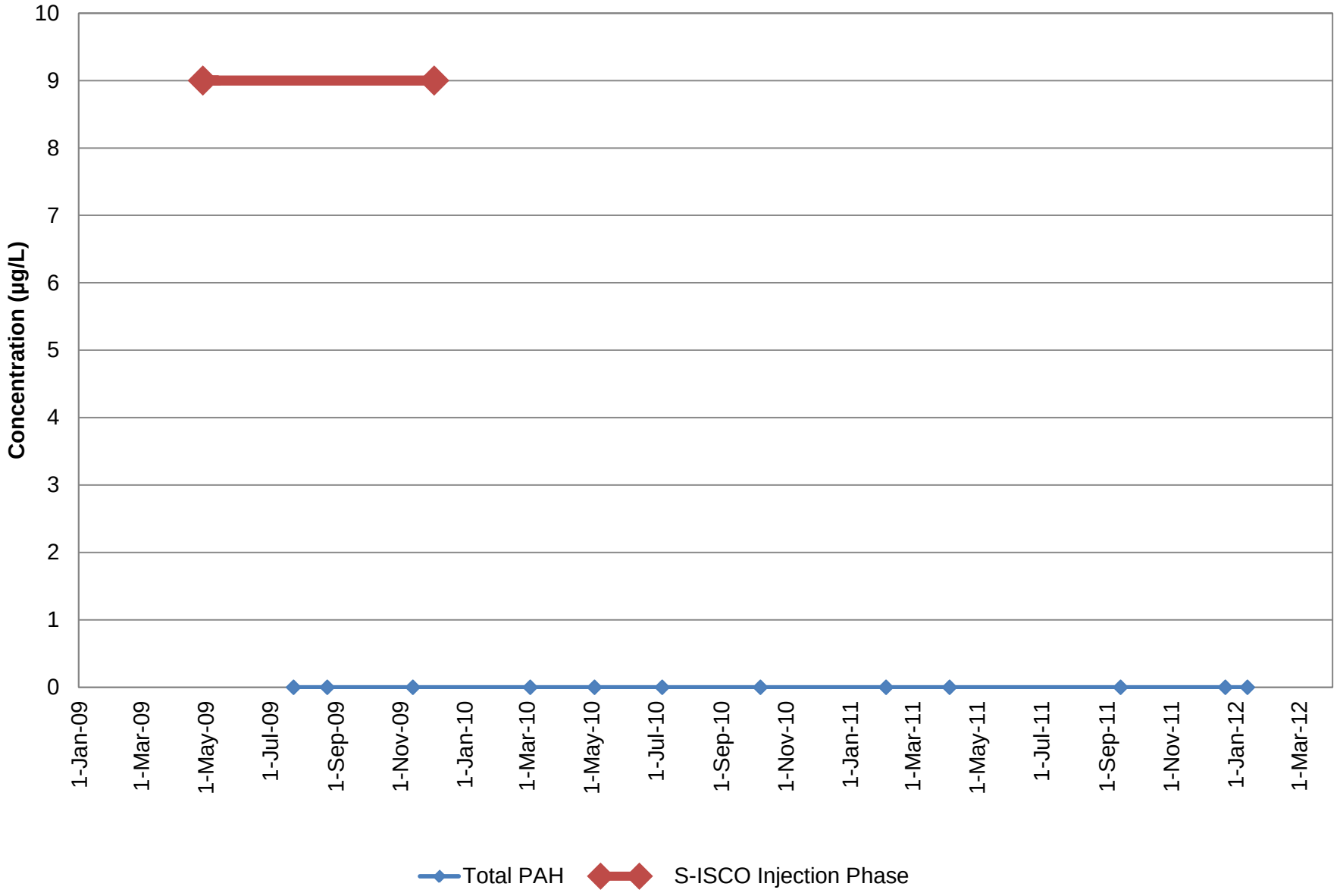
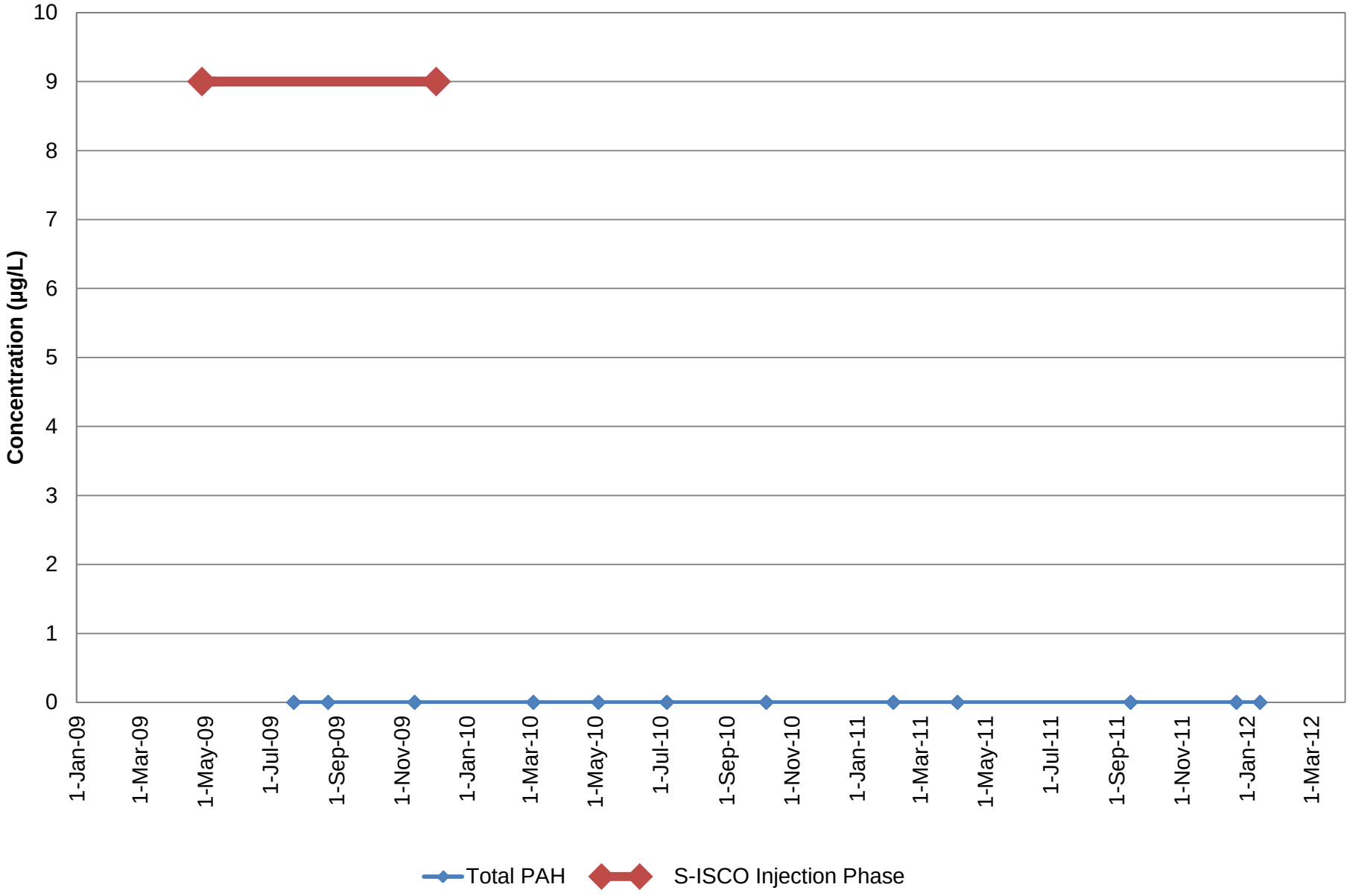


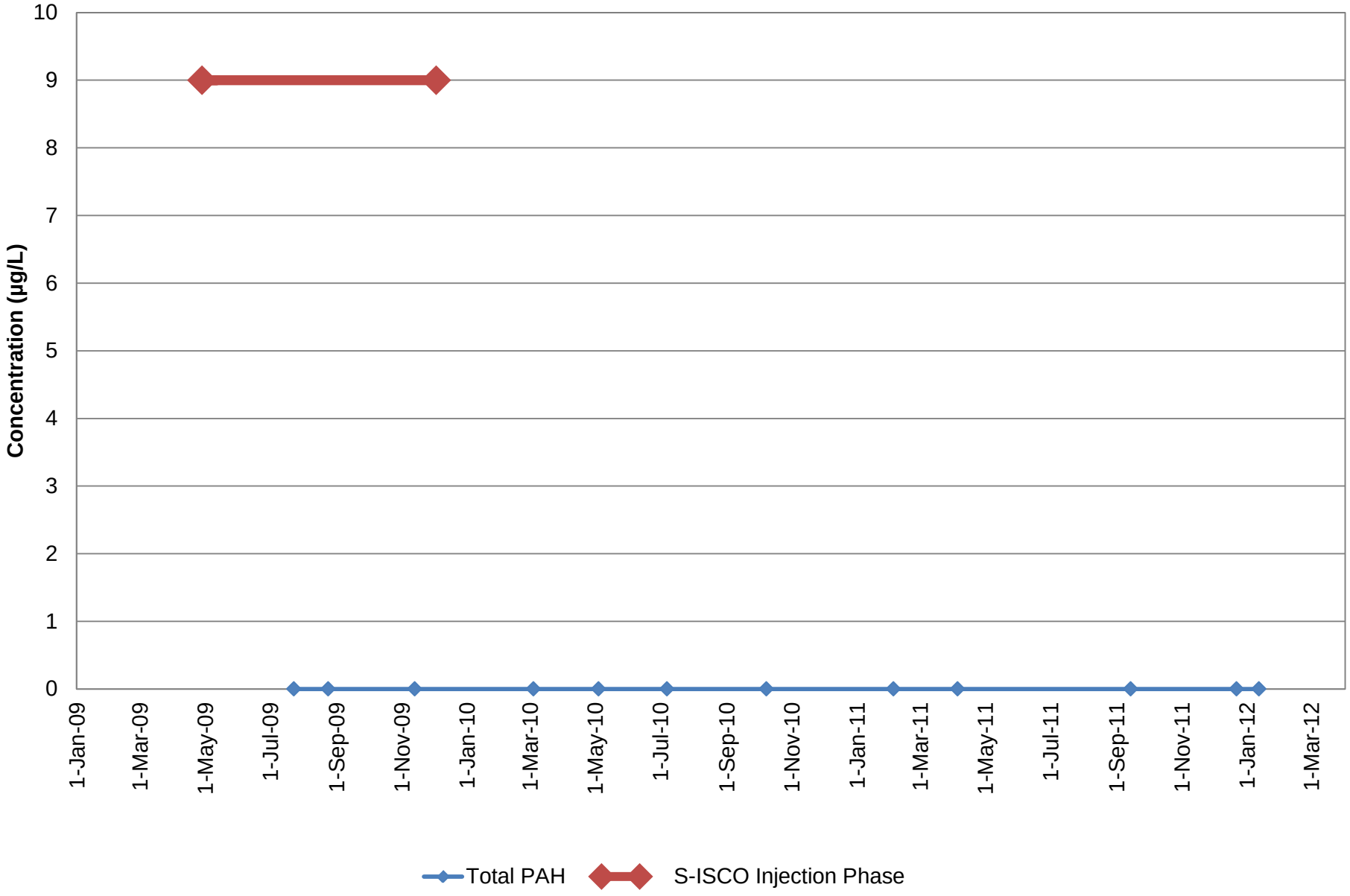
Monitoring Well WCMW-19S
2-12 ft bgs



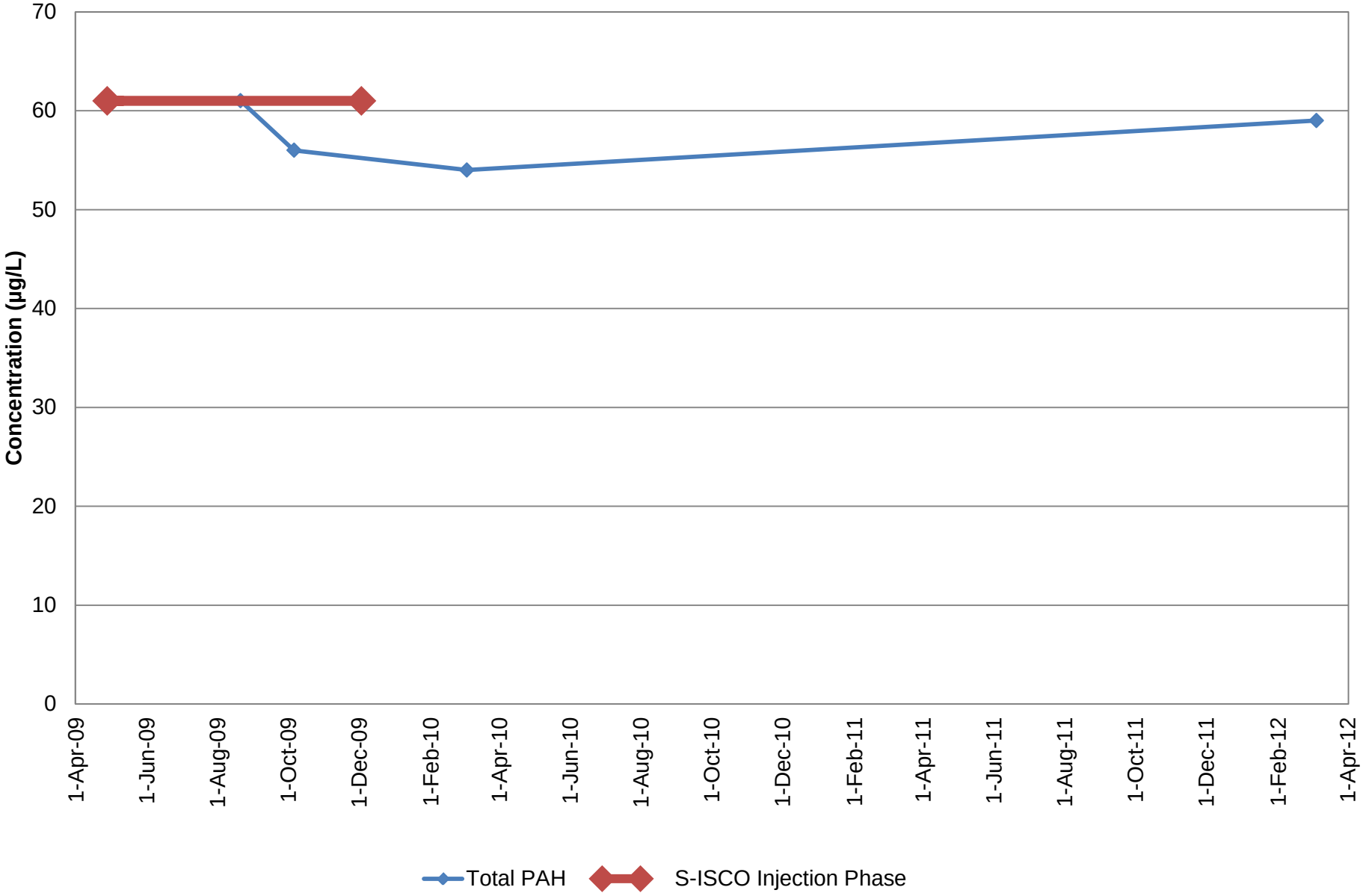
Monitoring Well WCMW-19I
20-25 ft bgs



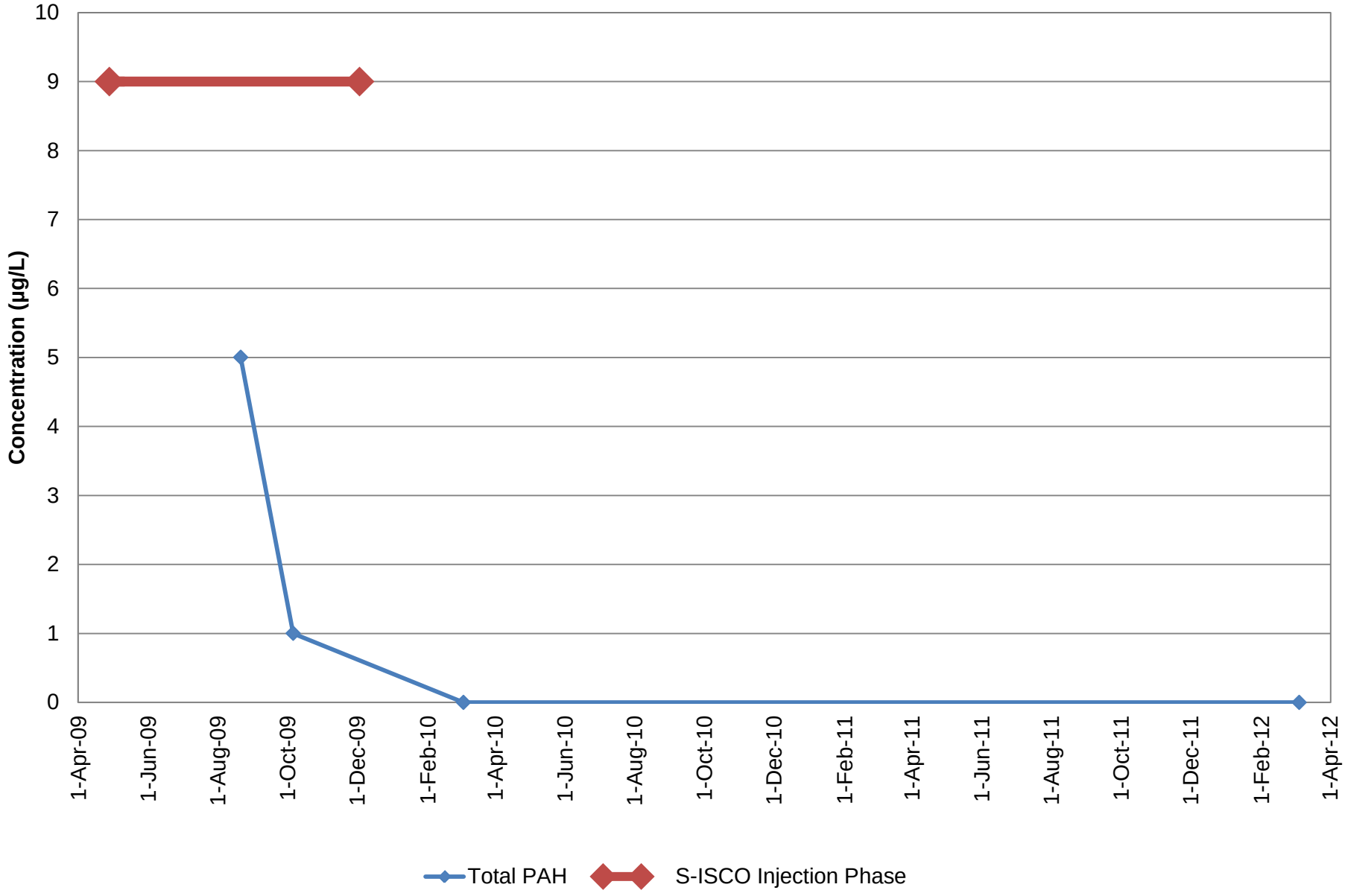
Monitoring Well WCMW-19I2
30-35 ft bgs



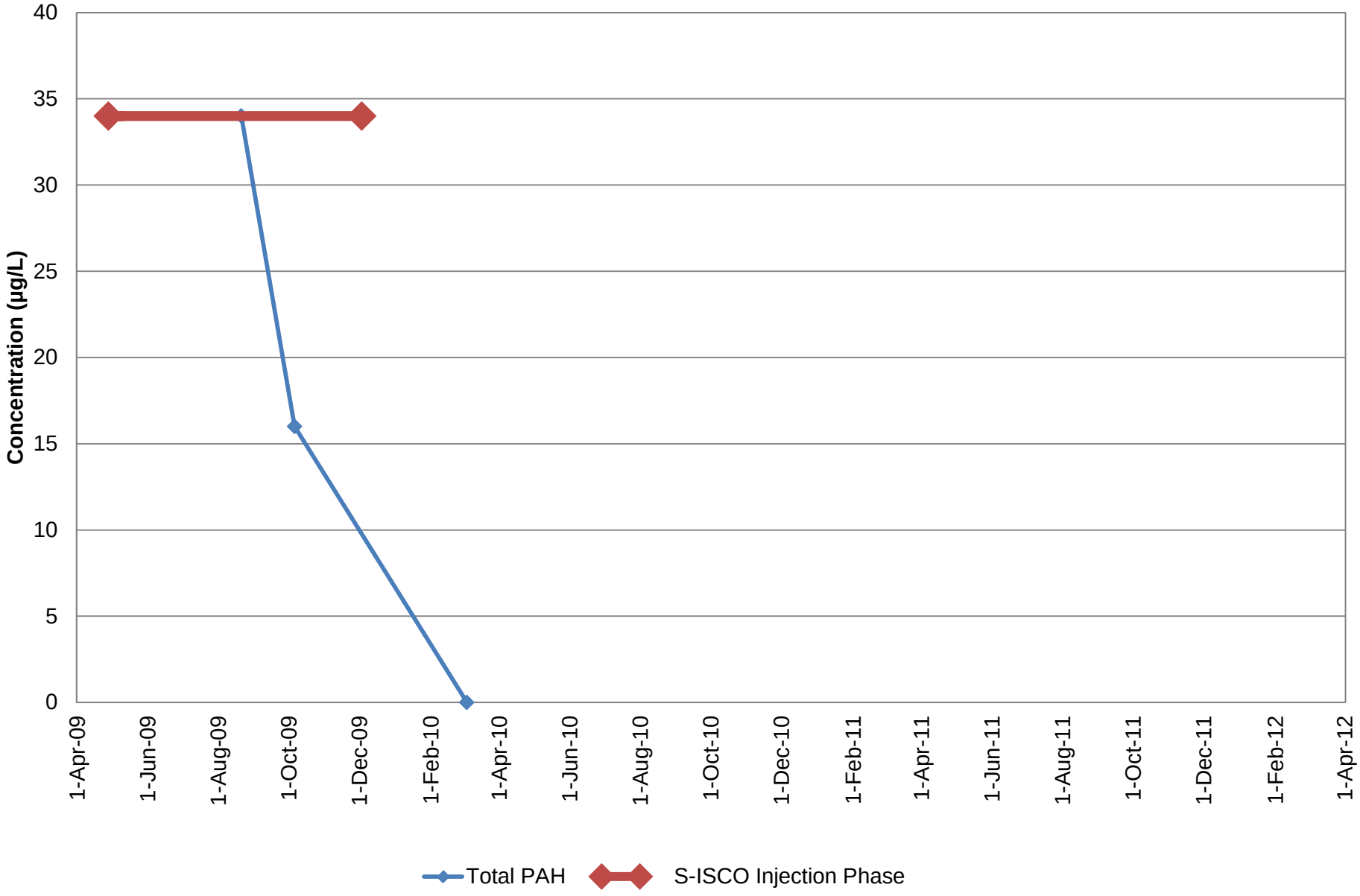
Monitoring Well WCMW-22S
2-12 ft bgs



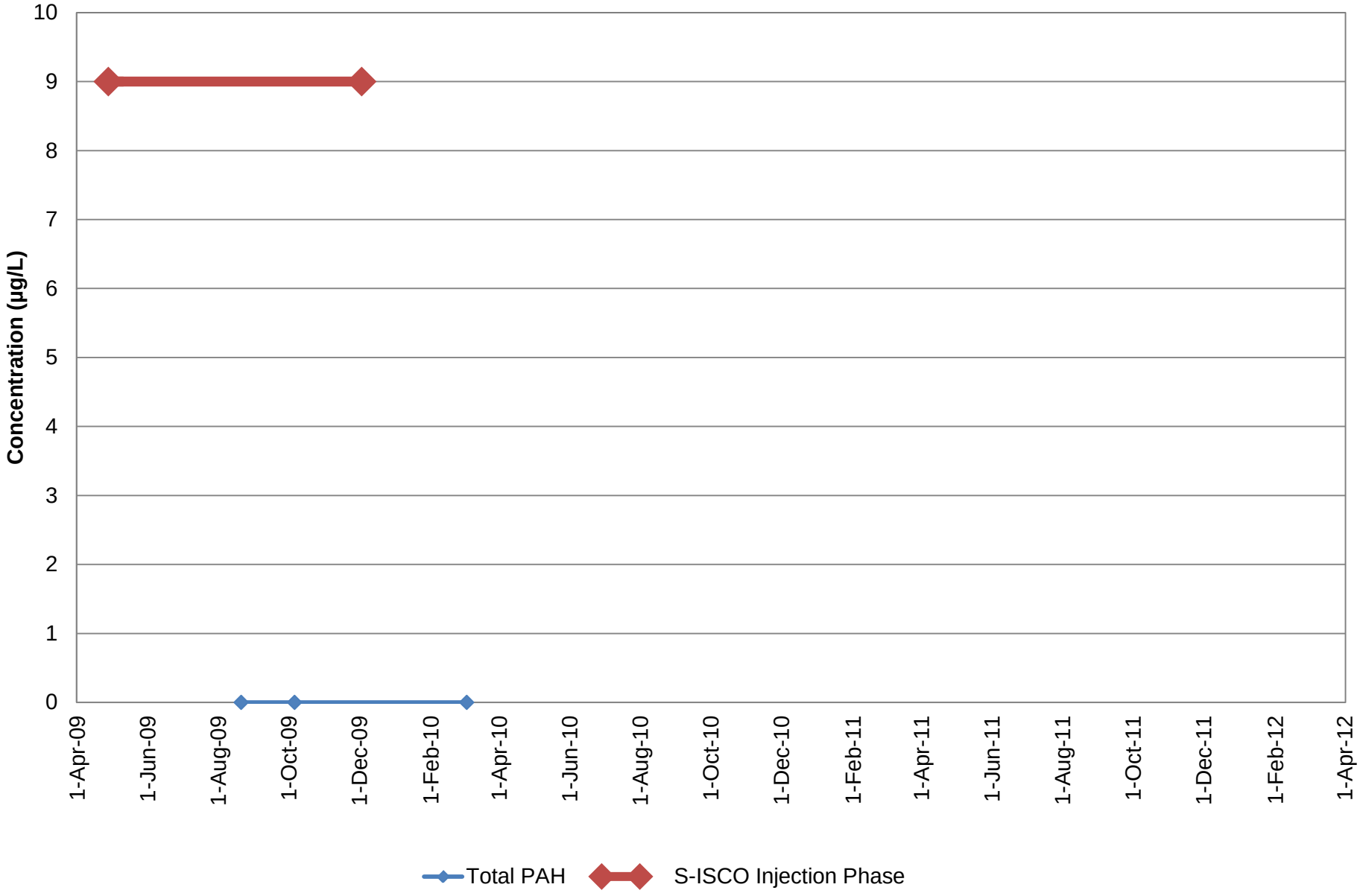
Monitoring Well WCMW-22I
25-30 ft bgs



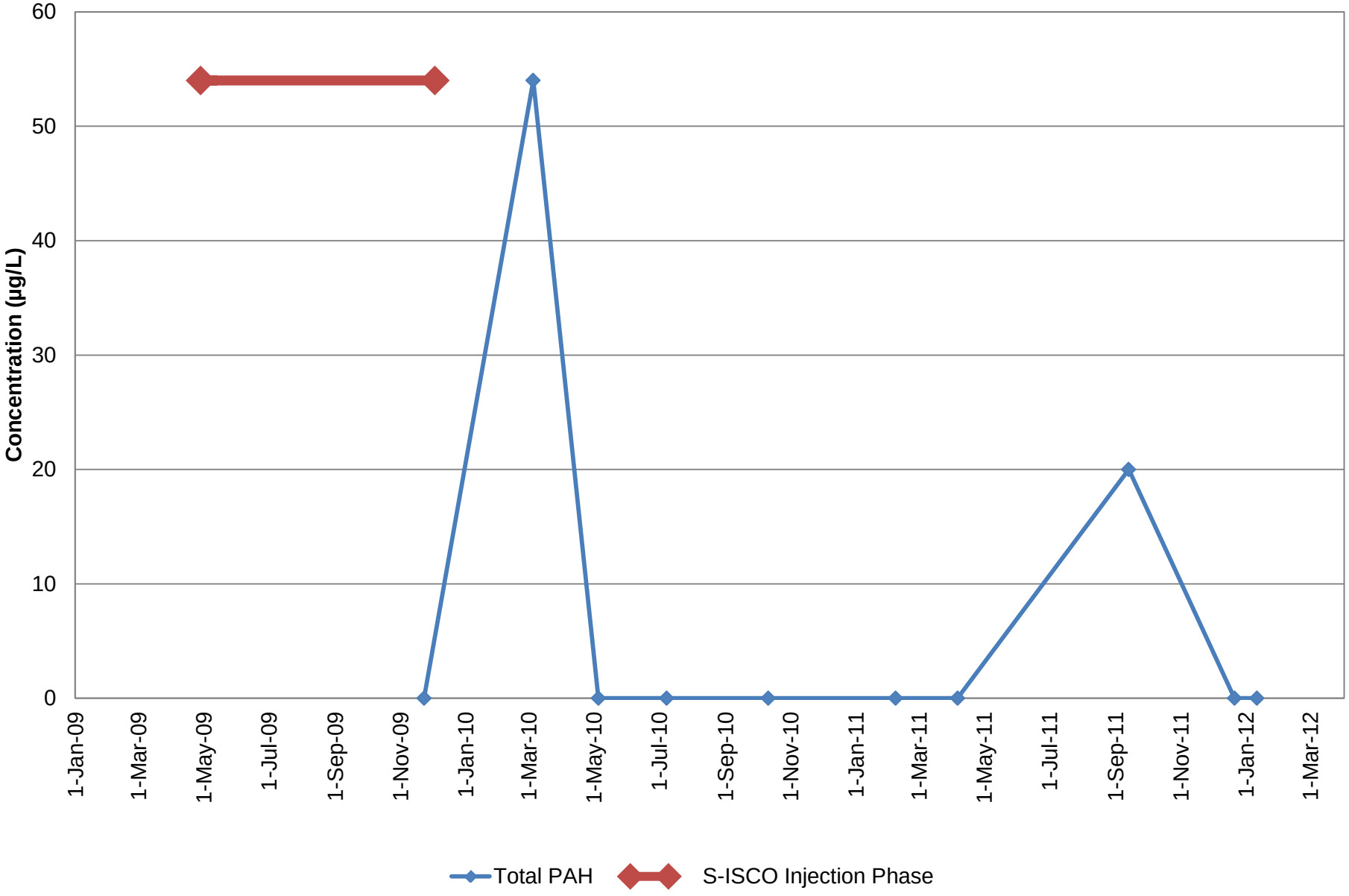
Monitoring Well WCMW-23S
2-12 ft bgs



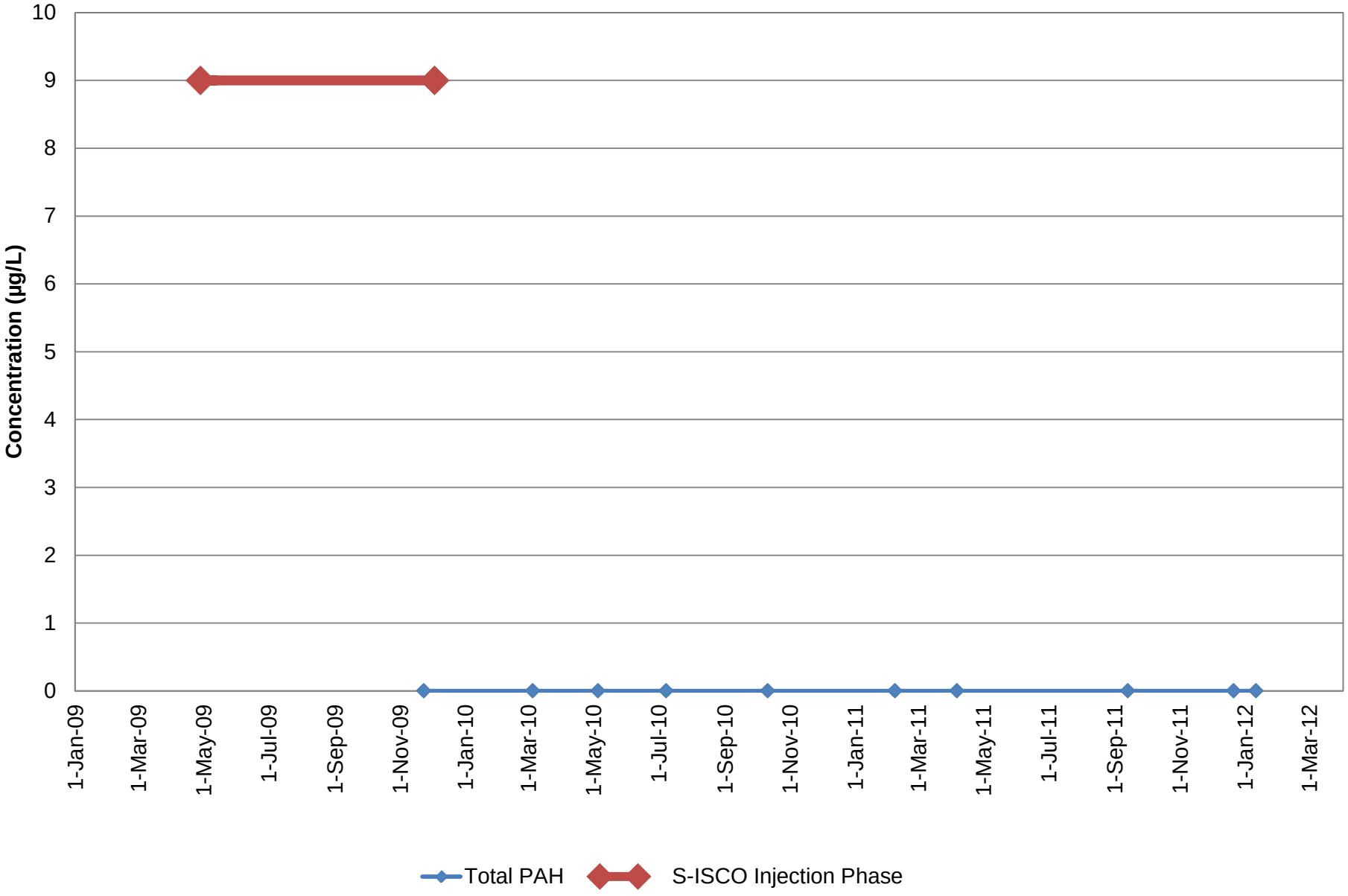
Monitoring Well WCMW-23I
25-30 ft bgs



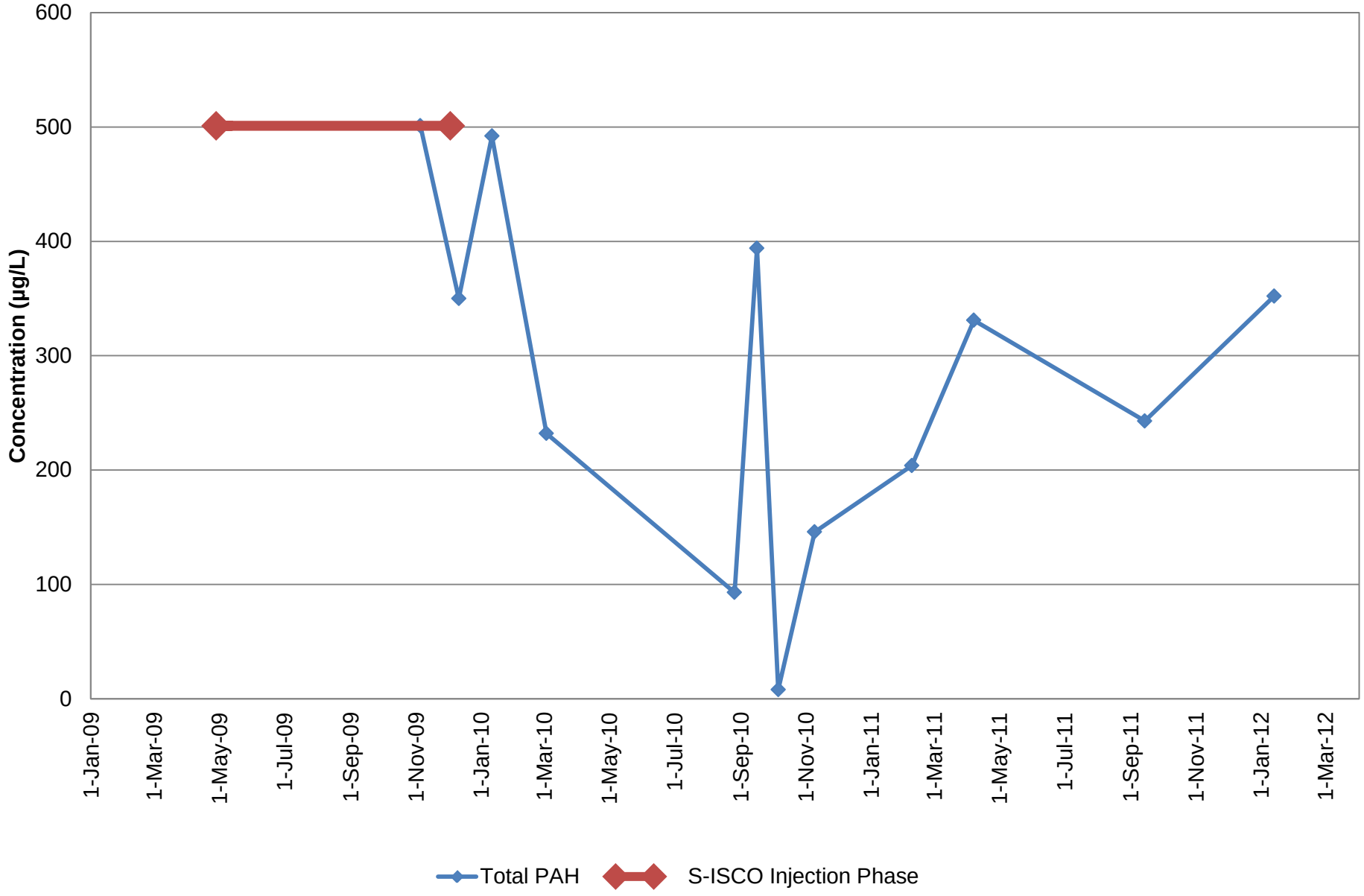
Monitoring Well WCMW-25I
30-35 ft bgs



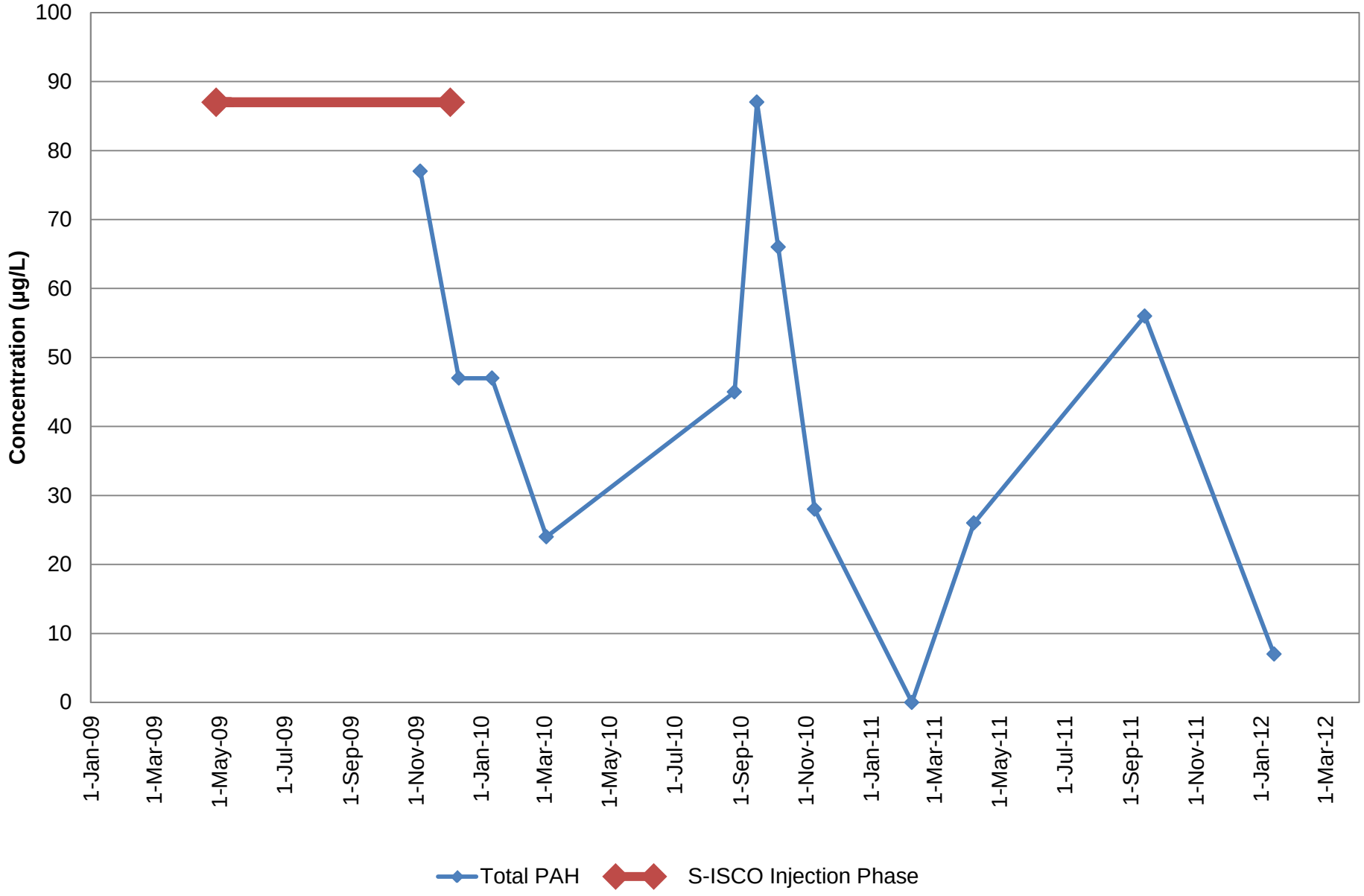
Monitoring Well WCMW-25D
55-60 ft bgs



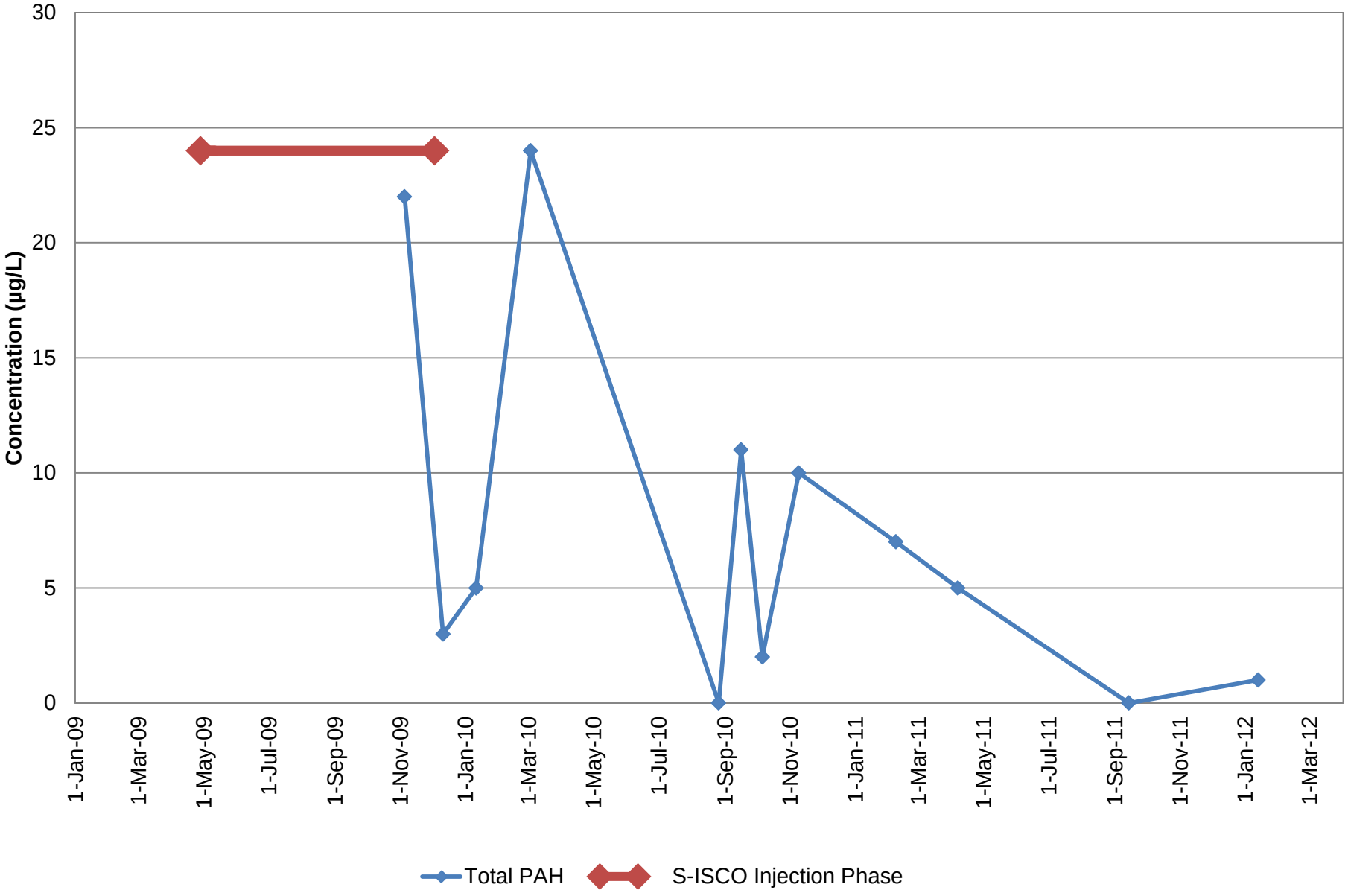
Monitoring Well WCMW-26S
2-12 ft bgs



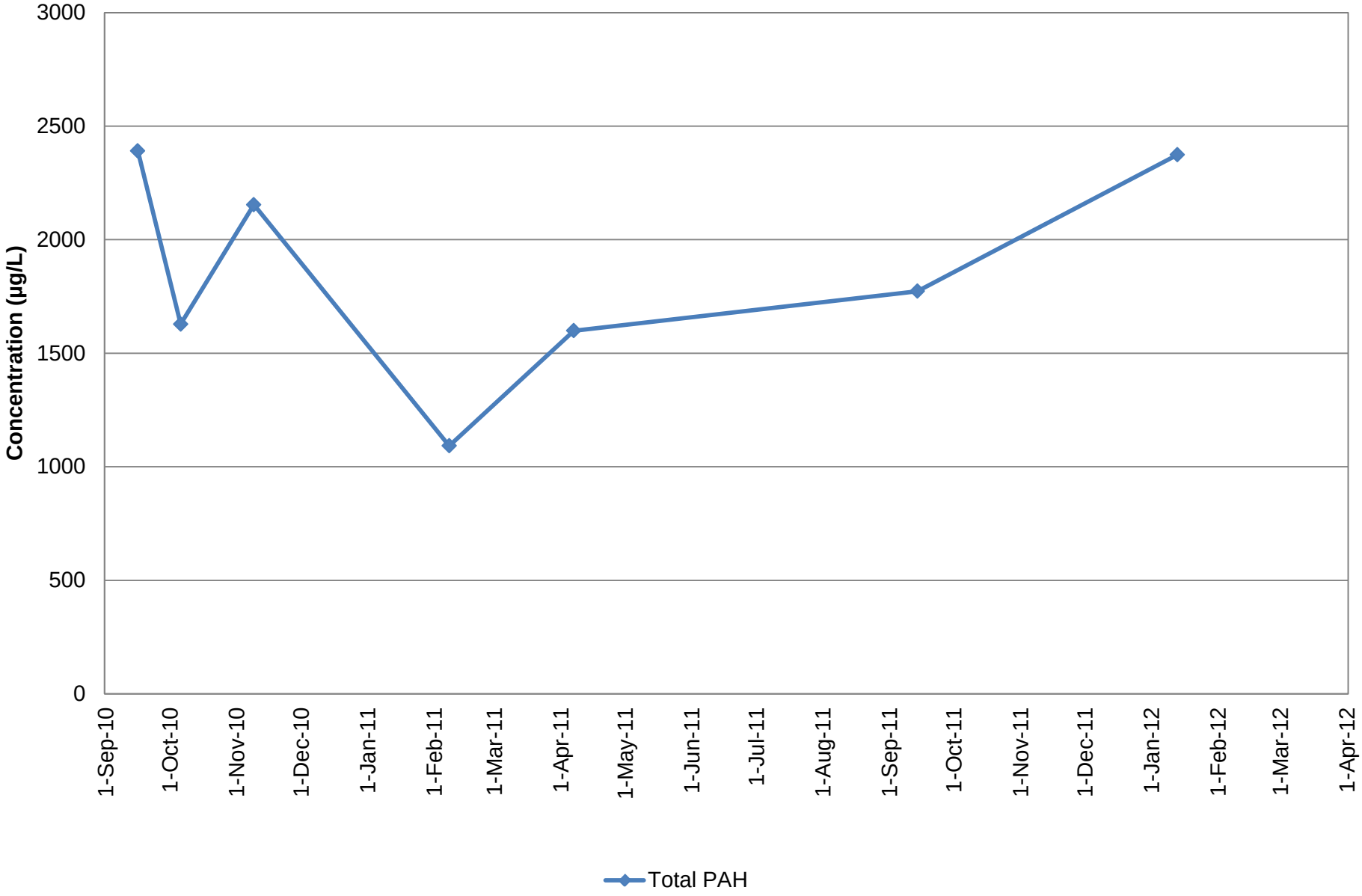
Monitoring Well WCMW-26I
20-25 ft bgs



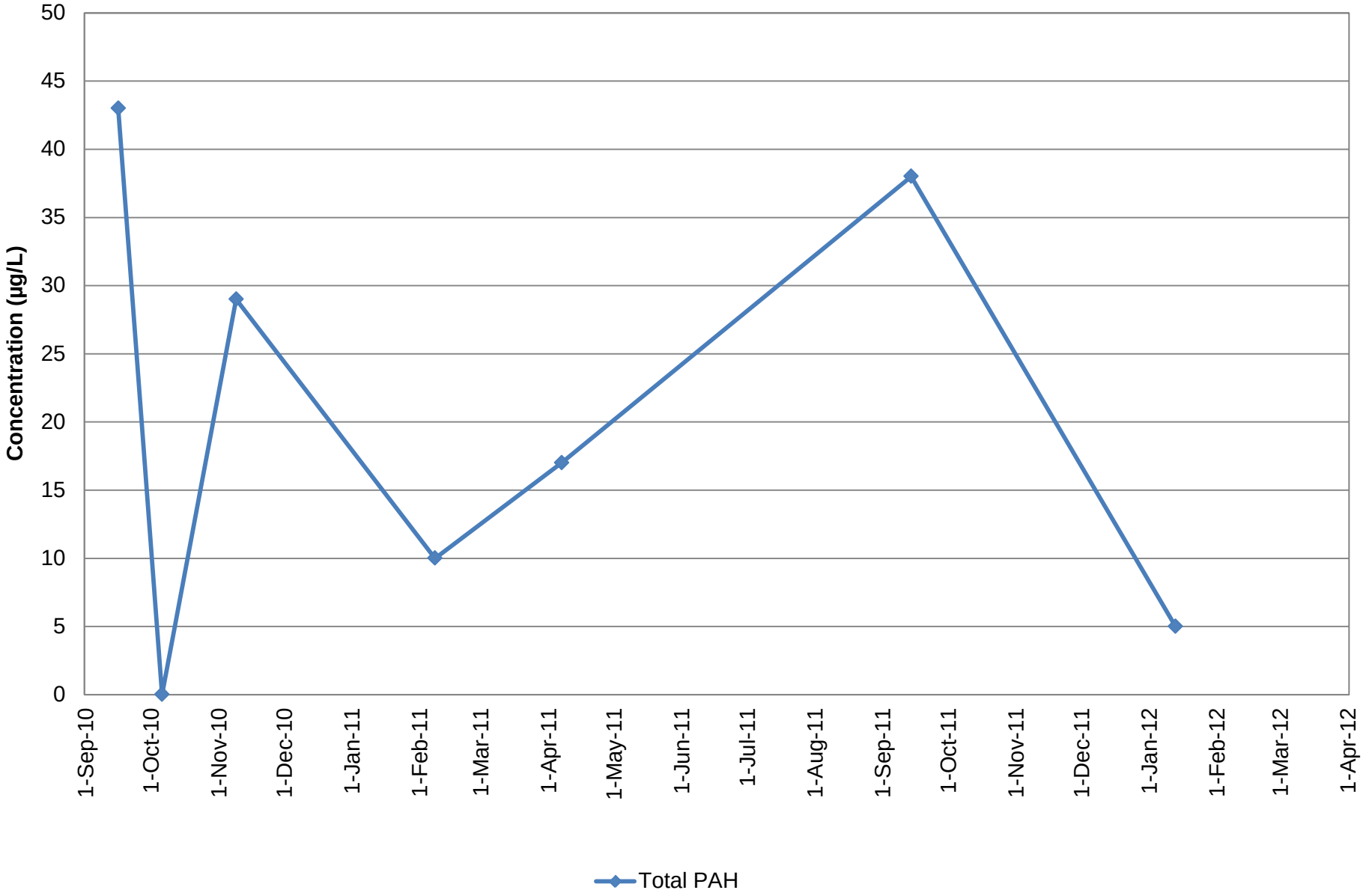
Monitoring Well WCMW-26I2
30-35 ft bgs



Monitoring Well WCMW-29S
2-12 ft bgs



Monitoring Well WCMW-29I
20-25 ft bgs



Appendix F - Table F-1
Distribution of pH Values <5 in Groundwater
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Monitoring Well	Sample Date	Sample Time	pH (S.U.)
OU-1			
BBMW-05D	12-Jan-12	10:50	4.38
BBMW-05D2R	12-Jan-12	11:45	4.94
BBMW-22D	12-Jan-12	12:10	4.27
BBMW-34D	17-Jan-12	14:40	3.98
BBMW-35D	17-Jan-12	12:00	4.84
BBMW-37D	17-Jan-12	9:25	4.72
BBMW-38D	18-Jan-12	9:10	4.62
BBMW-39D	18-Jan-12	15:00	4.59
BBMW-41D	24-Jan-12	11:00	4.28
OU2MW-48D	3-Feb-12	14:00	4.70
OU2MW-51I2	19-Mar-12	14:50	4.72
OU2MW-51D	19-Mar-12	13:30	4.60
OZMW-16D	2-Mar-12	14:25	4.37
OZMW-23I2	29-Feb-12	9:05	4.29
OZMW-23I2	26-Mar-12	11:00	4.94
OZMW-23D	19-Jan-12	15:00	4.03
OZMW-23D	29-Feb-12	10:05	4.14
OZMW-23D	26-Mar-12	11:45	4.70
OZMW-24D	19-Jan-12	10:25	4.53
OZMW-24D	27-Feb-12	15:10	4.64
OZMW-25D	1-Mar-12	9:45	4.46
OU-2			
BBMW-07I	20-Mar-12	9:30	4.77
BBMW-07D	20-Mar-12	10:25	5.00
BBMW-16I	7-Mar-12	15:00	4.74
BBMW-16D	7-Mar-12	14:25	4.79
BBMW-23D	2-Feb-12	14:45	4.74
BBMW-23D2	2-Feb-12	14:50	4.50
BBMW-24D	13-Feb-12	10:55	4.81
BBMW-25D	18-Jan-12	12:10	4.59
BBMW-25D	17-Feb-12	9:55	4.42
BBMW-25D	21-Mar-12	10:35	4.48
GM-05I	2-Feb-12	11:35	4.88
OU2MW-01S	18-Jan-12	9:55	4.73
OU2MW-01S	17-Feb-12	11:40	4.72
OU2MW-01S	21-Mar-12	9:25	4.93
OU2MW-01I2	18-Jan-12	9:10	4.84
OU2MW-01I2	17-Feb-12	10:55	4.72
OU2MW-01I2	21-Mar-12	14:50	4.91
OU2MW-01D	17-Feb-12	11:45	4.65
OU2MW-01D	21-Mar-12	14:10	4.64
OU2MW-03I2	23-Feb-12	15:40	4.95
OU2MW-03D	23-Feb-12	14:45	4.80
OU2MW-08S	23-Feb-12	9:20	4.80
OU2MW-08D	23-Feb-12	11:10	4.79
OU2MW-12I2	27-Jan-12	9:30	5.00
OU2MW-14I	20-Mar-12	6:05	4.60
OU2MW-14I2	20-Mar-12	5:15	4.47
OU2MW-20D	28-Feb-12	11:35	4.80
OU2MW-20D	22-Mar-12	10:35	4.69
OU2MW-21I2	15-Feb-12	9:55	5.00
OU2MW-22D	7-Feb-12	9:10	4.86
OU2MW-23I2	10-Feb-12	10:55	4.77
OU2MW-23D	10-Feb-12	9:45	4.85
OU2MW-24I2	8-Feb-12	11:30	4.53
OU2MW-24D	8-Feb-12	11:45	4.76
OU2MW-25I2	6-Feb-12	10:25	4.98
OU2MW-29I2	22-Feb-12	12:15	4.94
OU2MW-32D	21-Feb-12	14:00	4.94
OU2MW-33I2	20-Feb-12	10:10	4.95
OU2MW-33D	20-Feb-12	9:10	4.97
OU2MW-35I2	17-Feb-12	14:55	4.63
OU2MW-35D	17-Feb-12	14:00	4.30
OU2MW-36I2	8-Feb-12	10:15	4.30
OU2MW-37D	7-Feb-12	10:15	4.74
OU2MW-38I2	16-Feb-12	9:50	4.59
OU2MW-38D	16-Feb-12	10:05	4.70

Appendix F - Table F-1
Distribution of pH Values <5 in Groundwater
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

OU2MW-39I2	11-Jan-12	14:35	4.71
OU2MW-39I2	16-Feb-12	12:00	4.52
OU2MW-39I2	23-Mar-12	10:00	4.36
OU2MW-39D	11-Jan-12	15:10	4.66
OU2MW-39D	16-Feb-12	10:55	4.46
OU2MW-39D	23-Mar-12	9:20	4.52
OU2MW-42I2	7-Feb-12	14:45	4.94
OU2MW-42D	7-Feb-12	13:55	2.74
OU2MW-43I2	13-Mar-12	10:15	5.00
OU2MW-44D	12-Mar-12	14:30	4.91
OU2MW-45I	13-Feb-12	12:00	5.00
OU2MW-54D	13-Mar-12	11:35	4.83
OU2MW-55D	14-Mar-12	11:15	4.88
OU-3			
MW-45W	10-Jan-12	9:30	4.08
OU-4			
WCMW-02D	11-Jan-12	10:40	4.56
WCMW-06I2	16-Jan-12	11:50	4.58
WCMW-07S	16-Jan-12	13:55	4.82
WCMW-11D	13-Jan-12	10:20	3.08
WCMW-12D	1-Feb-12	10:25	3.78
WCMW-14I2	16-Jan-12	10:05	3.90
WCMW-25I	11-Jan-12	14:50	4.93
WCMW-25D	11-Jan-12	14:10	3.22

Appendix F - Table F-2
Distribution of pH Values >7 in Groundwater
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Monitoring Well	Sample Date	Sample Time	pH (S.U.)
OU-1			
BBMW-22I	12-Jan-12	9:40	7.50
BBMW-37I	17-Jan-12	9:30	7.42
BBMW-38S	17-Jan-12	14:25	7.15
BBMW-40I	18-Jan-12	14:15	7.38
OZMW-17S	27-Feb-12	14:15	7.00
OZMW-17I	30-Jan-12	11:40	7.08
OZMW-17I	27-Feb-12	12:10	7.30
OZMW-17I	20-Mar-12	11:00	7.17
OZMW-23I	19-Jan-12	13:50	7.15
OZMW-23I	29-Feb-12	10:15	7.00
OZMW-25S	1-Mar-12	11:20	7.28
OU-3			
IO-10	10-Jan-12	10:15	7.15
IO-10	31-Jan-12	9:35	7.18
MW-04	7-Feb-12	14:55	7.11
MW-70/70S	9-Jan-12	11:50	10.05
MW-76	7-Mar-12	14:15	9.70
MW-80	7-Mar-12	11:30	10.90
OU3MW-15S	6-Jan-12	12:15	9.61
OU-4			
WCMW-26I	13-Jan-12	10:30	7.08

LEGEND:

- GM-02AS — ACTIVE MONITORING WELL LOCATION
- MW-19D — DESTROYED MONITORING WELL
- MW-06D — UNABLE TO LOCATE MONITORING WELL
- MW-59 — ABANDONED MONITORING WELL
- MW-08W — INACTIVE OR HISTORICAL MONITORING WELL
- MW-35W — CONDITION UNKNOWN (LOCATED ON PRIVATE PROPERTY)
- BBSW-06 — SURFACE WATER GAUGING STATION LOCATION
- OU2MW-01WT, OU2MW-01S, OU2MW-01I, OU2MW-01I2, OU2MW-01D — EXISTING MONITORING WELL CLUSTER LOCATION (WT=WATER TABLE, S=SHALLOW, I=INTERMEDIATE, I2= INTERMEDIATE TWO, D=DEEP)
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY BASED ON >100 µg/L BTEX OR >100 µg/L TOTAL PAHs DETECTED IN GROUNDWATER
- OU-2, OU-3 AND OU-4 EXTENTS FROM Q1 2009 BASED ON >100 ug/L BTEX OR >100 ug/L TOTAL PAHs DETECTED IN GROUNDWATER
- OU-2, OU-3 AND OU-4 EXTENTS FROM Q1 2012 BASED ON >100 ug/L BTEX OR >100 ug/L TOTAL PAHs DETECTED IN GROUNDWATER
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- pH < 5.0
- pH > 7.0

OU-1 BAY SHORE SITE

OU-2

OU-3 BRIGHTWATERS YARD SITE

OU-4

BAY SHORE WEST PARCEL

BRIGHTWATERS EAST PARCEL

O-CO-NEE POND

UNNAMED POND (HEADWATERS OF O-CO-NEE POND)

LAWRENCE LAKE

LAWRENCE CREEK (TIDAL)

WATCHOGUE CREEK/ CRUM'S BROOK

MONTAUK BRANCH LONG ISLAND RAILROAD

N. PARK AVE. · WEST DR. · CENTER AVE. · FIFTH AVENUE · CLINTON AVENUE · ACKERSON STREET · OAK ST. · UNION BOULEVARD · SOUTH UNION ST. · JAN CT. · MARC CT. · DEB CT. · SMITH AVE. · MECHANICSVILLE SERVICE RD. · MONTAUK HWY. (S.R. 27A) · FIFTH AVE. · CLINTON AVE. (C.R. 13A) · OCEAN AVE. · BAY AVE. · GIBSON ST. · LINDEN PL · SOUTH CLINTON AVE. · 950 FEET SOUTH · 635 FEET SOUTH · ORINOCO DR. · COMMUNITY ROAD · COMMUNITY LANE · COOPER LANE · LANIER LANE · GARNER LANE · JOHNSON LANE · HEMLOCK LANE · MANATUCK LANE · EAST CT. · MW-59 · 1ST CLOSED WEST STORAGE AREA · 2ND CLOSED WEST STORAGE AREA

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. 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.
4. PROPERTY BOUNDARY LOCATIONS WERE DETERMINED BY OTHERS USING AERIAL PHOTOGRAPHS AND TAX MAPS. PROPERTY BOUNDARIES ARE APPROXIMATE AND MONITORING WELLS LOCATED NEAR OR AT PROPERTY BOUNDARIES DEPICTED ON THE MAP ARE WITHIN THE ROAD RIGHT-OF-WAY.

NOTES:

1. WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).
2. * INDICATES MONITORING WELL LOCATION SHOWN IS APPROXIMATE.

0 150 300
SCALE, FEET

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

nationalgrid

Project 093180-5-1506

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

DISTRIBUTION OF pH IN GROUNDWATER

June 2012 — Appendix F

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitorling\2012\Figures\Bay Shore-pH-Appendix F Q1-12.dwg

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2007					2008			2009					
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09
Operable Unit No. 1 (OU-1)															
BBMW-04D	63 - 73	9700	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-05D	64 - 74	**284000**	--	--	--	--	--	--	--	--	--	--	**413000**	--	--
BBMW-06S	5 - 15	36000	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06I	30 - 40	37100	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06D	66 - 76	**850000**	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-08D	65 - 75	154000	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17S	5.5 - 15.5	26900	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17I	30.5 - 40.5	15800	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18S	6 - 16	29000	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18I	30 - 40	17000	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18D	60 - 70	**293000**	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19S	6 - 16	47200	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19I	29.6 - 39.6	179000	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19D	64.75 - 74.75	**535000**	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4 - 14	21700	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35 - 45	159000	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20D	62 - 72	128000	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5 - 10	38100	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22I	30 - 40	69800	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22D	64 - 74	**580000**	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4 - 14	32700	--	--	--	--	--	--	--	--	--	--	9240	--	--
MW-05D	35.5 - 45.5	18000	--	--	--	--	--	--	--	--	--	--	21700	--	--
MW-08S	2 - 12	16600	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08D	35 - 45	17400	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	19000	--	--
MW-09I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	8710	--	--
OU2MW-48I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	15900	--	--
OU2MW-48I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	15800	--	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2007					2008			2009					
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09
OU2MW-48D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	22800	--	--
OU2MW-49S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	22300	--	--
OU2MW-49I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	17600	--	--
OU2MW-49I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	16400	--	--
OU2MW-49D	63 - 68	--	--	--	--	--	--	--	--	--	--	--	14200	--	--
OZMW-16S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53 - 63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22SR	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22IR	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	27700	--	--
OZMW-25I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	8500	--	--
OZMW-25I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	15500	--	--
OZMW-25D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	31100	--	--
OZMW-26S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2007					2008			2009					
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09
Operable Unit No. 2 (OU-2)															
BBMW-01S	5 - 15	59500	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32 - 42	19100	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	14600	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02S	5 - 15	17800	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30 - 40	13700	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73 - 83	18700	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03S	3 - 13	--	--	--	15100	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	22700	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	7700	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55 - 65	23900	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23S	5 - 15	7100	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23I	33 - 43	21400	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D	49.5 - 59.5	13300	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25S	4 - 14	--	--	16300	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25 - 35	--	--	17600	--	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62 - 72	--	--	8700	--	--	--	--	--	--	--	--	--	--	--
GM-05S	5.1 - 20.1	--	--	--	--	20200	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	20000	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	9800	--	--	--	--	--	--	--	--	--
MW-04S	4 - 14	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04D	35 - 45	14700	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3 - 8	--	--	15400	--	6600	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3 - 8	--	18500	17300	17100	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20 - 25	--	52000	48800	39100	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35 - 40	--	37700	49200	42200	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50 - 55	--	13300	11600	7900	--	--	--	--	--	--	--	--	--	--
OU2MW-01D	65 - 70	--	7000	7100	8100	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20 - 25	--	--	--	7100	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35 - 40	--	--	--	24600	--	--	--	--	--	--	--	--	--	--
OU2MW-02I2	50 - 55	--	--	--	11300	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65 - 70	--	--	--	7000	--	--	--	--	--	--	--	--	--	--
OU2MW-03S	20 - 25	--	--	--	43200	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35 - 40	--	--	--	22900	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50 - 55	--	--	--	15100 J	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65 - 70	--	--	--	5500	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3 - 8	--	--	--	10700	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20 - 25	--	--	--	19900	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35 - 40	--	--	--	30500	--	--	--	--	--	--	--	--	--	--
OU2MW-04I2	50 - 55	--	--	--	6200	--	--	--	--	--	--	--	--	--	--
OU2MW-04D	65 - 70	--	--	--	9700	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25 - 35	--	--	--	--	17800	--	--	--	--	--	--	--	--	--
OU2MW-06S	3 - 8	--	--	--	12100	--	--	--	--	--	--	--	--	--	--

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Sulfate Concentrations (µg/L)
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Well ID	Screen Interval (feet bgs)	2007					2008			2009					
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09
OU2MW-06	15 - 25	--	--	--	12200	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3 - 8	--	--	--	11000	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15 - 25	--	--	--	14000	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3 - 8	--	19900	21800	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20 - 25	--	23000	25800	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35 - 40	--	27900	19400	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50 - 55	--	34400	36000	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65 - 70	--	8500	6600	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30 - 40	--	--	--	--	18900	--	--	--	--	--	--	--	--	--
OU2MW-10S	3 - 7	--	--	--	--	11800	--	--	--	--	--	--	--	--	--
OU2MW-10I	20 - 25	--	--	--	--	7000	--	--	--	--	--	--	--	--	--
OU2MW-10D	35 - 40	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--
OU2MW-11S	3 - 8	--	11000	17000	--	15000	--	--	--	--	--	--	--	--	--
OU2MW-11I	20 - 25	--	28000	6900	--	20100	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30 - 35	--	25800	5000 U	--	30900	--	--	--	--	--	--	--	--	--
OU2MW-11D	40 - 45	--	13100	7100	--	5600	--	--	--	--	--	--	--	--	--
OU2MW-12S	3 - 7	--	20800	28400	--	10000	--	--	--	--	--	--	--	--	--
OU2MW-12I	20 - 25	--	32800	38900	--	27500	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30 - 35	--	24300	32700	--	17300	--	--	--	--	--	--	--	--	--
OU2MW-12D	40 - 45	--	20000	23300	--	7500	--	--	--	--	--	--	--	--	--
OU2MW-13S	3 - 8	--	--	--	--	13800	--	--	--	--	--	--	--	--	--
OU2MW-13I	20 - 25	--	--	--	--	32300	--	--	--	--	--	--	--	--	--
OU2MW-13D	35 - 40	--	--	--	--	27900	--	--	--	--	--	--	--	--	--
OU2MW-14S	3 - 8	--	--	--	--	9500	--	--	--	--	--	--	--	--	--
OU2MW-15S	3 - 8	--	--	--	--	8900	--	--	--	--	--	--	--	--	--
OU2MW-15I	20 - 25	--	--	--	--	27300	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30 - 35	--	--	--	--	25000	--	--	--	--	--	--	--	--	--
OU2MW-15D	40 - 45	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--
OU2MW-16S	3 - 8	--	--	--	--	8200	--	--	--	--	--	--	--	--	--
OU2MW-16I	15 - 20	--	--	--	--	22900	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25 - 30	--	--	--	--	30600	--	--	--	--	--	--	--	--	--
OU2MW-16D	35 - 40	--	--	--	--	5400	--	--	--	--	--	--	--	--	--
OU2MW-17S	5 - 10	--	--	--	--	--	18500	--	--	--	--	--	--	--	--
OU2MW-17I	13 - 23	--	--	--	--	--	9900	--	--	--	--	--	--	--	--
OU2MW-17I2	35 - 45	--	--	--	--	--	27500	--	--	--	--	--	--	--	--
OU2MW-17D	60 - 75	--	--	--	--	--	133000	--	--	--	--	--	--	--	--
OU2MW-18I	13 - 23	--	--	--	--	--	26900	--	--	--	--	--	--	--	--
OU2MW-18I2	35 - 45	--	--	--	--	--	37800	--	--	--	--	--	--	--	--
OU2MW-18D	60 - 70	--	--	--	--	--	225000	--	--	--	--	--	--	--	--
OU2MW-19I	13 - 23	--	--	--	--	--	5000 U	--	--	--	--	--	--	--	--
OU2MW-19I2	35 - 45	--	--	--	--	--	122000	--	--	--	--	--	--	--	--
OU2MW-19D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20S	4 - 9	--	--	--	--	--	19900	--	--	--	--	--	--	--	--
OU2MW-20I	13 - 23	--	--	--	--	--	6100	--	--	--	--	--	--	--	--
OU2MW-20I2	35 - 45	--	--	--	--	--	20200	--	--	--	--	--	--	--	--
OU2MW-20D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13 - 23	--	--	--	--	--	79000	--	--	--	--	--	--	--	--
OU2MW-21I2	35 - 45	--	--	--	--	--	16300	--	--	--	--	--	--	--	--

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		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09
OU2MW-22S	5 - 15	--	--	--	--	--	--	--	--	22400	--	--	--	--	--
OU2MW-22I	25 - 30	--	--	--	--	--	--	--	--	5990	--	--	--	--	--
OU2MW-22I2	46 - 51	--	--	--	--	--	--	--	--	24500	--	--	--	--	--
OU2MW-22D	67 - 72	--	--	--	--	--	--	--	--	100000	--	--	--	--	--
OU2MW-23S	5 - 15	--	--	--	--	--	--	--	5000 U	--	--	--	--	--	--
OU2MW-23I	25 - 30	--	--	--	--	--	--	--	15200	--	--	--	--	--	--
OU2MW-23I2	45 - 50	--	--	--	--	--	--	--	22400	--	--	--	--	--	--
OU2MW-23D	65 - 70	--	--	--	--	--	--	--	48400	--	--	--	--	--	--
OU2MW-24S	5 - 15	--	--	--	--	--	--	--	10600	--	--	--	--	--	--
OU2MW-24I	25 - 30	--	--	--	--	--	--	--	7920	--	--	--	--	--	--
OU2MW-24I2	45 - 50	--	--	--	--	--	--	--	83700	--	--	--	--	--	--
OU2MW-24D	62 - 67	--	--	--	--	--	--	--	21800	--	--	--	--	--	--
OU2MW-25S	5 - 15	--	--	--	--	--	--	--	30100	--	--	--	--	--	--
OU2MW-25I	25 - 30	--	--	--	--	--	--	--	8970	--	--	--	--	--	--
OU2MW-25I2	45 - 50	--	--	--	--	--	--	--	23000	--	--	--	--	--	--
OU2MW-25D	70 - 75	--	--	--	--	--	--	--	82500	--	--	--	--	--	--
OU2MW-26S	6 - 11	--	--	--	--	--	8900	--	--	--	--	--	--	--	--
OU2MW-26I	13 - 23	--	--	--	--	--	16200	--	--	--	--	--	--	--	--
OU2MW-26I2	35 - 45	--	--	--	--	--	13500	--	--	--	--	--	--	--	--
OU2MW-26D	60 - 70	--	--	--	--	--	22600	--	--	--	--	--	--	--	--
OU2MW-27S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5 - 15	--	--	--	--	--	--	18200	--	--	--	21400	--	32900	--
OU2MW-28I	28 - 33	--	--	--	--	--	--	10300	--	--	--	5000 U	--	14900	--
OU2MW-28I2	40 - 45	--	--	--	--	--	--	27600	--	--	--	27800	--	25700	--
OU2MW-29I	18 - 23	--	--	--	--	--	--	5000 U	--	--	--	5000 U	--	10600	--
OU2MW-29I2	30 - 35	--	--	--	--	--	--	5000 U	--	--	--	12800	--	33800	--
OU2MW-29D	45 - 50	--	--	--	--	--	--	20800	--	--	--	16000	--	35400	--
OU2MW-30S	5 - 15	--	--	--	--	--	--	24100	--	--	--	35800	--	27600	--
OU2MW-30I	25 - 30	--	--	--	--	--	--	20900	--	--	--	19800	--	29700	--
OU2MW-30I2	30 - 35	--	--	--	--	--	--	23200	--	--	--	21200	--	43000	--
OU2MW-30I3	45 - 50	--	--	--	--	--	--	22500	--	--	--	23200	--	42900	--
OU2MW-30D	50 - 55	--	--	--	--	--	--	27500	--	--	--	27900	--	42300	--
OU2MW-30D2	60 - 65	--	--	--	--	--	--	36700	--	--	--	26500	--	31900	--
OU2MW-31I	18 - 23	--	--	--	--	--	--	9910	--	--	--	9280	--	8610	--
OU2MW-31I2	30 - 35	--	--	--	--	--	--	17500	--	--	--	27400	--	11600	--
OU2MW-32S	5 - 15	--	--	--	--	--	--	7690	--	--	--	12400	--	5700	--
OU2MW-32I	20 - 25	--	--	--	--	--	--	5000 U	--	--	--	5000 U	--	5000 U	--
OU2MW-32I2	30 - 35	--	--	--	--	--	--	6540	--	--	--	14600	--	14900	--
OU2MW-32D	40 - 45	--	--	--	--	--	--	15500	--	--	--	15700	--	25600	--
OU2MW-35S	5 - 15	--	--	--	--	--	--	--	25900	--	--	--	45200	--	30100
OU2MW-35I	25 - 30	--	--	--	--	--	--	--	--	16400	--	--	23400	--	35900
OU2MW-35I2	45 - 50	--	--	--	--	--	--	--	--	42400	--	--	89600	--	35700
OU2MW-35D	57 - 62	--	--	--	--	--	--	--	--	192000	--	--	141000	--	156000
OU2MW-36S	5 - 15	--	--	--	--	--	--	--	18000	--	--	--	13400	--	16900
OU2MW-36I	25 - 30	--	--	--	--	--	--	--	23900	--	--	--	24800	--	25700

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		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09
OU2MW-36I2	45 - 50	--	--	--	--	--	--	--	56400	--	--	--	49300	--	30900
OU2MW-36D	61 - 66	--	--	--	--	--	--	--	29700	--	--	--	167000	--	160000
OU2MW-37S	5 - 15	--	--	--	--	--	--	--	--	14200	--	--	14500	--	13700
OU2MW-37I	25 - 30	--	--	--	--	--	--	--	--	20300	--	--	21500	--	21100
OU2MW-37I2	45 - 50	--	--	--	--	--	--	--	--	27000	--	--	34300	--	45800
OU2MW-37D	67 - 72	--	--	--	--	--	--	--	--	**396000**	--	--	**322000**	--	**282000**
OU2MW-38S	5 - 15	--	--	--	--	--	--	--	--	23400	--	--	--	--	--
OU2MW-38I	25 - 30	--	--	--	--	--	--	--	--	18700	--	--	--	--	--
OU2MW-38I2	46 - 51	--	--	--	--	--	--	--	--	31900	--	--	--	--	--
OU2MW-38D	56 - 61	--	--	--	--	--	--	--	--	195000	--	--	--	--	--
OU2MW-39S	5 - 15	--	--	--	--	--	--	--	--	25600	--	--	17800	--	19200
OU2MW-39I	25 - 30	--	--	--	--	--	--	--	--	20900	--	--	48200	--	105000
OU2MW-39I2	45 - 50	--	--	--	--	--	--	--	--	26900	--	--	45700	--	39400
OU2MW-39D	70 - 75	--	--	--	--	--	--	--	--	26100	--	--	194000	--	**260000**
OU2MW-40S	5 - 15	--	--	--	--	--	--	16800	--	--	--	--	--	--	--
OU2MW-40I	18 - 23	--	--	--	--	--	--	12400	--	--	--	--	--	--	--
OU2MW-41S	5 - 15	--	--	--	--	--	--	14900	--	--	--	--	--	--	--
OU2MW-41I	18 - 23	--	--	--	--	--	--	9010	--	--	--	--	--	--	--
OU2MW-42S	5 - 15	--	--	--	--	--	--	--	--	--	24300	--	26300	--	29600
OU2MW-42I	25 - 30	--	--	--	--	--	--	--	--	--	34000	--	18800	--	91300
OU2MW-42I2	45 - 50	--	--	--	--	--	--	--	--	--	18800	--	19800	--	24300
OU2MW-42D	60 - 65	--	--	--	--	--	--	--	--	--	**322000**	--	**485000**	--	**606000**
OU2MW-43S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5 - 15	--	--	--	--	--	--	--	--	11900	--	13700	--	--	7860
OU2MW-45I	20 - 25	--	--	--	--	--	--	--	--	20000	--	15800	--	--	28600
OU2MW-45I2	40 - 45	--	--	--	--	--	--	--	--	25700	--	13100	--	--	31500
OU2MW-45D	55 - 60	--	--	--	--	--	--	--	--	25500	--	22400	--	--	27200
OU2MW-46S	5 - 15	--	--	--	--	--	--	--	--	14100	--	17800	--	--	41600
OU2MW-46I	20 - 25	--	--	--	--	--	--	--	--	37600	--	39200	--	--	122000
OU2MW-46I2	40 - 45	--	--	--	--	--	--	--	--	41900	--	80000	--	--	44600
OU2MW-47S	5 - 15	--	--	--	--	--	--	--	--	13200	--	16700	--	--	17800
OU2MW-47I	20 - 25	--	--	--	--	--	--	--	--	5000 U	--	7590	--	--	22300
OU2MW-47I2	40 - 45	--	--	--	--	--	--	--	--	36100	--	27000	--	--	38400
OU2MW-47D	60 - 65	--	--	--	--	--	--	--	--	33200	--	35300	--	--	197000
OU2MW-52S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	7560	--	--
OU2MW-52I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	22400	--	--
OU2MW-52D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	16500	--	--
OU2MW-53S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	7020	--	--
OU2MW-53I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	--
OU2MW-53D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	10200	--	--
OU2MW-54S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	2007					2008			2009					
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09
OU2MW-54I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 3 (OU-3)															
MW-64	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	5910
OU3MW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	35200
OU3MW-02I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	18500
OU3MW-07S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No.4 (OU-4)															
WCMW-01S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05I2	29.46 - 34.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G
Sulfate Concentrations (µg/L)
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Well ID	Screen Interval (feet bgs)	2007					2008			2009					
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09
WCMW-11D	50 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	2009			2010										
		Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
Operable Unit No. 1 (OU-1)															
BBMW-04D	63 - 73	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-05D	64 - 74	--	--	**486000**	--	--	--	--	--	--	--	--	--	--	--
BBMW-06S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06D	66 - 76	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-08D	65 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17S	5.5 - 15.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17I	30.5 - 40.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19I	29.6 - 39.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19D	64.75 - 74.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5 - 15	--	--	--	--	--	--	--	--	--	11600	--	5000 U	--	--
BBMW-38I	25 - 30	--	--	--	--	--	--	--	--	--	23800	--	21000	--	--
BBMW-38I2	40 - 45	--	--	--	--	--	--	--	--	--	16700	--	20400	--	--
BBMW-38D	65 - 70	--	--	--	--	--	--	--	--	--	14500	--	15800	--	--
BBMW-39S	5 - 15	--	--	--	--	--	--	--	--	--	5000 U	--	--	5000 U	--
BBMW-39I	25 - 30	--	--	--	--	--	--	--	--	--	19000	--	--	15900	--
BBMW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	25000	--	--	32100	--
BBMW-39D	65 - 70	--	--	--	--	--	--	--	--	--	49800	--	--	16100	--
BBMW-41S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4 - 14	--	--	5000 U	--	--	--	--	--	--	--	--	--	--	--
MW-05D	35.5 - 45.5	--	--	16900	--	--	--	--	--	--	--	--	--	--	--
MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4 - 14	--	--	16200	--	--	--	--	--	--	12000	--	--	--	22400
MW-09I	30 - 40	--	--	--	--	--	--	--	--	--	19300	--	--	--	--
MW-09I2	45 - 50	--	--	21000	--	--	--	--	--	--	23600	--	--	--	--
MW-09D	65 - 70	--	--	40000	--	--	--	--	--	--	36400	--	--	--	--
OU2MW-48S	3 - 13	--	--	14800	16500	--	--	14100 J	--	--	22300	--	--	--	32400
OU2MW-48I	25 - 30	--	--	18000	21300	--	--	23000 J	--	--	14300	--	--	--	14100
OU2MW-48I2	45 - 50	--	--	19700	17200	--	--	17700 J	--	--	--	14700	--	--	16400

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		Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
OU2MW-48D	65 - 70	--	--	33500	23100	--	--	10200 J	--	--	7850	--	--	--	8240
OU2MW-49S	3 - 13	--	--	28900	17700	--	--	18400 J	--	--	30100	--	30800	--	--
OU2MW-49I	25 - 30	--	--	15600	22300	--	--	16200 j	--	--	20600	--	17200	--	--
OU2MW-49I2	45 - 50	--	--	21700	22100	--	--	23600 J	--	--	23500	--	24200	--	--
OU2MW-49D	63 - 68	--	--	6370	5830	--	--	13100 J	--	--	12800	--	10400	--	--
OZMW-16S	5 - 15	--	--	--	--	--	--	--	--	--	68700	--	58300 D	--	--
OZMW-16I	20 - 30	--	--	--	--	--	--	--	--	--	12100	--	9300	--	--
OZMW-16I2	35 - 45	--	--	--	--	--	--	--	--	--	31600	--	20800	--	--
OZMW-16D	55 - 65	--	--	--	--	--	--	--	--	--	46400	--	39300	--	--
OZMW-17S	5 - 15	--	--	--	--	--	--	--	--	--	27400	--	53600 D	--	--
OZMW-17I	20 - 30	--	--	--	--	--	--	--	--	--	8810	--	7710	--	--
OZMW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	17800	--	20100	--	--
OZMW-17D	53 - 63	--	--	--	--	--	--	--	--	--	**368000**	--	203000 D	--	--
OZMW-18S	5 - 15	--	--	--	--	--	--	--	--	--	39000	--	29100	--	--
OZMW-18I	20 - 30	--	--	--	--	--	--	--	--	--	5000 U	--	5000 U	--	--
OZMW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	5000 U	--	5000 U	--	--
OZMW-18D	55 - 65	--	--	--	--	--	--	--	--	--	**343000**	--	**290000 D**	--	--
OZMW-19S	5 - 15	--	--	--	--	--	--	--	--	--	19100	--	--	11100	--
OZMW-19I	20 - 30	--	--	--	--	--	--	--	--	--	6480	--	--	5000 U	--
OZMW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	10200	--	--	5000 U	--
OZMW-19D	55 - 65	--	--	--	--	--	--	--	--	--	26400	--	--	26500	--
OZMW-21S	5 - 15	12800	--	--	--	--	--	--	--	--	5000 U	--	--	5000 U	--
OZMW-21I	20 - 30	5000 U	--	--	--	--	--	--	--	--	5000 U	--	--	--	5000 U
OZMW-21I2	35 - 45	5000 U	--	--	--	--	--	--	--	--	5000 U	--	--	5000 U	--
OZMW-21D	55 - 65	34000	--	--	--	--	--	--	--	--	32100	--	--	--	34400
OZMW-22S	5 - 15	5000 U	--	5000 U	--	--	--	--	--	--	--	--	--	--	--
OZMW-22SR	5 - 15	--	--	--	--	--	--	--	--	--	5000 U	--	5000 U	--	--
OZMW-22I	20 - 30	16600	--	19900	--	--	--	--	--	--	--	--	--	--	--
OZMW-22IR	20 - 30	--	--	--	--	--	--	--	--	--	21100	--	30000	--	--
OZMW-22I2	35 - 45	14000	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55 - 65	18500	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5 - 15	10800	--	87500	--	--	--	--	--	--	31700	--	31100	--	--
OZMW-23I	20 - 30	29700	--	46100	--	--	--	--	--	--	14800	--	12600	--	--
OZMW-23I2	35 - 45	105000	--	90500	--	--	--	--	--	--	87500	--	27100	--	--
OZMW-23D	55 - 65	**1460000**	--	**974000**	--	--	--	--	--	--	110000	--	**351000 D**	--	--
OZMW-24S	5 - 15	13400	--	--	--	--	--	--	--	--	35300	--	29200	--	--
OZMW-24I	20 - 30	5000 U	--	--	--	--	--	--	--	--	5000 U	--	5000 U	--	--
OZMW-24I2	35 - 45	41300	--	--	--	--	--	--	--	--	41300	--	32000	--	--
OZMW-24D	55 - 65	**2470000**	--	--	--	--	--	--	--	--	**1080000**	--	**954000 D**	--	--
OZMW-25S	5 - 15	28200	--	16700	--	--	--	12400	--	--	5000 U	--	--	--	7240
OZMW-25I	20 - 30	5000 U	--	11300	--	--	--	5000 U	--	--	5000 U	--	--	--	8290
OZMW-25I2	35 - 45	11700	--	11000	--	--	--	13900	--	--	7100	--	--	--	12100
OZMW-25D	55 - 65	19500	--	13300	--	--	--	17400	--	--	14400	--	--	--	17700
OZMW-26S	5 - 15	5000 U	--	--	--	--	--	--	--	--	6010	--	--	--	5000 U
OZMW-26I	20 - 30	16000	--	--	--	--	--	--	--	--	16700	--	--	--	9680
OZMW-26I2	35 - 45	28800	--	--	--	--	--	--	--	--	11900	--	--	--	5000 U
OZMW-26D	55 - 65	30200	--	--	--	--	--	--	--	--	19700	--	--	--	28100

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		Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
Operable Unit No. 2 (OU-2)															
BBMW-01S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73 - 83	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23I	33 - 43	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G
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Well ID	Screen Interval (feet bgs)	2009			2010										
		Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
OU2MW-06	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13 - 23	--	--	--	--	15600	--	49600	--	--	--	--	--	--	68300 D
OU2MW-19I2	35 - 45	--	--	--	--	8510	--	5560	--	--	--	--	--	--	7280
OU2MW-19D	65 - 70	--	--	--	--	**319000**	--	**371000**	--	--	--	--	--	--	**282000 D**
OU2MW-20S	4 - 9	--	--	--	--	39000	--	14500	--	--	--	--	--	9380	--
OU2MW-20I	13 - 23	--	--	--	--	71500	--	35000	--	--	--	--	--	30700	--
OU2MW-20I2	35 - 45	--	--	--	--	16600	--	16600	--	--	--	--	--	18400	--
OU2MW-20D	65 - 70	--	--	--	--	22700	--	54200	--	--	--	--	--	68900 D	--
OU2MW-21I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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		Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
OU2MW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62 - 67	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6 - 11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5 - 15	--	27900	--	29400	--	--	27600	--	--	21000	--	--	17100	--
OU2MW-28I	28 - 33	--	20000	--	20400	--	--	30400	--	--	18400	--	--	23500	--
OU2MW-28I2	40 - 45	--	27100	--	27500	--	--	33800	--	--	48800	--	--	50000	--
OU2MW-29I	18 - 23	--	5000 U	--	34700	--	--	64200	--	--	82900	--	--	64400 D	--
OU2MW-29I2	30 - 35	--	55700	--	28800	--	--	5000 U	--	--	42600	--	--	109000 D	--
OU2MW-29D	45 - 50	--	22500	--	19500	--	--	22400	--	--	21600	--	--	22600	--
OU2MW-30S	5 - 15	--	26300	--	16800	--	--	31400	--	--	--	--	--	27300	--
OU2MW-30I	25 - 30	--	49800	--	46400	--	--	49100	--	--	--	--	--	42700	--
OU2MW-30I2	30 - 35	--	55500	--	65400	--	--	44100	--	--	46100	--	--	31500	--
OU2MW-30I3	45 - 50	--	46300	--	37400	--	--	56700	--	--	49800	--	--	49300	--
OU2MW-30D	50 - 55	--	43900	--	38500	--	--	45400	--	--	49900	--	--	49700	--
OU2MW-30D2	60 - 65	--	28300	--	23400	--	--	18200	--	--	--	--	--	26900	--
OU2MW-31I	18 - 23	--	24500	--	28300	--	--	48600	--	--	44200	--	--	64700 D	--
OU2MW-31I2	30 - 35	--	17900	--	18700	--	--	26100	--	--	62300	--	--	77700 D	--
OU2MW-32S	5 - 15	--	11000	--	9580	--	--	9970	--	--	6650	--	--	7050	--
OU2MW-32I	20 - 25	--	11300	--	5000 U	--	--	7820	--	--	48800	--	--	72100 D	--
OU2MW-32I2	30 - 35	--	16300	--	17800	--	--	25500	--	--	24400	--	--	24600	--
OU2MW-32D	40 - 45	--	26000	--	23100	--	--	24900	--	--	23800	--	--	27400	--
OU2MW-35S	5 - 15	--	--	39400	--	14200	--	18600	--	--	50700	--	--	39800	--
OU2MW-35I	25 - 30	--	--	45100	--	49400	--	70800	--	--	54200	--	--	33100	--
OU2MW-35I2	45 - 50	--	--	27100	--	30000	--	25700	--	--	83100	--	--	76500 D	--
OU2MW-35D	57 - 62	--	--	117000	--	117000	--	148000	--	--	**315000**	--	--	**351000 D**	--
OU2MW-36S	5 - 15	--	--	16800	--	16600	--	18300	--	--	11000	--	--	20700	--
OU2MW-36I	25 - 30	--	--	33800	--	45000	--	69500	--	--	83700	--	--	70600 D	--

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		Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
OU2MW-36I2	45 - 50	--	--	71700	--	33400	--	76500	--	--	82900	--	--	99400 D	--
OU2MW-36D	61 - 66	--	--	150000	--	108000	--	95400	--	--	102000	--	--	203000 D	--
OU2MW-37S	5 - 15	--	--	9820	--	10500	--	11200	--	--	11300	--	--	12800	--
OU2MW-37I	25 - 30	--	--	46500	--	22800	--	26200	--	--	11200	--	--	11500	--
OU2MW-37I2	45 - 50	--	--	34700	--	29900	--	30100	--	--	34300	--	--	33300	--
OU2MW-37D	67 - 72	--	--	**302000**	--	172000	--	176000	--	--	115000	--	--	112000 D	--
OU2MW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56 - 61	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5 - 15	--	--	18900	--	18800	--	18000	--	--	13900	--	15700	--	--
OU2MW-39I	25 - 30	--	--	65000	--	31900	--	30300	--	--	164000	--	93400 D	--	--
OU2MW-39I2	45 - 50	--	--	47000	--	36000	--	48600	--	--	62400	--	58000 D	--	--
OU2MW-39D	70 - 75	--	--	**270000**	--	**293000**	--	**356000**	--	--	**390000**	--	**351000 D**	--	--
OU2MW-40S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42S	5 - 15	--	--	39000	--	15900	--	14300	--	--	24000	--	--	48300	--
OU2MW-42I	25 - 30	--	--	48500	--	39900	--	30700	--	--	19700	--	--	19700	--
OU2MW-42I2	45 - 50	--	--	21400	--	31800	--	82300	--	--	45300	--	--	35800	--
OU2MW-42D	60 - 65	--	--	**711000**	--	**595000**	--	**731000**	--	--	**841000**	--	--	**766000 D**	--
OU2MW-43S	5 - 15	--	19700	--	--	48500	--	54200	--	--	--	--	--	--	91200 D
OU2MW-43I	25 - 30	--	5000 U	--	--	5000 U	--	5000 U	--	--	--	--	--	--	5470
OU2MW-43I2	45 - 50	--	7030	--	--	12100	--	5880	--	--	--	--	--	--	5000 U
OU2MW-43D	65 - 70	--	**693000**	--	--	**612000**	--	**636000**	--	--	--	--	--	--	**388000 D**
OU2MW-44S	5 - 15	--	21500	--	--	18800	--	18100	--	--	--	--	--	--	19500
OU2MW-44I	25 - 30	--	18000	--	--	25700	--	23900	--	--	--	--	--	--	16700
OU2MW-44I2	45 - 50	--	18400	--	--	14700	--	12900	--	--	--	--	--	--	15700
OU2MW-44D	65 - 70	--	37400	--	--	27100	--	26900	--	--	--	--	--	--	27700
OU2MW-45S	5 - 15	--	--	7560	--	9380	--	10300	--	--	23600	--	--	21300	--
OU2MW-45I	20 - 25	--	--	23000	--	5000 U	--	9480	--	--	80100	--	--	46600	--
OU2MW-45I2	40 - 45	--	--	32200	--	37800	--	21400	--	--	19600	--	--	19200	--
OU2MW-45D	55 - 60	--	--	21100	--	16000	--	11700	--	--	13900	--	--	17700	--
OU2MW-46S	5 - 15	--	--	35800	--	22800	--	23200	--	--	21800	--	--	20000	--
OU2MW-46I	20 - 25	--	--	111000	--	108000	--	39900	--	--	24300	--	--	26800	--
OU2MW-46I2	40 - 45	--	--	31600	--	29700	--	18000	--	--	34800	--	--	70700 D	--
OU2MW-47S	5 - 15	--	--	8190	--	20900	--	15300	--	--	21700	--	--	36200	--
OU2MW-47I	20 - 25	--	--	22000	--	25000	--	31300	--	--	72800	--	--	59500 D	--
OU2MW-47I2	40 - 45	--	--	25100	--	30400	--	20100	--	--	16400	--	--	17700	--
OU2MW-47D	60 - 65	--	--	117000	--	78900	--	41600	--	--	45300	--	--	39000	--
OU2MW-52S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	8840
OU2MW-52I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	20800
OU2MW-52D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	6020
OU2MW-53S	3 - 8	--	--	--	--	--	--	--	--	--	8450	--	--	--	10700
OU2MW-53I	20 - 25	--	--	--	--	--	--	--	--	--	19100	--	--	--	23300
OU2MW-53D	35 - 40	--	--	--	--	--	--	--	--	--	17500	--	--	--	37300
OU2MW-54S	5 - 15	--	--	--	8620	--	14100	--	--	--	--	--	--	--	40200

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OU2MW-54I	25 - 30	--	--	--	17200	--	16700	--	--	--	--	--	--	--	16900
OU2MW-54I2	40 - 45	--	--	--	14400	--	67900	--	--	--	--	--	--	--	18000
OU2MW-54D	60 - 65	--	--	--	20700	--	18100	--	--	--	--	--	--	--	23600
OU2MW-55S	5 - 15	--	--	--	--	--	--	--	14300	--	--	--	--	--	25300
OU2MW-55I	30 - 35	--	--	--	--	--	--	--	19400	--	--	--	--	--	13700
OU2MW-55I2	50 - 55	--	--	--	--	--	--	--	37200	--	--	--	--	--	30300
OU2MW-55D	65 - 70	--	--	--	--	--	--	--	7540	--	--	--	--	--	20200
OU2MW-56S	5 - 15	--	--	--	--	--	--	--	19300	--	--	--	--	--	21200
OU2MW-56I	25 - 30	--	--	--	--	--	--	--	37200	--	--	--	--	--	58500 D
OU2MW-56I2	45 - 50	--	--	--	--	--	--	--	20500	--	--	--	--	--	22500
OU2MW-56D	65 - 70	--	--	--	--	--	--	--	25500	--	--	--	--	--	24300
Operable Unit No. 3 (OU-3)															
MW-64	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5 - 15	--	--	--	--	--	--	27400	--	--	--	--	--	--	--
OU3MW-01S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3 - 13	--	--	--	--	13300	26800 J	88200 J	126000	--	--	--	--	--	--
OU3MW-07I	15 - 20	--	--	--	--	24000	17700	28300 J	28000	--	--	--	--	--	--
OU3MW-07I2	20 - 25	--	--	--	--	32800	21600	21900 J	22400	--	--	--	--	--	--
OU3MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No.4 (OU-4)															
WCMW-01S	2 - 12	--	--	--	--	--	--	**2590000**	--	**4250000**	--	--	391000	--	--
WCMW-01I	35 - 45	--	--	--	--	--	--	66900	--	47200	--	--	41700	--	--
WCMW-01D	64 - 74	--	--	--	--	--	--	**6460000**	--	**4210000**	--	--	611000	--	--
WCMW-02S	3 - 13	--	--	--	--	--	--	17600	--	17700	--	--	9460	--	--
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	5720	--	33200	--	--	**343000**	--	--
WCMW-02D	62 - 72	--	--	--	--	--	--	5000 U	--	5000 U	--	--	5000 U	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	**6280000**	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	40600	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	25000	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	**2160000**	--	--	--	--	--	--	--
WCMW-04I	19 - 24	--	--	--	--	--	--	83800	--	--	--	--	--	--	--
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	132000	--	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	--	--	--	--	--	**3670000**	--	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	--	--	--	--	--	--	15800	--	--	--	--	--	--	--
WCMW-05I2	29.46 - 34.46	--	--	--	--	--	--	23700	--	--	--	--	--	--	--
WCMW-06S	2 - 12	--	--	--	--	--	--	12300 J	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	11100 J	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	28900 J	--	--	--	--	--	--	--
WCMW-10S	15 - 20	--	--	--	--	--	--	19000 J	--	--	--	--	--	--	--
WCMW-10D	40 - 50	--	--	--	--	--	--	37800 J	--	--	--	--	--	--	--
WCMW-11S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2009			2010										
		Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
WCMW-11D	50 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3 - 13	--	--	--	--	--	--	--	--	17200	--	--	17600	--	--
WCMW-13I	25 - 30	--	--	--	--	--	--	--	--	8190	--	--	10700	--	--
WCMW-13D	65 - 70	--	--	--	--	--	--	--	--	5000 U	--	--	5000 U	--	--
WCMW-14S	2 - 12	--	--	--	--	--	--	83700	--	25200	--	--	5000 U	--	--
WCMW-14I	20 - 25	--	--	--	--	--	--	40300	--	5000 U	--	--	9850	--	--
WCMW-14I2	30 - 35	--	--	--	--	--	--	90500	--	47600	--	--	44600	--	--
WCMW-14D	67 - 72	--	--	--	--	--	--	6840	--	**1180000**	--	--	6830	--	--
WCMW-16S	2 - 12	--	--	--	--	--	--	162000 J	--	5000 U	--	--	5000 U	--	--
WCMW-16I	20 - 25	--	--	--	--	--	--	5000 UJ	--	5000 U	--	--	10300	--	--
WCMW-16I2	30 - 35	--	--	--	--	--	--	23300 J	--	26400	--	--	26700	--	--
WCMW-17S	2 - 12	--	--	--	--	--	--	**773000 J**	--	--	--	--	--	--	--
WCMW-17I	20 - 25	--	--	--	--	--	--	**382000 J**	--	--	--	--	--	--	--
WCMW-17I2	30 - 35	--	--	--	--	--	--	175000 J	--	--	--	--	--	--	--
WCMW-18WT	2 - 7	--	--	--	--	--	--	46400	--	--	--	--	--	--	--
WCMW-18S	2 - 12	--	--	--	--	--	--	16300	--	--	--	--	--	--	--
WCMW-18I	20 - 25	--	--	--	--	--	--	24600 J	--	--	--	--	--	--	--
WCMW-18I2	30 - 35	--	--	--	--	--	--	22500 J	--	--	--	--	--	--	--
WCMW-19S	2 - 12	--	--	--	--	--	--	14300 J	--	21000	--	--	10900	--	--
WCMW-19I	20 - 25	--	--	--	--	--	--	17700 J	--	17900	--	--	24400	--	--
WCMW-19I2	30 - 35	--	--	--	--	--	--	22500 J	--	28000	--	--	37600	--	--
WCMW-25I	30 - 35	--	--	--	--	--	--	**278000**	--	--	--	--	--	--	--
WCMW-25D	55 - 60	--	--	--	--	--	--	**7810000**	--	--	--	--	--	--	--

Appendix G
Sulfate Concentrations (µg/L)
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Well ID	Screen Interval (feet bgs)	2011		2011									
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
Operable Unit No. 1 (OU-1)													
BBMW-04D	63 - 73	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-05D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06D	66 - 76	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-08D	65 - 75	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17S	5.5 - 15.5	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17I	30.5 - 40.5	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19I	29.6 - 39.6	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19D	64.75 - 74.75	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65 - 70	--	--	--	--	--	--	--	40400	--	--	--	--
BBMW-38S	5 - 15	33500	--	--	--	43100	--	--	7780	--	--	--	--
BBMW-38I	25 - 30	--	--	--	--	5760	--	--	7500	--	--	--	--
BBMW-38I2	40 - 45	--	--	--	--	10300	--	--	9910	--	--	--	--
BBMW-38D	65 - 70	19800	--	--	--	21900	--	--	22900	--	--	--	--
BBMW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65 - 70	--	--	--	--	--	--	--	29300	--	--	--	--
MW-05S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--
MW-05D	35.5 - 45.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--
MW-08D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4 - 14	--	--	18600	--	--	28100	--	--	20900	--	--	--
MW-09I	30 - 40	--	--	14600	--	--	--	--	--	--	--	--	--
MW-09I2	45 - 50	--	--	24800	--	--	--	--	--	--	--	--	--
MW-09D	65 - 70	--	--	30700	--	--	--	--	--	--	--	--	--
OU2MW-48S	3 - 13	--	--	32000	--	--	--	--	--	--	--	--	--
OU2MW-48I	25 - 30	--	--	18700	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45 - 50	--	--	23000	--	--	--	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	2011		2011									
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
OU2MW-48D	65 - 70	--	--	9010	--	--	--	--	8960	--	--	--	--
OU2MW-49S	3 - 13	--	21900	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25 - 30	16400	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45 - 50	22100	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63 - 68	10700	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5 - 15	43100	--	--	--	40400	--	--	24000	--	--	--	12100
OZMW-16I	20 - 30	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U
OZMW-16I2	35 - 45	20400	--	--	--	20800	--	--	9680	--	--	--	25300
OZMW-16D	55 - 65	48900	--	--	--	69600 D	--	--	50000	--	--	--	63800 D
OZMW-17S	5 - 15	48900	--	--	--	33800	--	--	22700	--	--	--	15000
OZMW-17I	20 - 30	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U
OZMW-17I2	35 - 45	15500	--	--	--	14000	--	--	31800	--	--	--	23100
OZMW-17D	53 - 63	215000 J	--	--	--	130000 D	--	--	104000 D	--	--	--	77400 D
OZMW-18S	5 - 15	18800	--	--	--	14100	--	--	11500	--	--	--	12600
OZMW-18I	20 - 30	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U
OZMW-18I2	35 - 45	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U
OZMW-18D	55 - 65	**251000**	--	--	--	**250000 D**	--	--	177000 D	--	--	--	169000 D
OZMW-19S	5 - 15	5470	--	--	--	18300	--	--	20200	--	--	--	9310
OZMW-19I	20 - 30	8120	--	--	--	5000 U	--	--	11400	--	--	--	5000 U
OZMW-19I2	35 - 45	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U
OZMW-19D	55 - 65	23400	--	--	--	29800	--	--	24400	--	--	--	29200
OZMW-21S	5 - 15	5000 U	--	--	--	5000 U	--	--	16900	--	--	--	5000 U
OZMW-21I	20 - 30	5000 U	--	--	--	--	5000 U	--	5000 U	--	--	--	5000 U
OZMW-21I2	35 - 45	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U
OZMW-21D	55 - 65	38600	--	--	--	--	45000	--	45300	--	--	--	37300
OZMW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22SR	5 - 15	9500	--	--	--	32300	--	--	32000	--	--	--	37900
OZMW-22I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22IR	20 - 30	26100	--	--	--	25200	--	--	25300	--	--	--	21500
OZMW-22I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5 - 15	15600	--	--	21600	--	--	--	9210	--	--	10300	--
OZMW-23I	20 - 30	16500	--	--	13300	--	--	--	6520	--	--	5000 U	--
OZMW-23I2	35 - 45	41200	--	--	43700	--	--	--	35300	--	--	20400	--
OZMW-23D	55 - 65	**387000**	--	--	176000 D	--	--	--	115000 D	--	--	98900 D	--
OZMW-24S	5 - 15	42900	--	--	43000 D	--	--	--	21400	--	--	34300	--
OZMW-24I	20 - 30	5000 U	--	--	5000 U	--	--	--	5000 U	--	--	5000 U	--
OZMW-24I2	35 - 45	20100	--	--	15600	--	--	--	23300	--	--	24300	--
OZMW-24D	55 - 65	**824000**	--	--	**682000 D**	--	--	--	**677000 D**	--	--	**496000 D**	--
OZMW-25S	5 - 15	5000 U	--	--	--	15100	--	--	41100	--	--	--	6970
OZMW-25I	20 - 30	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U
OZMW-25I2	35 - 45	15100	--	--	--	20000	--	--	8940	--	--	--	30600
OZMW-25D	55 - 65	18500	--	--	--	21500	--	--	28200	--	--	--	19300
OZMW-26S	5 - 15	7570	--	--	--	7060	--	--	7500	--	--	--	5000 U
OZMW-26I	20 - 30	10500	--	--	--	7430	--	--	5000 U	--	--	--	5770
OZMW-26I2	35 - 45	10500	--	--	--	24500	--	--	16400	--	--	--	5000 U
OZMW-26D	55 - 65	30500	--	--	--	30600	--	--	17500	--	--	--	33400

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Well ID	Screen Interval (feet bgs)	2011		2011									
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
Operable Unit No. 2 (OU-2)													
BBMW-01S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	--	--	--	--	--	--	--	--	--	--	--	70100 D
BBMW-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73 - 83	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23I	33 - 43	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	--	--	--	--	--	--	--	**518000 D**	--	--	**557000 D**	--
BBMW-25S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25 - 35	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-04S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--
MW-04D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25 - 35	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	2011		2011									
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
OU2MW-06	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3 - 7	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3 - 7	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60 - 75	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60 - 70	--	--	--	--	--	--	--	34600 D	--	--	--	--
OU2MW-19I	13 - 23	--	32400	--	39500	--	--	--	47400 D	--	--	--	17900
OU2MW-19I2	35 - 45	--	5000 U	--	5000 U	--	--	--	5260	--	--	--	5000 U
OU2MW-19D	65 - 70	--	59200 D	--	90500	--	--	--	227000 D	--	--	--	106000 D
OU2MW-20S	4 - 9	--	13100	--	20800	--	--	9390	--	--	7200	--	--
OU2MW-20I	13 - 23	--	57700 D	--	77800	--	--	44400	--	--	47200	--	--
OU2MW-20I2	35 - 45	--	16000	--	17400	--	--	12100	--	--	14700	--	--
OU2MW-20D	65 - 70	--	65900 D	--	120000 J	--	--	58500 D	--	--	40200	--	--
OU2MW-21I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G
Sulfate Concentrations (µg/L)
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Well ID	Screen Interval (feet bgs)	2011		2011									
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
OU2MW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67 - 72	--	--	--	--	--	--	--	62300 D	--	--	--	--
OU2MW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62 - 67	--	--	--	--	--	--	**535000 D**	--	--	--	**496000 D**	--
OU2MW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70 - 75	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6 - 11	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60 - 70	--	--	--	--	--	--	--	--	--	--	46600	--
OU2MW-27S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	**296000 D**
OU2MW-28S	5 - 15	--	27700	--	26700	--	--	25500	--	--	15500	--	--
OU2MW-28I	28 - 33	--	28600	--	30000	--	--	8700	--	--	19000	--	--
OU2MW-28I2	40 - 45	--	54900 D	--	49900	--	--	43800	--	--	41300	--	--
OU2MW-29I	18 - 23	--	61900 D	--	107000 D	--	--	78800	--	--	92700 D	--	--
OU2MW-29I2	30 - 35	--	5000 U	--	11600	--	--	22300	--	--	54600 D	--	--
OU2MW-29D	45 - 50	--	56400 D	--	90000 D	--	--	114000	--	--	126000 D	--	--
OU2MW-30S	5 - 15	--	61000 D	--	42400	--	--	33000	--	--	23600	--	--
OU2MW-30I	25 - 30	--	51900 D	--	38000	--	--	33600	--	--	38100	--	--
OU2MW-30I2	30 - 35	--	35100	--	49200	--	--	44500	--	--	32900	--	--
OU2MW-30I3	45 - 50	--	61800 D	--	60500 D	--	--	38300	--	--	37300	--	--
OU2MW-30D	50 - 55	--	48900	--	39000	--	--	47200	--	--	55500 D	--	--
OU2MW-30D2	60 - 65	--	27800	--	29100	--	--	45500	--	--	36900	--	--
OU2MW-31I	18 - 23	--	90100 D	--	115000 D	--	--	65800	--	--	79500 D	--	--
OU2MW-31I2	30 - 35	--	43900	--	34900	--	--	45500	--	--	53300 D	--	--
OU2MW-32S	5 - 15	--	13200	--	12000	--	--	11400	--	--	10600	--	--
OU2MW-32I	20 - 25	--	46900	--	71500 D	--	--	55300	--	--	48000	--	--
OU2MW-32I2	30 - 35	--	65800 D	--	117000 D	--	--	63300	--	--	73100 D	--	--
OU2MW-32D	40 - 45	--	34700	--	37600	--	--	44500	--	--	69000 D	--	--
OU2MW-35S	5 - 15	--	42200	--	--	43700	--	--	29100	--	--	14400	--
OU2MW-35I	25 - 30	--	25000	--	--	24400	--	--	28200	--	--	14200	--
OU2MW-35I2	45 - 50	--	42700	--	--	53500 D	--	--	75200	--	--	107000 D	--
OU2MW-35D	57 - 62	--	**436000 D**	--	--	**394000 DH**	--	--	**291000**	--	--	168000 D	--
OU2MW-36S	5 - 15	--	15500	--	--	14500	--	14900	--	--	--	7010	--
OU2MW-36I	25 - 30	--	45500	--	--	48300 D	--	39900	--	--	--	36200	--

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		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
OU2MW-36I2	45 - 50	--	92700 D	--	--	84800 D	--	105000	--	--	--	108000 D	--
OU2MW-36D	61 - 66	--	**299000 D**	--	--	**268000 D**	--	**378000**	--	--	--	**445000 D**	--
OU2MW-37S	5 - 15	--	14400	--	--	26100	--	--	10700	--	--	17200	--
OU2MW-37I	25 - 30	--	14700	--	--	16100	--	--	11100	--	--	11500	--
OU2MW-37I2	45 - 50	--	24800	--	--	35000	--	--	38000	--	--	19500	--
OU2MW-37D	67 - 72	--	116000 D	--	--	143000 D	--	--	145000	--	--	75200 D	--
OU2MW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56 - 61	--	--	--	--	--	--	--	75500	--	--	--	--
OU2MW-39S	5 - 15	30800	--	--	24900	--	--	--	17800	--	17500	--	--
OU2MW-39I	25 - 30	14900	--	--	12100	--	--	--	7410	--	9230	--	--
OU2MW-39I2	45 - 50	63500 D	--	--	94800 D	--	--	--	58900	--	49700	--	--
OU2MW-39D	70 - 75	95200 D	--	--	99500 D	--	--	--	42000	--	39100	--	--
OU2MW-40S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42S	5 - 15	--	40500	--	--	41700	--	--	35900	--	--	39400	--
OU2MW-42I	25 - 30	--	15600	--	--	9080	--	--	5830	--	--	8980	--
OU2MW-42I2	45 - 50	--	36100	--	--	31400	--	--	23700	--	--	30700	--
OU2MW-42D	60 - 65	--	**828000 D**	--	--	**547000 D**	--	--	**389000**	--	--	**585000 D**	--
OU2MW-43S	5 - 15	--	--	105000 D	--	52100 D	--	36300	--	--	--	43800	--
OU2MW-43I	25 - 30	--	**303000 D**	--	--	5010	--	5000 U	--	--	--	5000 U	--
OU2MW-43I2	45 - 50	--	6380	--	--	5000 U	--	5000 U	--	--	--	5000 U	--
OU2MW-43D	65 - 70	--	9450	--	--	**398000 D**	--	**364000**	--	--	--	7340	--
OU2MW-44S	5 - 15	--	--	18700	--	18500	--	22600	--	--	--	--	15700
OU2MW-44I	25 - 30	--	--	26600	--	26600	--	20200	--	--	--	--	13500
OU2MW-44I2	45 - 50	--	--	21000	--	21400	--	18200	--	--	--	--	16600
OU2MW-44D	65 - 70	--	--	29600	--	31700	--	29900	--	--	--	--	28300
OU2MW-45S	5 - 15	--	--	11200	--	13300	--	--	14700	--	--	21900	--
OU2MW-45I	20 - 25	--	--	45000	76200 D	--	--	--	93400	--	--	62700 D	--
OU2MW-45I2	40 - 45	--	--	14200	--	29600	--	--	19300	--	--	13900	--
OU2MW-45D	55 - 60	--	--	17900	5240	--	--	--	23400	--	--	20700	--
OU2MW-46S	5 - 15	--	22200	--	51400 D	--	--	--	39400	--	--	26400	--
OU2MW-46I	20 - 25	--	41500	--	50900 D	--	--	--	18500	--	--	15200	--
OU2MW-46I2	40 - 45	--	40100	--	49900	--	--	--	27300	--	--	27000	--
OU2MW-47S	5 - 15	46000	--	--	49200	--	--	--	29000	--	25500	--	--
OU2MW-47I	20 - 25	57000 D	--	--	55100 D	--	--	--	19900	--	8670	--	--
OU2MW-47I2	40 - 45	17800	--	--	20700	--	--	--	13100	--	6780	--	--
OU2MW-47D	60 - 65	40900	--	--	33600	--	--	--	31500	--	40300	--	--
OU2MW-52S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5 - 15	--	--	40600	--	--	--	--	--	--	--	--	--

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		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
OU2MW-54I	25 - 30	--	--	16900	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40 - 45	--	--	19900	--	--	--	--	--	--	--	--	--
OU2MW-54D	60 - 65	--	--	25900	--	--	--	--	--	--	--	--	--
OU2MW-55S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 3 (OU-3)													
MW-64	19 - 24	--	--	--	--	--	5000 U	--	--	--	--	--	--
MWBS-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2 - 12	--	--	--	--	--	38600	--	--	--	--	--	--
OU3MW-08I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25 - 30	--	--	--	--	--	5000 U	--	--	--	--	--	--
OU3MW-09I2	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No.4 (OU-4)													
WCMW-01S	2 - 12	--	**1100000 D**	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35 - 45	--	34700	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64 - 74	--	147000 D	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3 - 13	--	12200	--	--	--	19600	19800	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	136000 D	--	--	--	135000 D	5000 U	--	--	--	--	--
WCMW-02D	62 - 72	--	5000 U	--	--	--	5000 U	96200 D	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	229000 D	--	--	47400
WCMW-04I	19 - 24	--	--	--	--	--	--	--	--	87500 D	--	--	13100
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	234000 D	--	--	36800
WCMW-05S	1.15 - 11.15	--	--	--	--	--	--	--	--	**524000 D**	--	--	**306000 D**
WCMW-05I	19.61 - 24.61	--	--	--	--	--	--	--	--	12700	--	--	11500
WCMW-05I2	29.46 - 34.46	--	--	--	--	--	--	--	--	137000 D	--	--	19600
WCMW-06S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40 - 50	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5 - 15	--	--	--	--	--	--	--	--	59800 D	--	--	--
WCMW-11I	25 - 30	--	--	--	--	--	--	--	--	36000	--	--	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2011		2011									
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
WCMW-11D	50 - 60	--	--	--	--	--	--	--	--	77600 D	--	--	--
WCMW-13S	3 - 13	--	20000	--	26200	--	--	--	--	--	--	--	--
WCMW-13I	25 - 30	--	5000	--	5000 U	--	--	--	--	--	--	--	--
WCMW-13D	65 - 70	--	5000 U	--	5060	--	--	--	--	--	--	--	--
WCMW-14S	2 - 12	--	5000 U	--	27100	--	--	96200 D	--	--	--	--	95000 D
WCMW-14I	20 - 25	--	5000 U	--	5000 U	--	--	5000 U	--	--	--	--	31400
WCMW-14I2	30 - 35	--	39600	--	42800	--	--	34400	--	--	--	--	34200
WCMW-14D	67 - 72	--	6160	--	6290	--	--	6630	--	--	--	--	7030
WCMW-16S	2 - 12	--	154000 D	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20 - 25	--	20600	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30 - 35	--	24600	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2 - 7	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2 - 12	--	21000	--	33800	--	--	--	--	--	--	--	--
WCMW-19I	20 - 25	--	24900	--	29500	--	--	--	--	--	--	--	--
WCMW-19I2	30 - 35	--	22000	--	18700	--	--	--	--	--	--	--	--
WCMW-25I	30 - 35	--	--	--	--	--	--	--	--	46700 D	--	--	41800
WCMW-25D	55 - 60	--	--	--	--	--	--	--	--	106000 D	--	--	120000 D

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2012		
		Jan-12	Feb-12	Mar-12
Operable Unit No. 1 (OU-1)				
BBMW-04D	63 - 73	--	--	--
BBMW-05D	64 - 74	--	--	--
BBMW-06S	5 - 15	--	--	--
BBMW-06I	30 - 40	--	--	--
BBMW-06D	66 - 76	--	--	--
BBMW-08D	65 - 75	--	--	--
BBMW-17S	5.5 - 15.5	--	--	--
BBMW-17I	30.5 - 40.5	--	--	--
BBMW-18S	6 - 16	--	--	--
BBMW-18I	30 - 40	--	--	--
BBMW-18D	60 - 70	--	--	--
BBMW-19S	6 - 16	--	--	--
BBMW-19I	29.6 - 39.6	--	--	--
BBMW-19D	64.75 - 74.75	--	--	--
BBMW-20S	4 - 14	--	--	--
BBMW-20I	35 - 45	--	--	--
BBMW-20D	62 - 72	--	--	--
BBMW-22S	5 - 10	--	--	--
BBMW-22I	30 - 40	--	--	--
BBMW-22D	64 - 74	--	--	--
BBMW-34S	5 - 15	--	--	--
BBMW-34I	25 - 30	--	--	--
BBMW-34I2	40 - 45	--	--	--
BBMW-34D	65 - 70	--	--	--
BBMW-38S	5 - 15	--	--	--
BBMW-38I	25 - 30	--	--	--
BBMW-38I2	40 - 45	--	--	--
BBMW-38D	65 - 70	--	--	--
BBMW-39S	5 - 15	--	--	--
BBMW-39I	25 - 30	--	--	--
BBMW-39I2	45 - 50	--	--	--
BBMW-39D	65 - 70	--	--	--
BBMW-41S	6 - 16	--	--	--
BBMW-41I	25 - 30	--	--	--
BBMW-41I2	45 - 50	--	--	--
BBMW-41D	65 - 70	--	--	--
MW-05S	4 - 14	--	--	--
MW-05D	35.5 - 45.5	--	--	--
MW-08S	2 - 12	--	--	--
MW-08D	35 - 45	--	--	--
MW-09S	4 - 14	--	--	--
MW-09I	30 - 40	--	--	--
MW-09I2	45 - 50	--	--	--
MW-09D	65 - 70	--	--	--
OU2MW-48S	3 - 13	--	--	--
OU2MW-48I	25 - 30	--	--	--
OU2MW-48I2	45 - 50	--	--	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2012		
		Jan-12	Feb-12	Mar-12
OU2MW-48D	65 - 70	--	--	--
OU2MW-49S	3 - 13	--	--	--
OU2MW-49I	25 - 30	--	--	--
OU2MW-49I2	45 - 50	--	--	--
OU2MW-49D	63 - 68	--	--	--
OZMW-16S	5 - 15	--	--	13700
OZMW-16I	20 - 30	--	--	5000 U
OZMW-16I2	35 - 45	--	--	16700
OZMW-16D	55 - 65	--	--	76100 D
OZMW-17S	5 - 15	--	10400	--
OZMW-17I	20 - 30	--	5000 U	--
OZMW-17I2	35 - 45	--	27800	--
OZMW-17D	53 - 63	--	112000 D	--
OZMW-18S	5 - 15	--	--	8990
OZMW-18I	20 - 30	--	--	5000 U
OZMW-18I2	35 - 45	--	--	5000 U
OZMW-18D	55 - 65	--	--	155000 D
OZMW-19S	5 - 15	--	5000 U	--
OZMW-19I	20 - 30	--	5000 U	--
OZMW-19I2	35 - 45	--	5000 U	--
OZMW-19D	55 - 65	--	39100	--
OZMW-21S	5 - 15	--	--	5000 U
OZMW-21I	20 - 30	--	--	5000 U
OZMW-21I2	35 - 45	--	--	125000 U
OZMW-21D	55 - 65	--	--	39400
OZMW-22S	5 - 15	--	--	--
OZMW-22SR	5 - 15	--	--	23100
OZMW-22I	20 - 30	--	--	--
OZMW-22IR	20 - 30	--	--	26100
OZMW-22I2	35 - 45	--	--	--
OZMW-22D	55 - 65	--	--	--
OZMW-23S	5 - 15	--	9090	--
OZMW-23I	20 - 30	--	5000 U	--
OZMW-23I2	35 - 45	--	46000	--
OZMW-23D	55 - 65	--	122000 D	--
OZMW-24S	5 - 15	--	35500	--
OZMW-24I	20 - 30	--	5000 U	--
OZMW-24I2	35 - 45	--	18400	--
OZMW-24D	55 - 65	--	**739000 D**	--
OZMW-25S	5 - 15	--	--	5000 U
OZMW-25I	20 - 30	--	--	5000 U
OZMW-25I2	35 - 45	--	--	25500
OZMW-25D	55 - 65	--	--	18600
OZMW-26S	5 - 15	--	10500	--
OZMW-26I	20 - 30	--	5000 U	--
OZMW-26I2	35 - 45	--	16000	--
OZMW-26D	55 - 65	--	35600	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2012		
		Jan-12	Feb-12	Mar-12
Operable Unit No. 2 (OU-2)				
BBMW-01S	5 - 15	--	--	--
BBMW-01I	32 - 42	--	--	--
BBMW-01D	68.5 - 78.5	--	--	49500 D
BBMW-02S	5 - 15	--	--	--
BBMW-02I	30 - 40	--	--	--
BBMW-02D	73 - 83	--	--	--
BBMW-03S	3 - 13	--	--	--
BBMW-03I	30 - 40	--	--	--
BBMW-03D	52 - 62	--	--	--
BBMW-07D	55 - 65	--	--	--
BBMW-23S	5 - 15	--	--	--
BBMW-23I	33 - 43	--	--	--
BBMW-23D	49.5 - 59.5	--	--	--
BBMW-24S	4 - 14	--	--	--
BBMW-24I	32 - 42	--	--	--
BBMW-24D	59.5 - 69.5	--	**589000 D**	--
BBMW-25S	4 - 14	--	--	--
BBMW-25I	25 - 35	--	--	--
BBMW-25D	62 - 72	--	--	--
GM-05S	5.1 - 20.1	--	--	--
GM-05I	35.05 - 48.05	--	--	--
GM-05D	60.95 - 75.95	--	--	--
GMP-01	25 - 30	--	--	--
GMP-04	15.5 - 20.5	--	--	--
MW-04S	4 - 14	--	--	--
MW-04D	35 - 45	--	--	--
OU2IW-01S	3 - 8	--	--	--
OU2MW-01WT	3 - 8	--	--	--
OU2MW-01S	20 - 25	--	--	--
OU2MW-01I	35 - 40	--	--	--
OU2MW-01I2	50 - 55	--	--	--
OU2MW-01D	65 - 70	--	--	--
OU2MW-02S	20 - 25	--	--	--
OU2MW-02I	35 - 40	--	--	--
OU2MW-02I2	50 - 55	--	--	--
OU2MW-02D	65 - 70	--	--	--
OU2MW-03S	20 - 25	--	--	--
OU2MW-03I	35 - 40	--	--	--
OU2MW-03I2	50 - 55	--	--	--
OU2MW-03D	65 - 70	--	--	--
OU2MW-04WT	3 - 8	--	--	--
OU2MW-04S	20 - 25	--	--	--
OU2MW-04I	35 - 40	--	--	--
OU2MW-04I2	50 - 55	--	--	--
OU2MW-04D	65 - 70	--	--	--
OU2MW-05	25 - 35	--	--	--
OU2MW-06S	3 - 8	--	--	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2012		
		Jan-12	Feb-12	Mar-12
OU2MW-06	15 - 25	--	--	--
OU2MW-07S	3 - 8	--	--	--
OU2MW-07	15 - 25	--	--	--
OU2MW-08WT	3 - 8	--	--	--
OU2MW-08S	20 - 25	--	--	--
OU2MW-08I	35 - 40	--	--	--
OU2MW-08I2	50 - 55	--	--	--
OU2MW-08D	65 - 70	--	--	--
OU2MW-09	30 - 40	--	--	--
OU2MW-10S	3 - 7	--	--	--
OU2MW-10I	20 - 25	--	--	--
OU2MW-10D	35 - 40	--	--	--
OU2MW-11S	3 - 8	--	--	--
OU2MW-11I	20 - 25	--	--	--
OU2MW-11I2	30 - 35	--	--	--
OU2MW-11D	40 - 45	--	--	--
OU2MW-12S	3 - 7	--	--	--
OU2MW-12I	20 - 25	--	--	--
OU2MW-12I2	30 - 35	--	--	--
OU2MW-12D	40 - 45	--	--	--
OU2MW-13S	3 - 8	--	--	--
OU2MW-13I	20 - 25	--	--	--
OU2MW-13D	35 - 40	--	--	--
OU2MW-14S	3 - 8	--	--	--
OU2MW-15S	3 - 8	--	--	--
OU2MW-15I	20 - 25	--	--	--
OU2MW-15I2	30 - 35	--	--	--
OU2MW-15D	40 - 45	--	--	--
OU2MW-16S	3 - 8	--	--	--
OU2MW-16I	15 - 20	--	--	--
OU2MW-16I2	25 - 30	--	--	--
OU2MW-16D	35 - 40	--	--	--
OU2MW-17S	5 - 10	--	--	--
OU2MW-17I	13 - 23	--	--	--
OU2MW-17I2	35 - 45	--	--	--
OU2MW-17D	60 - 75	--	--	--
OU2MW-18I	13 - 23	--	--	--
OU2MW-18I2	35 - 45	--	--	--
OU2MW-18D	60 - 70	--	--	--
OU2MW-19I	13 - 23	--	--	37100
OU2MW-19I2	35 - 45	--	--	5000 U
OU2MW-19D	65 - 70	--	--	50000
OU2MW-20S	4 - 9	--	10100	--
OU2MW-20I	13 - 23	--	67400 D	--
OU2MW-20I2	35 - 45	--	16400	--
OU2MW-20D	65 - 70	--	17900	--
OU2MW-21I	13 - 23	--	--	--
OU2MW-21I2	35 - 45	--	--	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2012		
		Jan-12	Feb-12	Mar-12
OU2MW-22S	5 - 15	--	--	--
OU2MW-22I	25 - 30	--	--	--
OU2MW-22I2	46 - 51	--	--	--
OU2MW-22D	67 - 72	--	--	--
OU2MW-23S	5 - 15	--	--	--
OU2MW-23I	25 - 30	--	--	--
OU2MW-23I2	45 - 50	--	--	--
OU2MW-23D	65 - 70	--	--	--
OU2MW-24S	5 - 15	--	--	--
OU2MW-24I	25 - 30	--	--	--
OU2MW-24I2	45 - 50	--	--	--
OU2MW-24D	62 - 67	--	**527000 D**	--
OU2MW-25S	5 - 15	--	--	--
OU2MW-25I	25 - 30	--	--	--
OU2MW-25I2	45 - 50	--	--	--
OU2MW-25D	70 - 75	--	--	--
OU2MW-26S	6 - 11	--	--	--
OU2MW-26I	13 - 23	--	--	--
OU2MW-26I2	35 - 45	--	--	--
OU2MW-26D	60 - 70	--	--	--
OU2MW-27S	5 - 15	--	--	--
OU2MW-27I	25 - 30	--	--	--
OU2MW-27I2	45 - 50	--	--	--
OU2MW-27D	65 - 70	--	100000 D	--
OU2MW-28S	5 - 15	--	33400	--
OU2MW-28I	28 - 33	--	13900	--
OU2MW-28I2	40 - 45	--	39000	--
OU2MW-29I	18 - 23	--	96200 D	--
OU2MW-29I2	30 - 35	--	50300 D	--
OU2MW-29D	45 - 50	--	167000 D	--
OU2MW-30S	5 - 15	--	26600	--
OU2MW-30I	25 - 30	--	33800	--
OU2MW-30I2	30 - 35	--	34500	--
OU2MW-30I3	45 - 50	--	39500	--
OU2MW-30D	50 - 55	--	49600	--
OU2MW-30D2	60 - 65	--	63400 D	--
OU2MW-31I	18 - 23	--	58400 D	--
OU2MW-31I2	30 - 35	--	44500	--
OU2MW-32S	5 - 15	--	8060	--
OU2MW-32I	20 - 25	--	29600	--
OU2MW-32I2	30 - 35	--	48800	--
OU2MW-32D	40 - 45	--	71200 D	--
OU2MW-35S	5 - 15	--	24200	--
OU2MW-35I	25 - 30	--	14600	--
OU2MW-35I2	45 - 50	--	41000	--
OU2MW-35D	57 - 62	--	139000 D	--
OU2MW-36S	5 - 15	--	9120	--
OU2MW-36I	25 - 30	--	25100	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2012		
		Jan-12	Feb-12	Mar-12
OU2MW-36I2	45 - 50	--	111000 D	--
OU2MW-36D	61 - 66	--	**416000 D**	--
OU2MW-37S	5 - 15	--	14300	--
OU2MW-37I	25 - 30	--	21800	--
OU2MW-37I2	45 - 50	--	25200	--
OU2MW-37D	67 - 72	--	144000 D	--
OU2MW-38S	5 - 15	--	--	--
OU2MW-38I	25 - 30	--	--	--
OU2MW-38I2	46 - 51	--	--	--
OU2MW-38D	56 - 61	--	--	--
OU2MW-39S	5 - 15	--	17800	--
OU2MW-39I	25 - 30	--	5000 U	--
OU2MW-39I2	45 - 50	--	44500	--
OU2MW-39D	70 - 75	--	40400	--
OU2MW-40S	5 - 15	--	--	--
OU2MW-40I	18 - 23	--	--	--
OU2MW-41S	5 - 15	--	--	--
OU2MW-41I	18 - 23	--	--	--
OU2MW-42S	5 - 15	--	32900	--
OU2MW-42I	25 - 30	--	5000 U	--
OU2MW-42I2	45 - 50	--	25700	--
OU2MW-42D	60 - 65	--	**633000 D**	--
OU2MW-43S	5 - 15	--	--	51200 D
OU2MW-43I	25 - 30	--	--	5000 U
OU2MW-43I2	45 - 50	--	--	20400
OU2MW-43D	65 - 70	--	--	**438000 D**
OU2MW-44S	5 - 15	--	--	24900
OU2MW-44I	25 - 30	--	--	17300
OU2MW-44I2	45 - 50	--	--	19800
OU2MW-44D	65 - 70	--	--	30200
OU2MW-45S	5 - 15	--	21600	--
OU2MW-45I	20 - 25	--	89700 D	--
OU2MW-45I2	40 - 45	--	12700	--
OU2MW-45D	55 - 60	--	16900	--
OU2MW-46S	5 - 15	--	31800	--
OU2MW-46I	20 - 25	--	14100	--
OU2MW-46I2	40 - 45	--	19400	--
OU2MW-47S	5 - 15	--	37900	--
OU2MW-47I	20 - 25	--	60100 D	--
OU2MW-47I2	40 - 45	--	12700	--
OU2MW-47D	60 - 65	--	30300	--
OU2MW-52S	3 - 8	--	--	--
OU2MW-52I	20 - 25	--	--	--
OU2MW-52D	35 - 40	--	--	--
OU2MW-53S	3 - 8	--	--	--
OU2MW-53I	20 - 25	--	--	--
OU2MW-53D	35 - 40	--	--	--
OU2MW-54S	5 - 15	--	--	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2012		
		Jan-12	Feb-12	Mar-12
OU2MW-54I	25 - 30	--	--	--
OU2MW-54I2	40 - 45	--	--	--
OU2MW-54D	60 - 65	--	--	--
OU2MW-55S	5 - 15	--	--	--
OU2MW-55I	30 - 35	--	--	--
OU2MW-55I2	50 - 55	--	--	--
OU2MW-55D	65 - 70	--	--	--
OU2MW-56S	5 - 15	--	--	--
OU2MW-56I	25 - 30	--	--	--
OU2MW-56I2	45 - 50	--	--	--
OU2MW-56D	65 - 70	--	--	--
Operable Unit No. 3 (OU-3)				
MW-64	19 - 24	--	--	--
MWBS-02S	5 - 15	--	--	--
OU3MW-01S	3 - 13	--	--	--
OU3MW-02S	3 - 13	--	--	--
OU3MW-02I	15 - 20	--	--	--
OU3MW-07S	3 - 13	--	--	--
OU3MW-07I	15 - 20	--	--	--
OU3MW-07I2	20 - 25	--	--	--
OU3MW-08S	2 - 12	--	--	--
OU3MW-08I	25 - 30	--	--	--
OU3MW-09S	2 - 12	--	--	--
OU3MW-09I	25 - 30	--	--	--
OU3MW-09I2	35 - 40	--	--	--
Operable Unit No.4 (OU-4)				
WCMW-01S	2 - 12	--	--	--
WCMW-01I	35 - 45	--	--	--
WCMW-01D	64 - 74	--	--	--
WCMW-02S	3 - 13	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--
WCMW-02D	62 - 72	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--
WCMW-04S	1.6 - 11.6	34200	--	--
WCMW-04I	19 - 24	12800	--	--
WCMW-04I2	29.85 - 34.85	26600	--	--
WCMW-05S	1.15 - 11.15	231000	--	--
WCMW-05I	19.61 - 24.61	13800	--	--
WCMW-05I2	29.46 - 34.46	16300	--	--
WCMW-06S	2 - 12	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--
WCMW-10S	15 - 20	--	--	--
WCMW-10D	40 - 50	--	--	--
WCMW-11S	5 - 15	88700	--	--
WCMW-11I	25 - 30	10100	--	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Well ID	Screen Interval (feet bgs)	2012		
		Jan-12	Feb-12	Mar-12
WCMW-11D	50 - 60	48900	--	--
WCMW-13S	3 - 13	--	--	--
WCMW-13I	25 - 30	--	--	--
WCMW-13D	65 - 70	--	--	--
WCMW-14S	2 - 12	37100	--	--
WCMW-14I	20 - 25	68800	--	--
WCMW-14I2	30 - 35	35600	--	--
WCMW-14D	67 - 72	6260	--	--
WCMW-16S	2 - 12	--	--	--
WCMW-16I	20 - 25	--	--	--
WCMW-16I2	30 - 35	--	--	--
WCMW-17S	2 - 12	--	--	--
WCMW-17I	20 - 25	--	--	--
WCMW-17I2	30 - 35	--	--	--
WCMW-18WT	2 - 7	--	--	--
WCMW-18S	2 - 12	--	--	--
WCMW-18I	20 - 25	--	--	--
WCMW-18I2	30 - 35	--	--	--
WCMW-19S	2 - 12	--	--	--
WCMW-19I	20 - 25	--	--	--
WCMW-19I2	30 - 35	--	--	--
WCMW-25I	30 - 35	40900	--	--
WCMW-25D	55 - 60	129000	--	--

Appendix G
Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Notes:

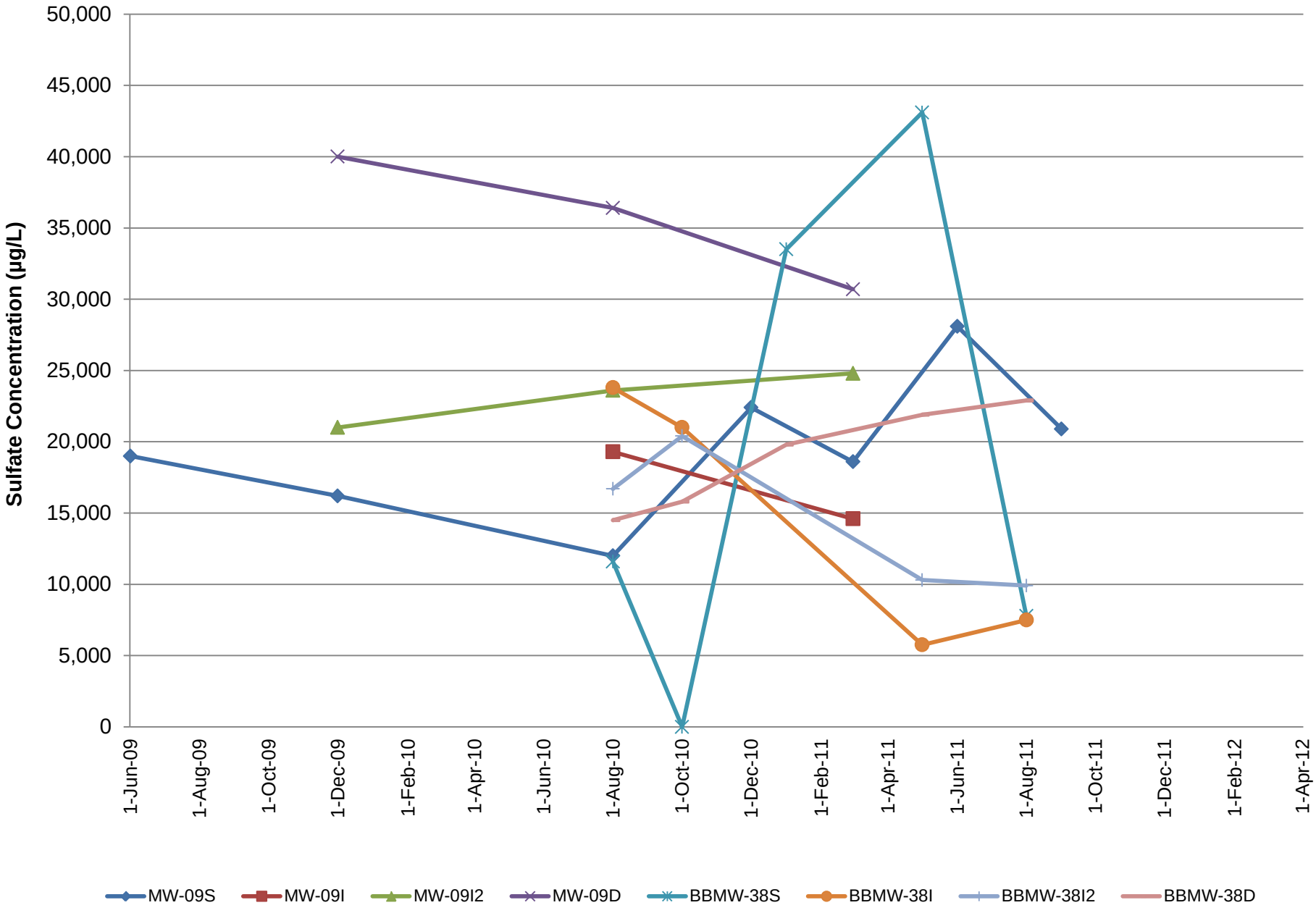
Values shown in micrograms per liter (µg/L) or parts per billion (ppb)

NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater

Shading and bolding indicates that the detected result value exceeds the New York State Ambient Water Quality Standards and Guidance Values for GA groundwater for sulfate (250,000 µg/L).

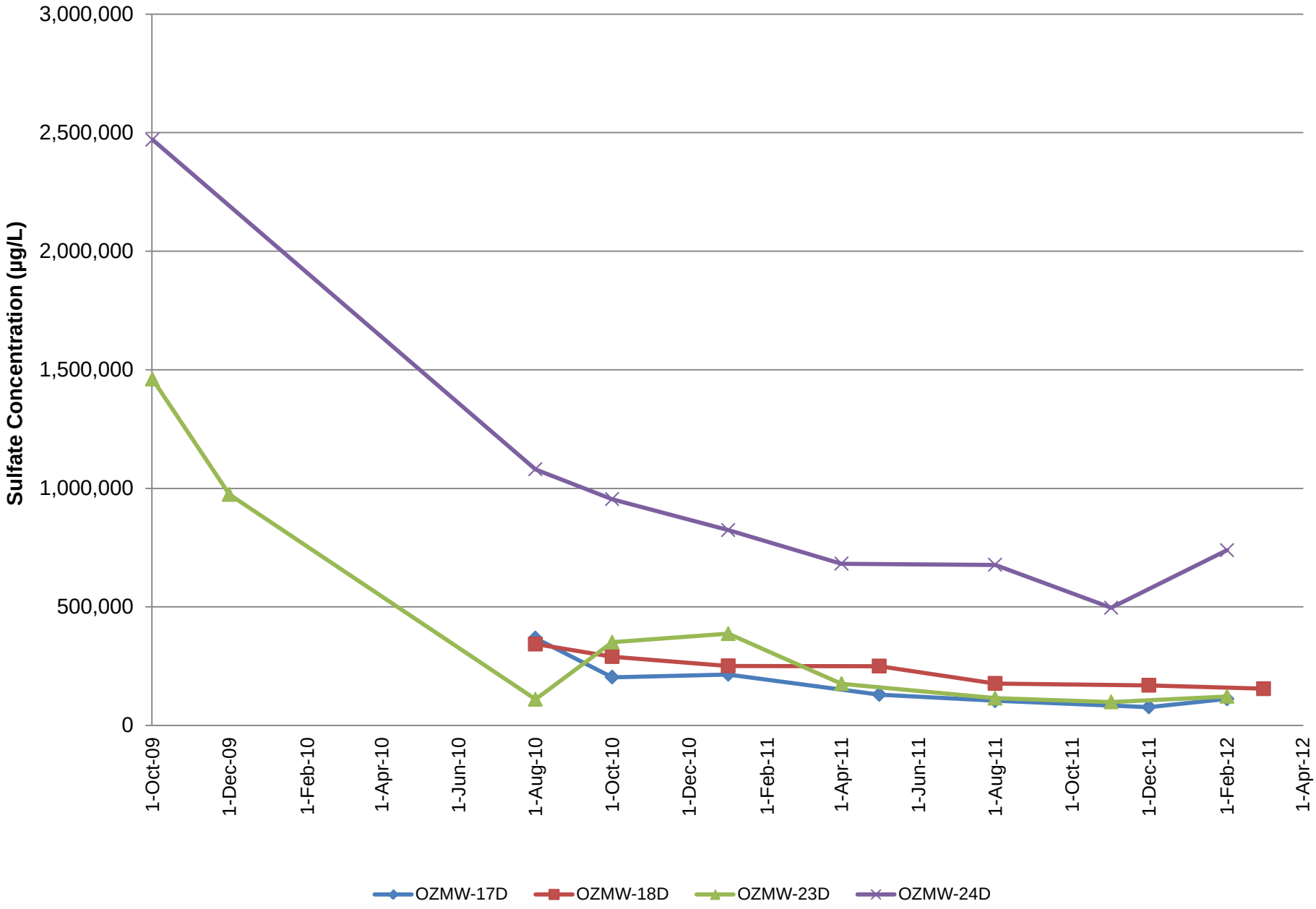
-- Not Analyzed

Appendix G - Graph G-1 - Background Sulfate Concentrations
OU-1 Wells Upgradient of In-Situ Remedial Action

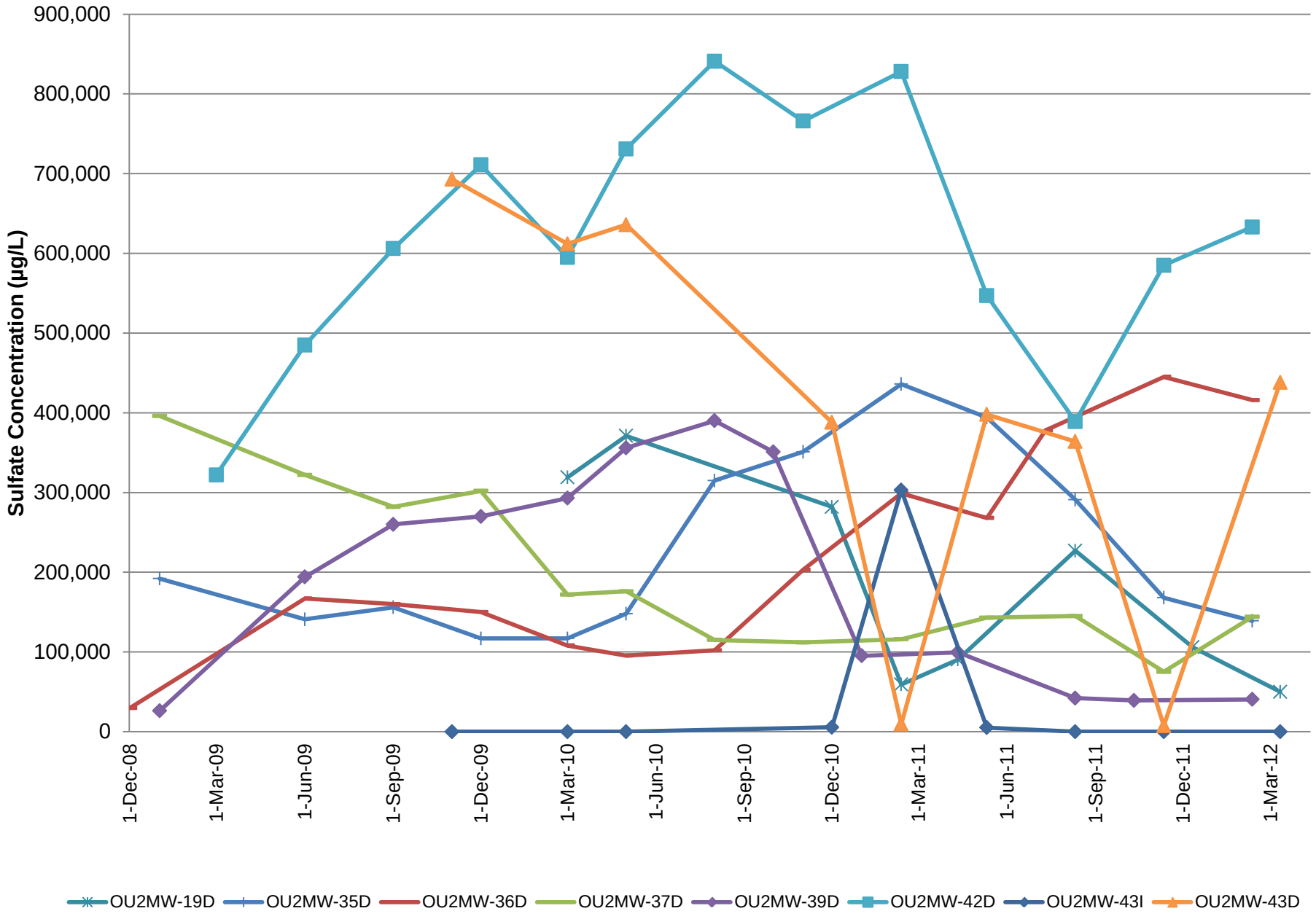


H:\WPROC\Project\KEYSPAN\Bay Shore\Qrtly GW Report\Q1 2012 Report\Appendices\Appendix G - Sulfate\
Appendix G - Sulfate_Q1 2012

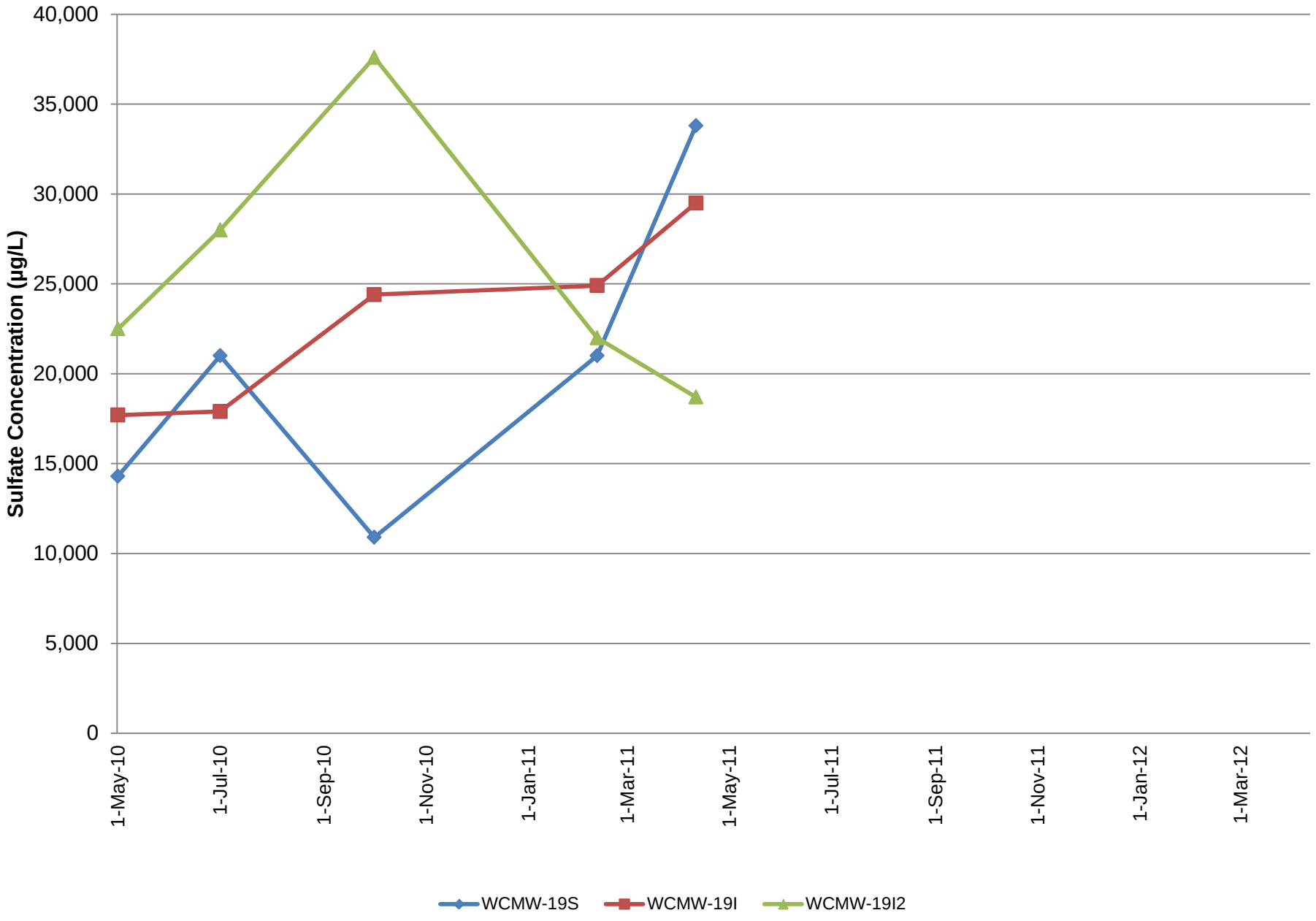
Appendix G - Graph G-2 - Sulfate Concentrations
OU-1 Wells Above AWQS Criteria (250,000 µg/L)



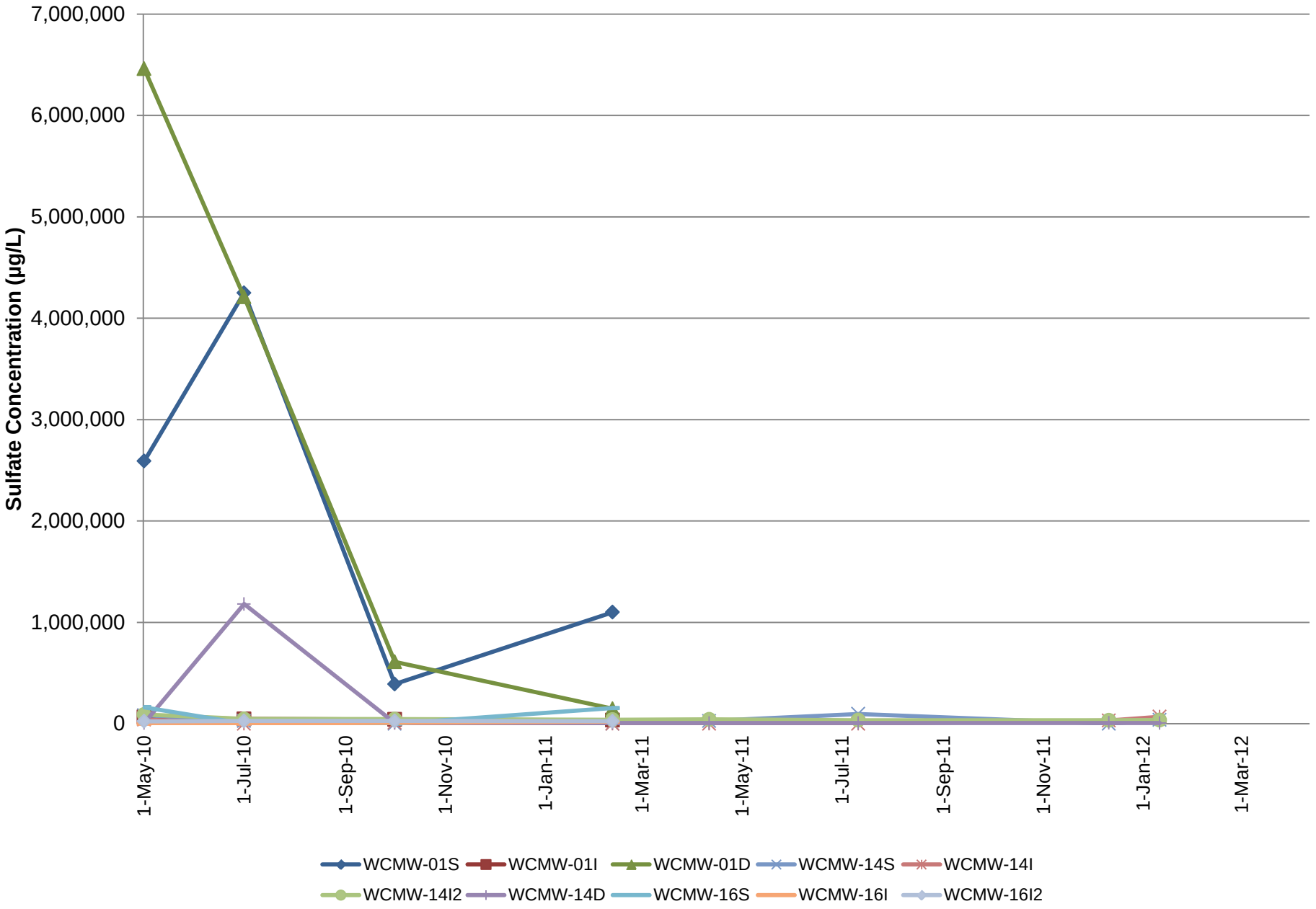
Appendix G - Graph G-3 - Sulfate Concentrations
OU-2 Wells Above AWQS Criteria (250,000 µg/L)



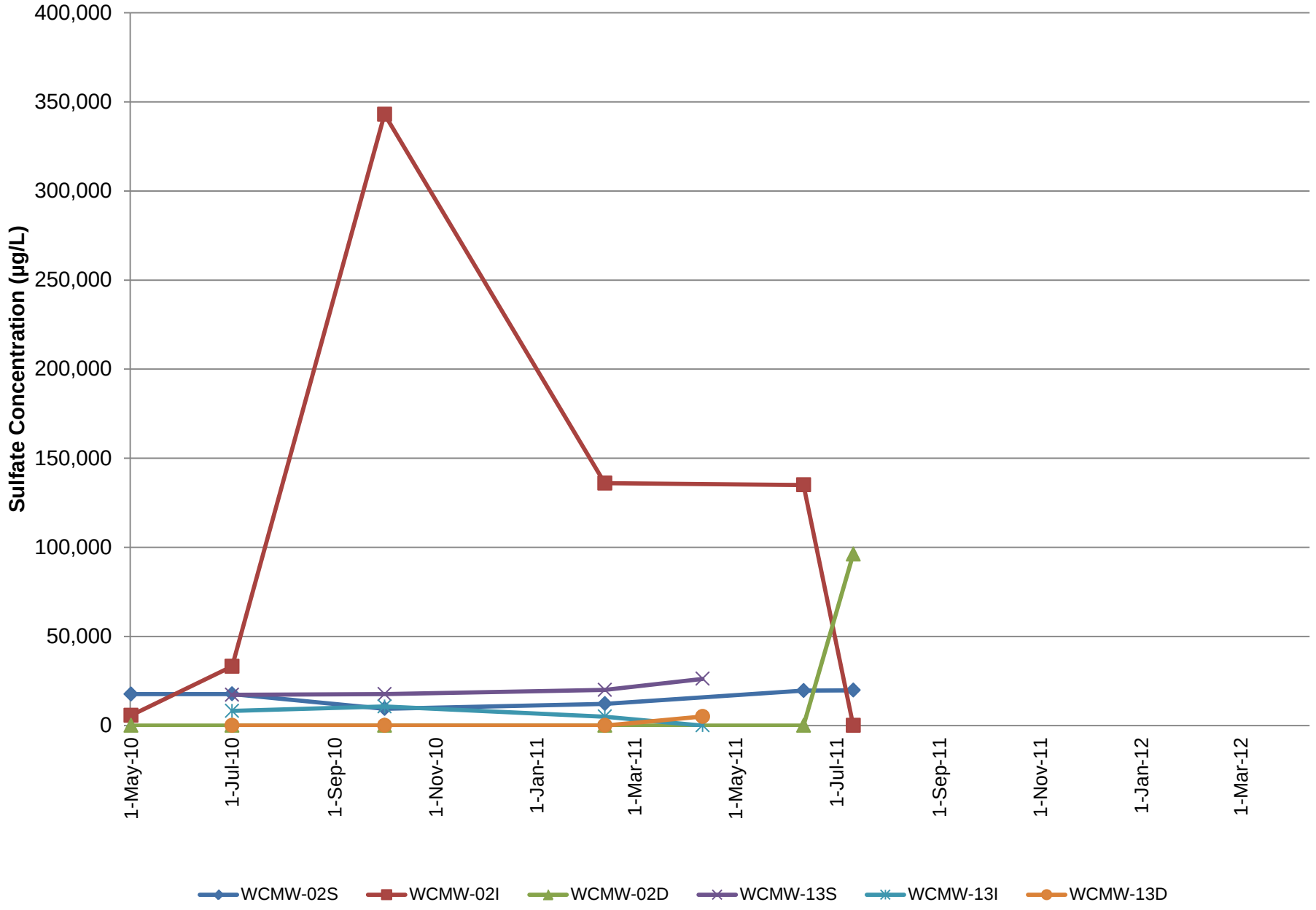
Appendix G - Graph G-4 - Sulfate Concentrations
OU-4 Wells Upgradient of S-ISCO Treatment Area



Appendix G - Graph G-5 - Sulfate Concentrations
OU-4 Wells Within or Immediately Downgradient of S-ISCO Area



Appendix G - Graph G-6 - Sulfate Concentrations
OU-4 Wells Greater than 200-Feet Downgradient of S-ISCO Treatment Area



Appendix H
Monitoring Well Maintenance Checklist
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Location Designation	Date	Initials	Well Cover Intact? (Y/N)	Missing or Broken Screws? (Y/N - # missing)	Are Bolt Eyelets Broken? (Y/N)	Bolt Eyes Need To Be Retaped? (Y/N)	Cement In Well Box? (Y/N)	Drain Holes Drilled? (Y/N)	Does Well Box Need Replacing? (Y/N)	Is Well Plug Labeled Legibly and in Marker? (Y/N)	Are Sprinkler Boxes Intact (Y/N)	Recommendations/ Comments	Actions Taken
OU-1 Monitoring Wells													
BBMW-05D	3/1/2012	MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-05D2 - abandoned													
BBMW-05D2R	12/12/2011	EC/MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-13D	12/12/2011	EC/MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-20I	1/12/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-22S	1/12/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-22I	1/12/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-22D	1/12/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-26S	8/19/2011	MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-26I	1/5/2011	JS	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-27S	9/16/2011	JS	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-27I	9/16/2011	JS	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-34S	1/17/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-34I	1/17/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-34I2	1/17/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-34D	1/17/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-36S	1/12/2012	MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-36I	1/12/2012	MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-38S	1/18/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-38I	1/18/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-38I2	1/18/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-38D	1/18/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-39S	1/18/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-39I	1/18/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-39I2	1/18/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-39D	1/18/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-40S	12/17/2011	MK/AE	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-40I	12/17/2011	MK/AE	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-40I2	12/9/2011	EC/AE	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-40D	12/9/2011	EC/AE	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-41S	1/24/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-41I	1/24/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-41I2	1/24/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-41D	1/24/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
GM-01 - abandoned													
MW-03S	1/24/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
MW-03D	1/24/2012	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
MW-05S	12/6/2011	MK/EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
MW-05D	3/1/2012	MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
MW-09S	12/1/2011	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
MW-09I	12/1/2011	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
MW-09I2	12/1/2011	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
MW-09D	12/1/2011	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
OZMW-16S	3/2/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-16I	3/2/2012	MK	Y	N	Y (1)	N	N	N	N	Y	NA	two eyelets remaining	
OZMW-16I2	12/1/2011	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-16D	12/1/2011	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-17S	1/30/2012	JS	Y	N	N	N	N	N	Y	Y	NA	-	-
OZMW-17I	1/30/2012	JS	Y	N	N	N	N	N	Y	Y	NA	-	-
OZMW-17I2	1/30/2012	JS	Y	N	Y (3)	N	N	N	Y	Y	NA	needs replacement	Replaced in Q2 2012
OZMW-17D	1/30/2012	JS	Y	N	Y (2)	N	N	N	Y	Y	NA	needs replacement	Replaced in Q2 2012
OZMW-18S	3/7/2012	MQ	Y	N	N	Y	N	N	N	Y	NA	-	-
OZMW-18I	3/7/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-18I2	3/7/2012	MQ	Y	N	N	N	N	N	N	Y	NA	-	-

Appendix H
Monitoring Well Maintenance Checklist
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Location Designation	Date	Initials	Well Cover Intact? (Y/N)	Missing or Broken Screws? (Y/N - # missing)	Are Bolt Eyelets Broken? (Y/N)	Bolt Eyes Need To Be Retaped? (Y/N)	Cement In Well Box? (Y/N)	Drain Holes Drilled? (Y/N)	Does Well Box Need Replacing? (Y/N)	Is Well Plug Labeled Legibly and in Marker? (Y/N)	Are Sprinkler Boxes Intact (Y/N)	Recommendations/ Comments	Actions Taken
OZMW-18D	3/7/2012	MK	Y	N	Y (3)	Y	N	N	N	Y	NA	needs replacement	Replaced in Q2 2012
OZMW-19S	2/29/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-19I	2/29/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-19I2	12/5/2011	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-19D	12/5/2011	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-21S	12/5/2011	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
OZMW-21I	3/5/2012	MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
OZMW-21I2	12/5/2011	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
OZMW-21D	12/5/2011	EC	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
OZMW-22S - abandoned													
OZMW-22I - abandoned													
OZMW-22I2 - abandoned													
OZMW-22D - abandoned													
OZMW-22RS	3/2/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-22RI	3/2/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-23S	12/6/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-23I	2/29/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-23I2	2/29/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-23D	11/29/2011	MK/EC	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-24S	2/28/2012	MK/TL	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-24I	2/28/2012	MK/TL	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-24I2	2/28/2012	MK/TL	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-24D	11/29/2011	MK/EC	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-25S	3/1/2012	MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
OZMW-25I	3/1/2012	MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
OZMW-25I2	3/1/2012	MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
OZMW-25D	3/1/2012	MK	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
OZMW-26S	2/28/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-26I	2/29/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-26I2	12/2/2012	MK/EC	Y	N	N	N	N	N	N	Y	NA	-	-
OZMW-26D	12/2/2012	MK/EC	Y	N	N	N	N	N	N	Y	NA	-	-
DNAPL Recovery Well BBRW-02	-	-	-	-	-	-	-	-	-	-	-	not checked	-
DNAPL Recovery Well BBRW-03 - abandoned													
DNAPL Recovery Well BBRW-04 - abandoned													
DNAPL Recovery Well BBRW-05	-	-	-	-	-	-	-	-	-	-	-	not checked	-
DNAPL Recovery Well OU1RW-01	-	-	-	-	-	-	-	-	-	-	-	not checked	-
DNAPL Recovery Well OU1RW-02	-	-	-	-	-	-	-	-	-	-	-	not checked	-

Appendix H
Monitoring Well Maintenance Checklist
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Location Designation	Date	Initials	Well Cover Intact? (Y/N)	Missing or Broken Screws? (Y/N - # missing)	Are Bolt Eyelets Broken? (Y/N)	Bolt Eyes Need To Be Retaped? (Y/N)	Cement In Well Box? (Y/N)	Drain Holes Drilled? (Y/N)	Does Well Box Need Replacing? (Y/N)	Is Well Plug Labeled Legibly and in Marker? (Y/N)	Are Sprinkler Boxes Intact (Y/N)	Recommendations/ Comments	Actions Taken
OU-2 Monitoring Wells													
BBMW-01S	3/13/2012	MQ	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-01I	3/13/2012	MQ	Y	N	N	Y	N	N	N	Y	NA	-	-
BBMW-01D	3/13/2012	MQ	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-02S	3/14/2012	MQ	Y	N	N	Y	N	N	N	Y	NA	-	-
BBMW-02I	3/14/2012	MQ	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-02D	3/14/2012	MQ	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-03S	2/26/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
BBMW-03I	11/15/2011	MK/EC	Y	N	N	N	N	N	N	Y	Y	-	-
BBMW-03D	11/15/2011	MK/EC	Y	N	N	N	N	N	N	Y	Y	-	-
BBMW-04D	11/15/2011	MK/EC	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-07S	3/20/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-07I	3/20/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-07D	3/20/2012	MK	Y	N	N	N	N	N	Y	Y	NA	-	-
BBMW-15S	12/19/2011	MK/EC	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-15I	3/7/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-15I2	3/7/2012	MK	Y	N	N	N	N	N	N	Y	NA	needs to be re-tapped with larger tap	-
BBMW-15D	12/19/2011	MK/EC	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-16S	3/7/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-16I	3/7/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-16D	3/7/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-23S	2/2/2012	MK	Y	N	N	Y (2)	N	N	N	Y	NA	needs to be re-tapped with larger tap	-
BBMW-23I	12/20/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-23D	2/2/2012	MK	Y	N	N	Y (1)	N	N	N	Y	NA	-	re-tapped 1 bolt
BBMW-23D2	12/20/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-24S	2/13/2012	JS	Y	N	N	Y	N	N	N	Y	NA	needs re-tapping	-
BBMW-24I	2/13/2012	JS	Y	N	N	Y	N	N	N	Y	NA	needs re-tapping	-
BBMW-24D	2/13/2012	JS	Y	N	N	Y	N	N	N	Y	NA	needs re-tapping	-
BBMW-25S	1/18/2012	MK	Y	N	N	Y (2)	N	N	N	Y	NA	-	re-tapped
BBMW-25I	1/18/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-25D	1/18/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
GM-03S - abandoned													
GM-03I - abandoned													
GM-03D - abandoned													
GM-05S	2/2/2012	MK	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-05I	2/2/2012	MK	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-05D	2/2/2012	MK	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-06S	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-06I	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-06D	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-07S	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-07I	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-07D	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-08S	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-08I	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-08D	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-09S	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-09I	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-09D	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-10S	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-10I	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-10D	1/19/2011	EL	Y	NA	NA	NA	NA	N	N	Y	NA	-	-
GM-10AD	1/19/2011	EL	Y	N	N	N	N	N	N	Y	NA	-	-
GMP-01	3/13/2012	MQ	Y	N	N	Y	N	N	N	Y	NA	-	-
GMP-02	9/22/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-

Appendix H
Monitoring Well Maintenance Checklist
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Location Designation	Date	Initials	Well Cover Intact? (Y/N)	Missing or Broken Screws? (Y/N - # missing)	Are Bolt Eyelets Broken? (Y/N)	Bolt Eyes Need To Be Retaped? (Y/N)	Cement In Well Box? (Y/N)	Drain Holes Drilled? (Y/N)	Does Well Box Need Replacing? (Y/N)	Is Well Plug Labeled Legibly and in Marker? (Y/N)	Are Sprinkler Boxes Intact (Y/N)	Recommendations/ Comments	Actions Taken
GMP-04	9/15/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
MW-16AS	9/15/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
MW-57W	9/15/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
MW-58W	9/15/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2IW-01S	3/13/2012	MQ	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-01WT	1/18/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-01S	1/18/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-01I	1/18/2012	MK	Y	N	N	Y (2)	N	N	N	Y	Y	-	re-tapped
OU2MW-01I2	1/18/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-01D	1/18/2012	MK	Y	N	N	Y (1)	N	N	N	Y	Y	-	re-tapped
OU2MW-02S	11/16/2011	MK/EC	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-02I	11/16/2011	MK/EC	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-02I2	11/16/2011	MK/EC	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-02D	11/16/2011	MK/EC	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-03S	2/23/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-03I	2/23/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-03I2	2/23/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-03D	2/23/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-04WT	2/20/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-04S	11/14/2011	MK/EC	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-04I	11/14/2011	MK/EC	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-04I2	11/14/2011	MK/EC	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-04D	2/20/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-05	12/20/2011	MK	Y	N	N	Y	N	N	N	Y	N	-	Sprinkler box replaced
OU2MW-06	2/28/2012	JS	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-06S	2/28/2012	JS	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-07	2/24/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-07S	2/24/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-08WT	2/23/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-08S	2/23/2012	MK	Y	Y (1 MISSING)	N	Y (2)	N	N	N	Y	Y	-	re-tapped
OU2MW-08I	2/23/2012	MK	Y	N	N	Y (2)	N	N	N	Y	Y	-	re-tapped
OU2MW-08I2	2/23/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-08D	2/23/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-09	2/16/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-10S	12/7/2011	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-10I	2/3/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-10D	12/7/2011	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-11S	12/7/2011	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-11I	12/7/2011	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-11I2	12/7/2011	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-11D	12/7/2011	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-12S	12/5/2011	EC/MK	Y	N	N	Y	N	N	N	Y	Y	-	-
OU2MW-12I	12/5/2011	EC/MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-12I2	12/5/2011	EC/MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-12D	12/5/2011	EC/MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-13S	2/1/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-13I	2/1/2012	MK	Y	N	Y (1)	Y (2)	N	N	N	Y	Y	-	re-tapped
OU2MW-13D	2/1/2012	MK	Y	N	N	Y (1)	N	N	N	Y	Y	-	re-tapped
OU2MW-14I	3/20/2012	MK	Y	N	N	Y (2)	N	N	N	Y	NA	-	re-tapped
OU2MW-14I2	3/20/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-14S	3/20/2012	MK	Y	N	N	Y (2)	N	N	N	Y	NA	-	re-tapped
OU2MW-15S	2/2/2012	MK	Y	N	N	Y (2)	N	N	N	Y	Y	-	re-tapped
OU2MW-15I	2/2/2012	MK	Y	N	N	Y (2)	N	N	N	Y	Y	-	re-tapped
OU2MW-15I2	11/4/2011	EC	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-15D	11/4/2011	EC	Y	N	N	N	N	N	N	Y	Y	-	-

Appendix H
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Sample Location Designation	Date	Initials	Well Cover Intact? (Y/N)	Missing or Broken Screws? (Y/N - # missing)	Are Bolt Eyelets Broken? (Y/N)	Bolt Eyes Need To Be Retaped? (Y/N)	Cement In Well Box? (Y/N)	Drain Holes Drilled? (Y/N)	Does Well Box Need Replacing? (Y/N)	Is Well Plug Labeled Legibly and in Marker? (Y/N)	Are Sprinkler Boxes Intact (Y/N)	Recommendations/ Comments	Actions Taken
OU2MW-16S	8/8/2011	MQ	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-16I	2/3/2012	MK	Y	N	N	N	N	N	N	Y	Y	-	-
OU2M2-16I2	8/8/2011	MQ	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-16D	12/18/2011	EC/MK	Y	N	N	Y	N	N	N	Y	Y	-	
OU2MW-17S	12/18/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-17I	12/18/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-17I2	12/18/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-17D	12/18/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-18I	12/18/2011	EC/MK	Y	N	N	Y	N	N	N	Y	NA	-	-
OU2MW-18I2	12/18/2011	EC/MK	Y	N	N	Y	N	N	N	Y	NA	-	-
OU2MW-18D	12/18/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-19I	12/15/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-19I2	3/12/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-19D	3/12/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-20S	2/28/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-20I	2/28/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-20I2	2/28/2012	MK	Y	N	N (1)	N	N	N	N	Y	NA	-	none
OU2MW-20D	2/1/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-21S	10/17/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-21I	11/7/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-21I2	11/7/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-22S	11/7/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-22I	2/7/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-22I2	11/7/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-22D	11/7/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-23S	2/10/2012	EC	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-23I	2/10/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-23I2	2/10/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-23D	2/10/2012	EC	Y	Y (1)	Y (1)	N	N	N	N	Y	NA	none	-
OU2MW-24S	2/8/2012	MK	N	N	N	N	N	N	N	Y	NA	-	-
OU2MW-24I	2/8/2012	MK	Y	N	N	Y (2)	N	N	N	Y	NA	-	re-tapped
OU2MW-24I2	2/8/2012	MK	Y	N	N	Y (2)	N	N	N	Y	NA	-	re-tapped
OU2MW-24D	2/7/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-25S	2/7/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-25I	2/7/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-25I2	2/7/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-25D	2/7/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-26S	11/21/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-26I	2/23/2012	JS	Y	N	Y	N	N	N	Y	Y	NA	needs replacement	Replaced in Q2 2012
OU2MW-26I2	11/21/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-26D	11/21/2011	EC/MK	Y	N	Y (1)	N	Y	N	N	Y	NA	-	drain holes to be drilled
OU2MW-27S	2/23/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-27I	2/23/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-27I2	2/23/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-27D	2/23/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-28S	10/31/2011	JS	Y	N	Y (1)	N	N	N	N	Y	NA	-	-
OU2MW-28I	2/22/2012	MK	Y	N	Y (1)	N	N	N	N	Y	NA	-	-
OU2MW-28I2	2/22/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-29I	2/22/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-29I2	2/22/2012	MK	Y	Y (1)	Y (1)	N	N	N	N	Y	NA	-	-
OU2MW-29D	10/31/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	replaced one bolt
OU2MW-30S	2/22/2012	MK	Y	Y (1)	Y (1)	Y (2)	N	N	N	Y	NA	needs to be re-tapped with larger tap	Replaced in Q2 2012
OU2MW-30I	2/22/2012	MK	Y	N	Y (1)	Y (1)	N	N	N	Y	NA	needs to be re-tapped with larger tap	Replaced in Q2 2012
OU2MW-30I2	2/22/2012	MK	Y	N	N	Y (2)	N	N	N	Y	NA	-	re-tapped
OU2MW-30I3	1/16/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-

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OU2MW-30D	1/16/2012	EC	Y	Y (1)	N	N	N	N	N	Y	NA	-	-
OU2MW-30D2	1/16/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-31I	2/23/2012	MK	Y	N	N	Y (2)	N	N	N	Y	NA	-	re-tapped
OU2MW-31I2	2/23/2012	MK	Y	N	N	Y (2)	N	N	N	Y	NA	-	re-tapped
OU2MW-32S	2/21/2012	MK	Y	Y (1)	N	Y (2)	N	N	N	Y	NA	-	re-tapped
OU2MW-32I	2/21/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-32I2	2/21/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-32D	2/21/2012	MK	Y	Y (2)	Y (2)	N	N	N	Y	Y	NA	well box needs replacement	Replaced in Q2 2012
OU2MW-33S	2/20/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-33I	2/20/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-33I2	2/20/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-33D	2/20/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-34S	12/15/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-34I	12/15/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-34I2	12/15/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-35S	12/15/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-35I	12/15/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-35I2	2/17/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-35D	2/17/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-36S	2/8/2012	MK	Y	N	Y (2)	N	N	N	Y	Y	NA	well box needs replacement	Replaced in Q2 2012
OU2MW-36I	2/8/2012	MK	Y	Y (2)	N	Y (2)	N	N	N	Y	NA	re-tapped	-
OU2MW-36I2	11/10/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-36D	11/10/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-37S	2/7/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-37I	2/7/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-37I2	11/8/2011	EC/MK	Y	N	N	N	N	N	N	N	NA	-	-
OU2MW-37D	11/8/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-38S	10/18/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-38I	2/16/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-38I2	2/16/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-38D	10/18/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-39S	10/18/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-39I	2/26/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-39I2	10/18/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-39D	2/26/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-40S	2/21/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-40I	2/21/2012	MK	Y	N	Y (2)	N	N	N	Y	Y	NA	well box needs replacement	Replaced in Q2 2012
OU2MW-41S	11/1/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-41I	11/1/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-42S	11/9/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-42I	11/9/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-42I2	2/7/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-42D	2/7/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-43S	7/29/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-43I	3/13/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-43I2	3/13/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-43D	7/29/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-44S	7/29/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-44I	3/12/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-44I2	7/29/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-44D	3/12/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-45S	11/9/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-45I	11/9/2011	EC/MK	Y	Y (1)	N	N	N	N	N	Y	NA	-	-
OU2MW-45I2	11/21/2012	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-45D	11/21/2012	EC/MK	Y	Y (1)	Y (1)	N	N	N	N	Y	NA	-	-

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OU2MW-46S	2/14/2012	EC	Y	Y (1)	Y (1)	N	N	N	N	Y	NA	bolt snapped in eyelet	-
OU2MW-46I	2/14/2012	EC	Y	Y (1)	Y (1)	N	N	N	N	Y	NA	-	-
OU2MW-46I2	2/14/2012	EC	Y	Y (1)	Y (1)	N	N	N	N	Y	NA	bolt snapped in eyelet	-
OU2MW-47S	2/14/2012	EC	Y	Y (2)	Y (2)	N	N	N	Y	Y	NA	well box needs replacement	Replaced in Q2 2012
OU2MW-47I	2/14/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-47I2	2/14/2012	EC	Y	Y (1)	Y (1)	N	N	N	N	Y	NA	bolt snapped in eyelet	-
OU2MW-47D	2/14/2012	EC	Y	Y (2)	Y (2)	N	N	N	Y	Y	NA	well box needs replacement	Replaced in Q2 2012
OU2MW-48S	2/3/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-48I	2/3/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-48I2	2/3/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-48D	2/3/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-49S	3/1/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-49I	3/1/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-49I2	3/1/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-49D	3/1/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-52S	3/15/2012	MQ	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-52I	3/15/2012	MQ	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-52D	3/15/2012	MQ	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-53S	3/15/2012	MQ	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-53I	3/15/2012	MQ	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-53D	3/15/2012	MQ	Y	N	N	N	N	N	N	Y	Y	-	-
OU2MW-54S	3/13/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-54I	3/13/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-54D2	3/13/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-54D	3/13/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-57S	10/25/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-57I	10/25/2011	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU2MW-57I2	3/15/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-

Appendix H
Monitoring Well Maintenance Checklist
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Location Designation	Date	Initials	Well Cover Intact? (Y/N)	Missing or Broken Screws? (Y/N - # missing)	Are Bolt Eyelets Broken? (Y/N)	Bolt Eyes Need To Be Retaped? (Y/N)	Cement In Well Box? (Y/N)	Drain Holes Drilled? (Y/N)	Does Well Box Need Replacing? (Y/N)	Is Well Plug Labeled Legibly and in Marker? (Y/N)	Are Sprinkler Boxes Intact (Y/N)	Recommendations/ Comments	Actions Taken
OU-3 Monitoring Wells													
BBMW-09S	1/5/2011	JS	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-09I	1/5/2011	JS	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-09D	1/5/2011	JS	Y	NA	NA	NA	NA	NA	NA	Y	NA	stickup in good condition	-
BBMW-26S	5/6/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-26I	5/6/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-27S	5/7/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-27I	5/7/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-28S	5/7/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-28I	5/7/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-29	3/5/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-30S	9/9/2011	EC	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-30I	9/1/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-30D	9/1/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-31S	9/6/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-31I	9/6/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-31D	9/6/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-32S	9/6/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-32I	9/6/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-32D	9/6/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
BBMW-33	2/28/2011	JR	Y	N	N	N	N	N	N	Y	NA	-	-
BW-UST-10	2/10/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
BW-UST-11	3/19/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
BW-UST-28	2/10/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
BW-UST-29	2/10/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
GM-02AS	1/6/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
GM-02AI	1/6/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
GM-02AD	1/6/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
IO-10	1/9/2012	JS	Y	N	N	Y	N	N	N	Y	NA	needs to be re-tapped with larger tap	-
MW-01S	1/9/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-01D	1/9/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-02S-R - abandoned													
MW-02I-R - abandoned													
MW-03	1/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-04	1/12/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-11W	1/12/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-12W	8/29/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-16S-R - abandoned													
MW-16I - abandoned													
MW-26D - abandoned													
MW-29S	1/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-29D	1/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-30W-R	1/10/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
MW-32WR	1/11/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
MW-33W	-	-	-	-	-	-	-	-	-	-	-	not checked	-
MW-34S	1/26/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-34I	1/26/2012	JS	Y	N	N	YES	N	N	N	Y	NA	needs to be re-tapped with larger tap	-
MW-34D	1/26/2012	JS	Y	N	N	YES	N	N	N	Y	NA	needs to be re-tapped with larger tap	-
MW-45W	1/10/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
MW-46W-R	1/9/2012	JS	Y	N	N	YES	N	N	Y	Y	NA	well box needs replacement	Replaced in Q2 2012
MW-64	1/10/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
MW-65	1/19/2012	EC	Y	N	N	N	N	N	N	Y	NA	lid slightly raised	-
MW-66S	7/19/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-66D	7/19/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-68S	7/19/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-

Appendix H
Monitoring Well Maintenance Checklist
Bay Shore/Brightwaters Former MGP Site
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

Sample Location Designation	Date	Initials	Well Cover Intact? (Y/N)	Missing or Broken Screws? (Y/N - # missing)	Are Bolt Eyelets Broken? (Y/N)	Bolt Eyes Need To Be Retaped? (Y/N)	Cement In Well Box? (Y/N)	Drain Holes Drilled? (Y/N)	Does Well Box Need Replacing? (Y/N)	Is Well Plug Labeled Legibly and in Marker? (Y/N)	Are Sprinkler Boxes Intact (Y/N)	Recommendations/ Comments	Actions Taken
MW-68D	7/19/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-70/70S	7/21/2011	JS	Y	N	N	N	N	N	N	Y	NA	needs to be re-tapped with larger tap	-
MW-73	7/21/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-73I	10/26/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-75	7/19/2011	JS	Y	N	N	N	N	N	N	Y	NA	needs to be re-tapped with larger tap	-
MW-75I	10/26/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-76	3/7/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-78	3/7/2012	JS	Y	N	N	N	N	N	N	Y	NA		-
MW-79	10/11/2011	JS	Y	N	N	YES	N	N	N	Y	NA	needs to be re-tapped with larger tap	-
MW-80	3/7/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-81	1/16/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-82	3/7/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
MW-83	1/19/2012	MQ	Y	N	N	N	N	N	N	Y	NA	needs to be re-tapped with larger tap	-
MWBS-01S	-	-	-	-	-	-	-	-	-	-	-	not checked	-
MW-BS-02S	1/19/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
MW-BS-02I	1/19/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
MW-BS-02D	1/19/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-01S	1/10/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-02S	1/10/2012	MK	Y	N	Y	N	N	N	Y	Y	NA	well box needs replacement	Replaced in Q2 2012
OU3MW-02I	1/10/2012	MK	Y	N	Y	N	N	N	Y	Y	NA	well box needs replacement	Replaced in Q2 2012
OU3MW-03S	1/11/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	Replaced in Q2 2012
OU3MW-03I	1/11/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-04S	1/5/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-04I	1/5/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-04D	1/5/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-05S	1/11/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-05I	1/11/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-06	1/10/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-07S	1/23/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-07I	1/23/2012	JS	Y	N	Y (1)	N	N	N	N	Y	NA	-	none
OU3MW-07I2	1/23/2012	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-08S	8/18/2011	JS	Y	N	N	N	N	N	N	Y	NA	stickup in good condition	-
OU3MW-08I	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	stickup in good condition	-
OU3MW-09S	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	stickup in good condition	-
OU3MW-09I	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	stickup in good condition	-
OU3MW-09I2	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	stickup in good condition	-
OU3MW-10S	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	stickup in good condition	-
OU3MW-10I	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	stickup in good condition	-
OU3MW-11S	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	stickup in good condition	-
OU3MW-11I	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	stickup in good condition	-
OU3MW-12S	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	stickup in good condition	-
OU3MW-12I	12/5/2011	JS	Y	N	N	N	N	N	Y	Y	NA	needs new standpipe	Replaced in Q2 2012
OU3MW-13S	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-14S	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-15S	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
OU3MW-16S	12/5/2011	JS	Y	N	N	N	N	N	N	Y	NA	stickup in good condition	-
PDMW-01	1/9/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
PDMW-02 - abandoned													
PDMW-03 - abandoned													
SV-02	7/21/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
SV-02I	7/21/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
SV-02I2	7/21/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
SV-03	6/30/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-

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Sample Location Designation	Date	Initials	Well Cover Intact? (Y/N)	Missing or Broken Screws? (Y/N - # missing)	Are Bolt Eyelets Broken? (Y/N)	Bolt Eyes Need To Be Retaped? (Y/N)	Cement In Well Box? (Y/N)	Drain Holes Drilled? (Y/N)	Does Well Box Need Replacing? (Y/N)	Is Well Plug Labeled Legibly and in Marker? (Y/N)	Are Sprinkler Boxes Intact (Y/N)	Recommendations/ Comments	Actions Taken
OU-4 Monitoring Wells													
WCMW-01S - abandoned													
WCMW-01I - abandoned													
WCMW-01D - abandoned													
WCMW-02S	1/11/2012	MK	Y	N	Y (1)	N	N	N	N	Y	NA	-	-
WCMW-02I	1/11/2012	MK	Y	N	N	Y	N	N	N	Y	NA	re-tapped	-
WCMW-02D	1/11/2012	MK	Y	N	N	Y	N	N	N	Y	NA	re-tapped	-
WCMW-03S - abandoned													
WCMW-03I - abandoned													
WCMW-03I2 - abandoned													
WCMW-04S	1/11/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-04I	1/11/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-04I2	1/11/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-05S	1/12/2012	EC	Y	N	N	Y	N	N	N	Y	NA	re-tapped	-
WCMW-05I	1/11/2012	MK	Y	N	N	Y	N	N	N	Y	NA	-	-
WCMW-05I2	1/11/2012	MK	Y	N	N	Y	N	N	N	Y	NA	-	-
WCMW-06S	1/16/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-06I	1/16/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-06I2	1/16/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-07S	1/16/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-07I	1/16/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-07I2	1/16/2012	MK	Y	N	Y	N	N	N	Y	Y	NA	well box needs replacement	Replaced in Q2 2012
WCMW-08S - abandoned													
WCMW-08I - abandoned													
WCMW-08I2 - abandoned													
WCMW-09S - abandoned													
WCMW-10S - abandoned													
WCMW-10D - abandoned													
WCMW-11S	1/13/2012	MK	Y	N	N	Y	N	N	N	Y	NA	re-tapped	-
WCMW-11I	1/13/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-11D	1/13/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-12S	2/1/2012	MK	Y	N	N	Y	N	N	N	Y	NA	re-tapped	-
WCMW-12I	2/1/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-12D	2/1/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-13S	12/22/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-13I	12/22/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-13D	12/22/2011	EC/MK	Y	Y (1)	N	N	N	N	N	Y	NA	-	-
WCMW-14S	1/16/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	Well box replaced in Q2 2012
WCMW-14I	1/16/2012	MK	Y	N	Y	N	N	N	Y	Y	NA	-	Well box replaced in Q2 2012
WCMW-14I2	1/16/2012	MK	Y	N	Y	N	N	N	Y	Y	NA	-	Well box replaced in Q2 2012
WCMW-14D	1/16/2012	MK	Y	N	Y	N	N	N	Y	Y	NA	-	Well box replaced in Q2 2012
WCMW-16S - abandoned													
WCMW-16I - abandoned													
WCMW-16I2 - abandoned													
WCMW-17S - abandoned													
WCMW-17I - abandoned													
WCMW-17I2 - abandoned													
WCMW-18WT - abandoned													
WCMW-18S - abandoned													
WCMW-18I - abandoned													
WCMW-18I2 - abandoned													
WCMW-19S	10/15/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-19I	1/13/2012	EC	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-19I2	10/15/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-20S - abandoned													

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Bay Shore/Brightwaters Former MGP Site
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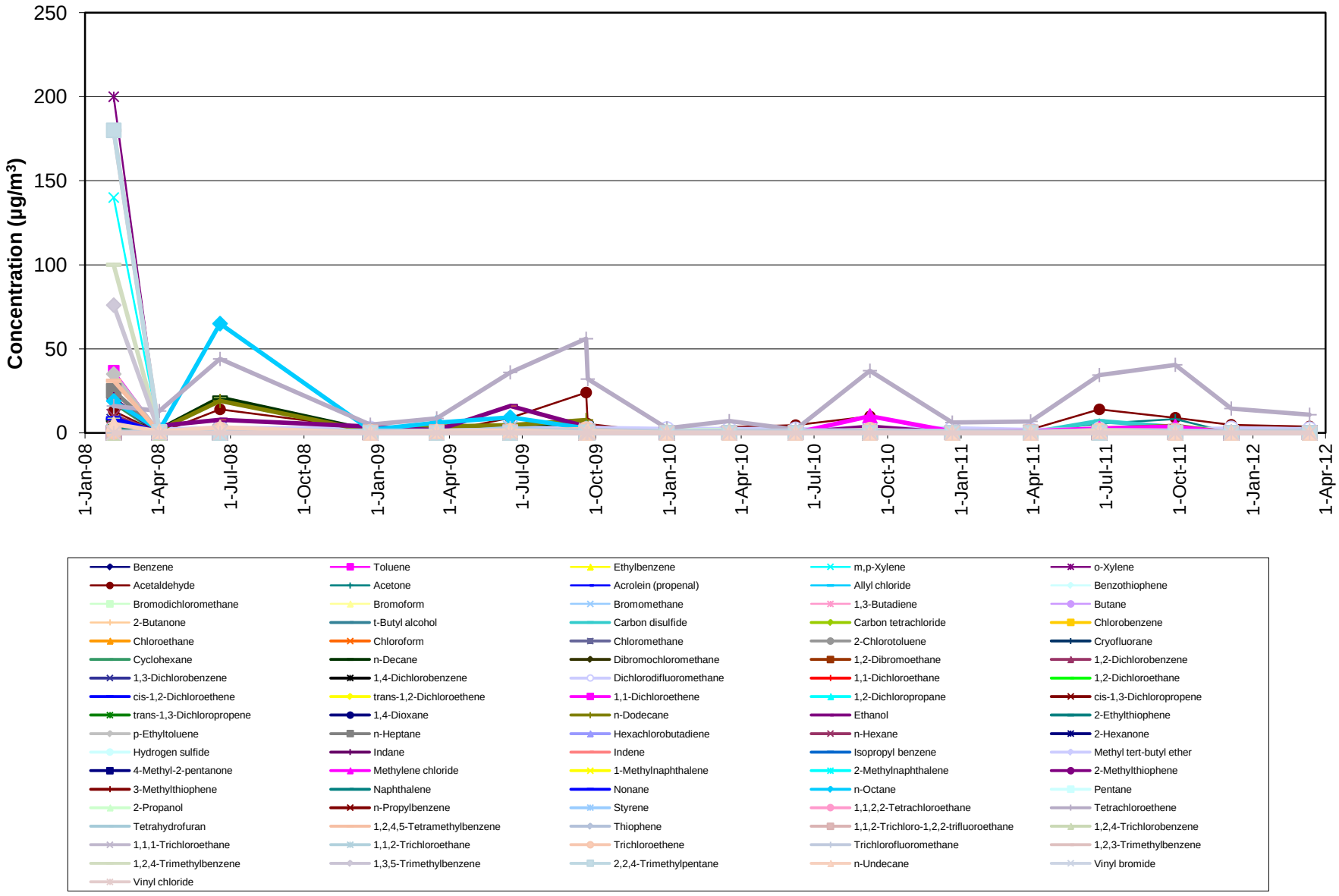
Sample Location Designation	Date	Initials	Well Cover Intact? (Y/N)	Missing or Broken Screws? (Y/N - # missing)	Are Bolt Eyelets Broken? (Y/N)	Bolt Eyes Need To Be Retaped? (Y/N)	Cement In Well Box? (Y/N)	Drain Holes Drilled? (Y/N)	Does Well Box Need Replacing? (Y/N)	Is Well Plug Labeled Legibly and in Marker? (Y/N)	Are Sprinkler Boxes Intact (Y/N)	Recommendations/ Comments	Actions Taken
WCMW-20I - abandoned													
WCMW-20I2 - abandoned													
WCMW-21S - abandoned													
WCMW-21I - abandoned													
WCMW-21I2 - abandoned													
WCMW-22S	2/3/2011	CA/EC	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-22I	3/5/2012	MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-23S	2/3/2011	CA/EC	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-23I	10/5/2010	MQ	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-24S - abandoned													
WCMW-24I - abandoned													
WCMW-24I2 - abandoned													
WCMW-25I	12/21/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-25D	12/21/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-25D2	8/13/2011	EC/MK	Y	N	Y (1)	N	N	N	N	Y	NA	-	-
WCMW-26S	8/13/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-26I	8/13/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-26I2	8/13/2011	EC/MK	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-27S - abandoned													
WCMW-27I - abandoned													
WCMW-28S - abandoned													
WCMW-28I - abandoned													
WCMW-29S	4/7/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-
WCMW-29I	4/7/2011	JS	Y	N	N	N	N	N	N	Y	NA	-	-

Appendix I
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

OU1SG-06



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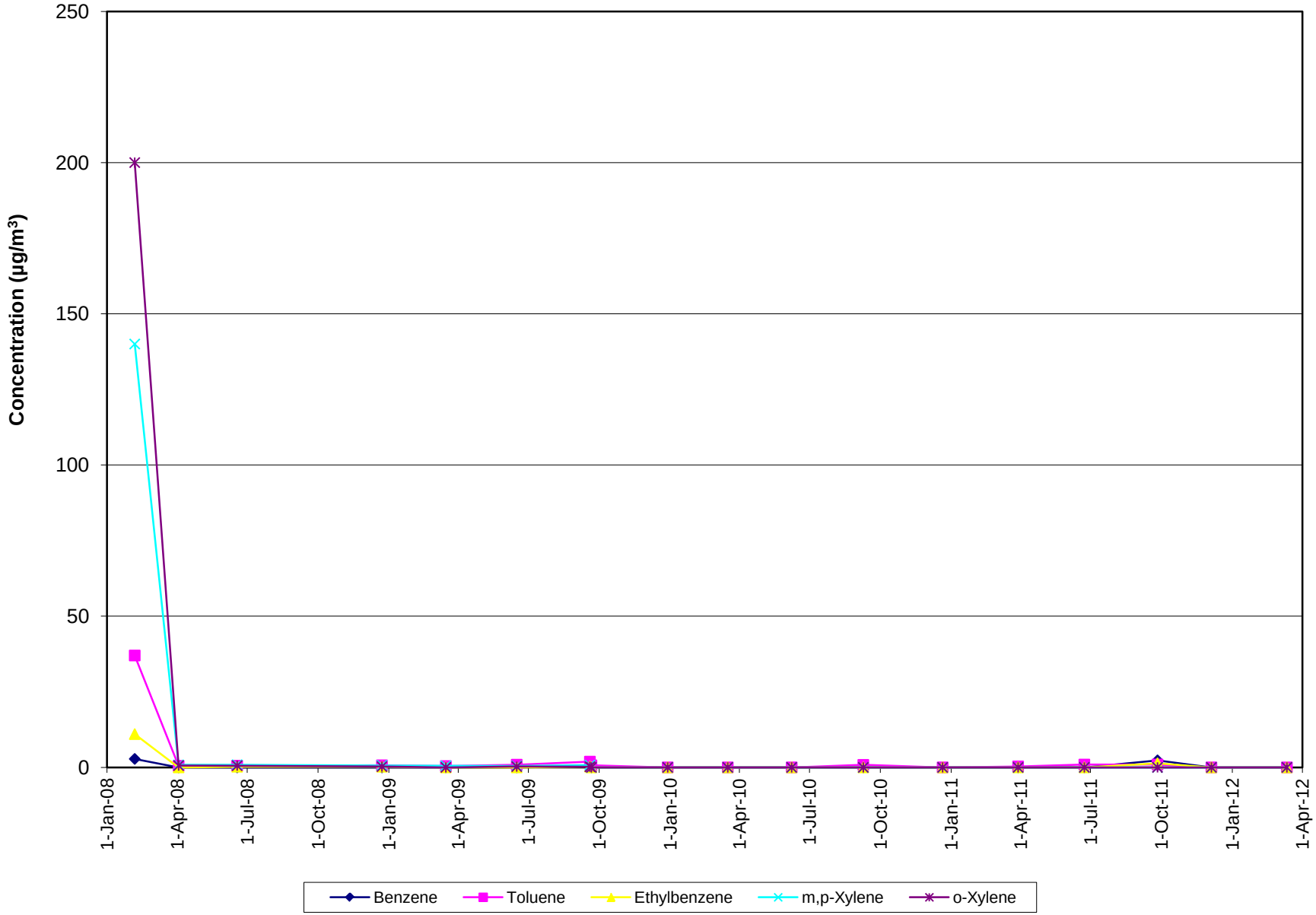

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Soil Vapor Analytical Results
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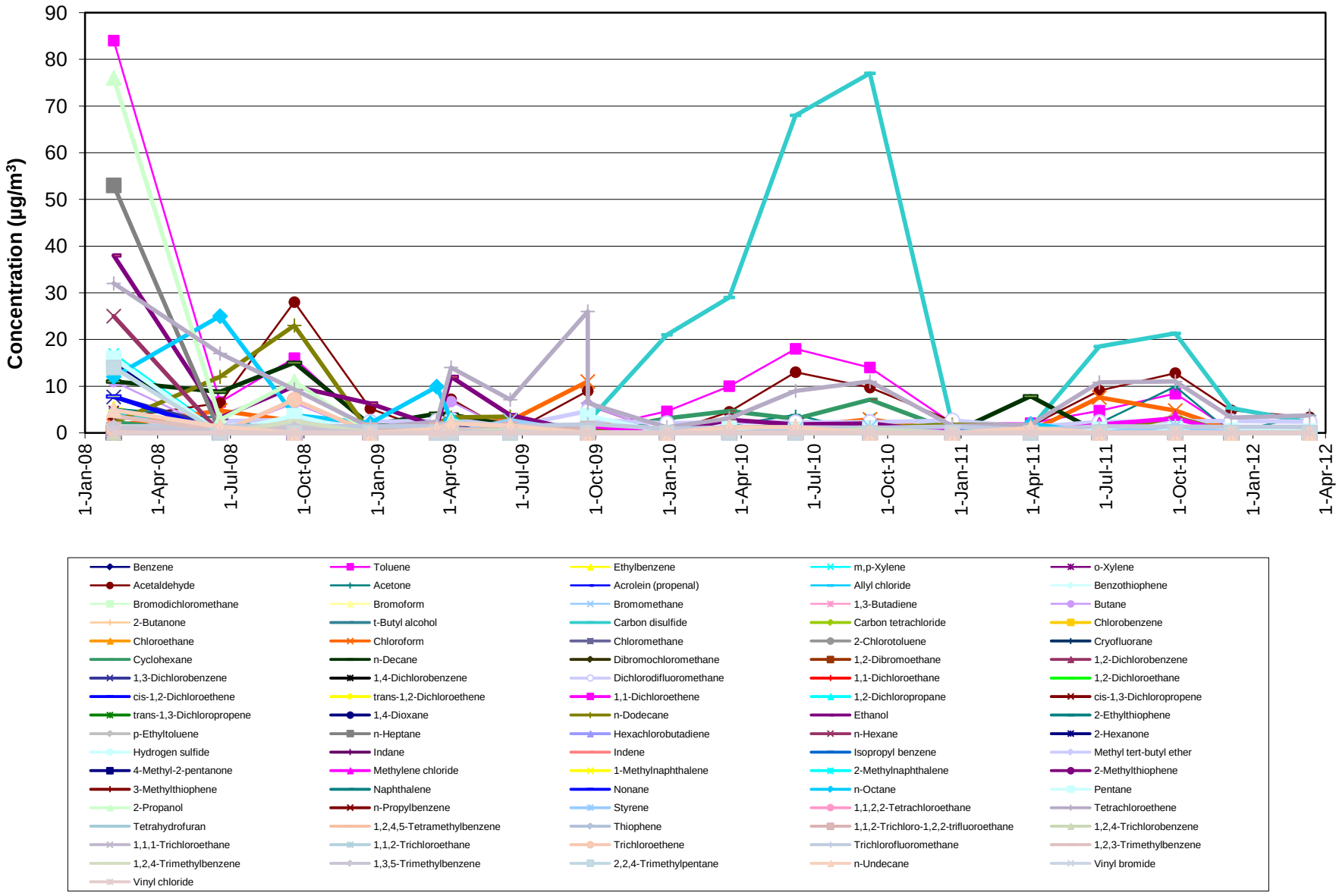
OU1SG-07



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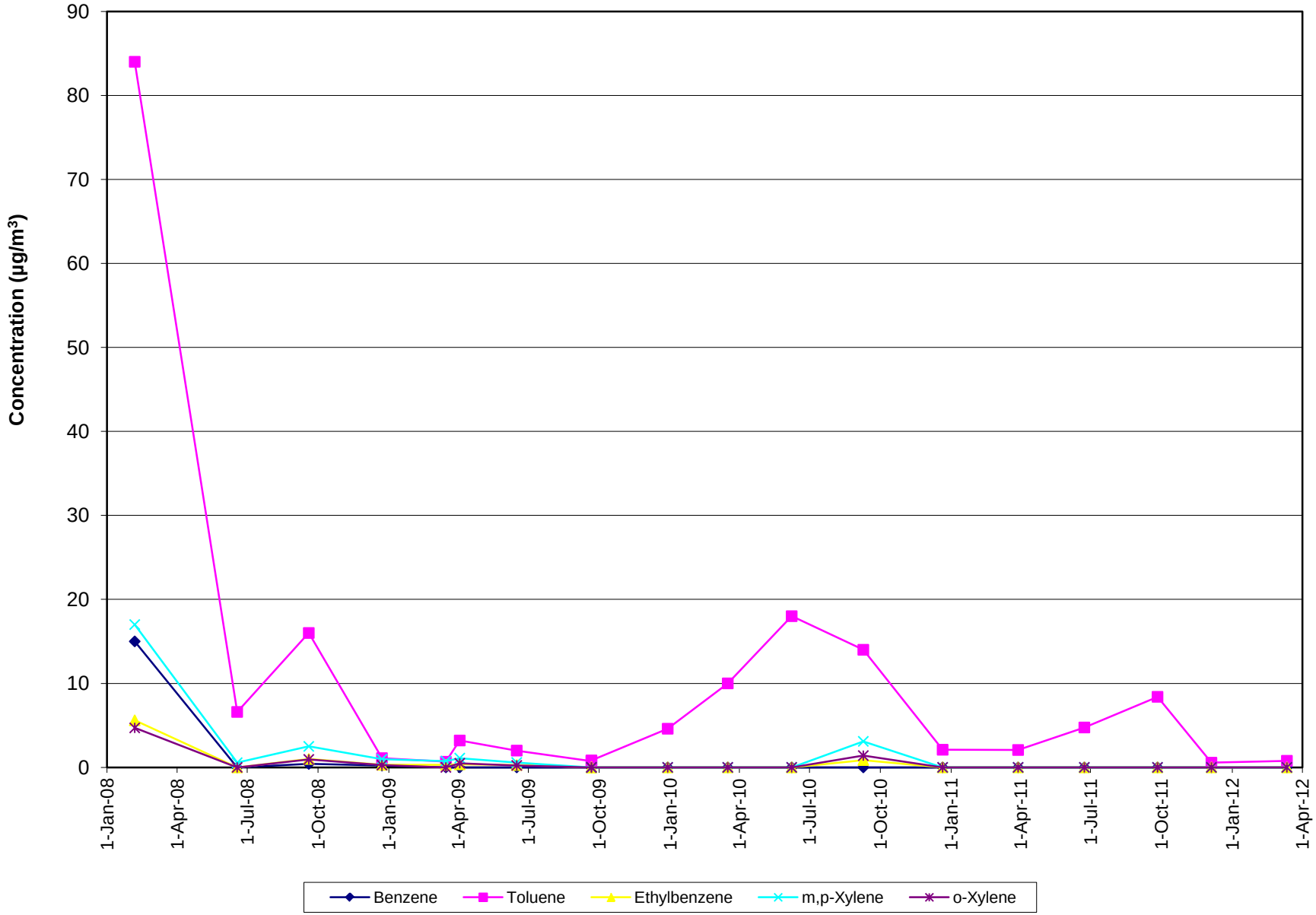

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Soil Vapor Analytical Results
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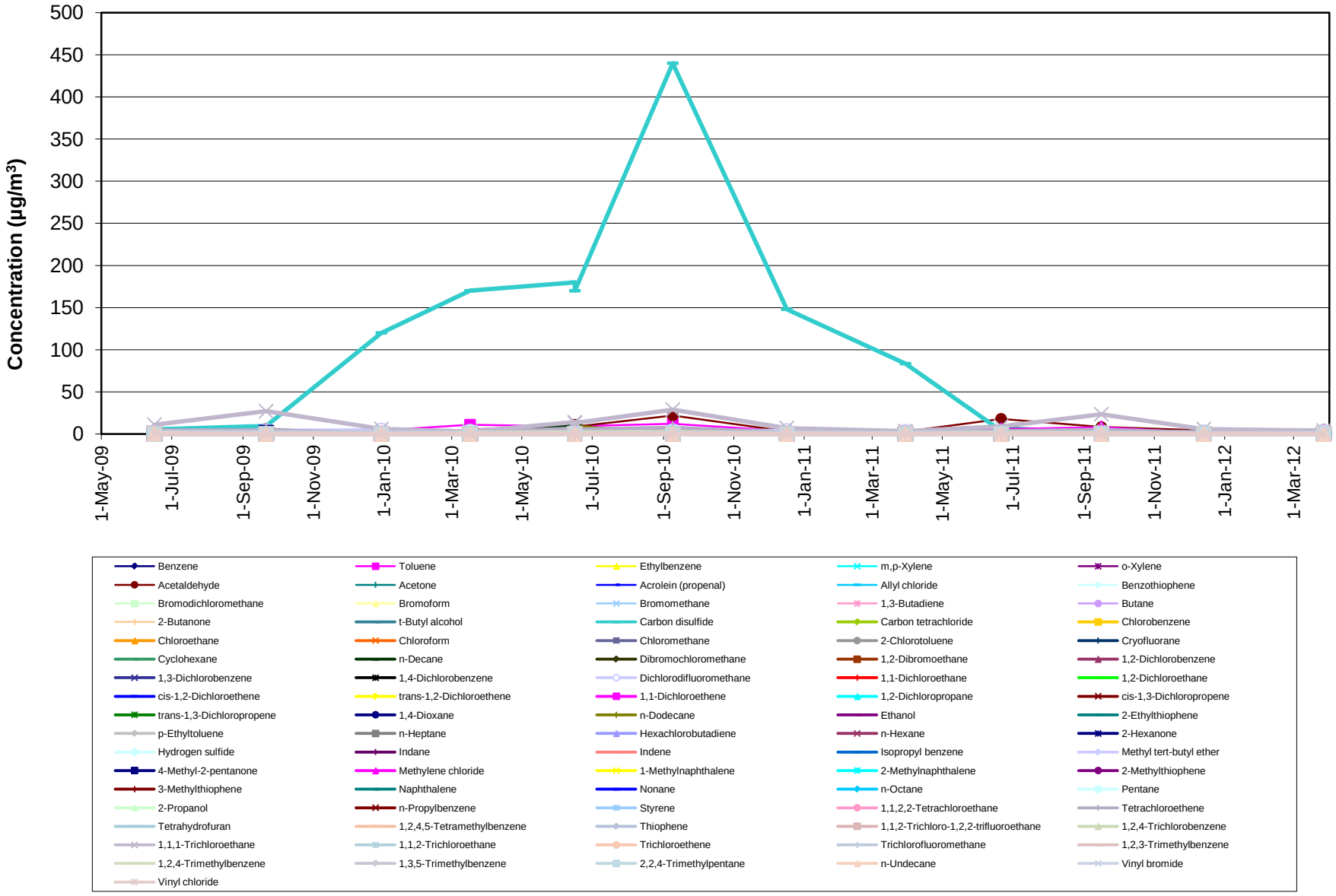
OU1SG-09



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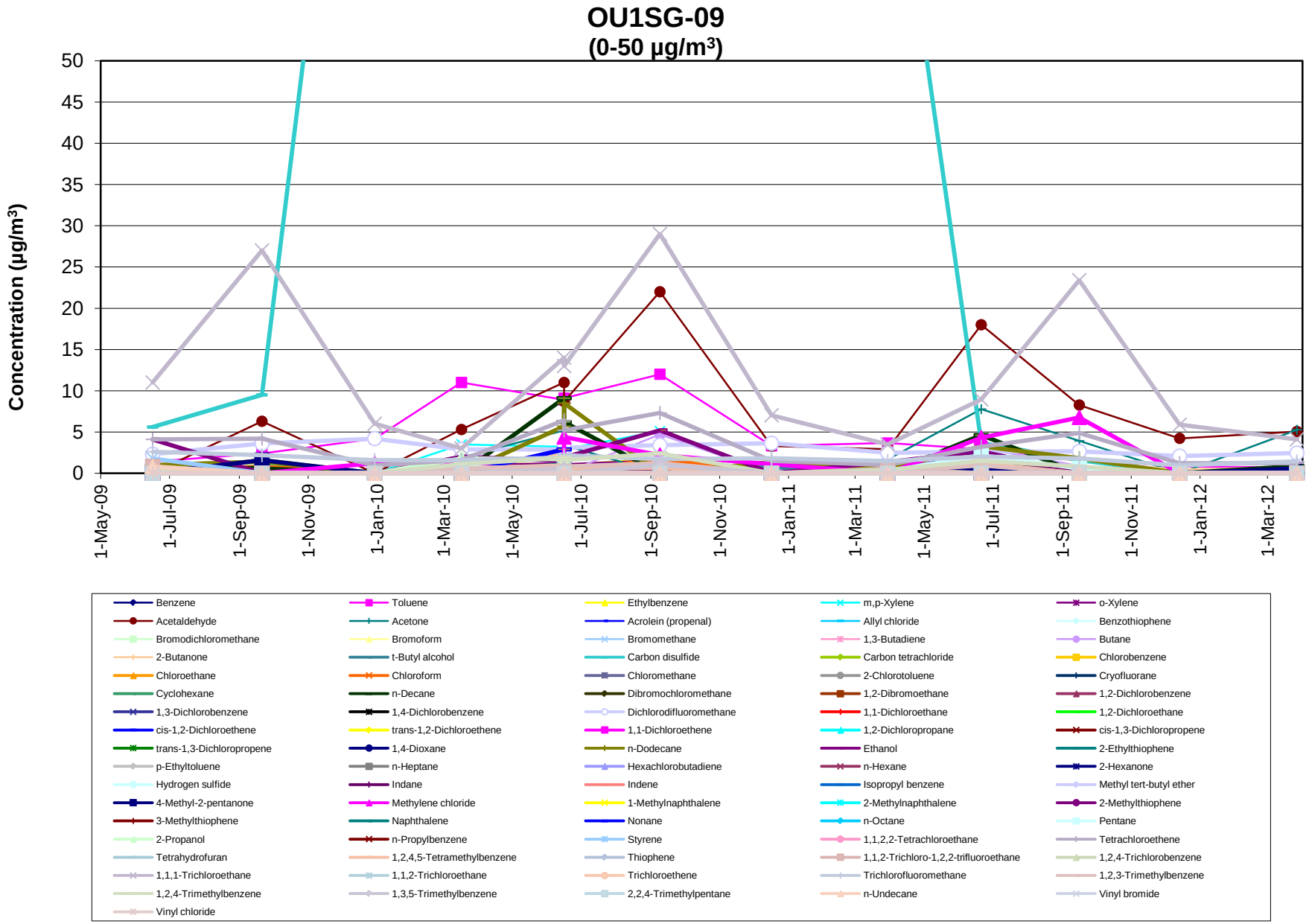
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program



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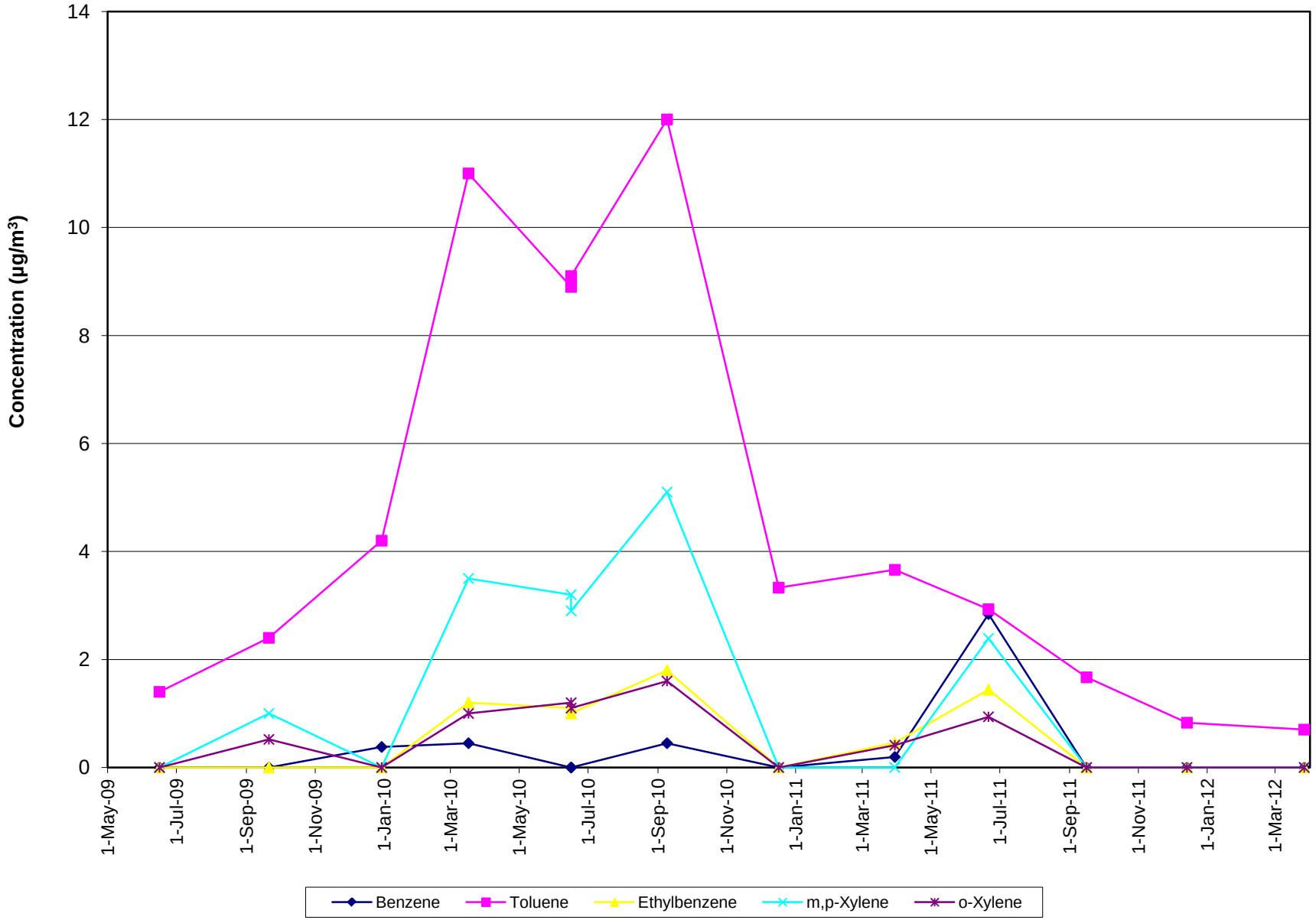
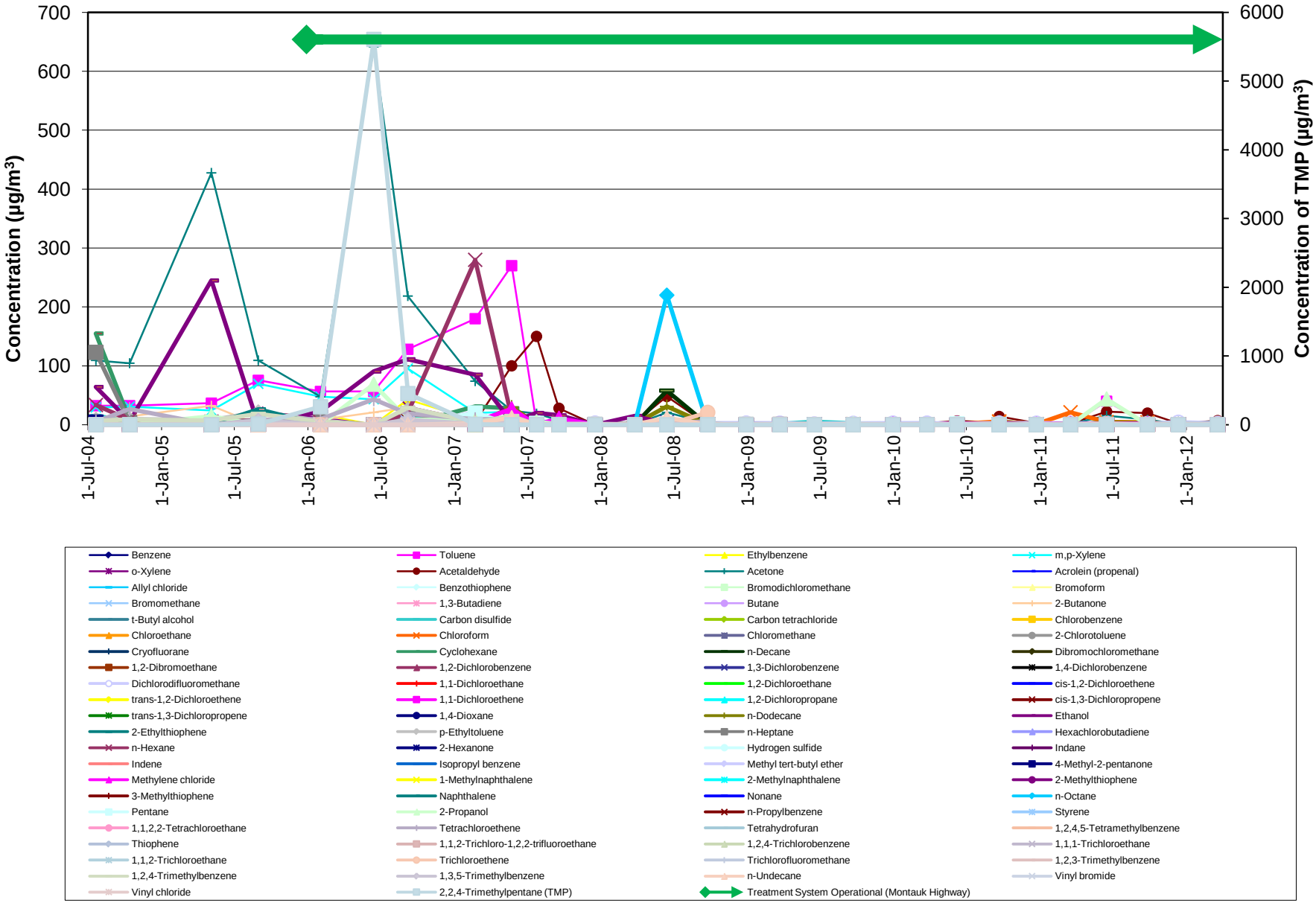


Appendix I
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

OU2SG-01



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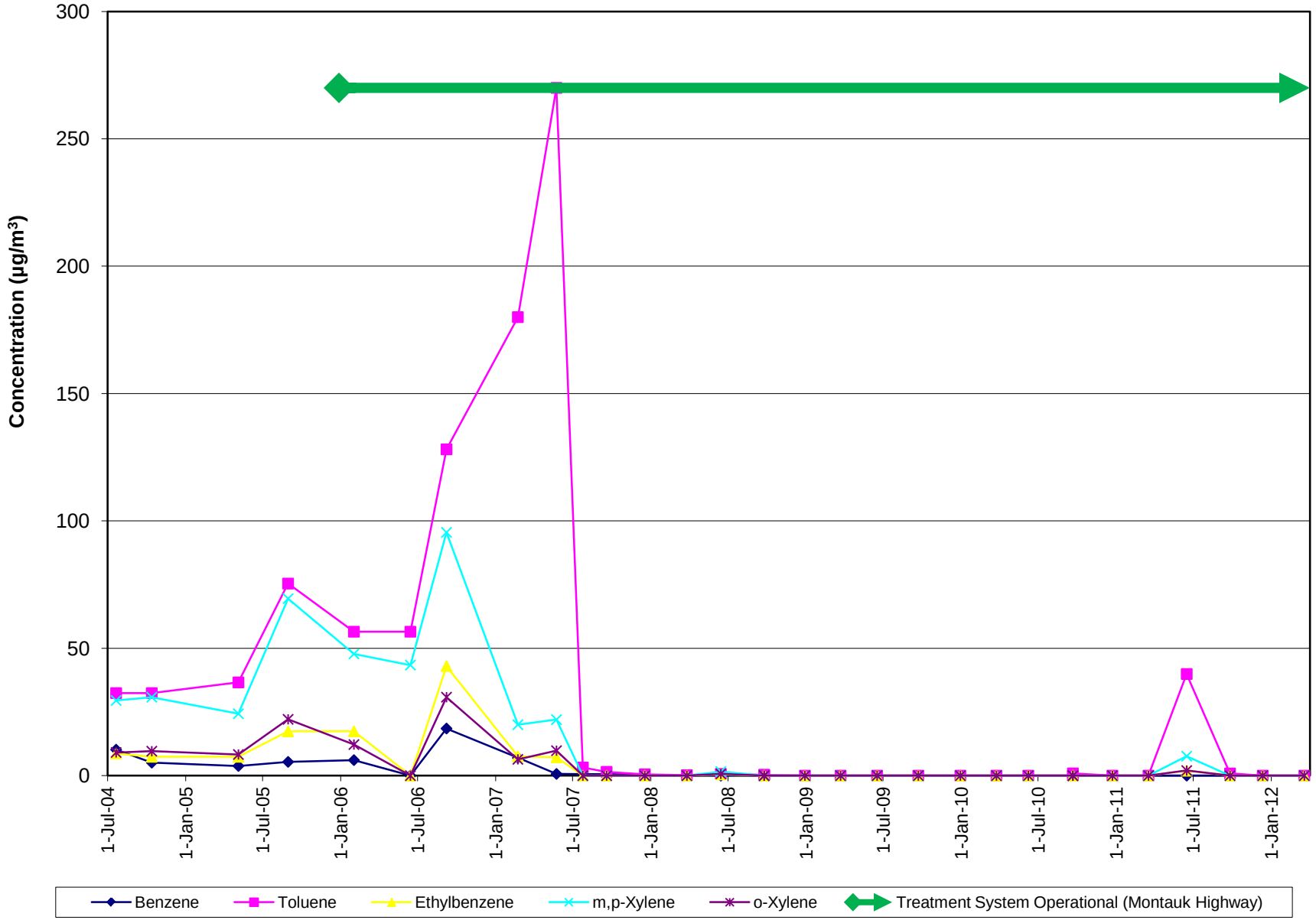

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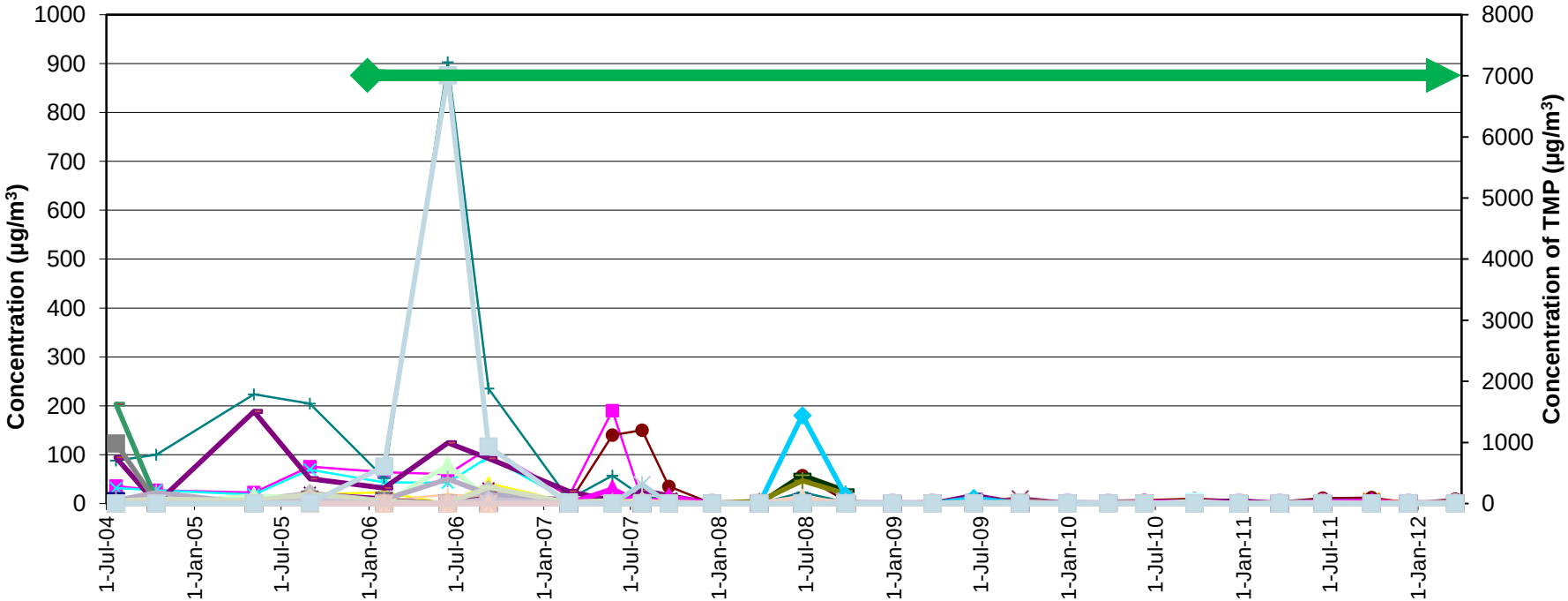
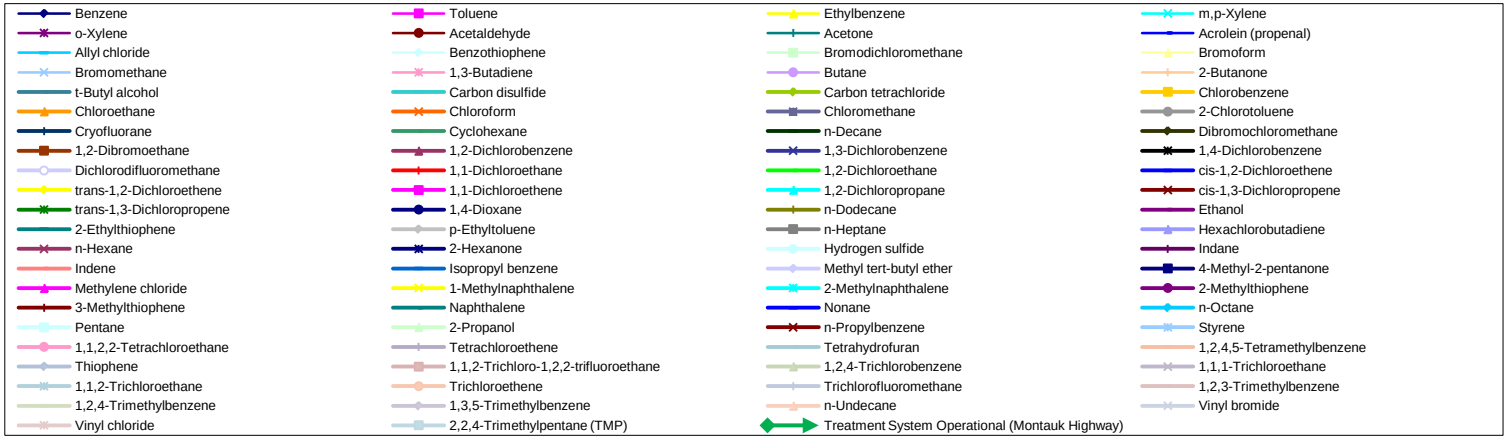
OU2SG-02





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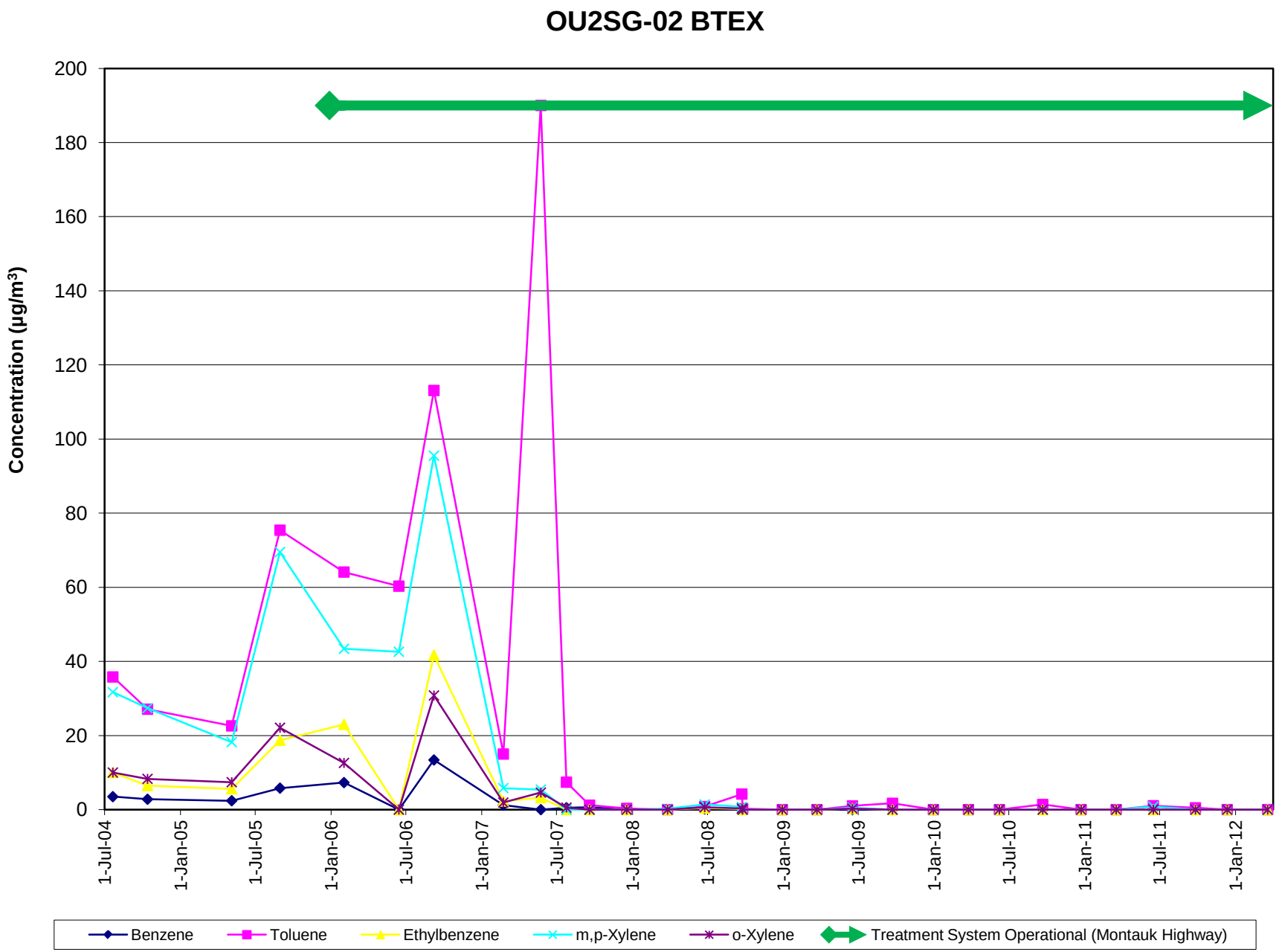

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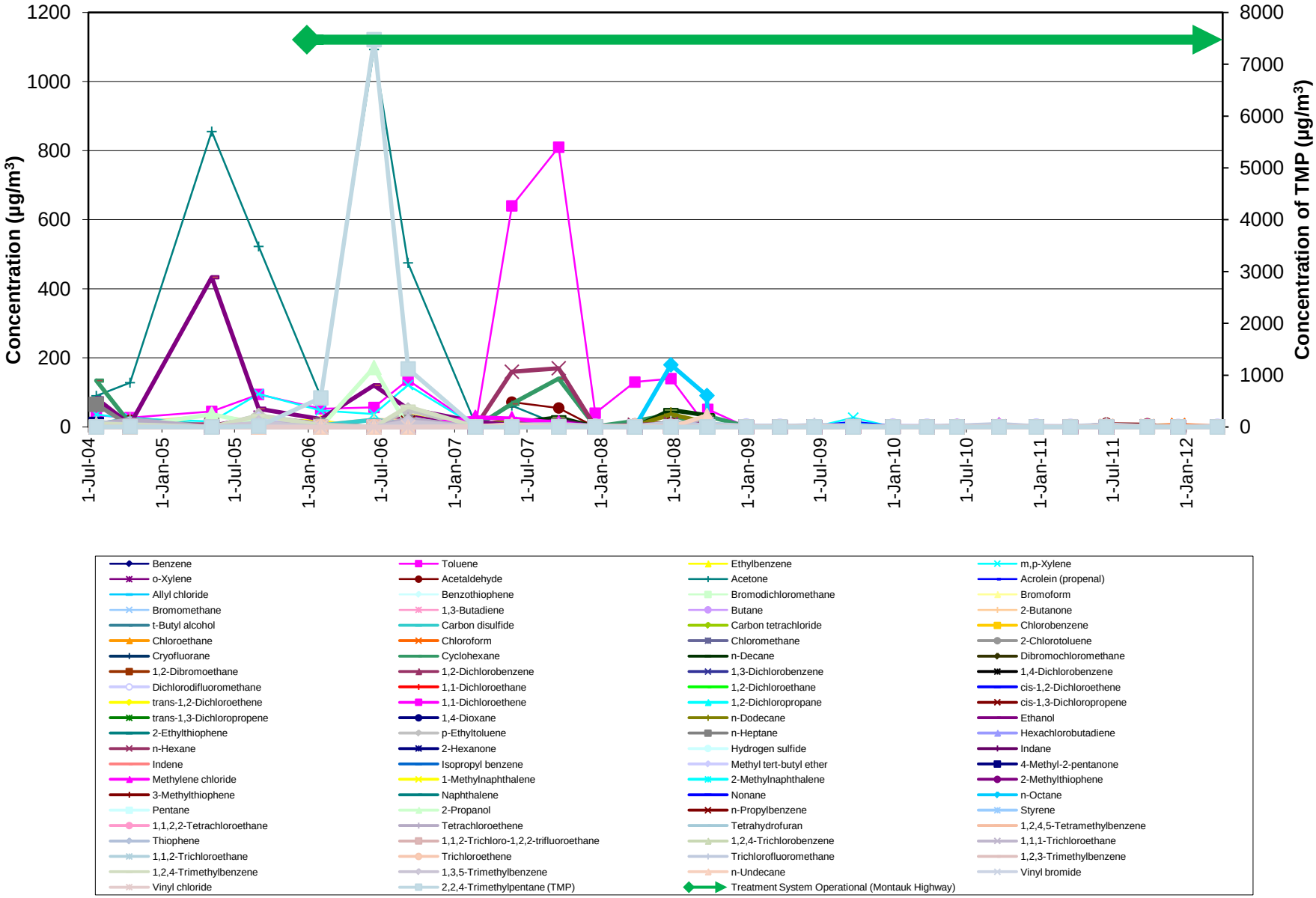
OU2SG-03



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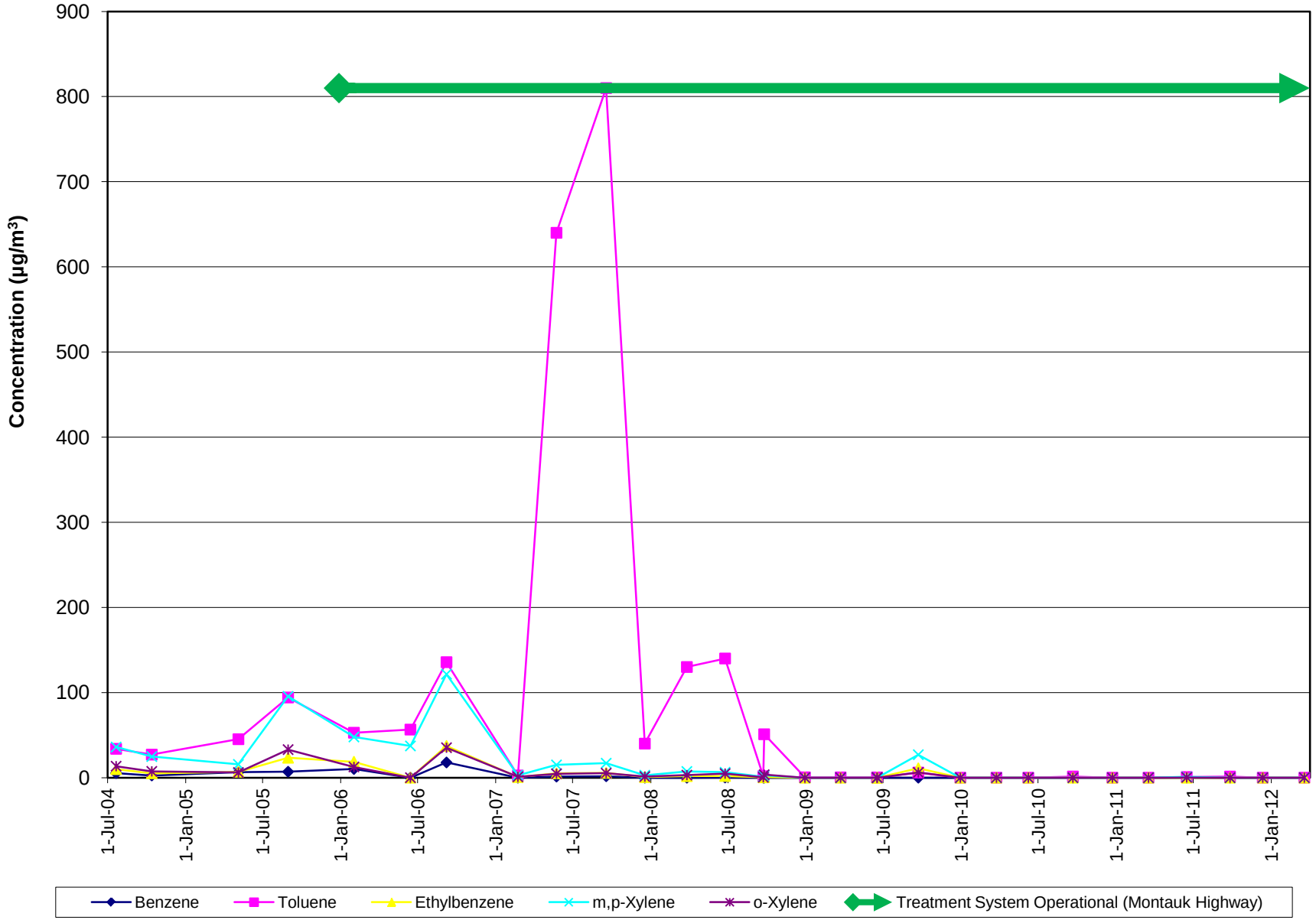

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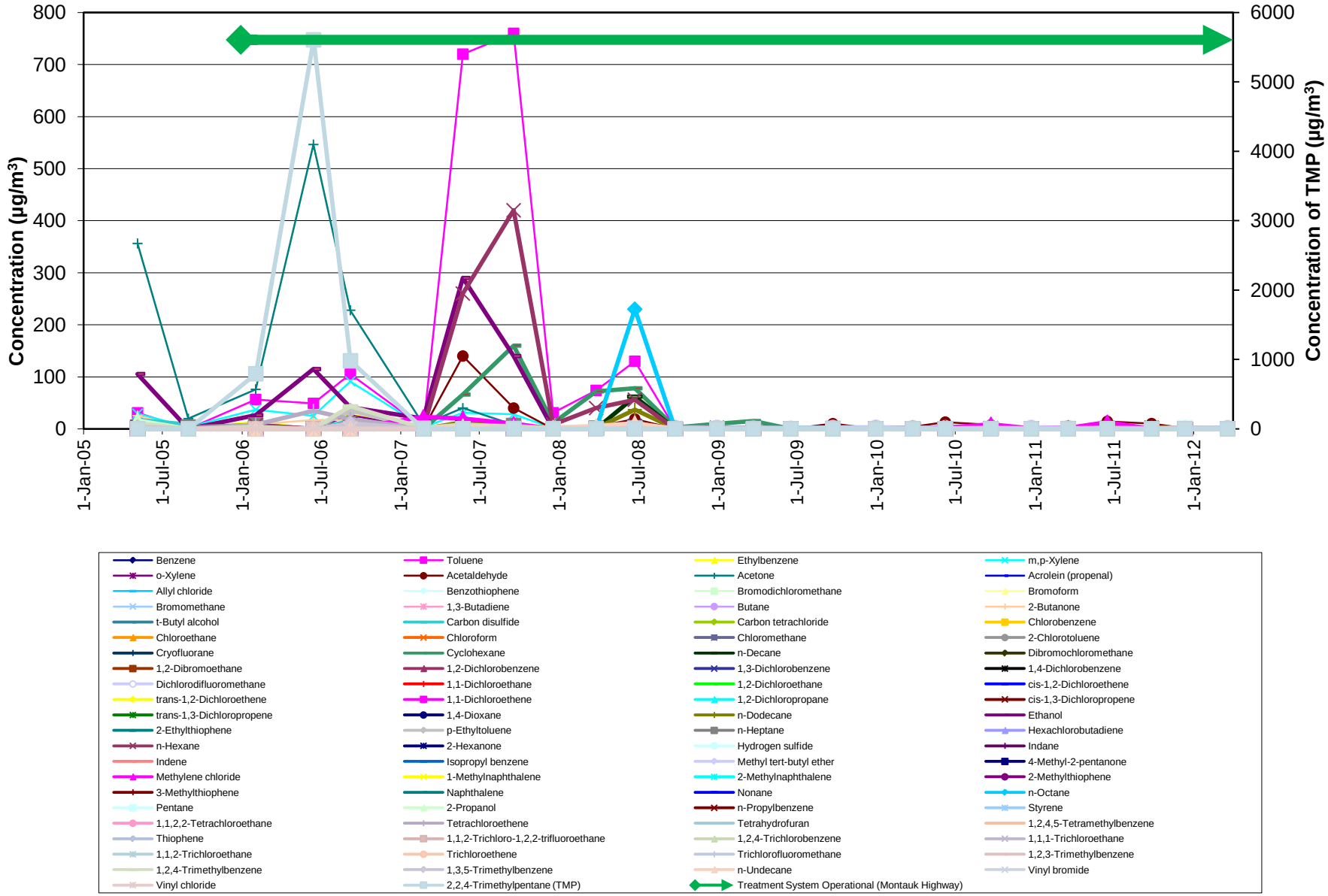
OU2SG-04



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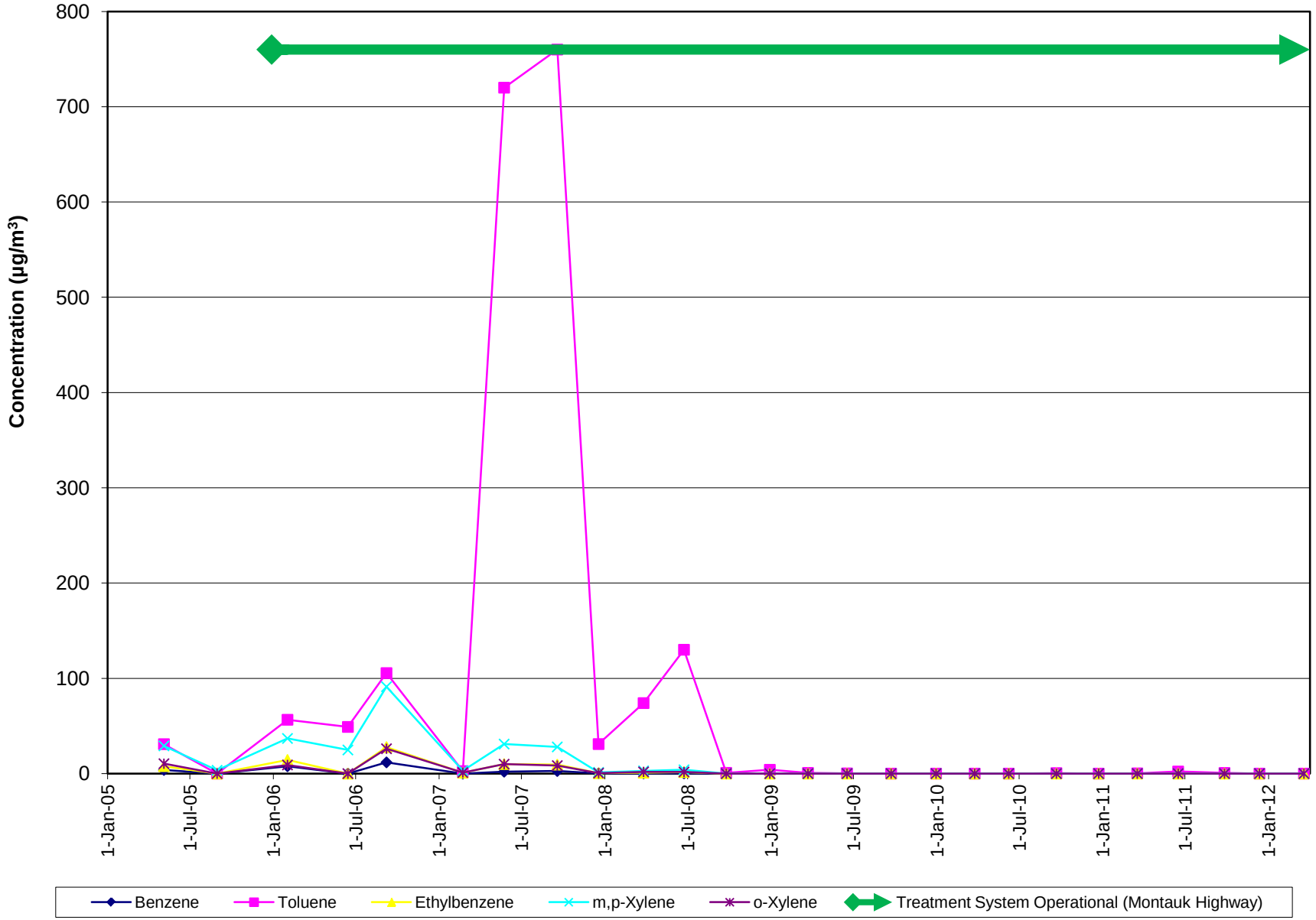

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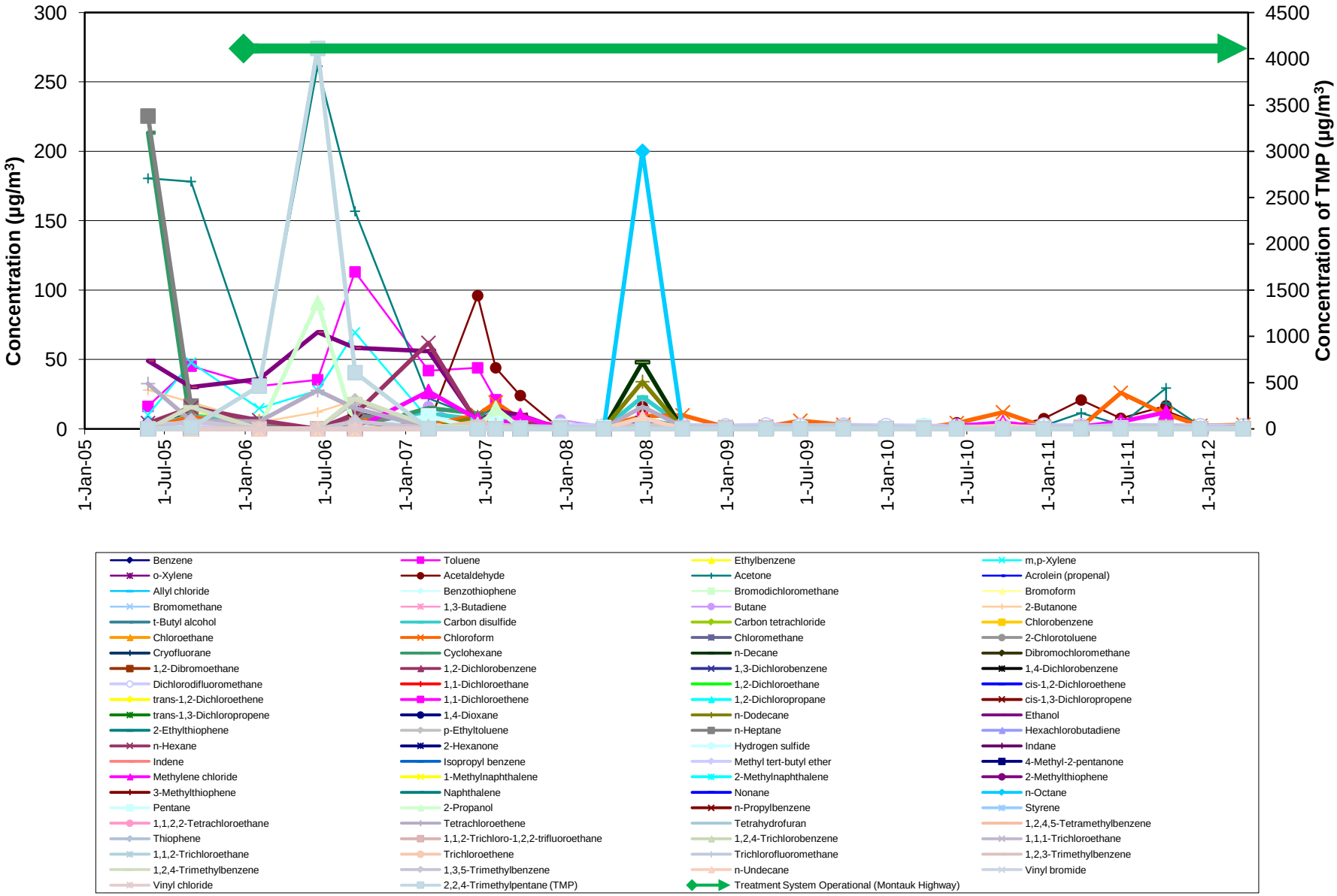
OU2SG-05



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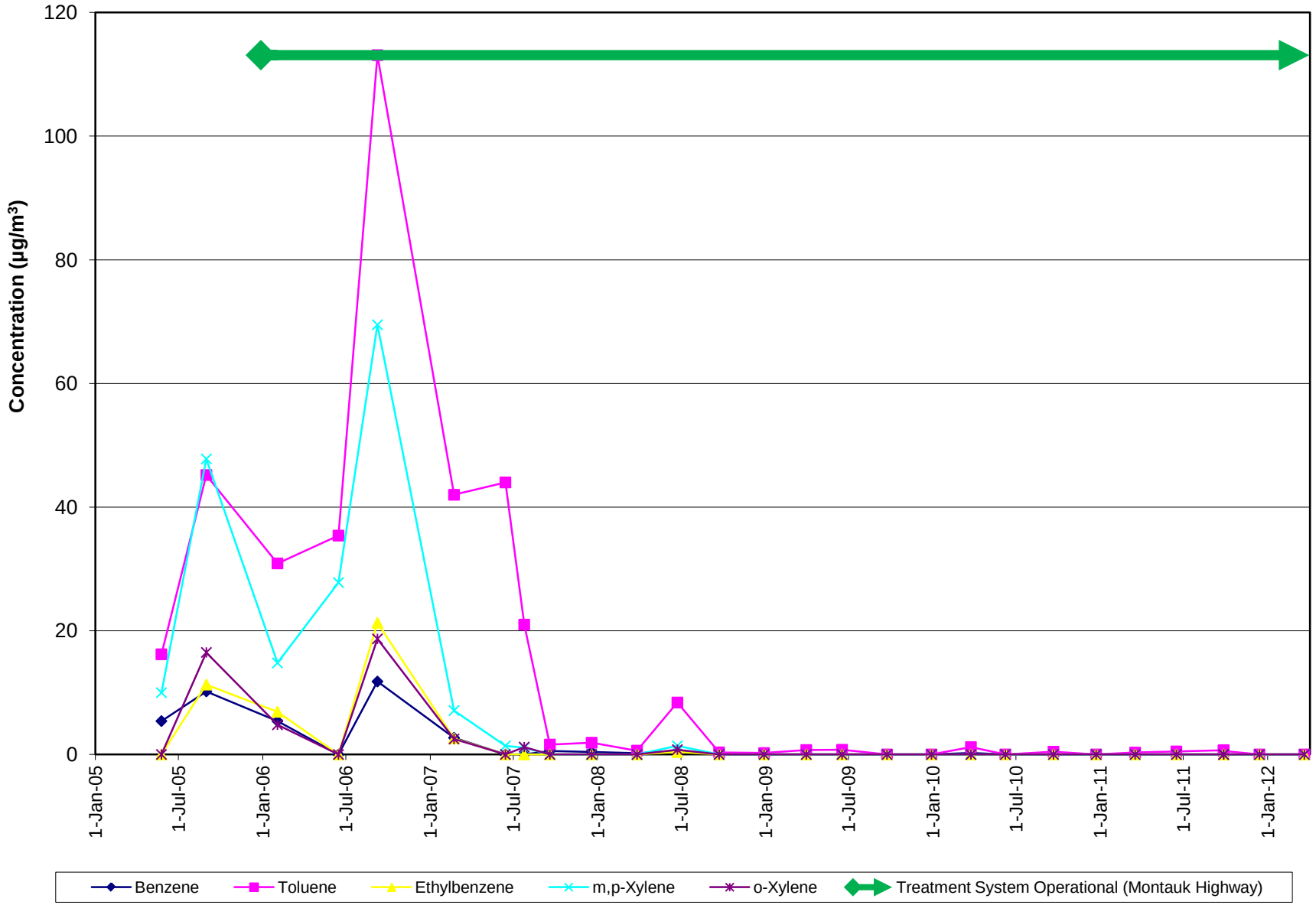

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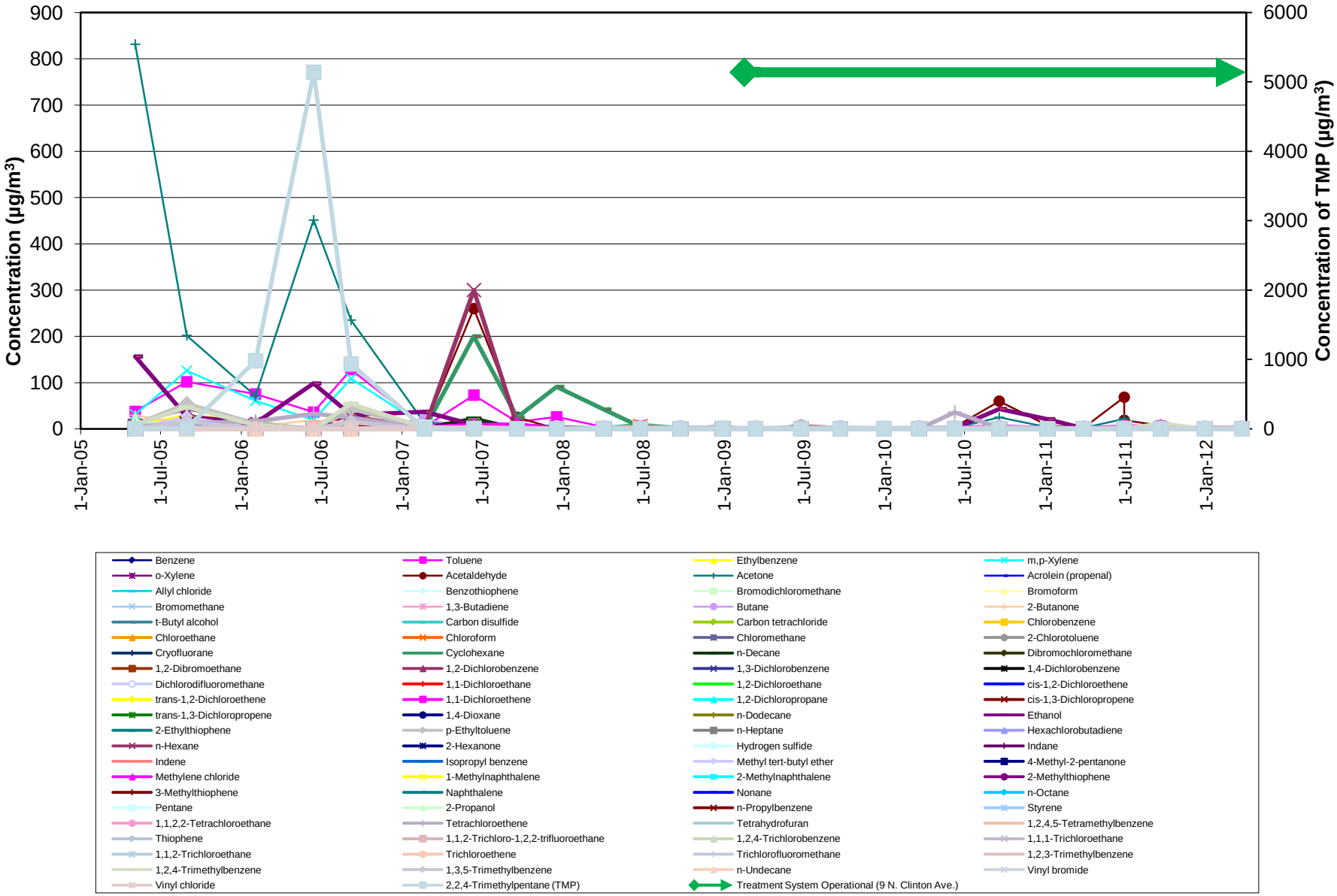
OU2SG-06



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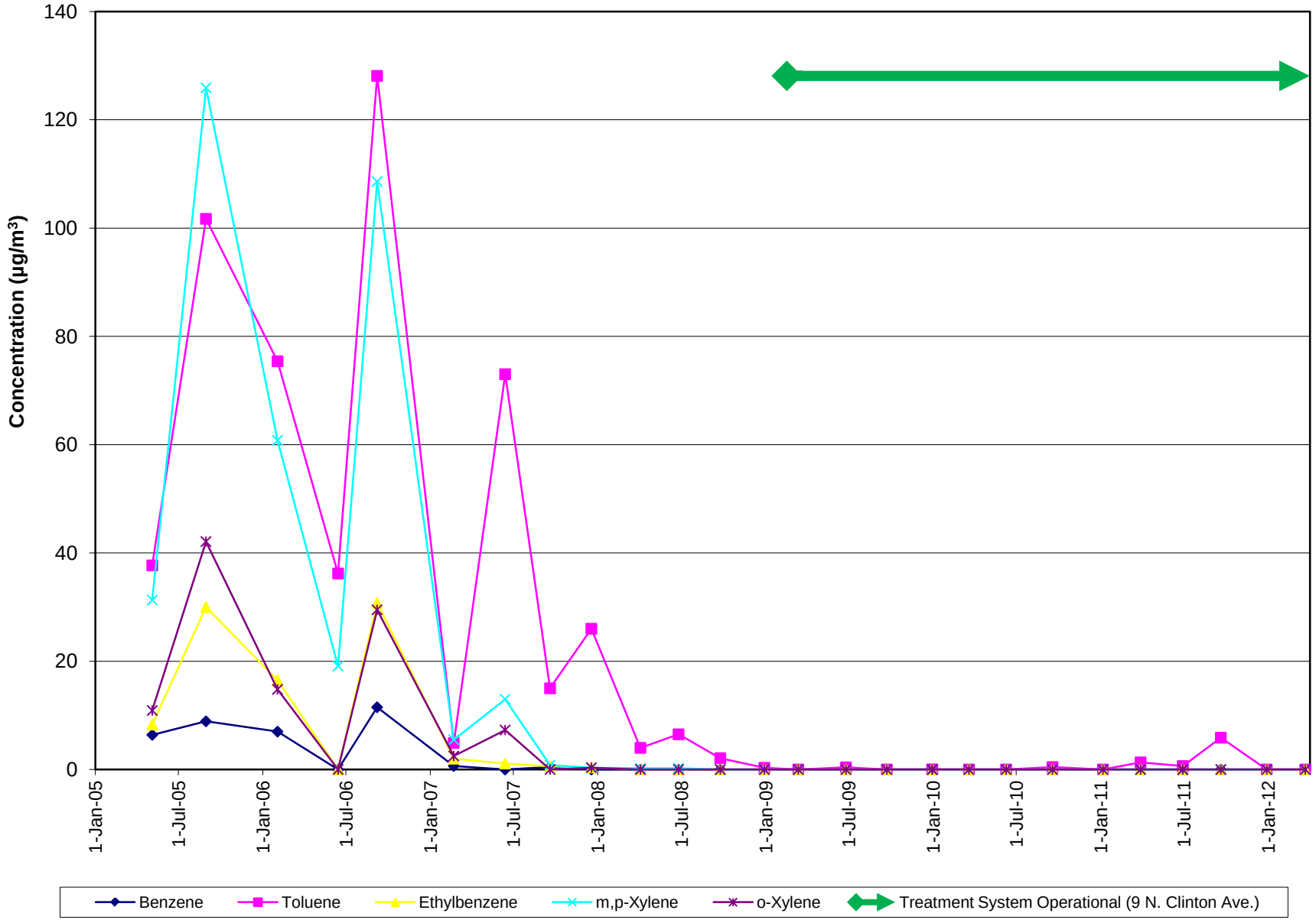

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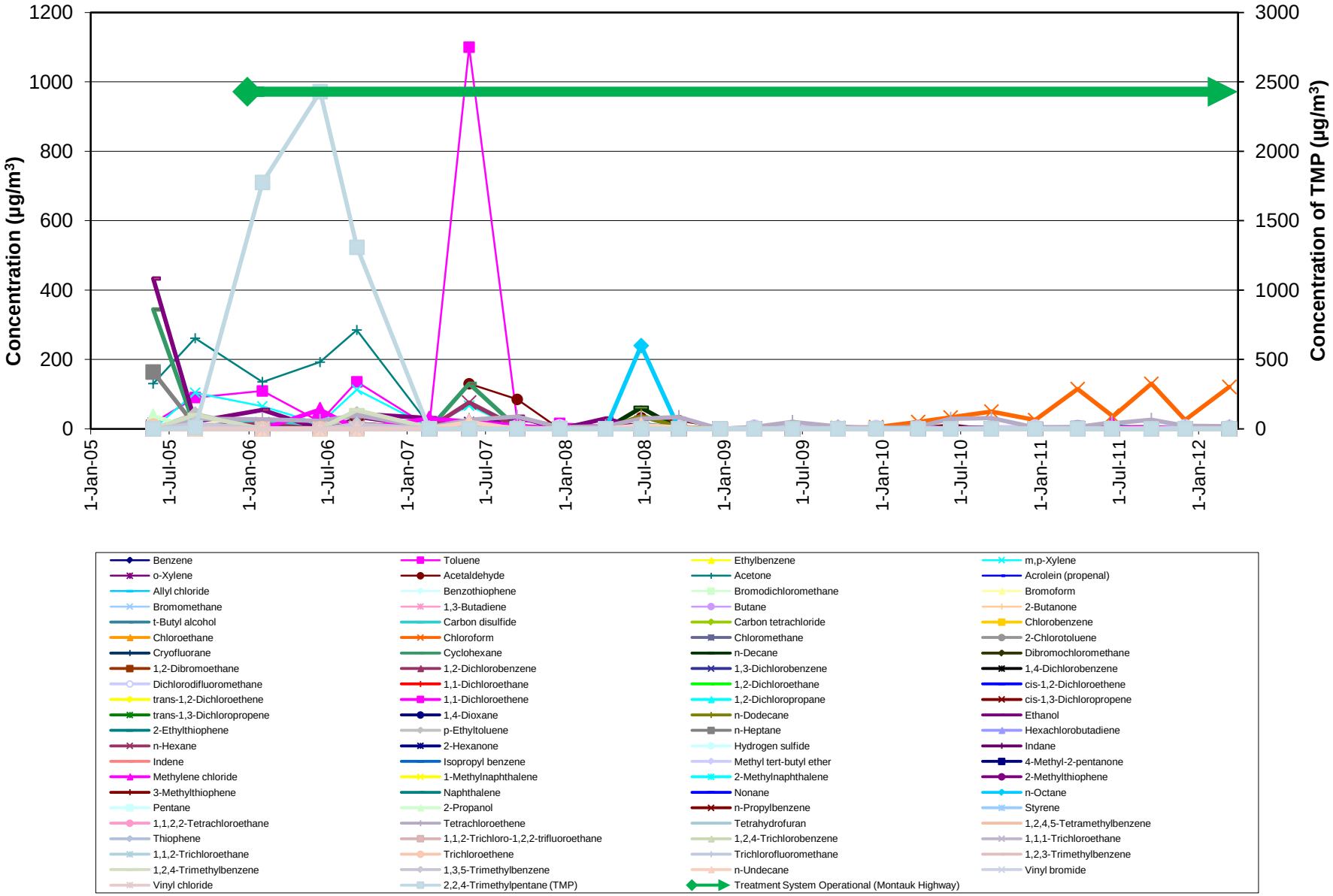
OU2SG-07



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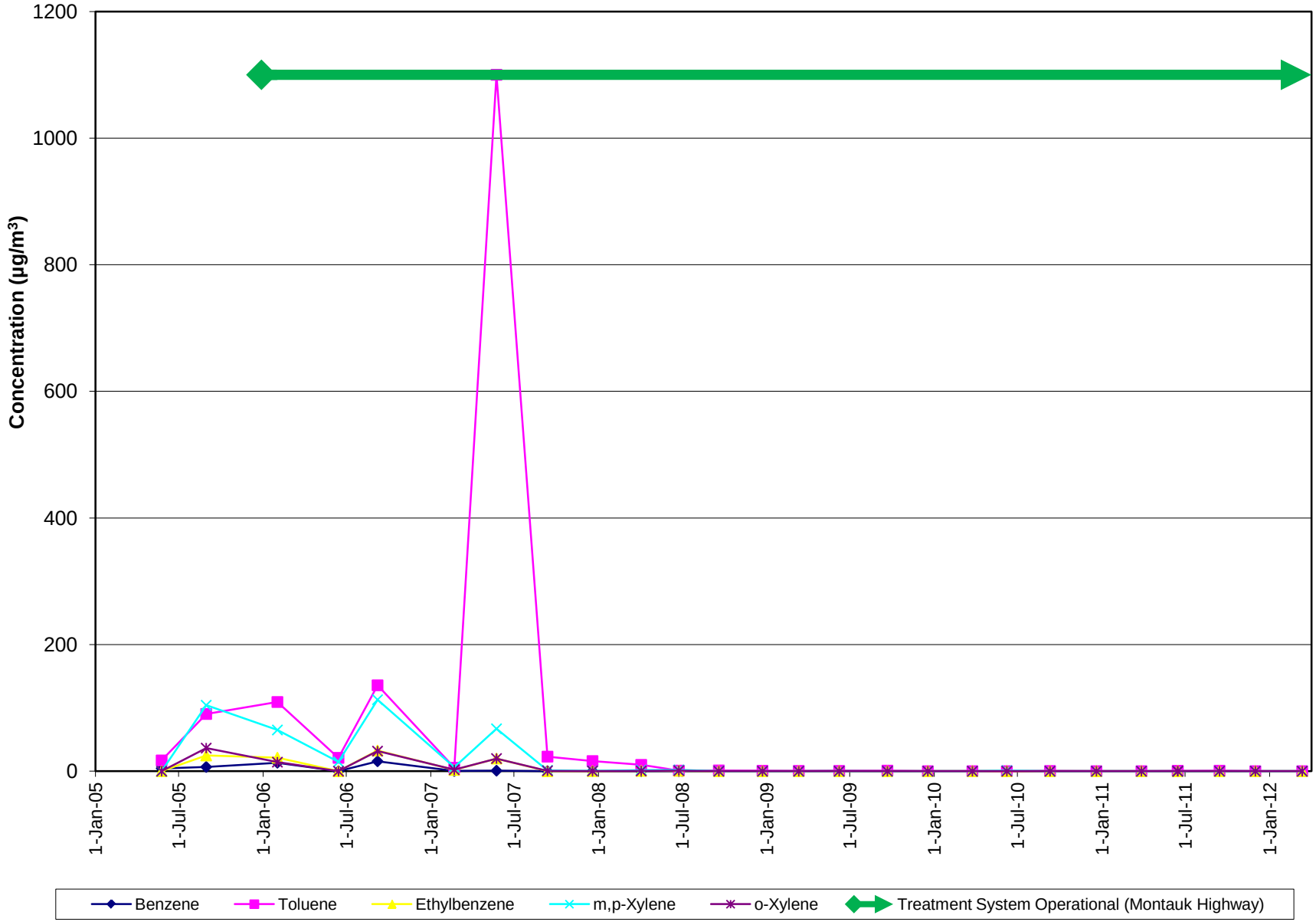

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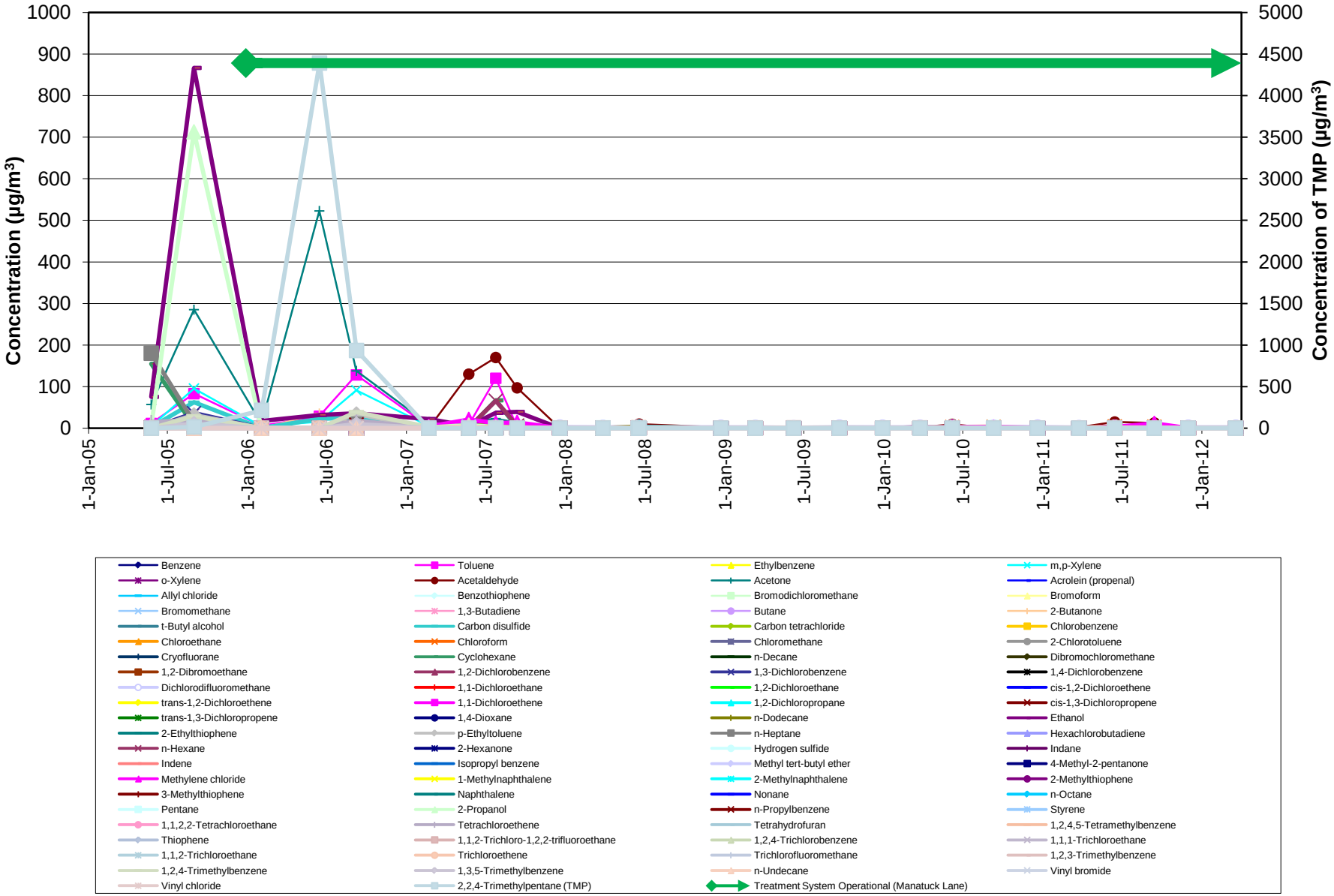
OU2SG-08



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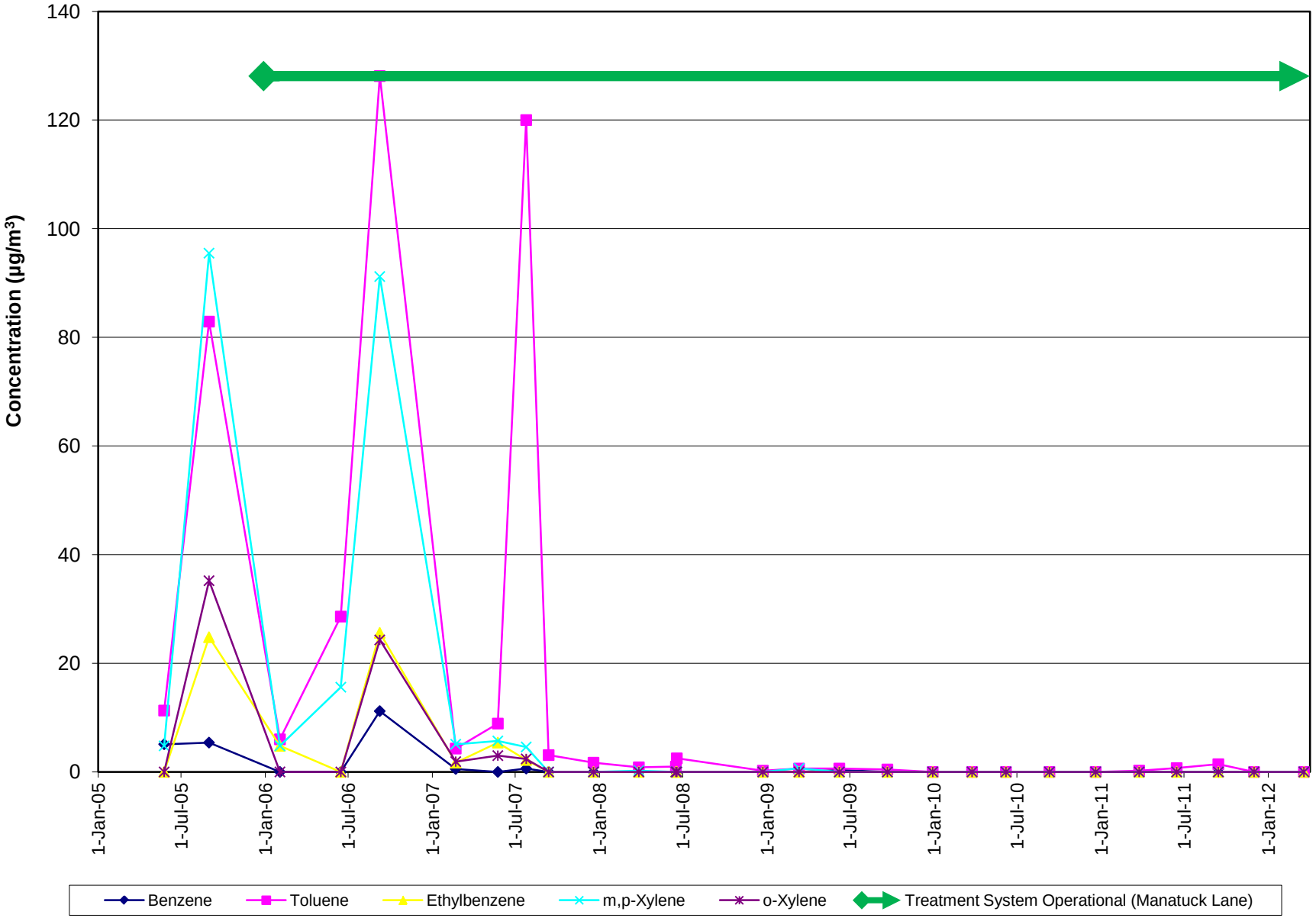

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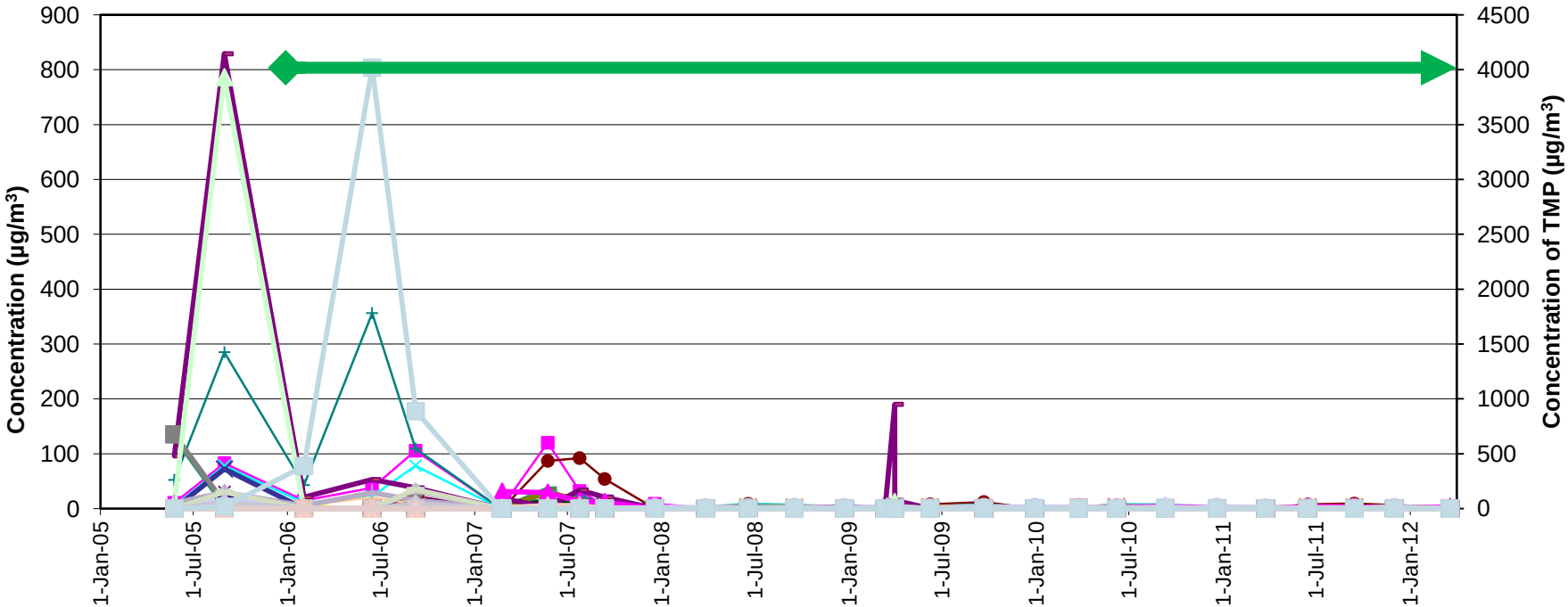
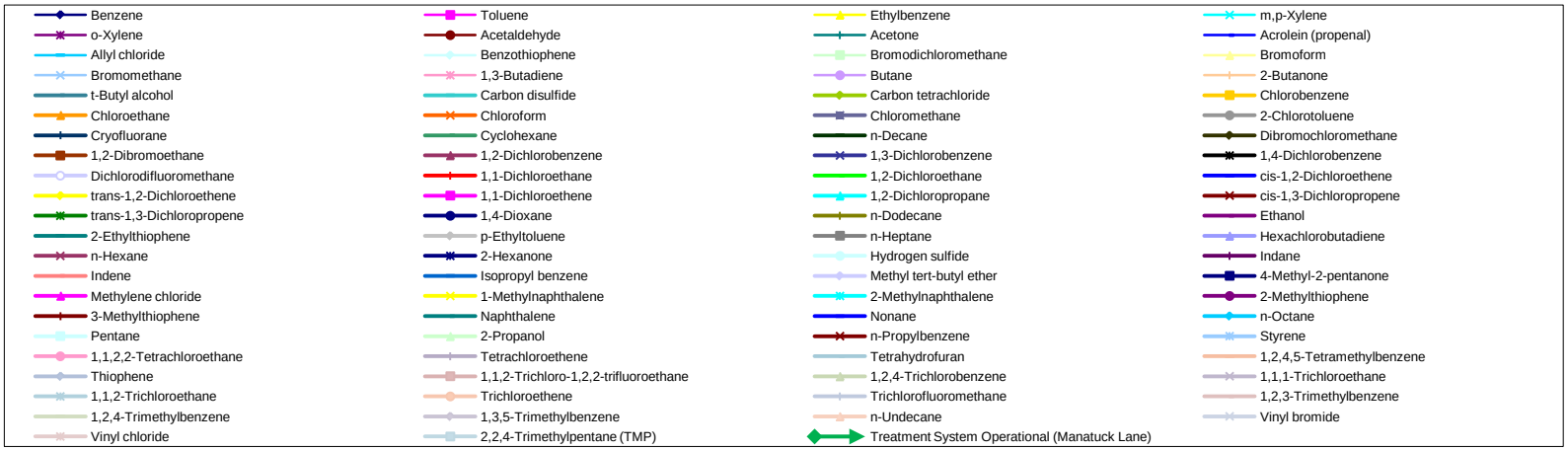
OU2SG-09





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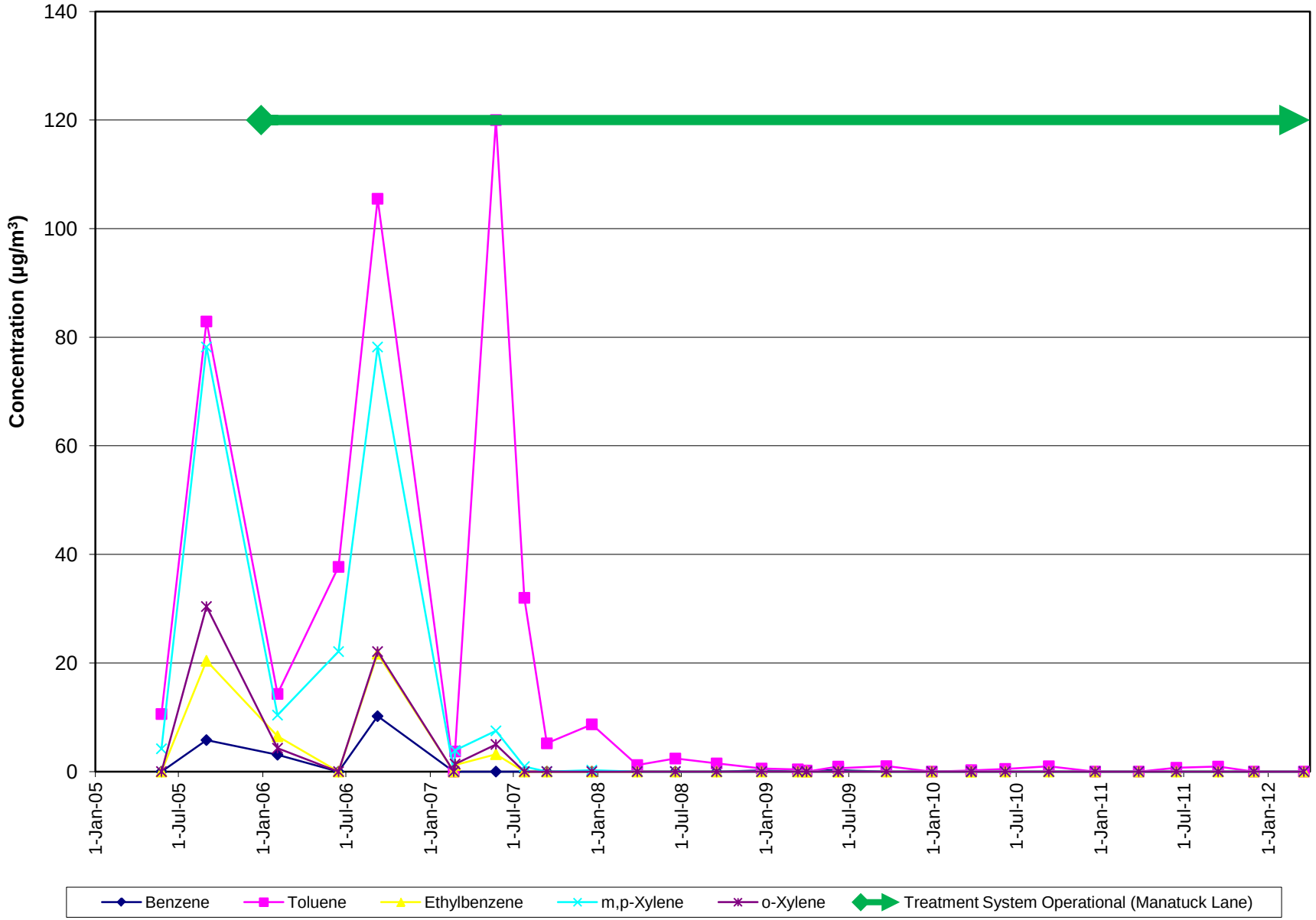

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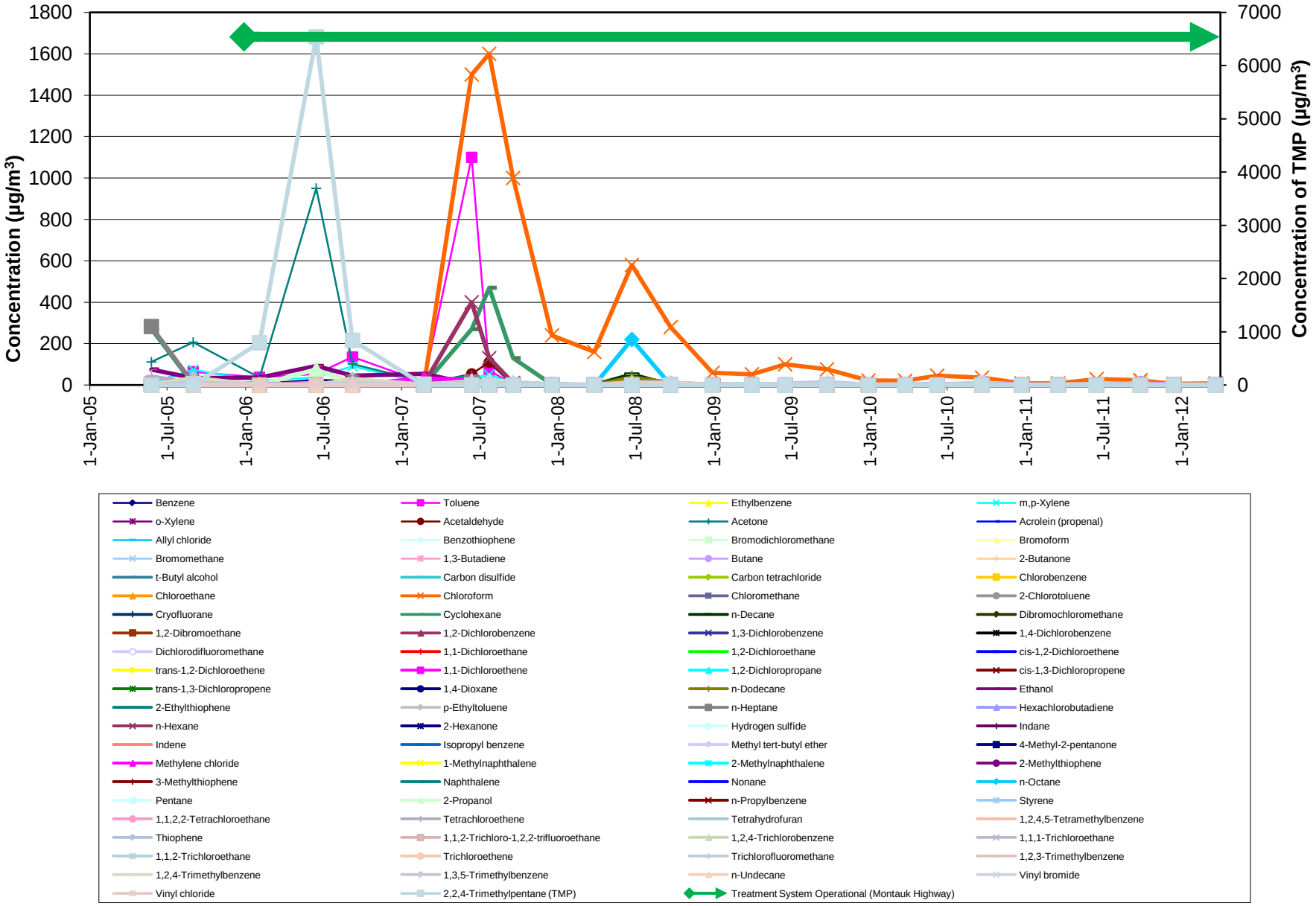
OU2SG-10



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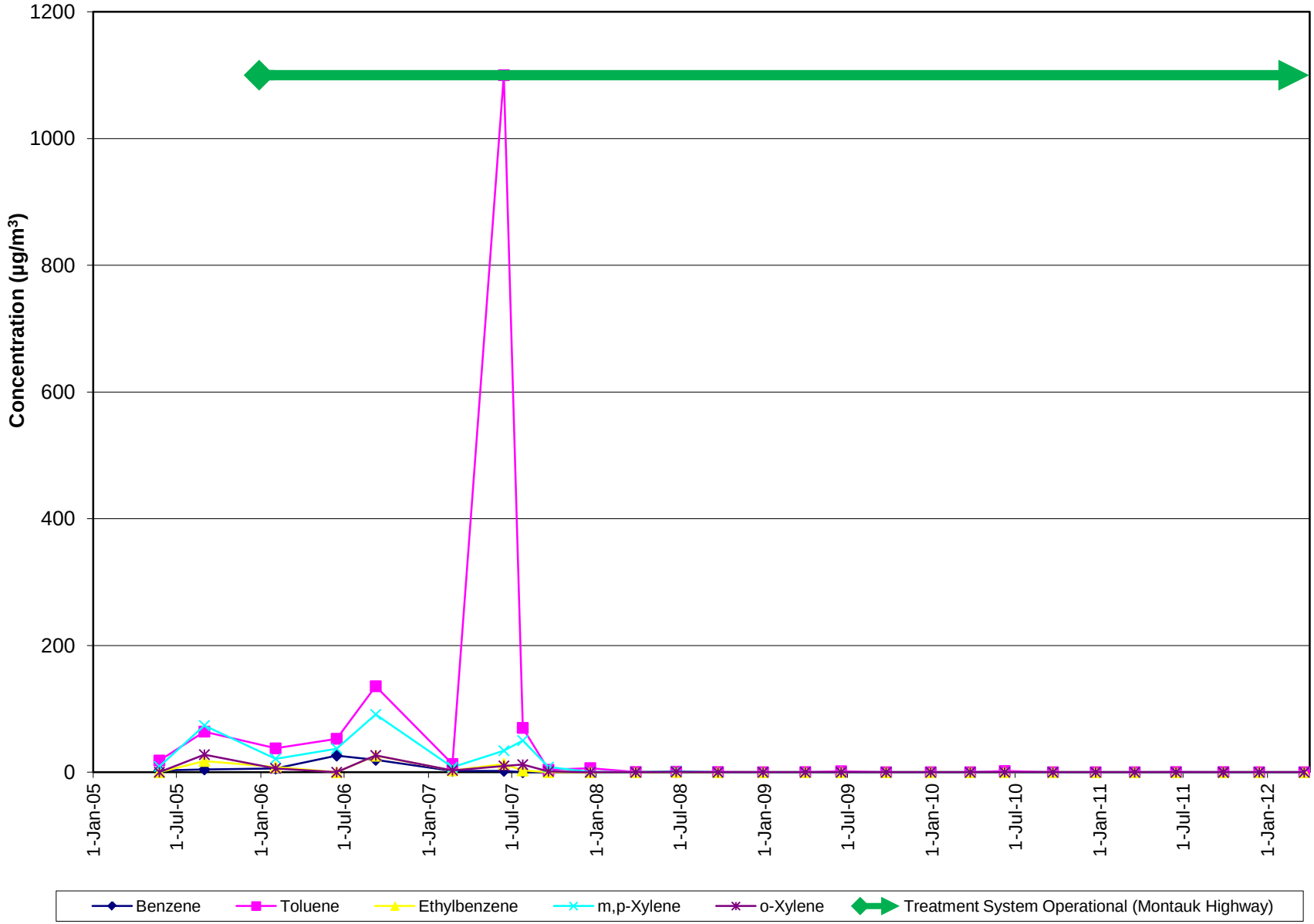

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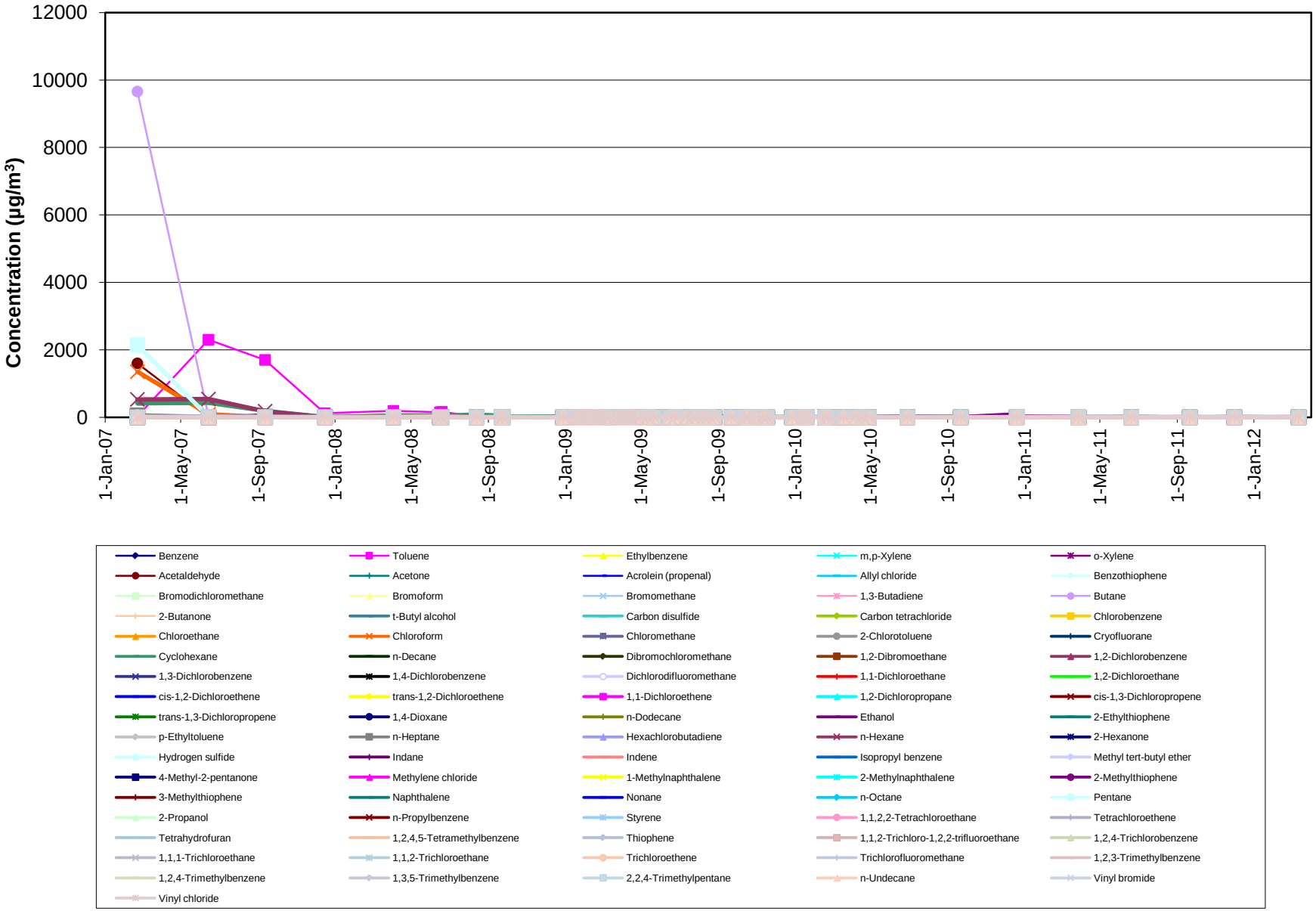
OU2SG-11



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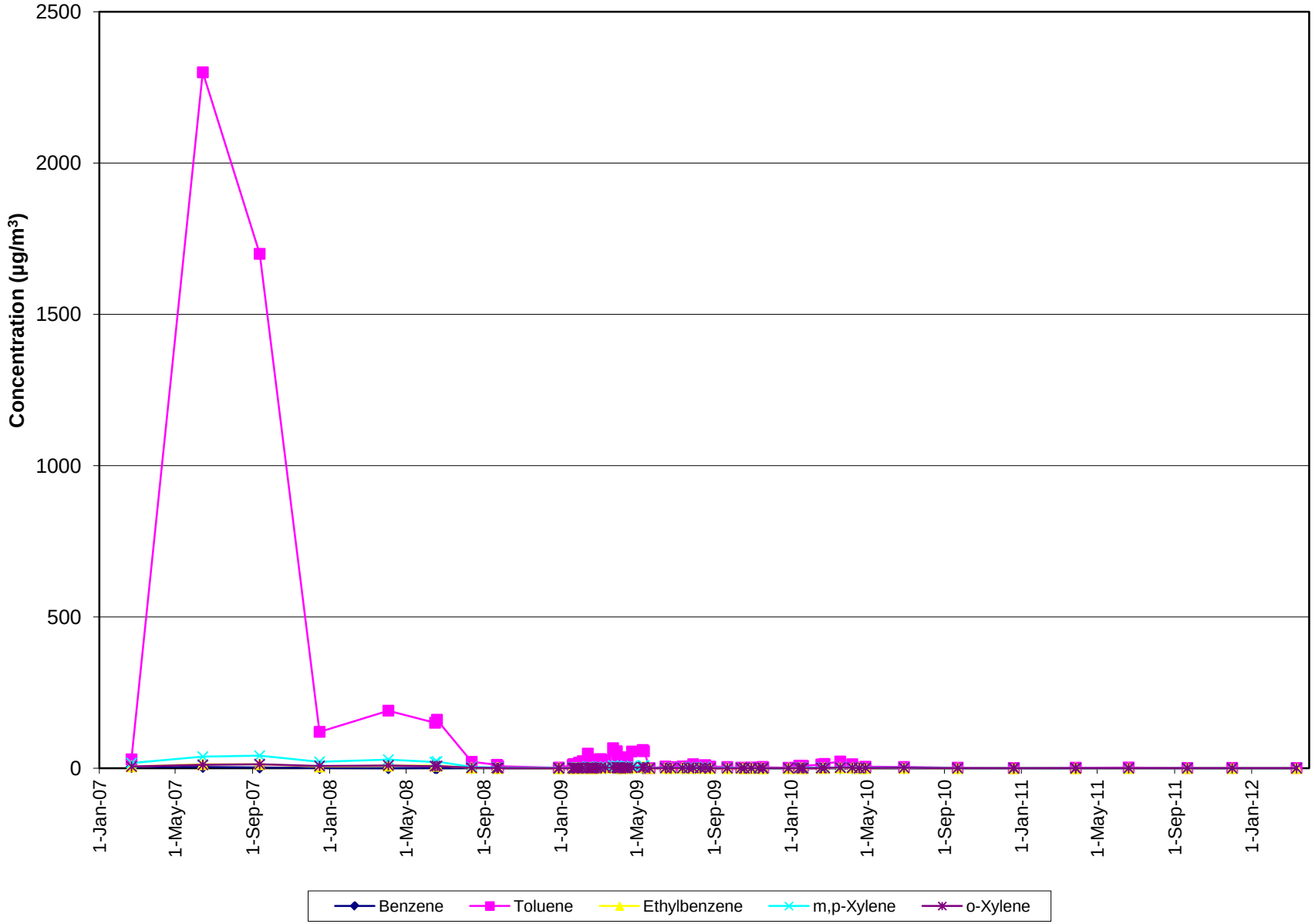

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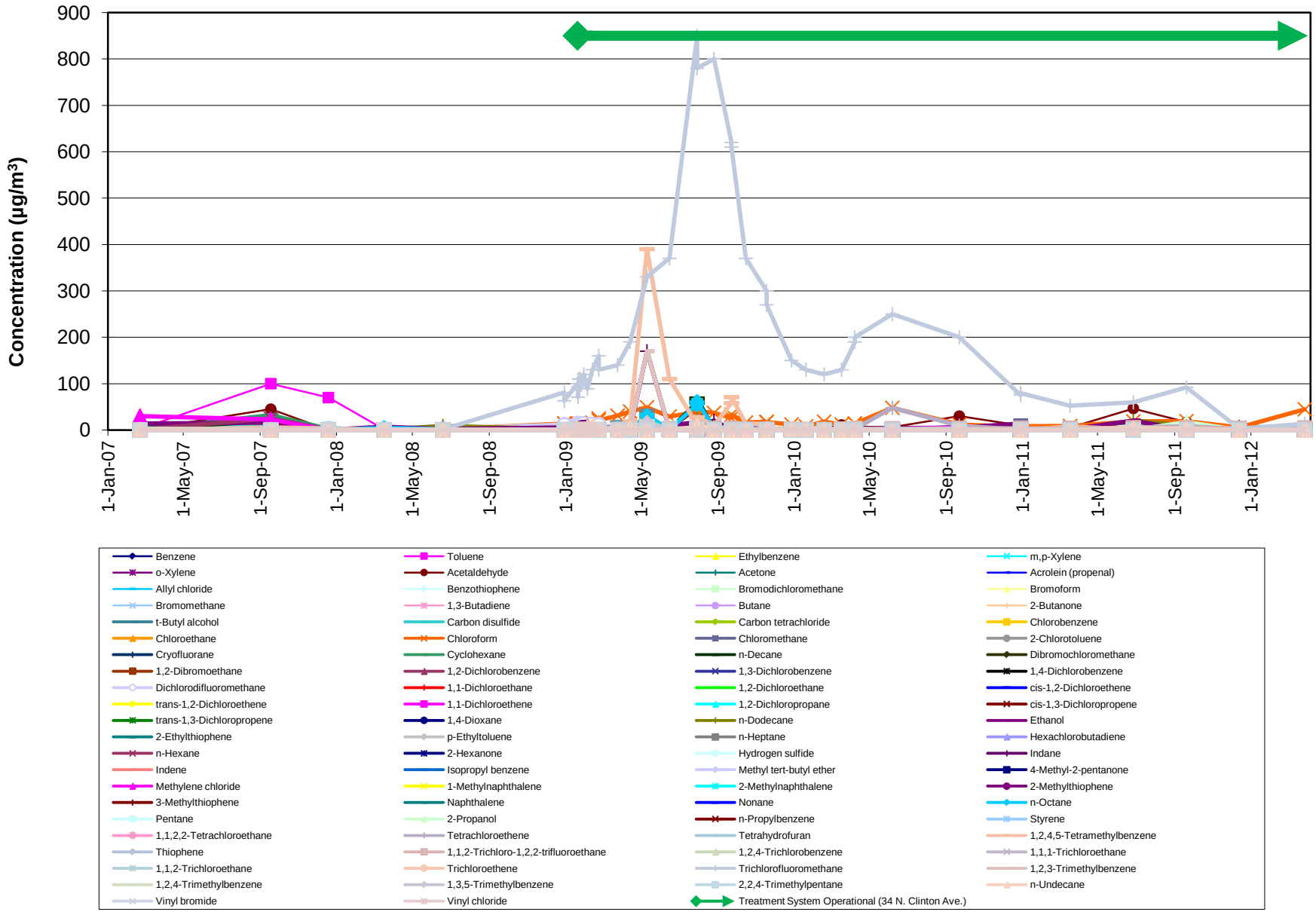
OU2SG-12



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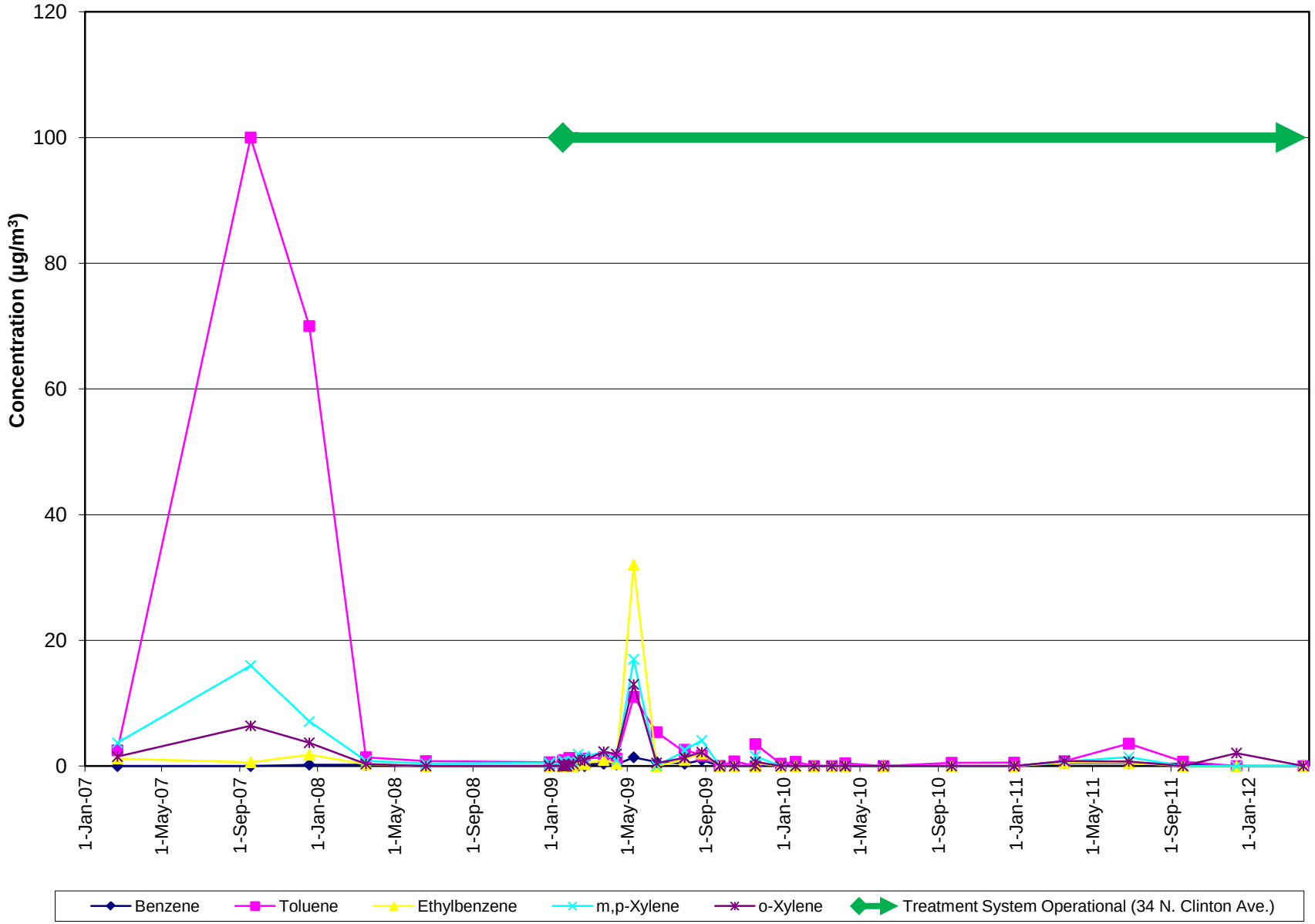

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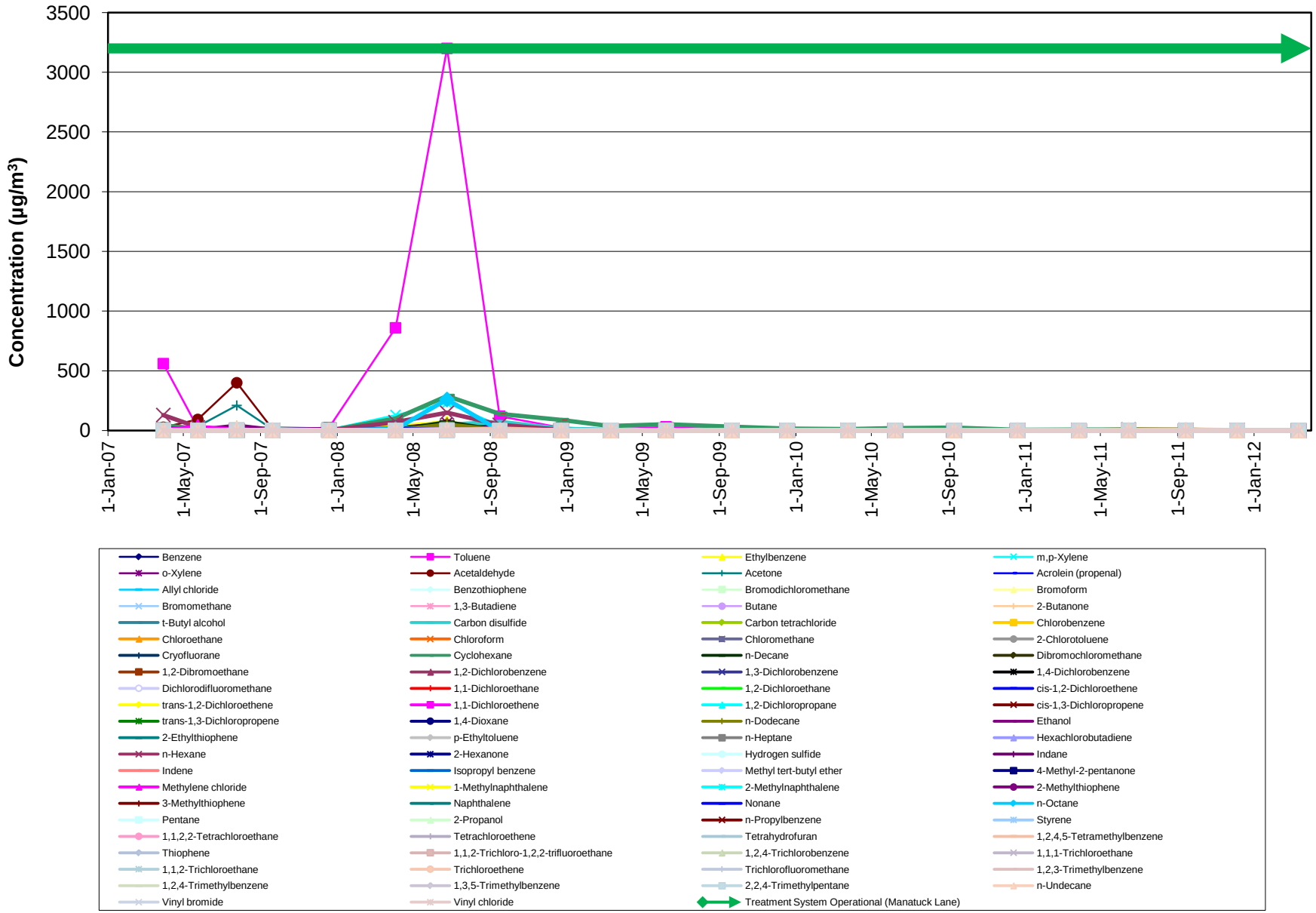
OU2SG-13



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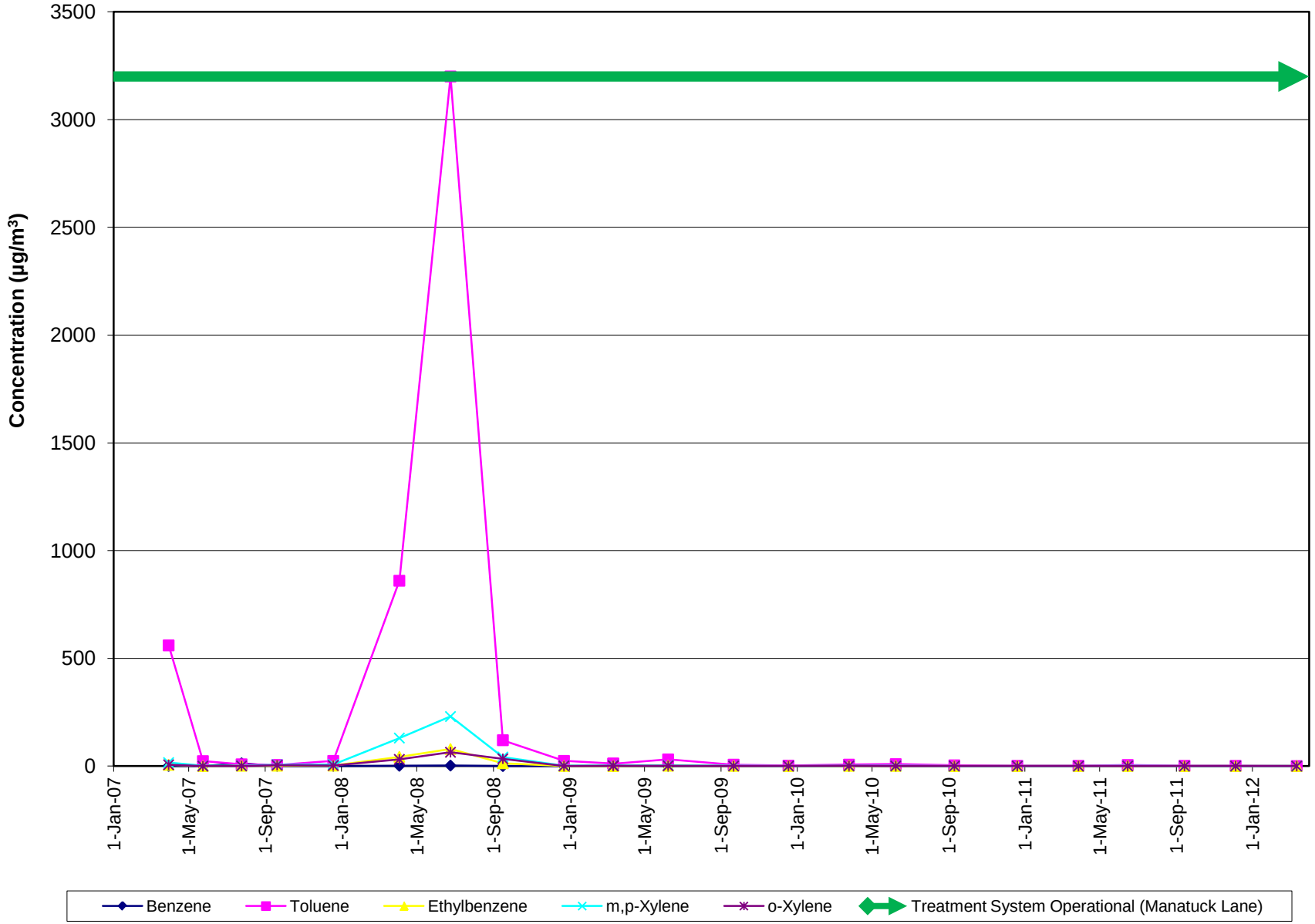

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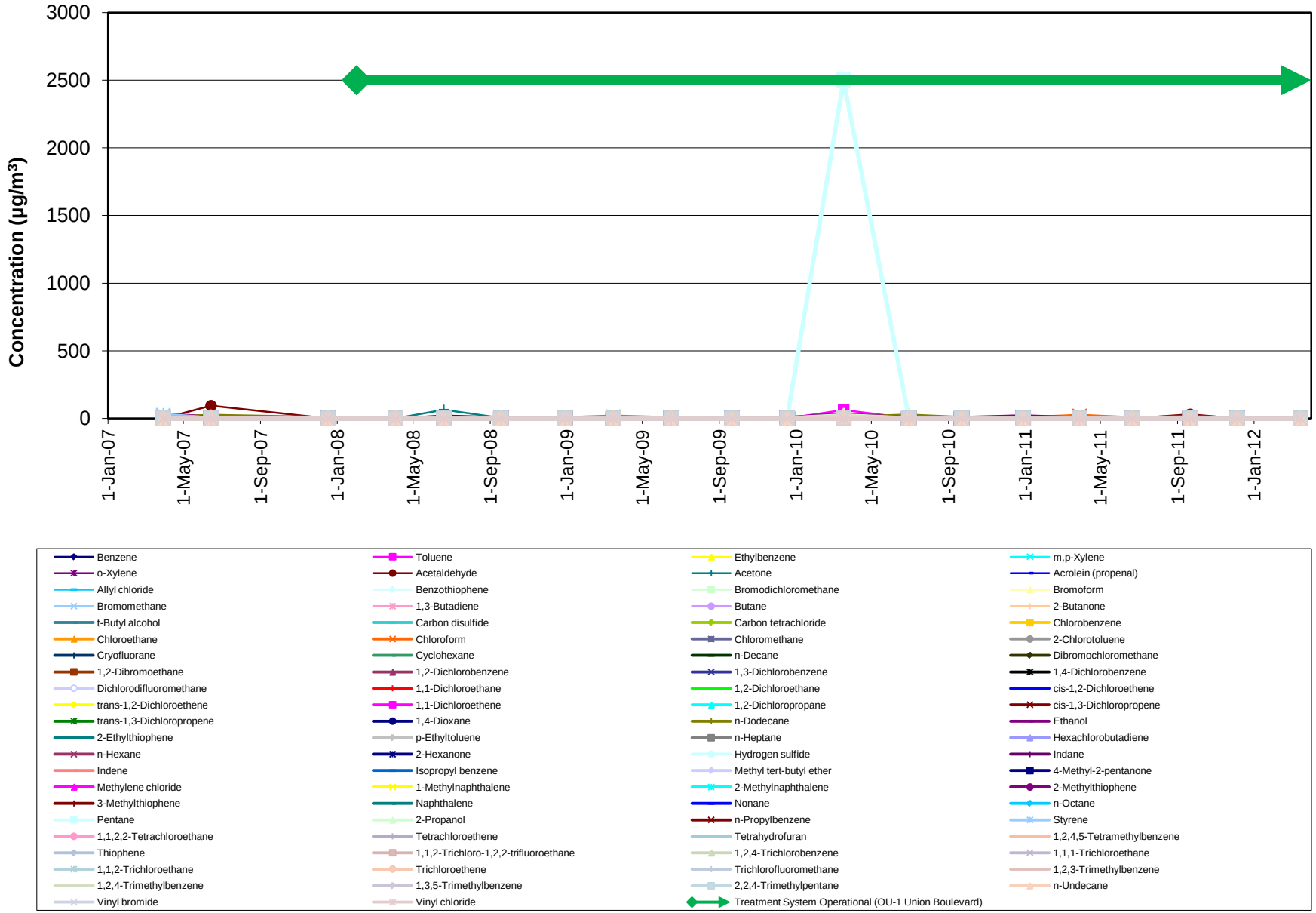
OU2SG-14



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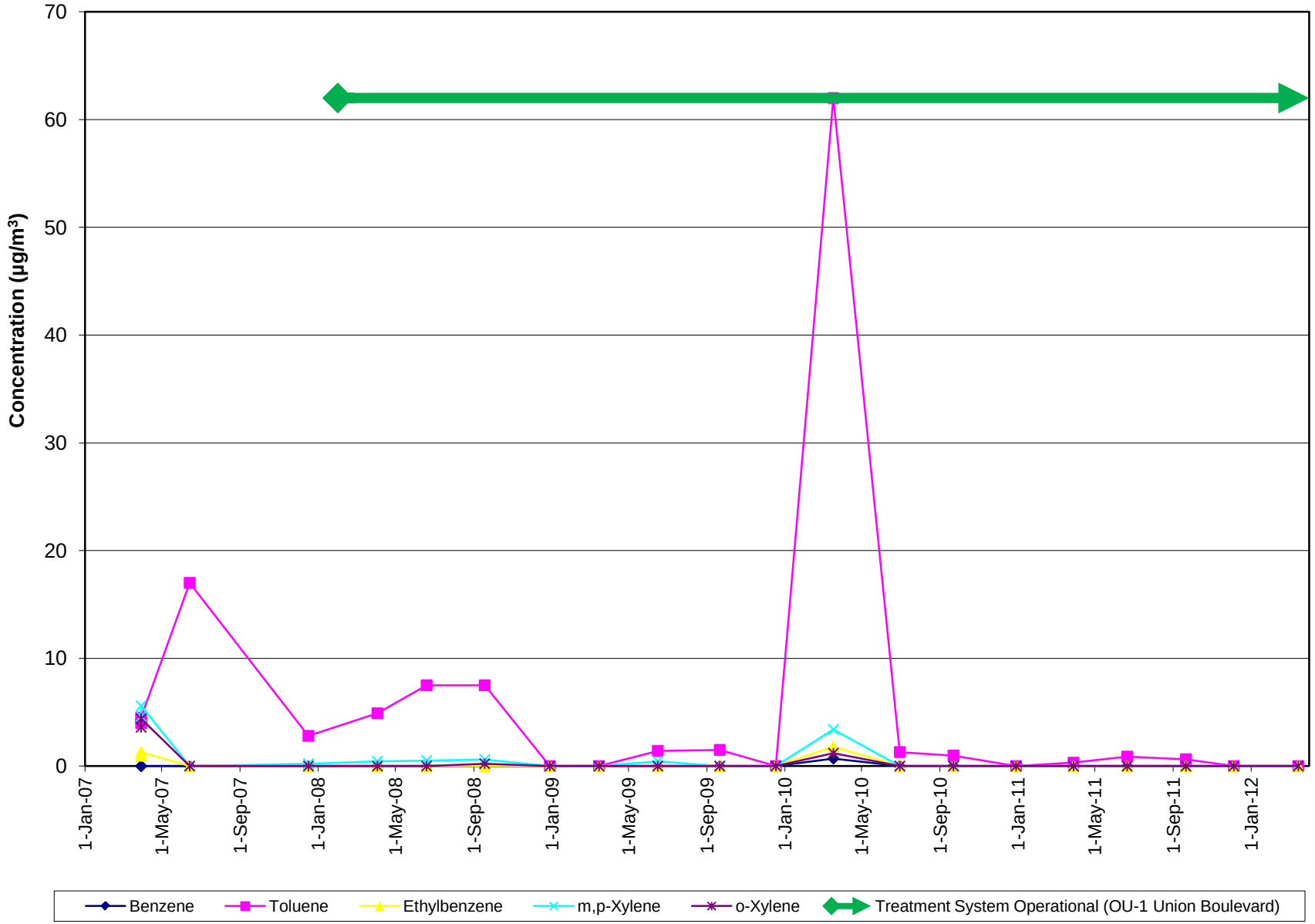

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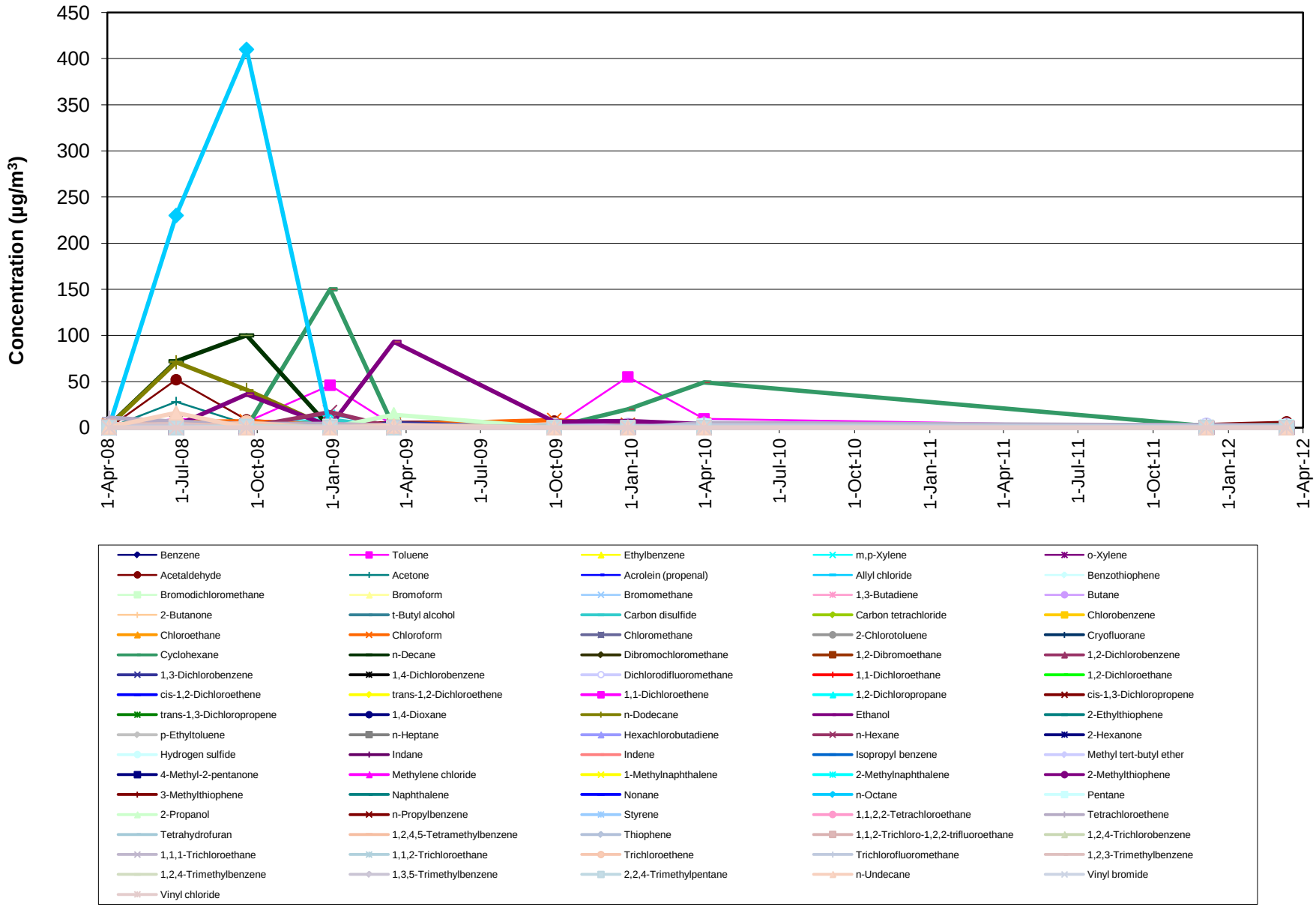
OU2SG-16



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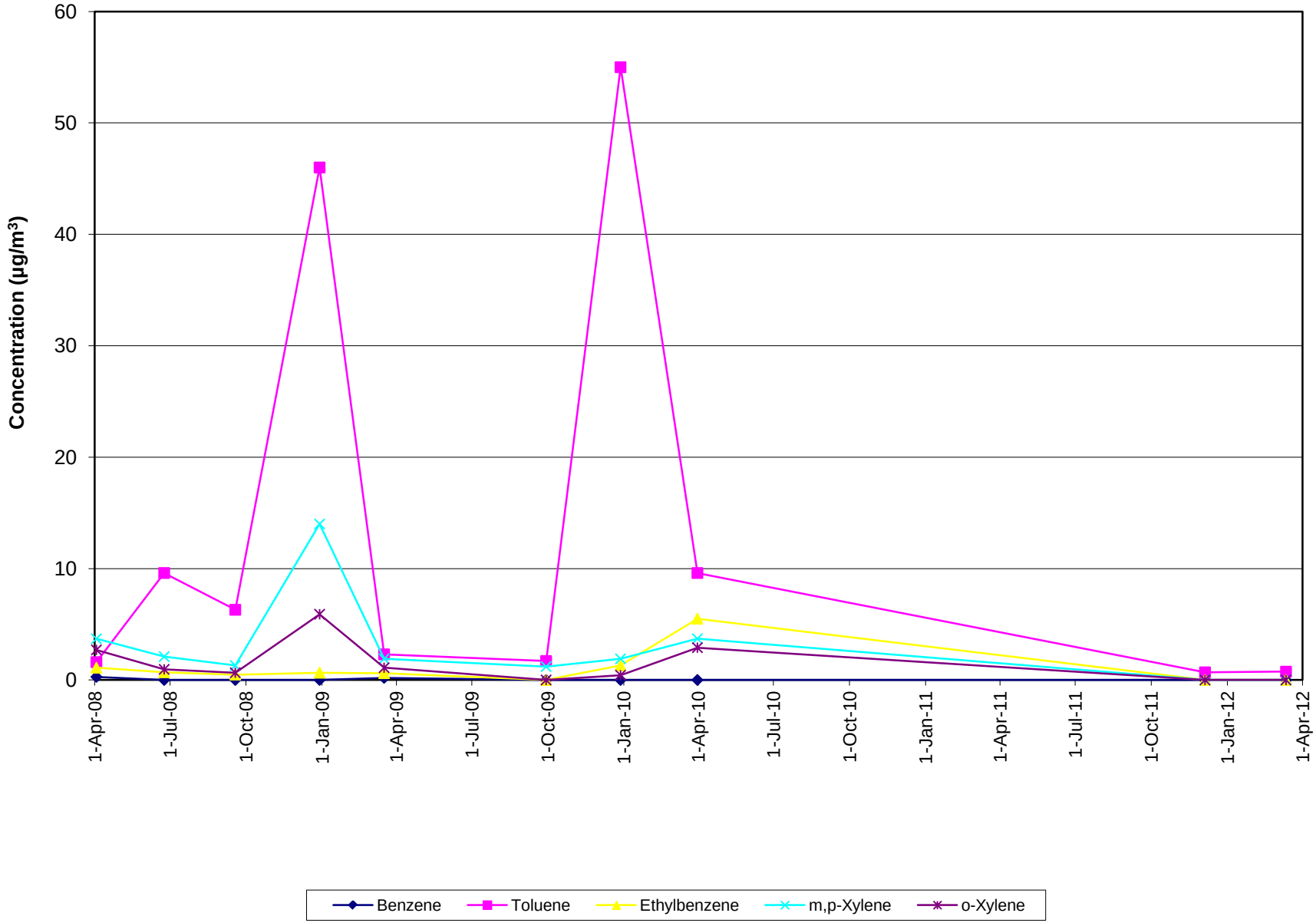

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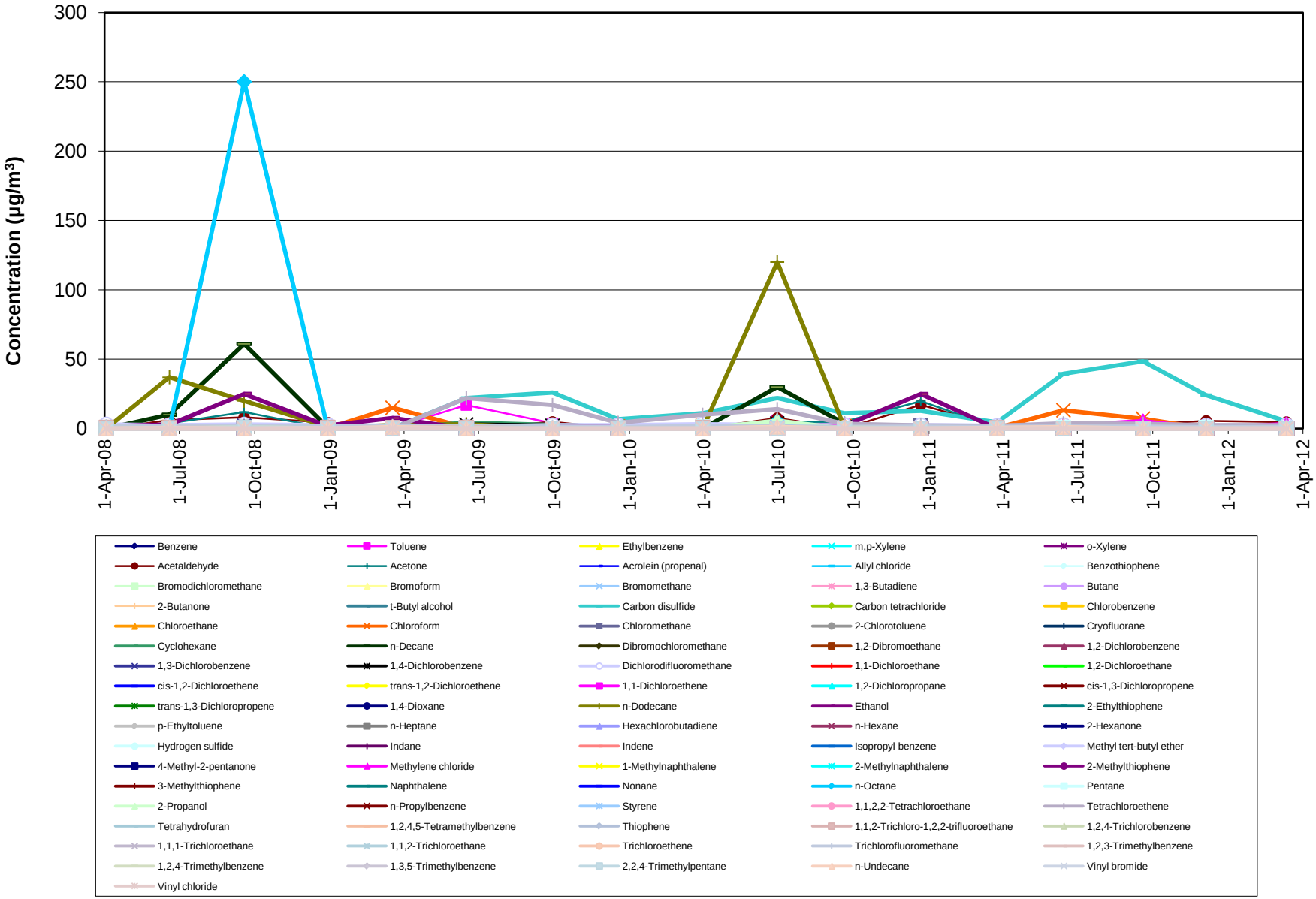
OU2SG-18



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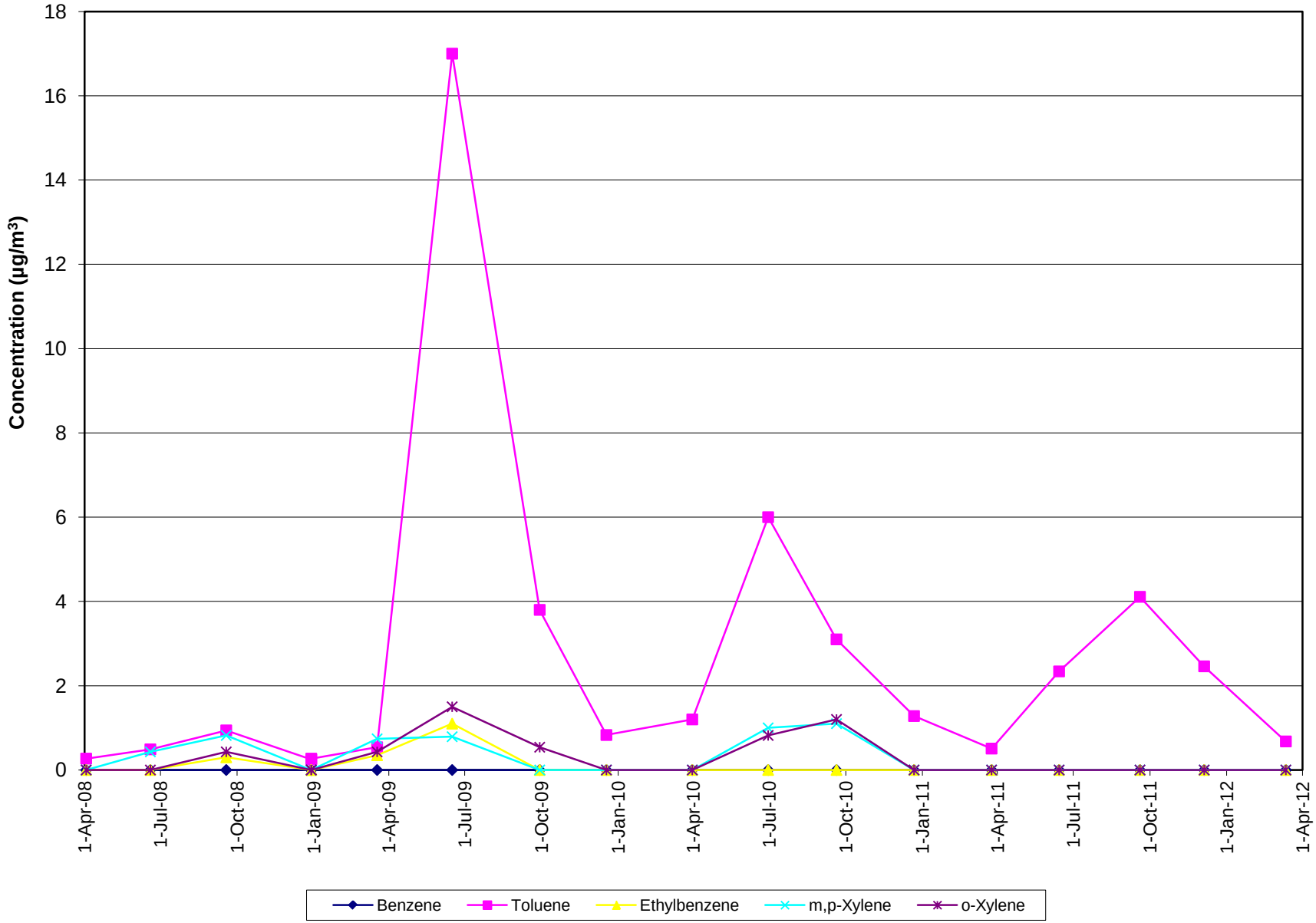

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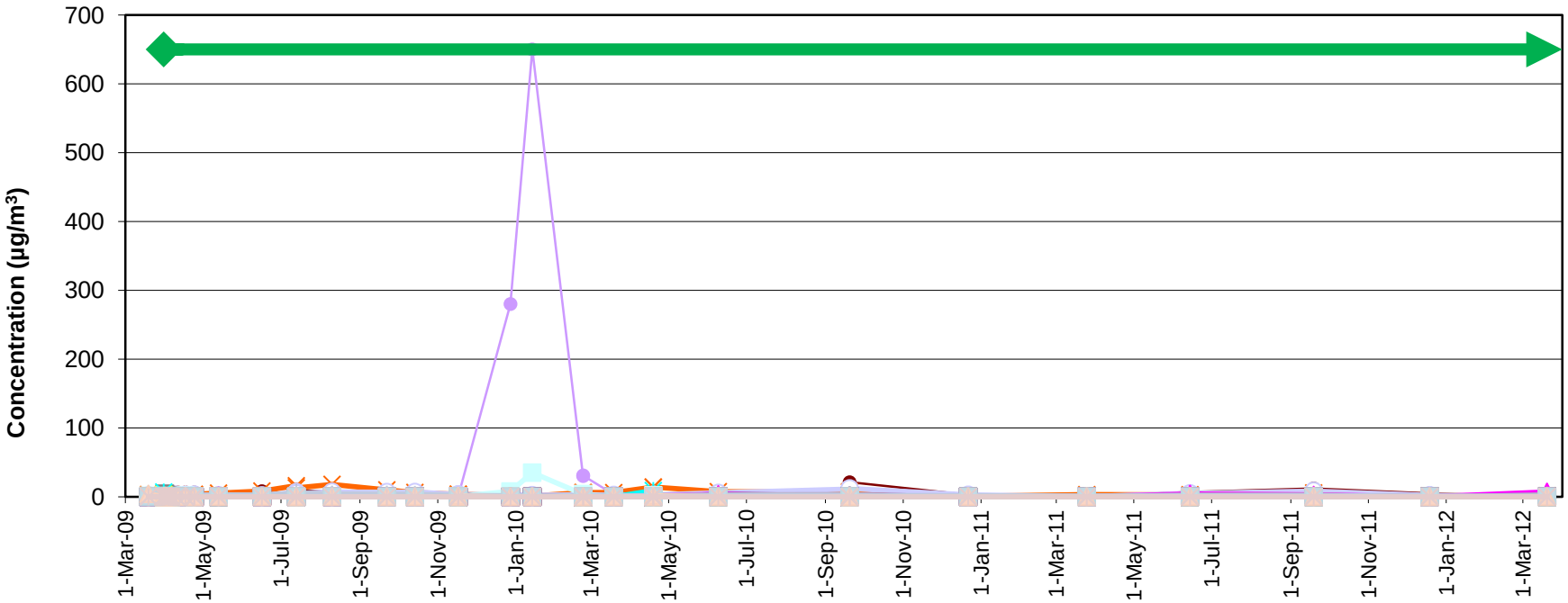
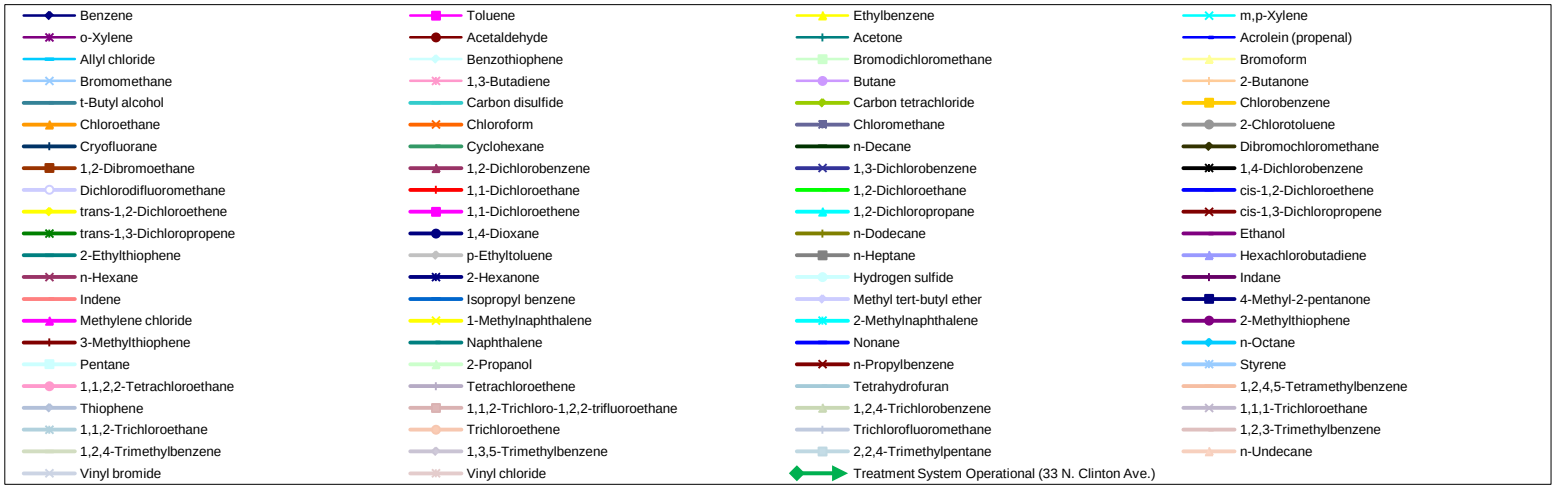
OU2SG-19





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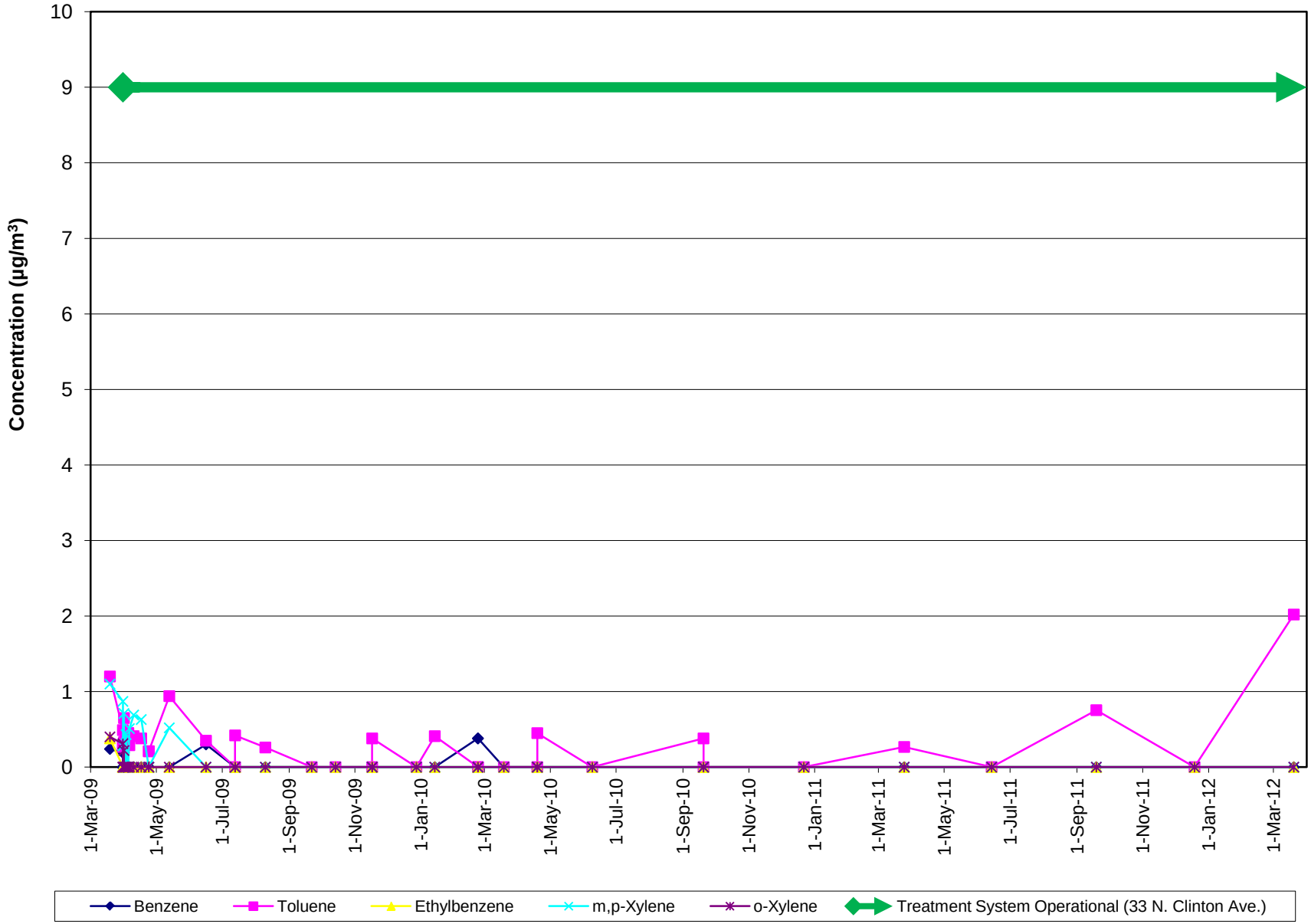

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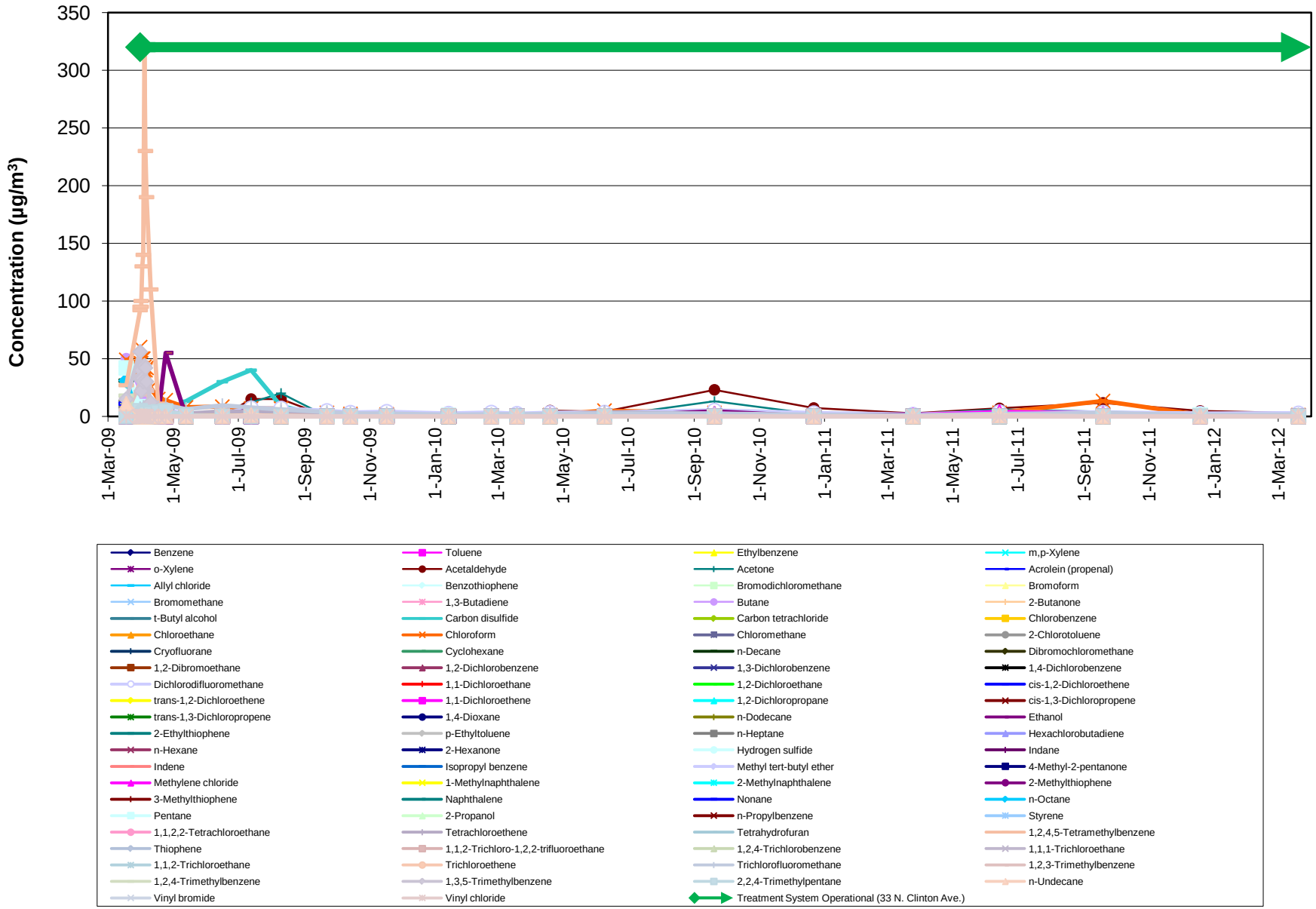
OU2SG-20



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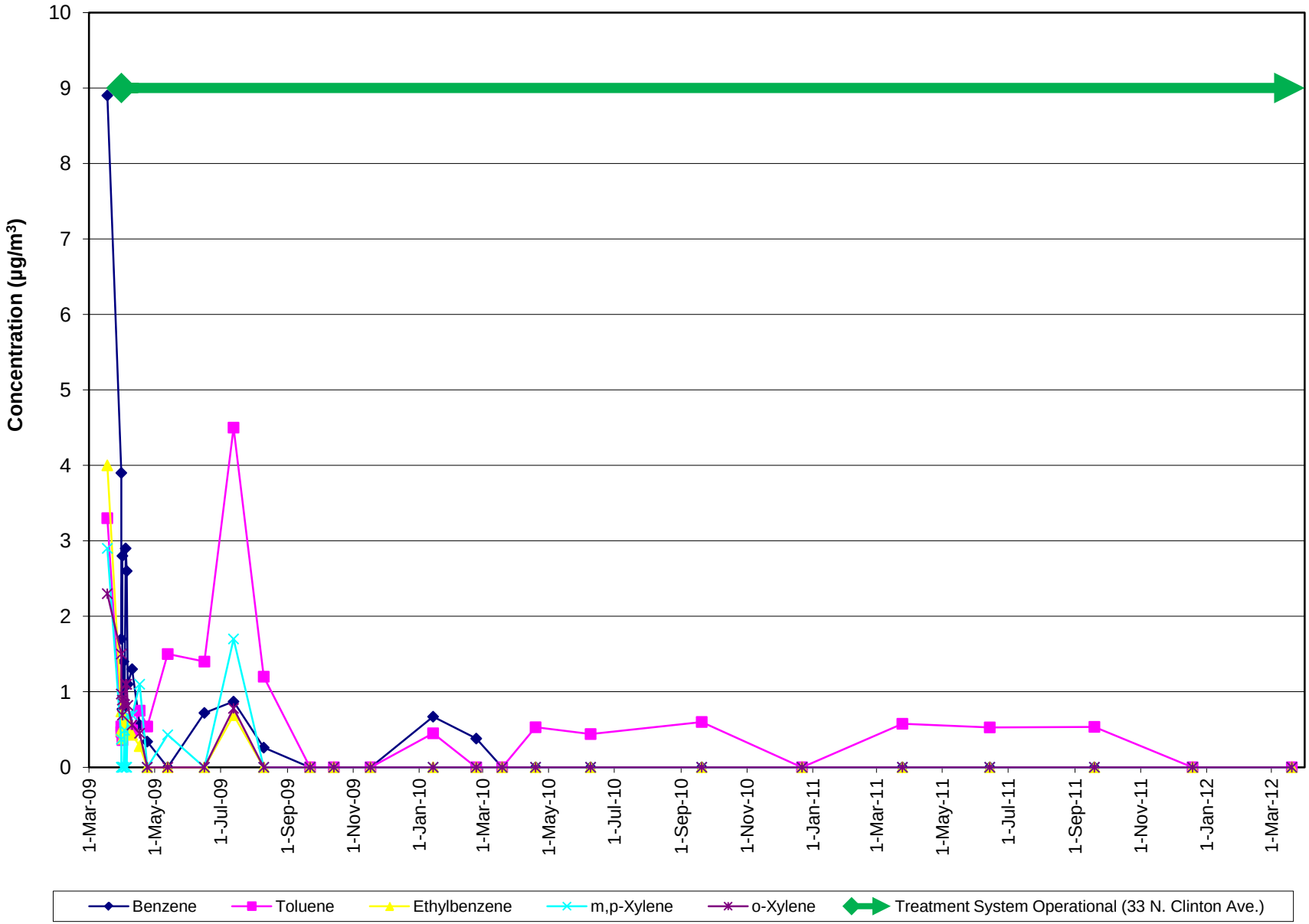

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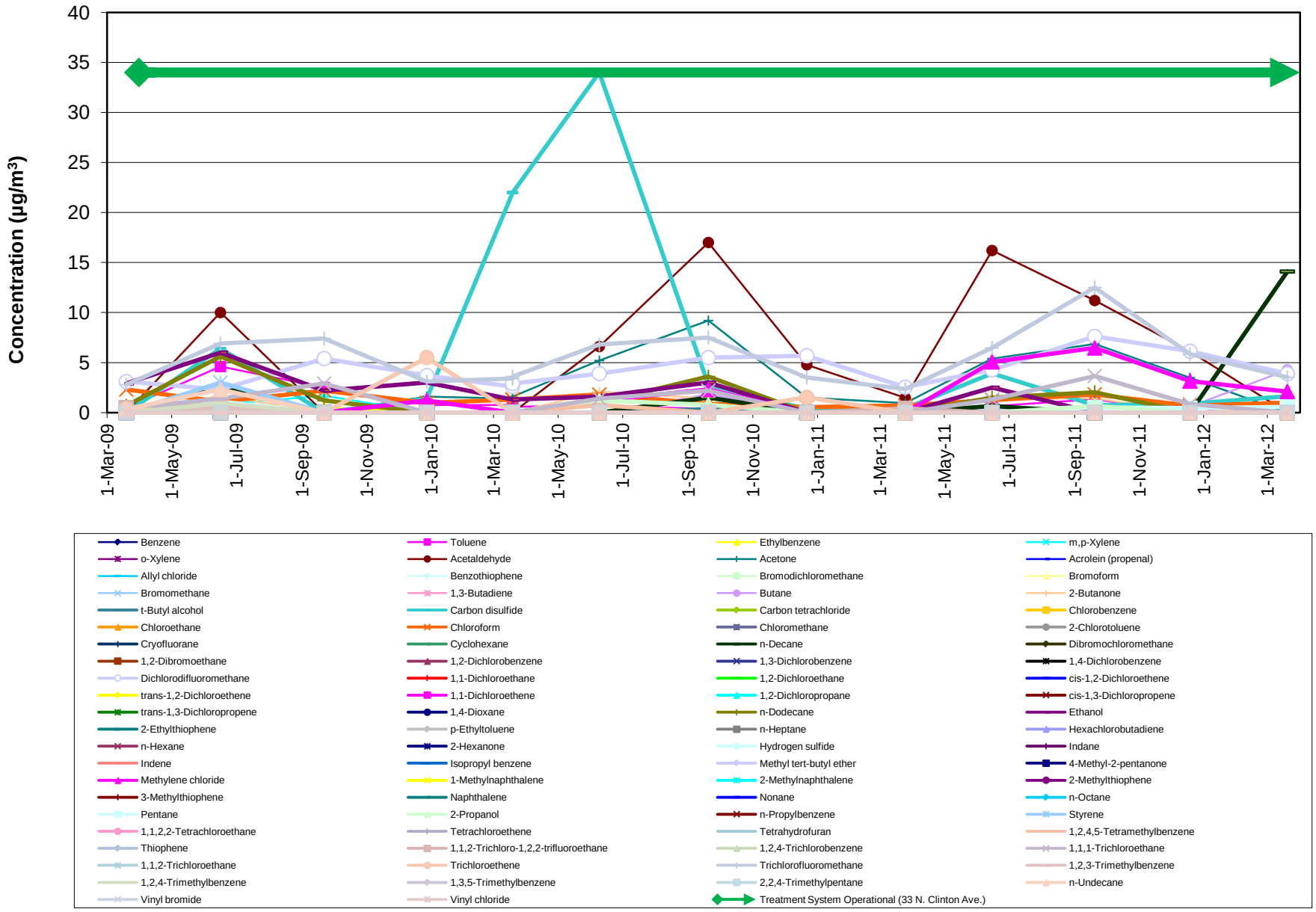
OU2SG-21



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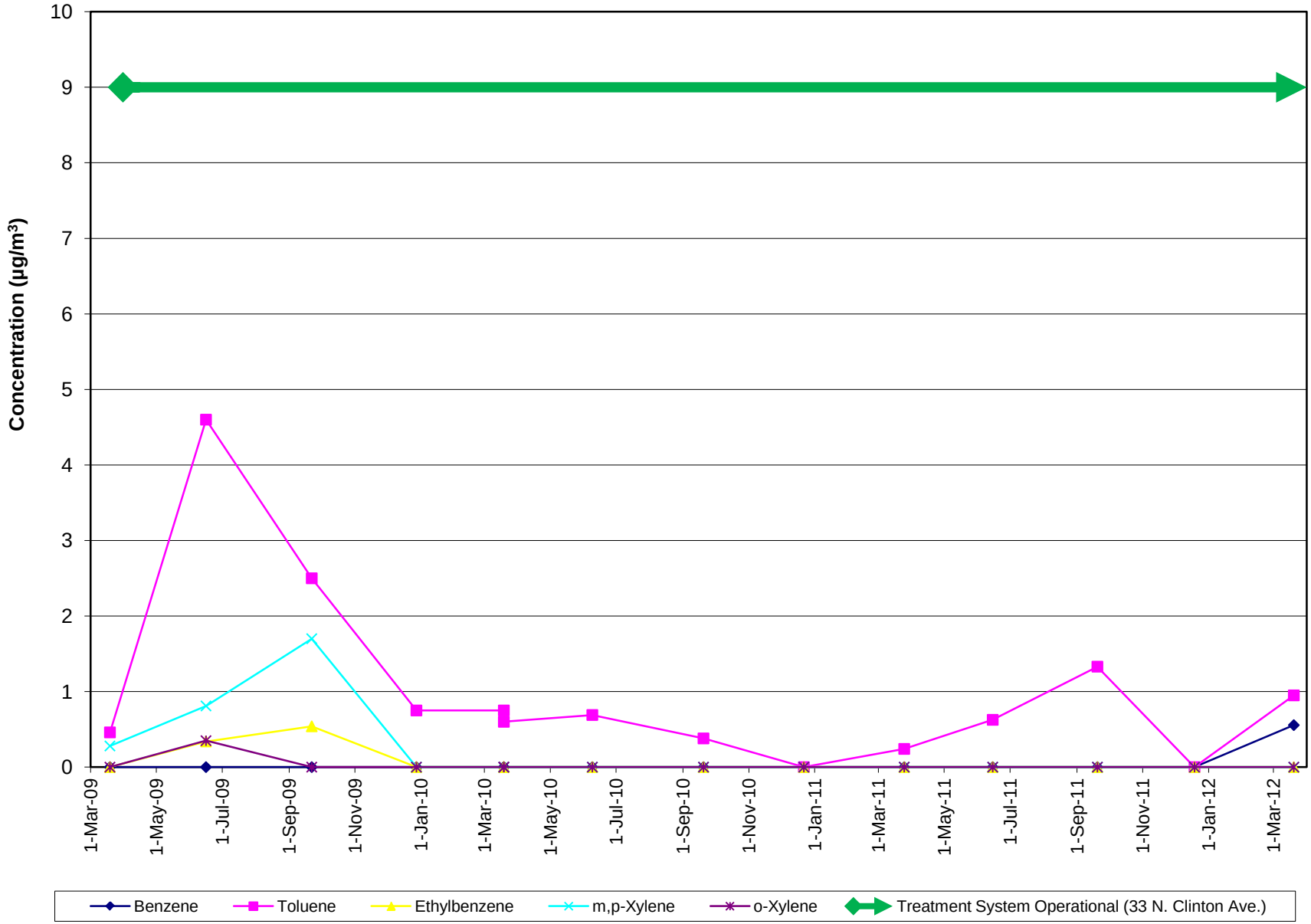

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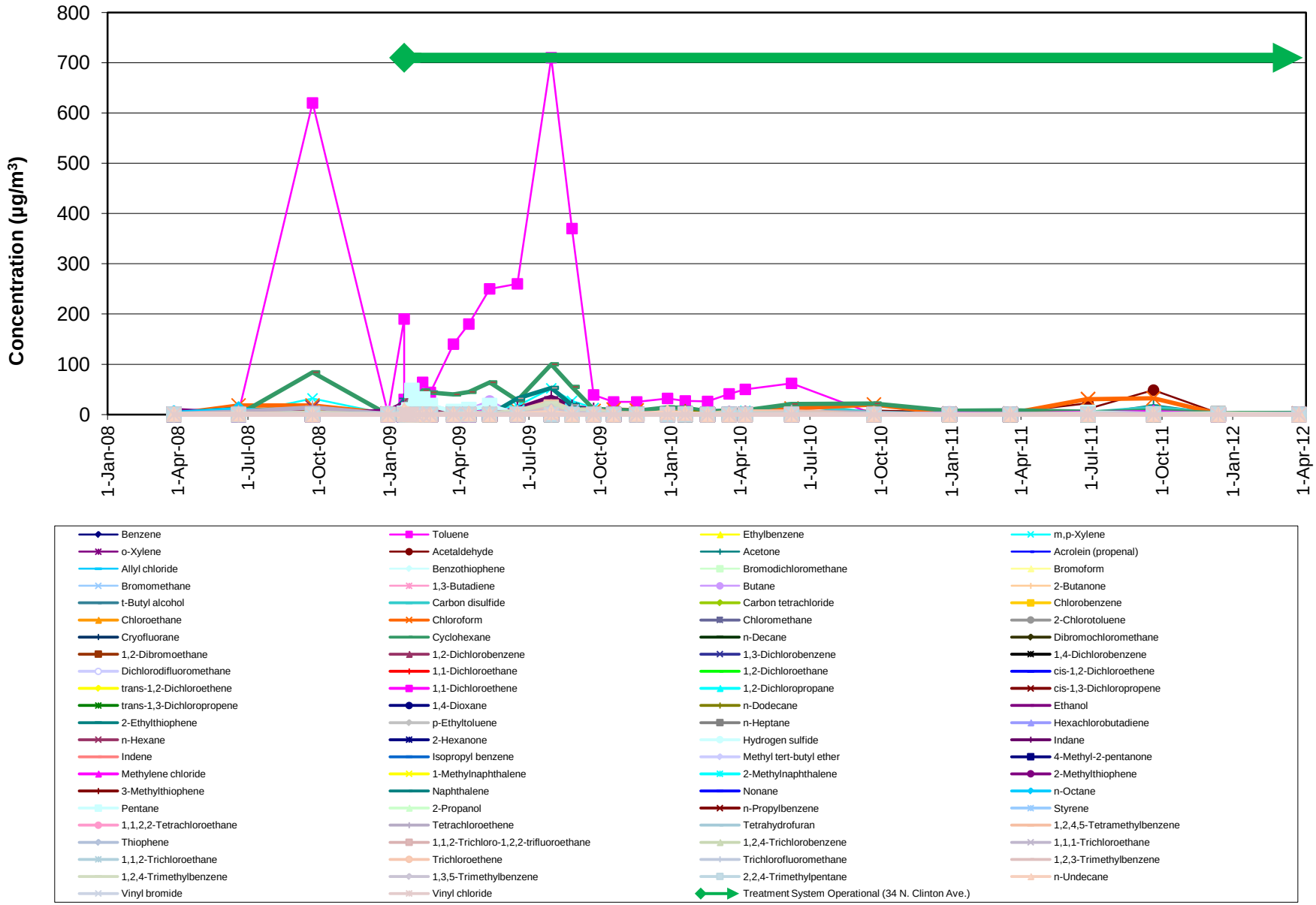
OU2SG-22



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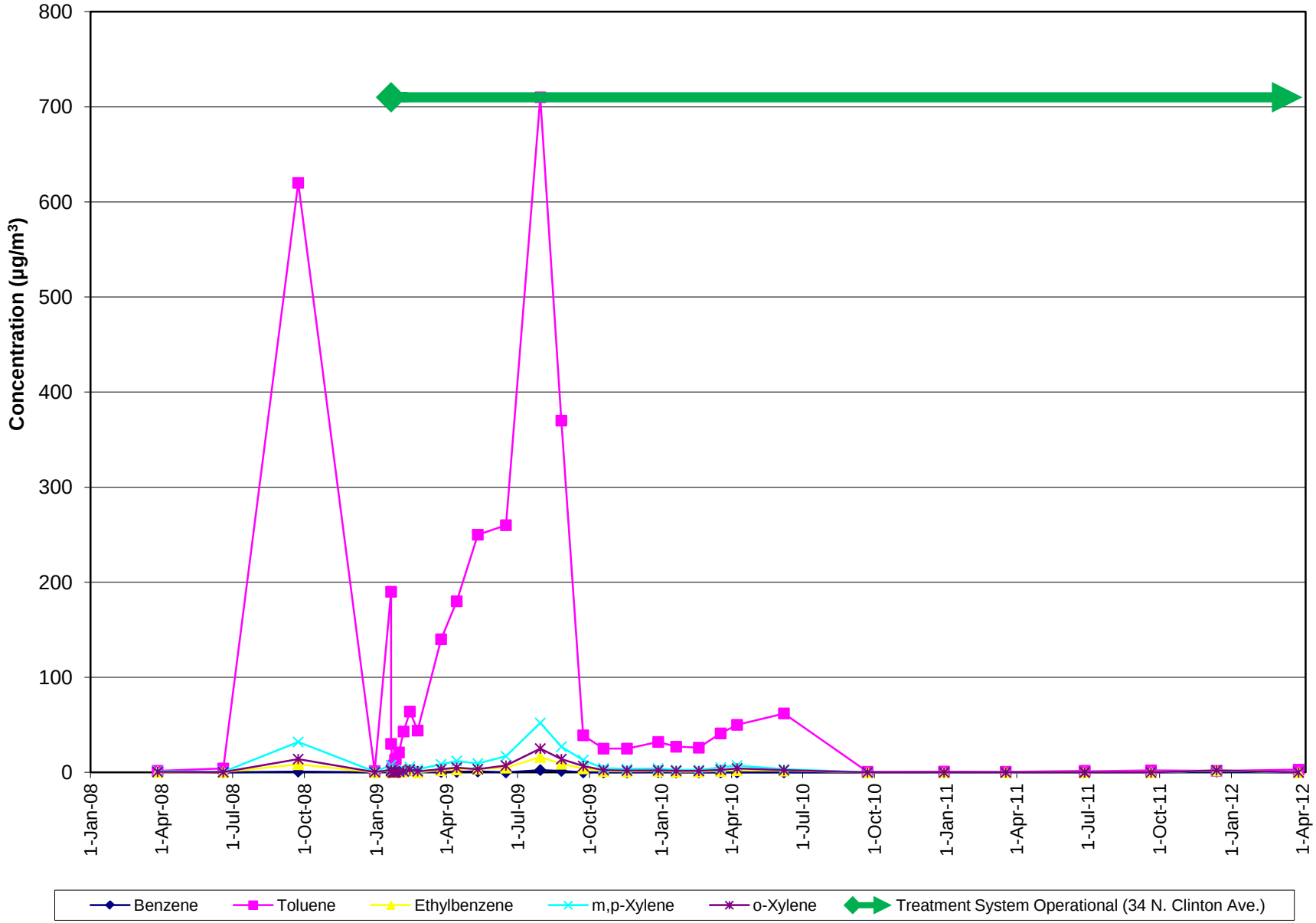

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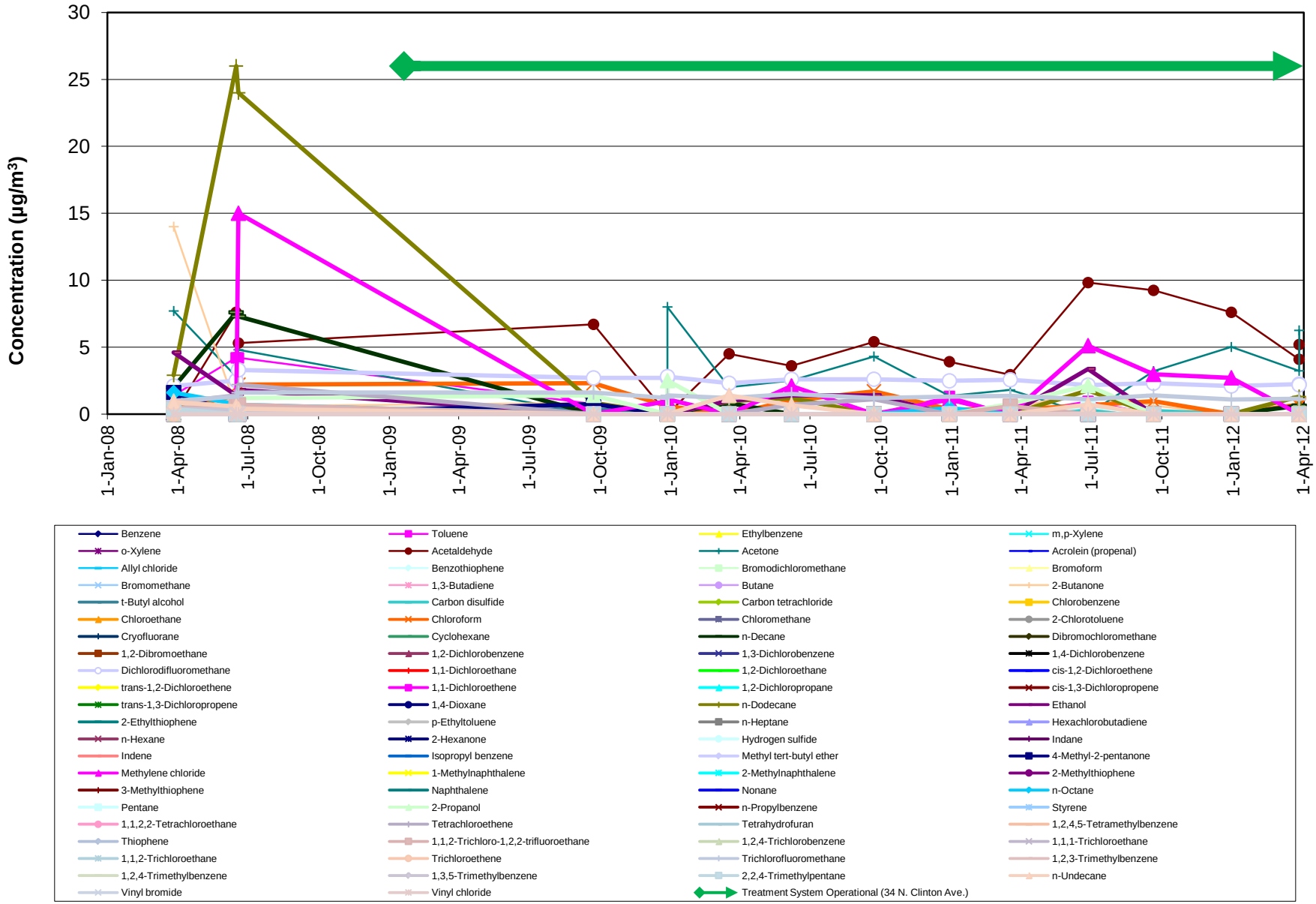
OU2SG-23



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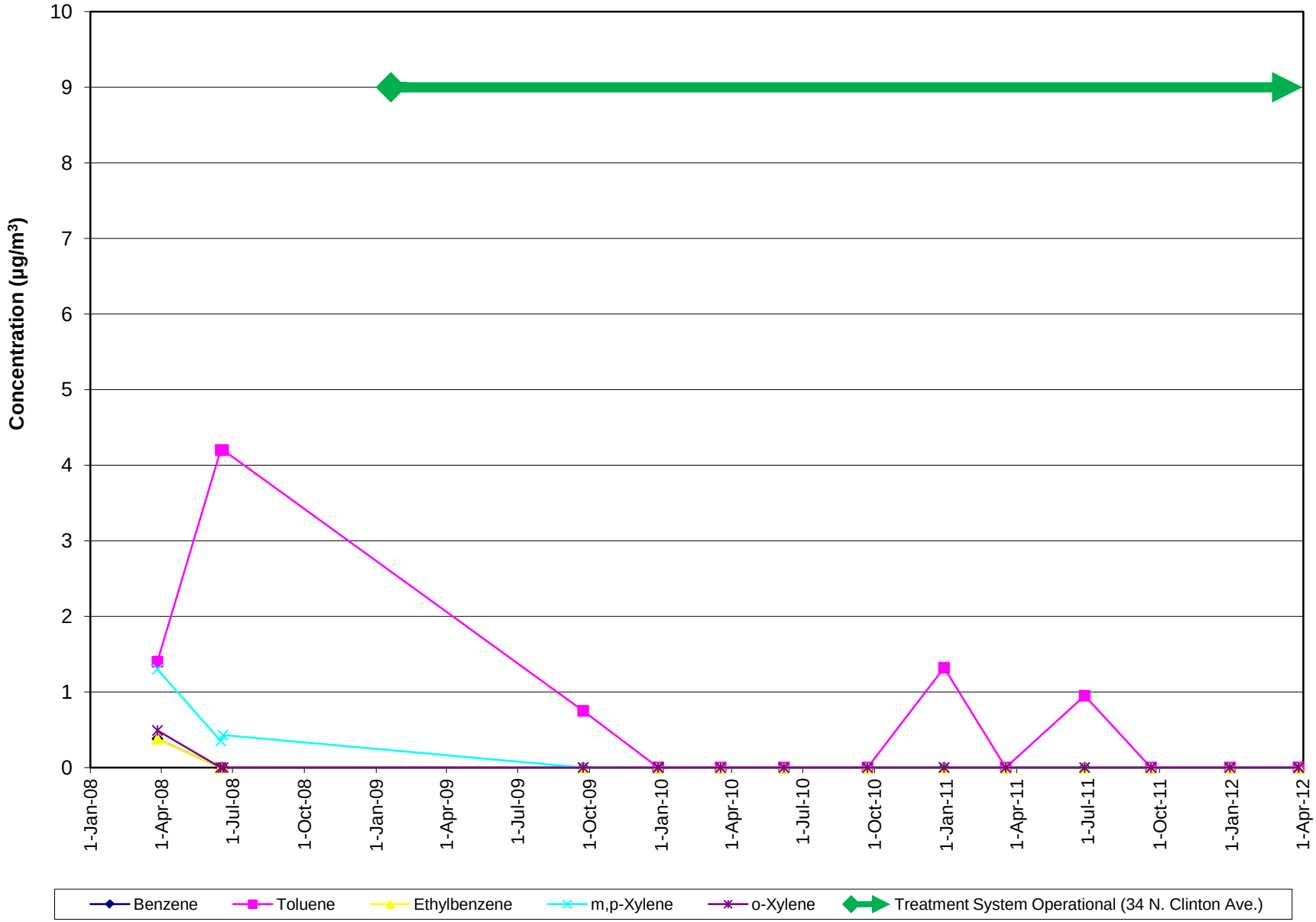
OU2SG-23 BTEX



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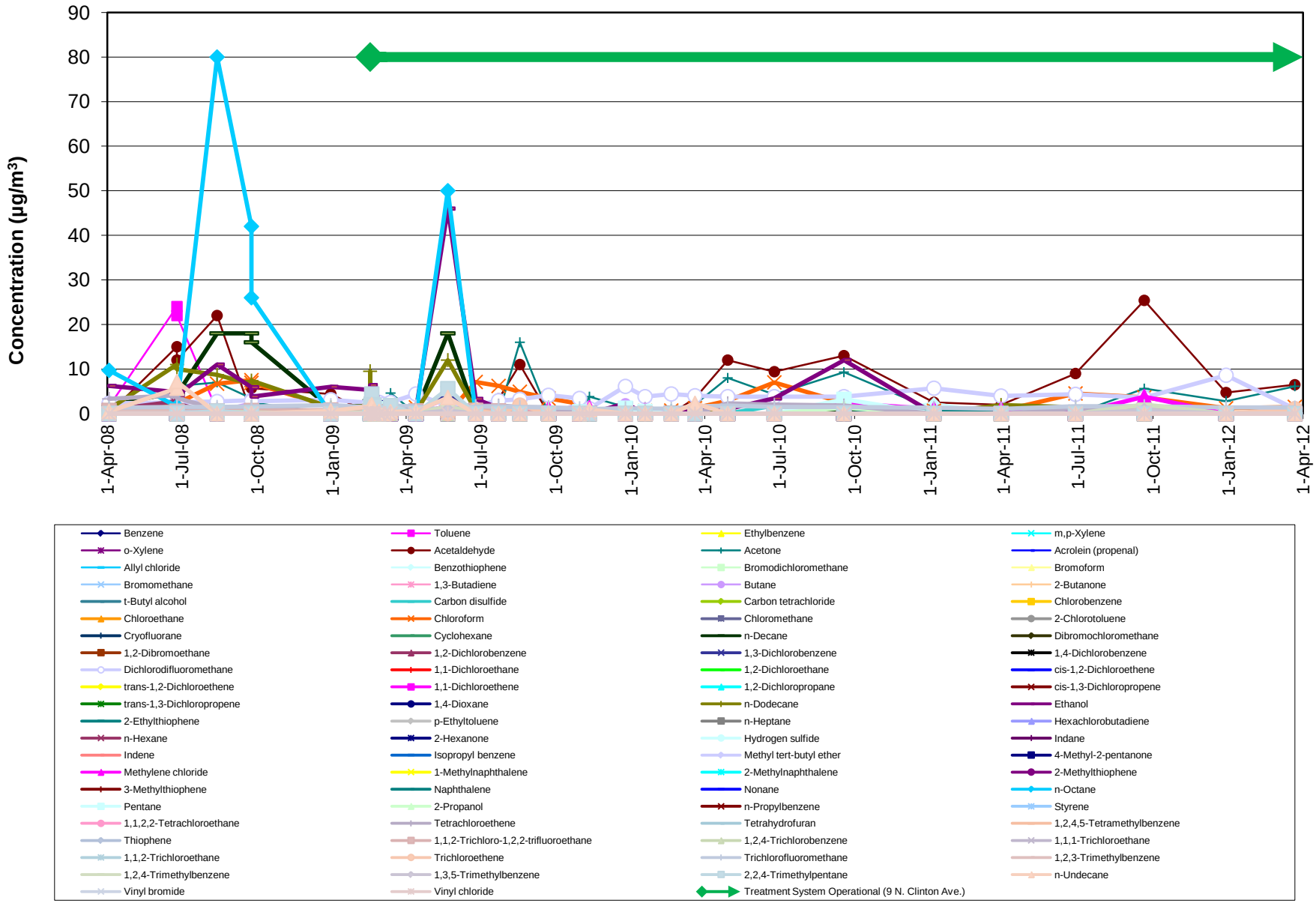

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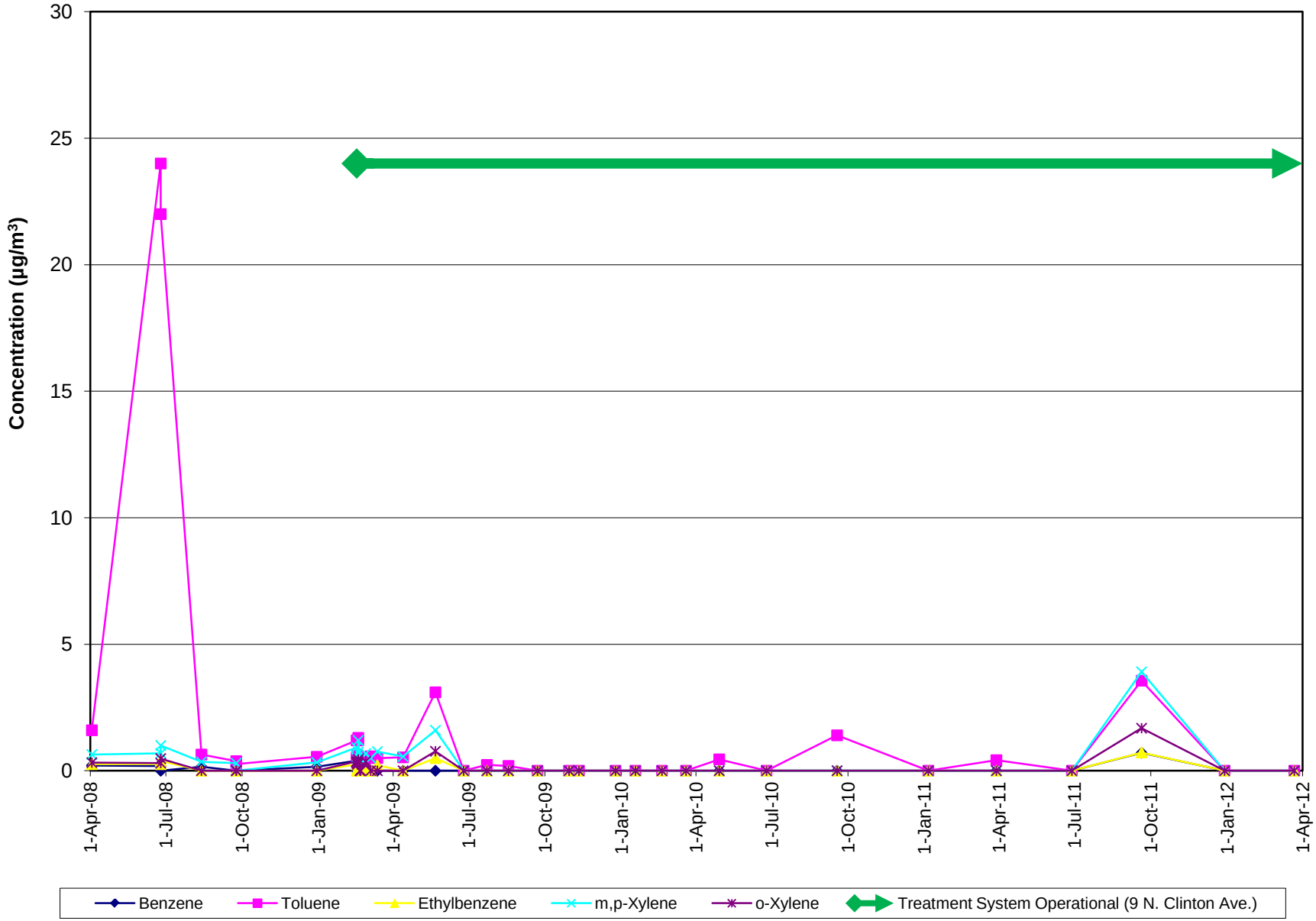

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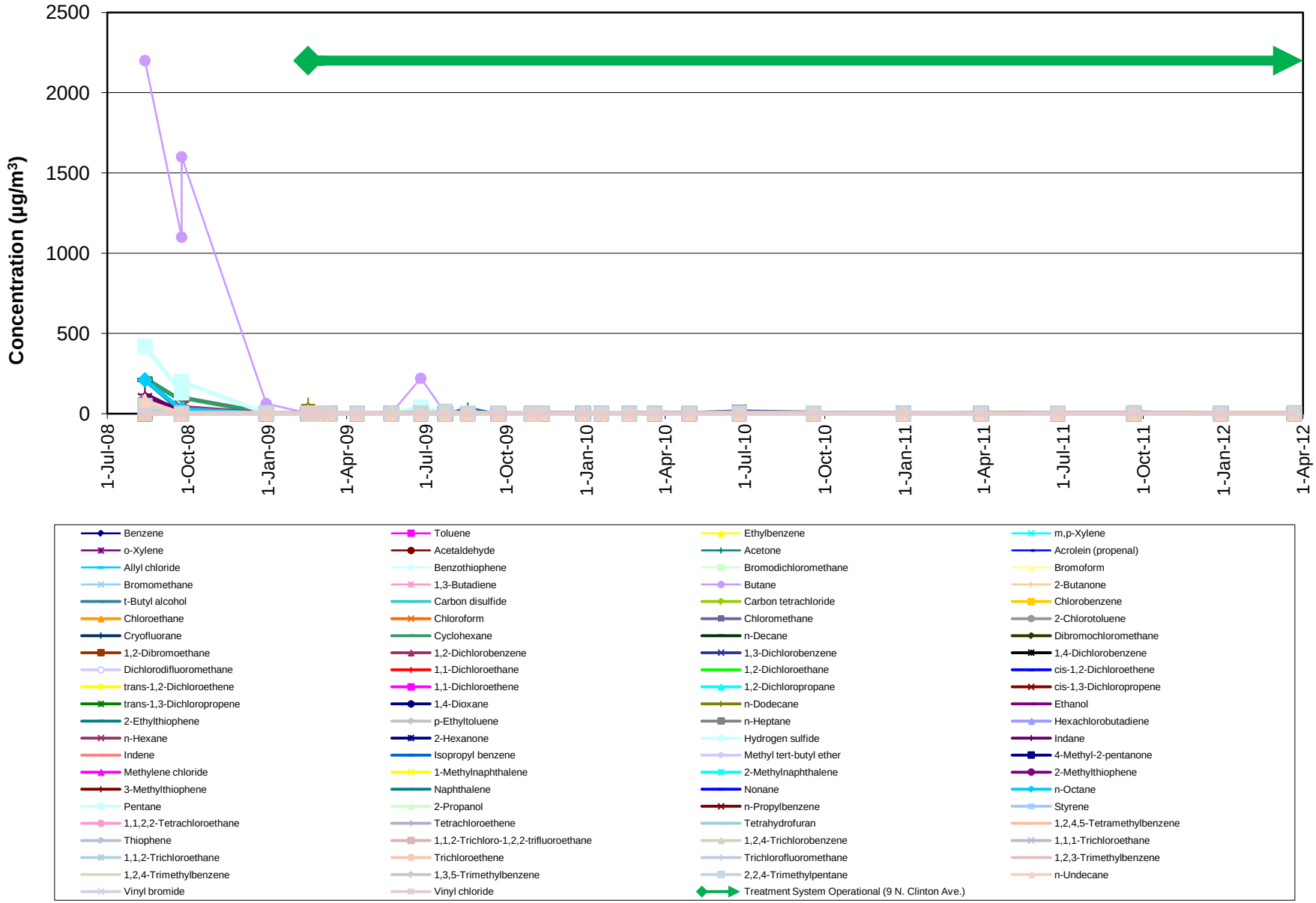

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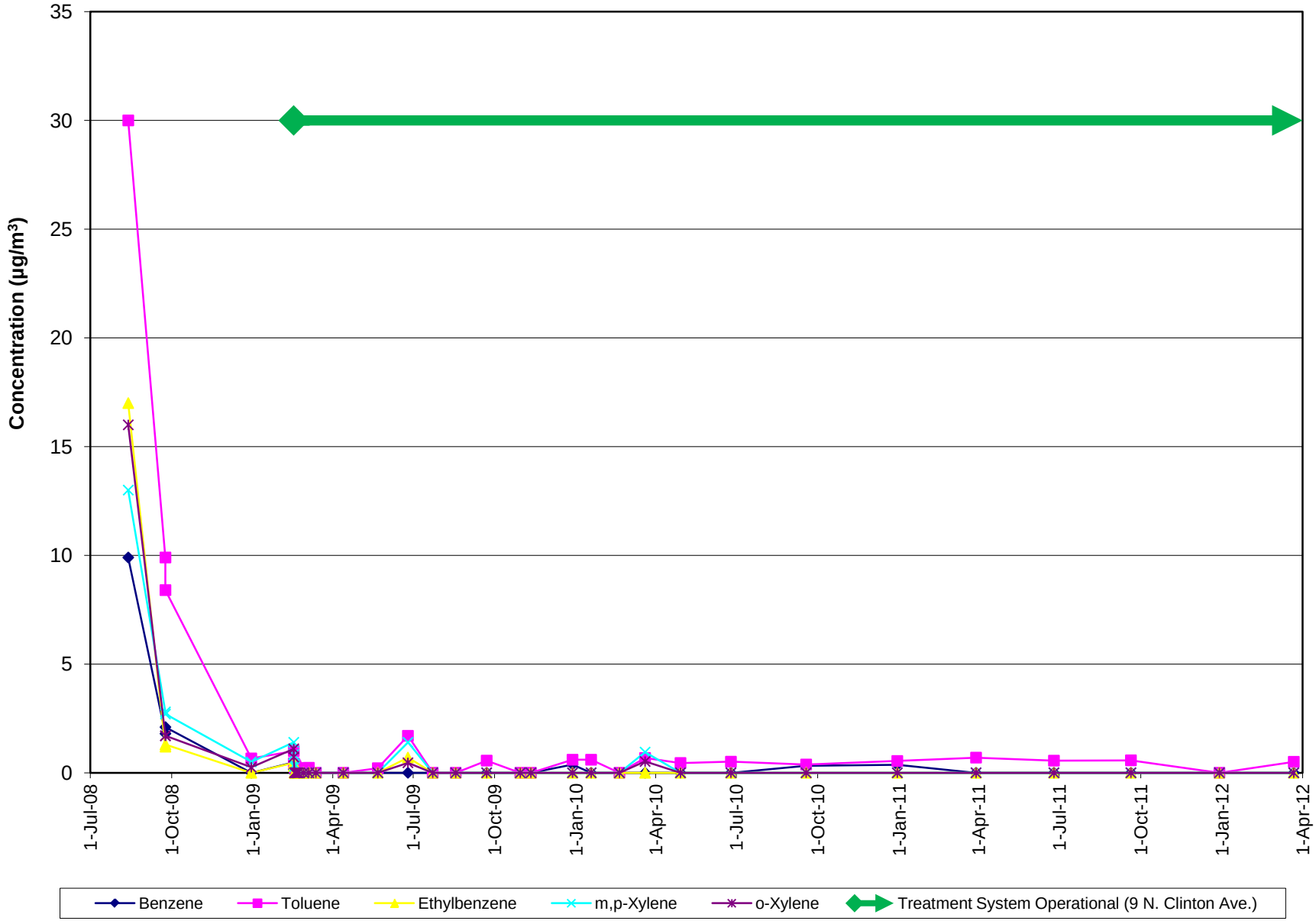

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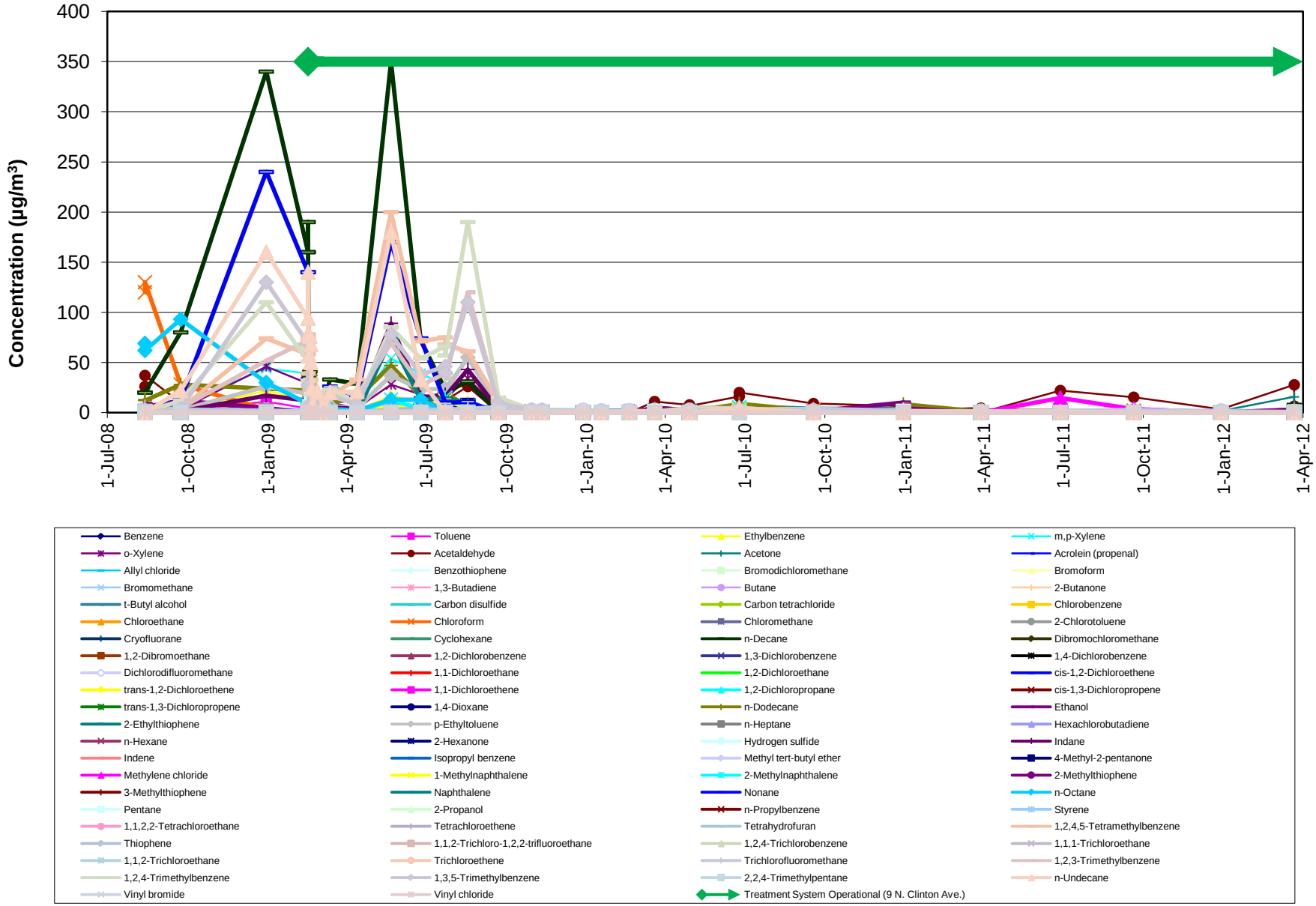

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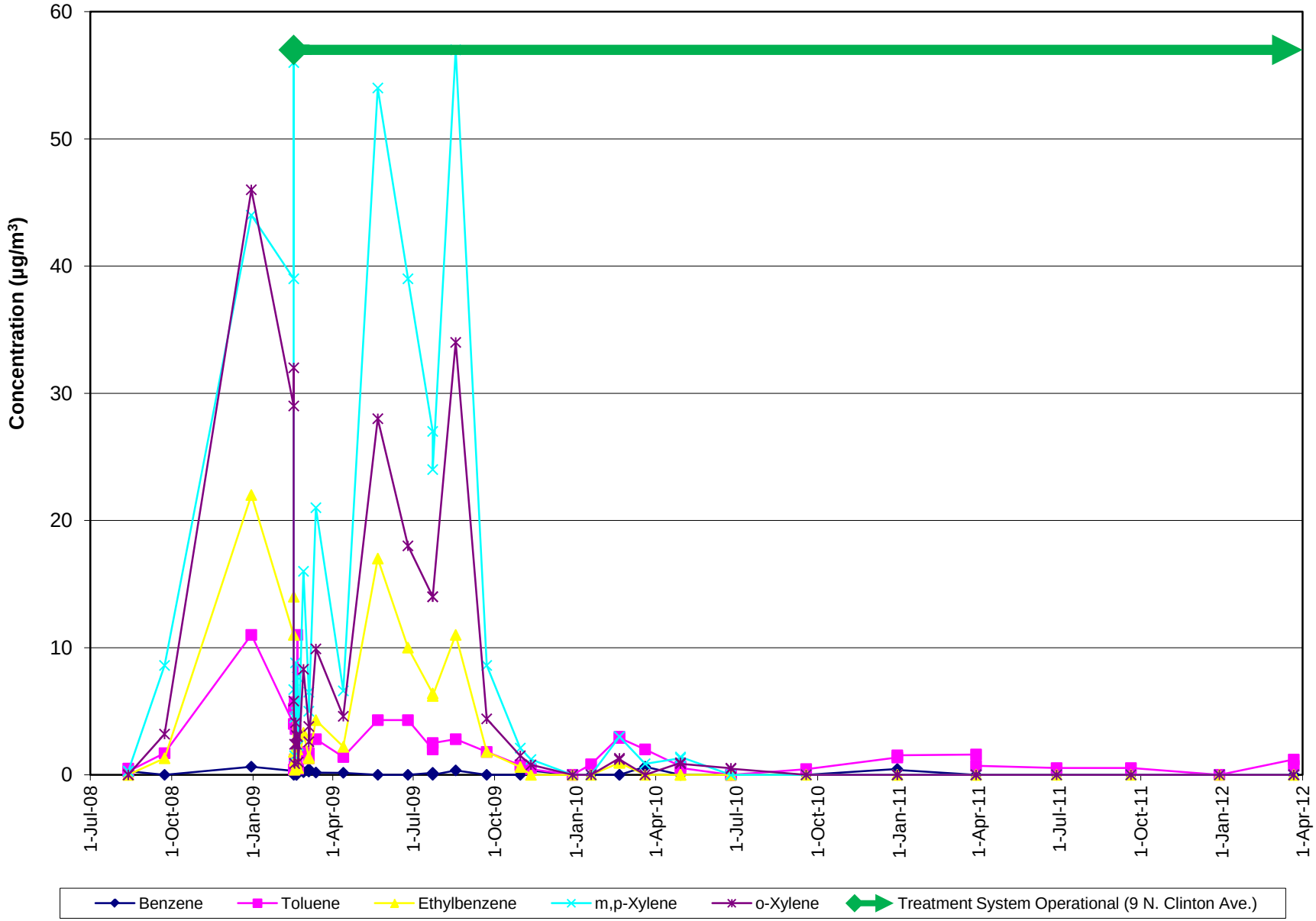

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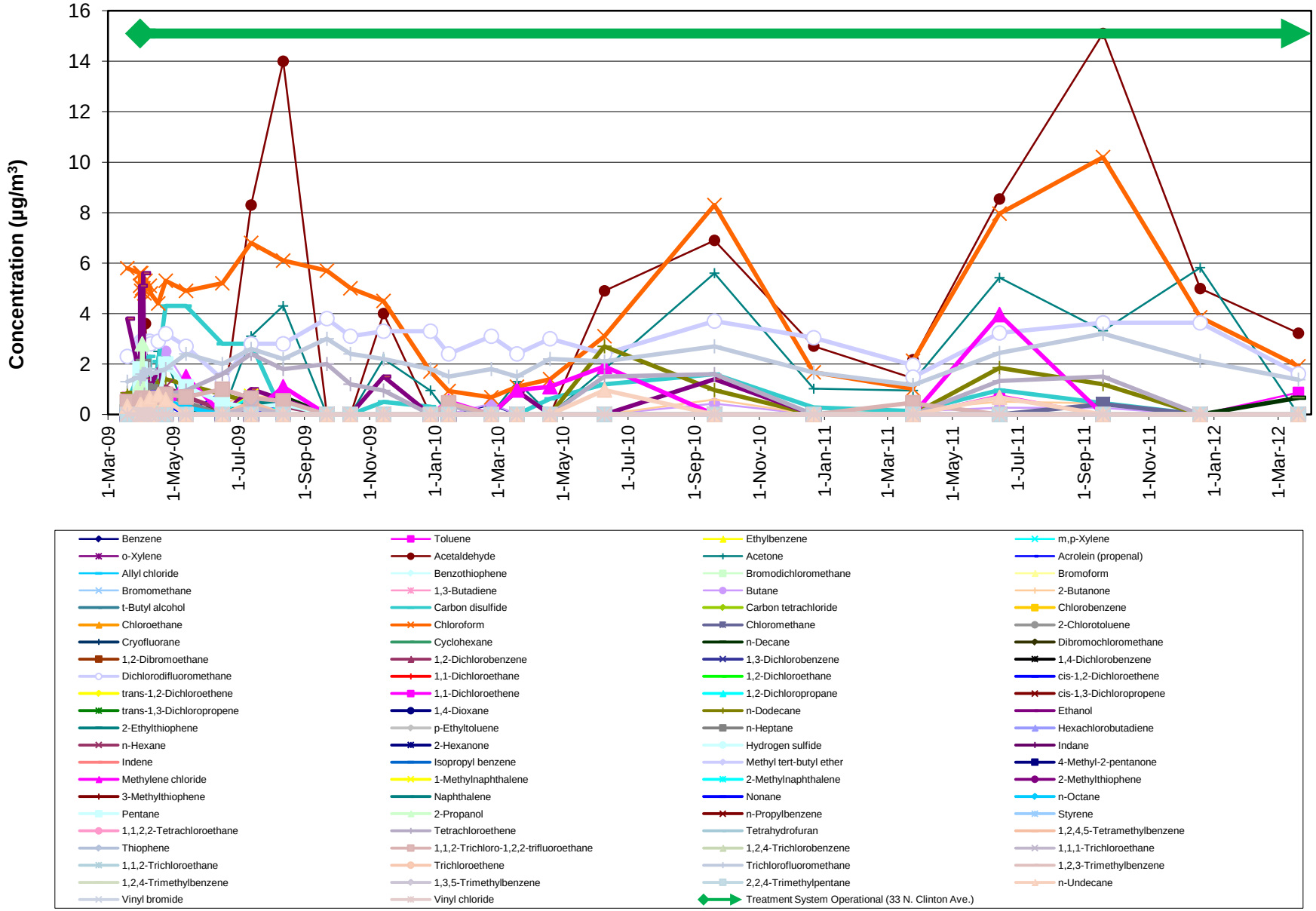
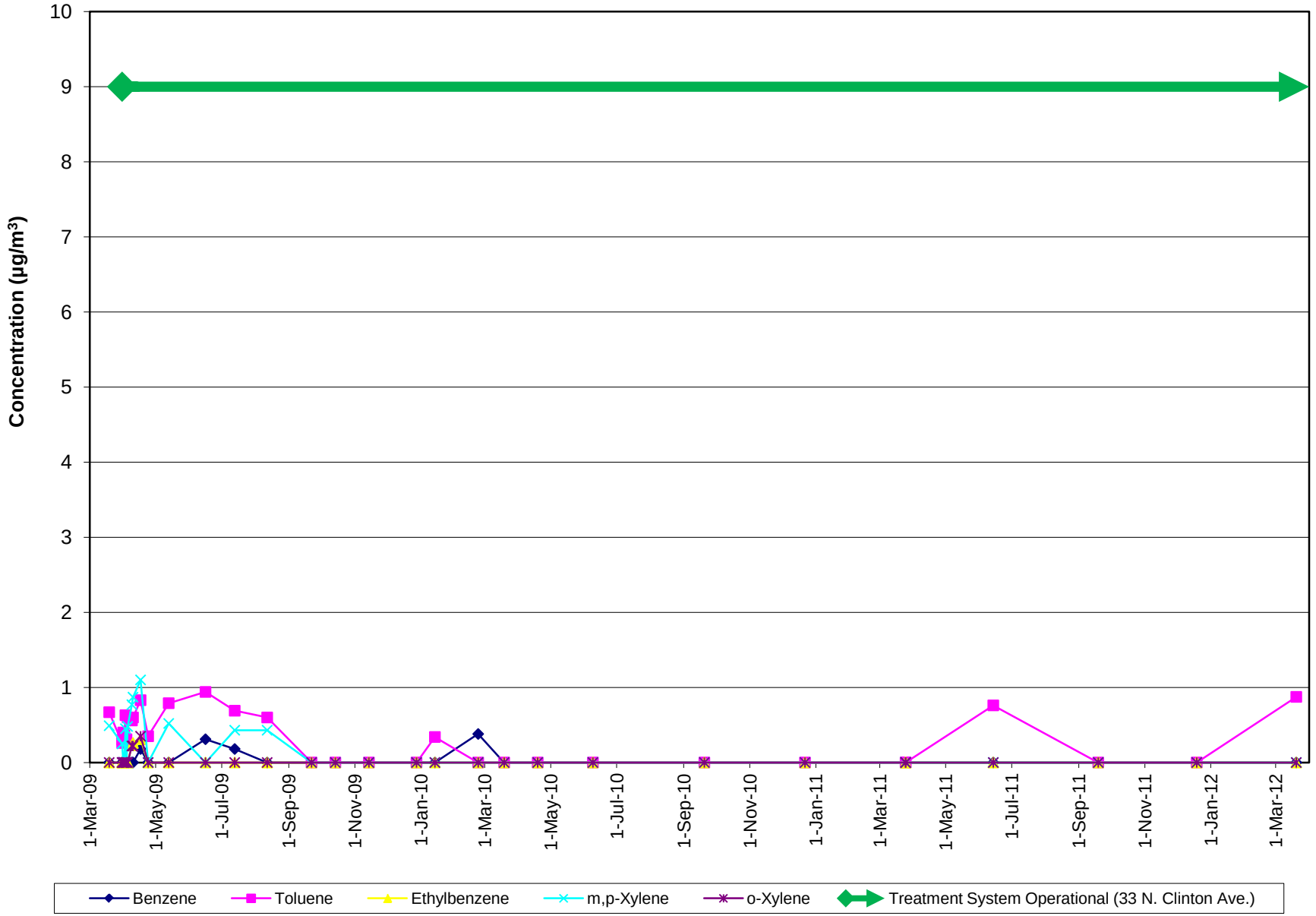
OU2SG-28



OU2SG-28 BTEX



Appendix I
Soil Vapor Analytical Results
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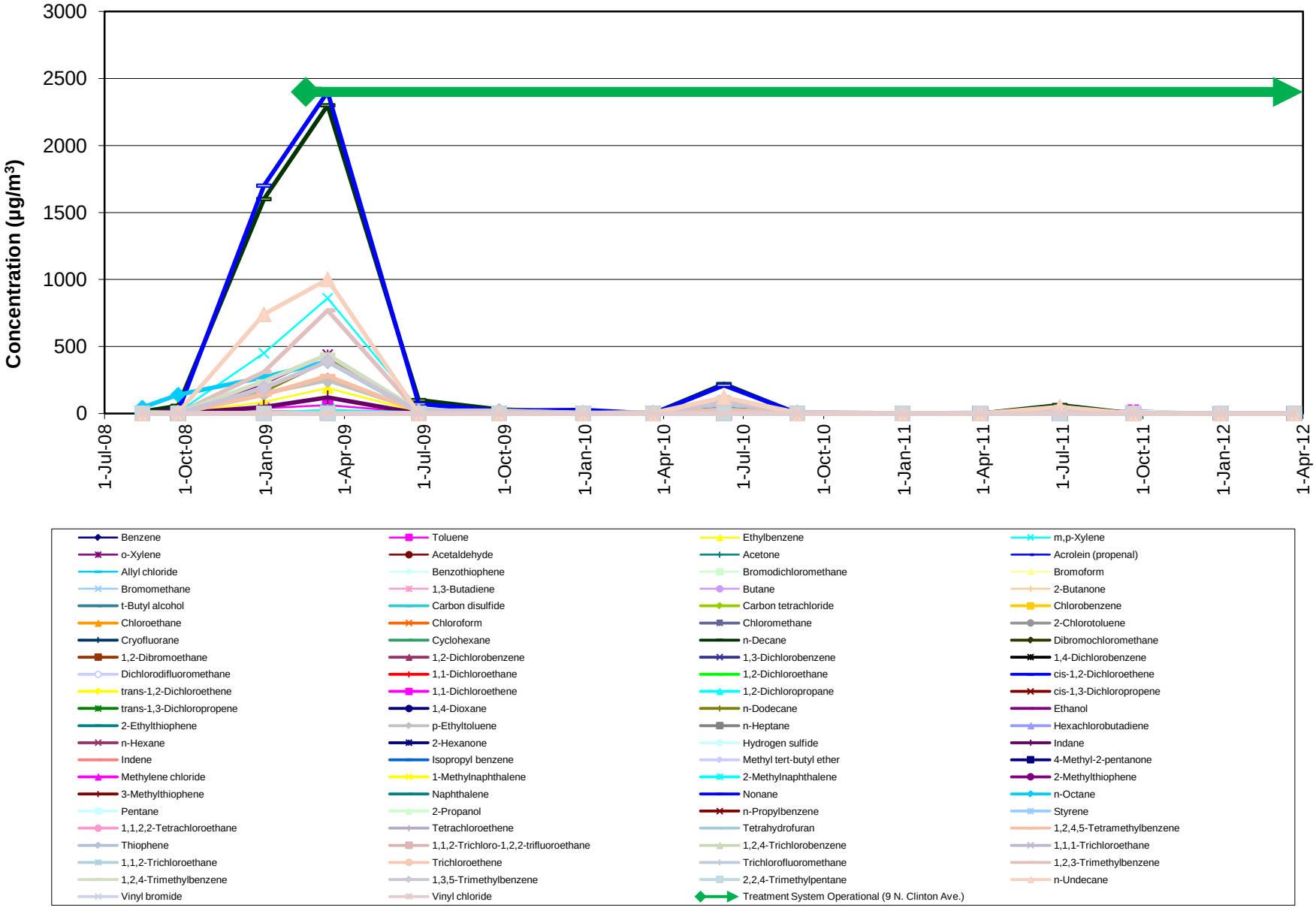
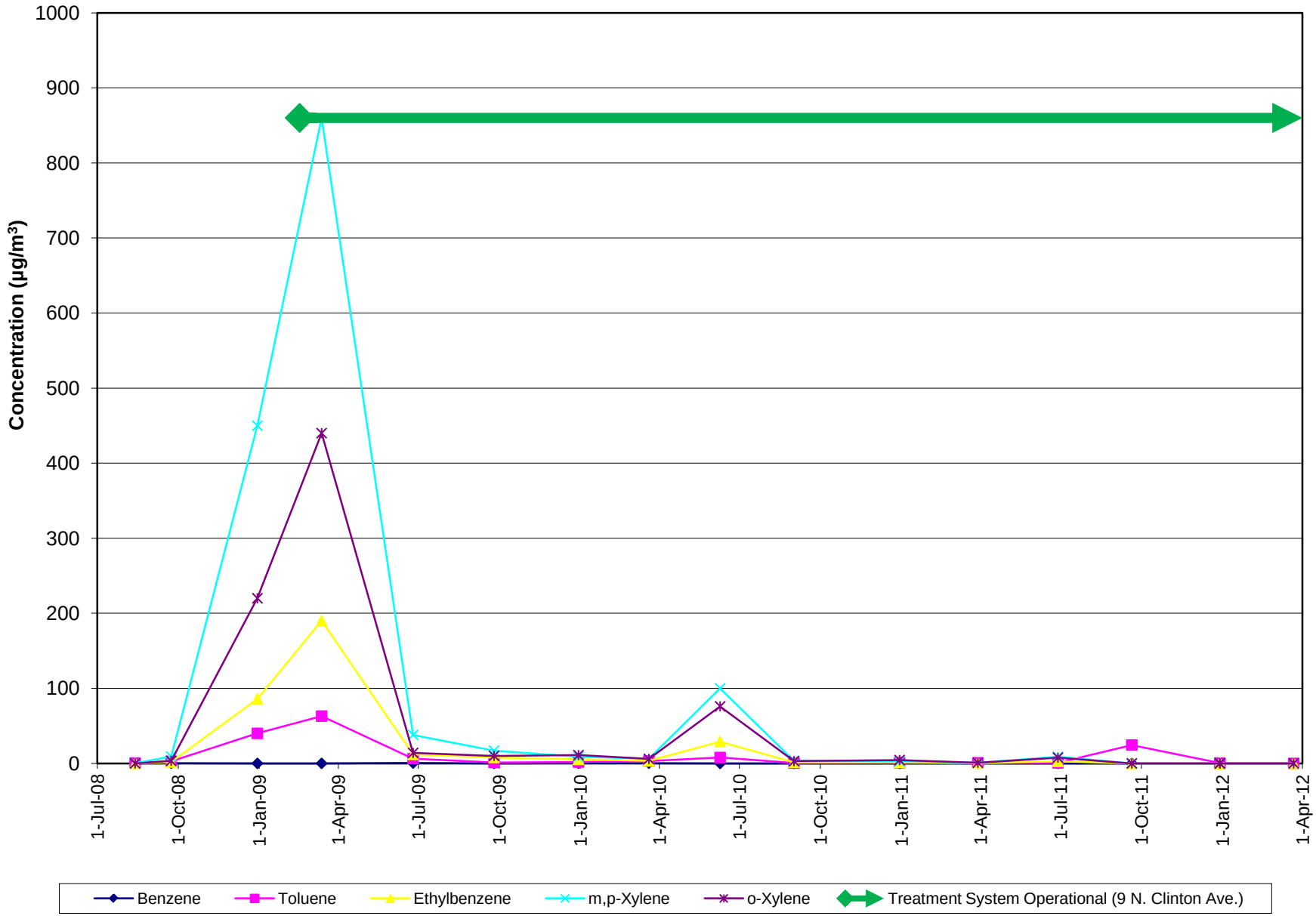
OU2SG-29



OU2SG-29 BTEX



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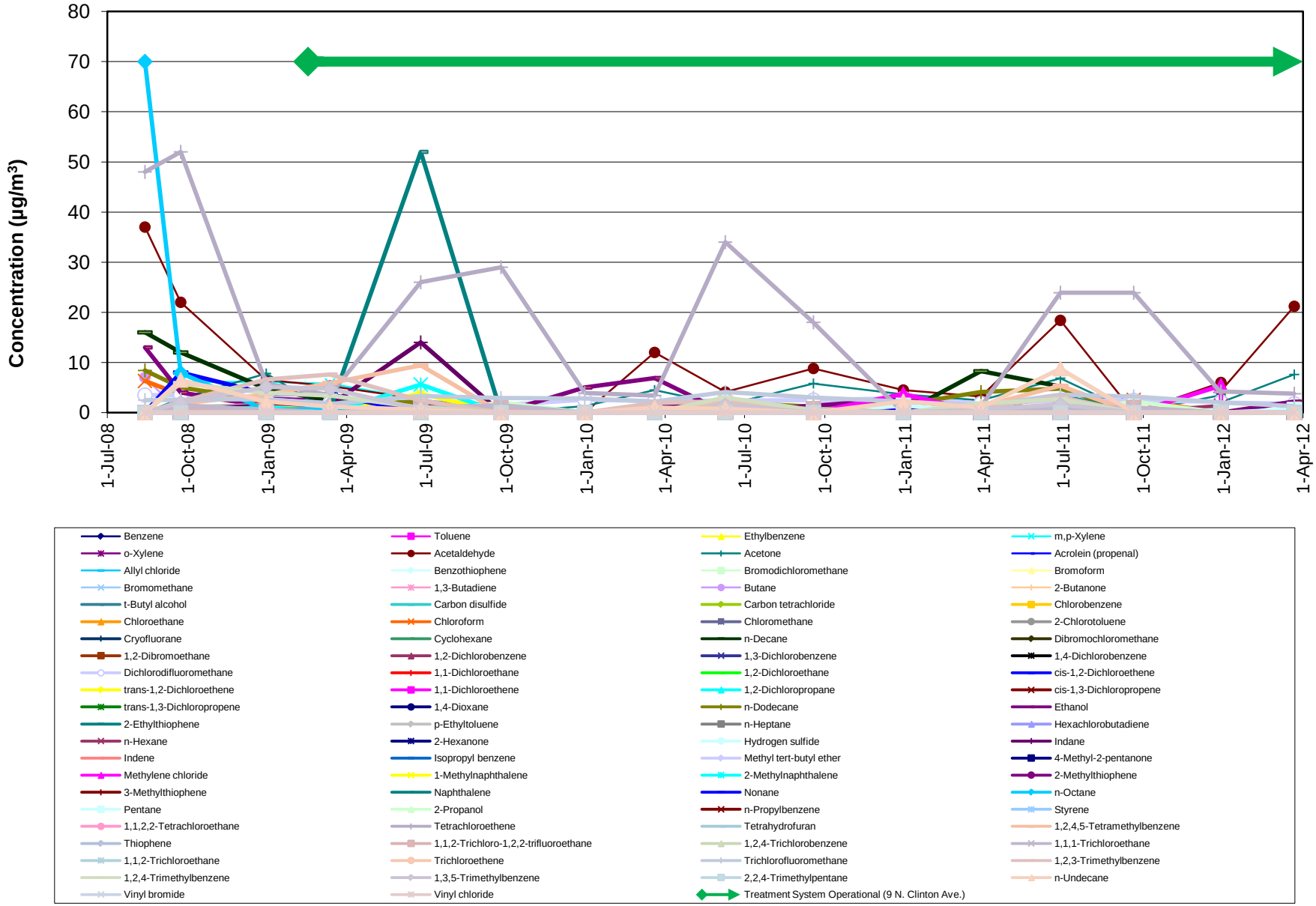
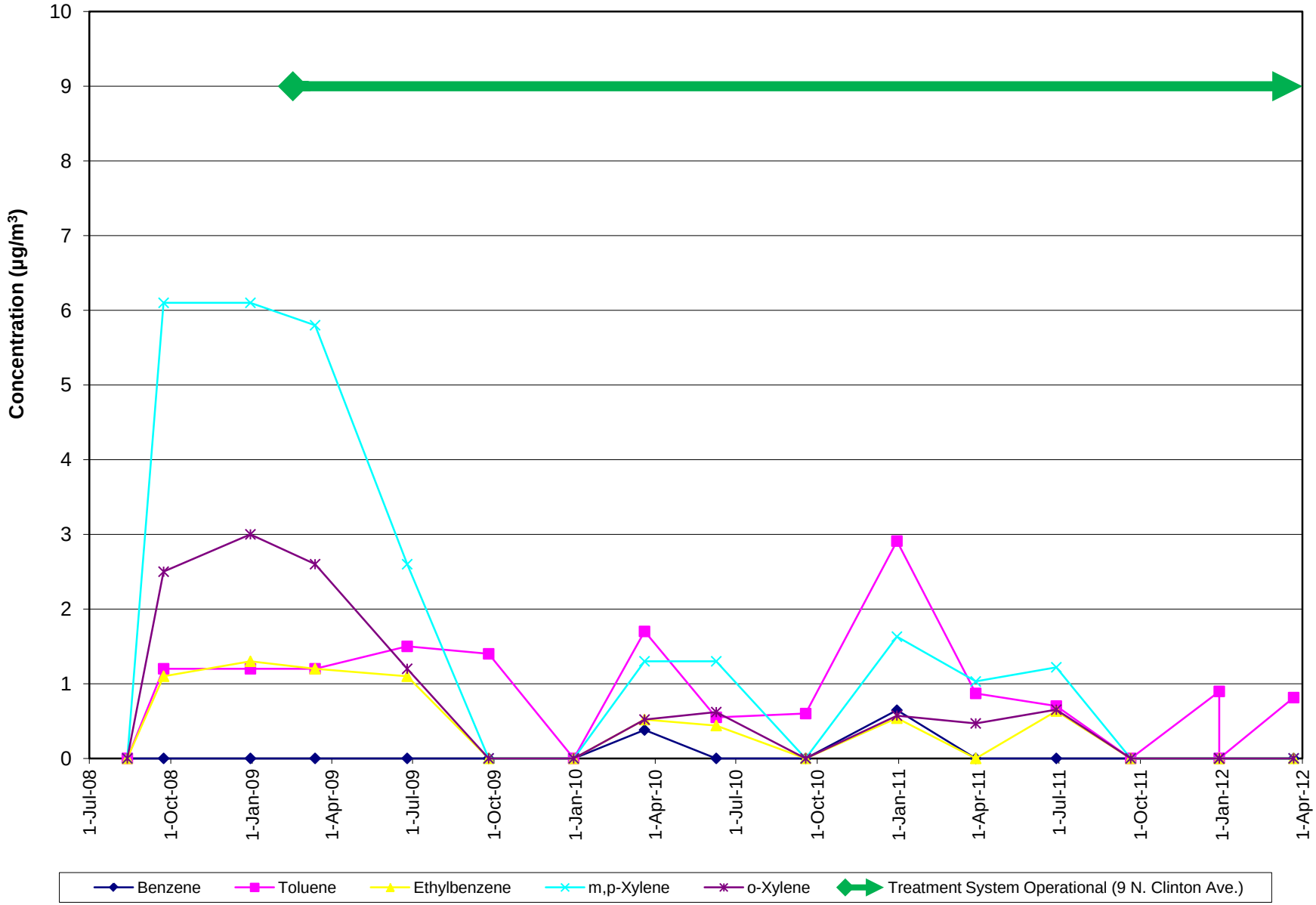
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

OU2SG-30



OU2SG-30 BTEX



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Soil Vapor Analytical Results
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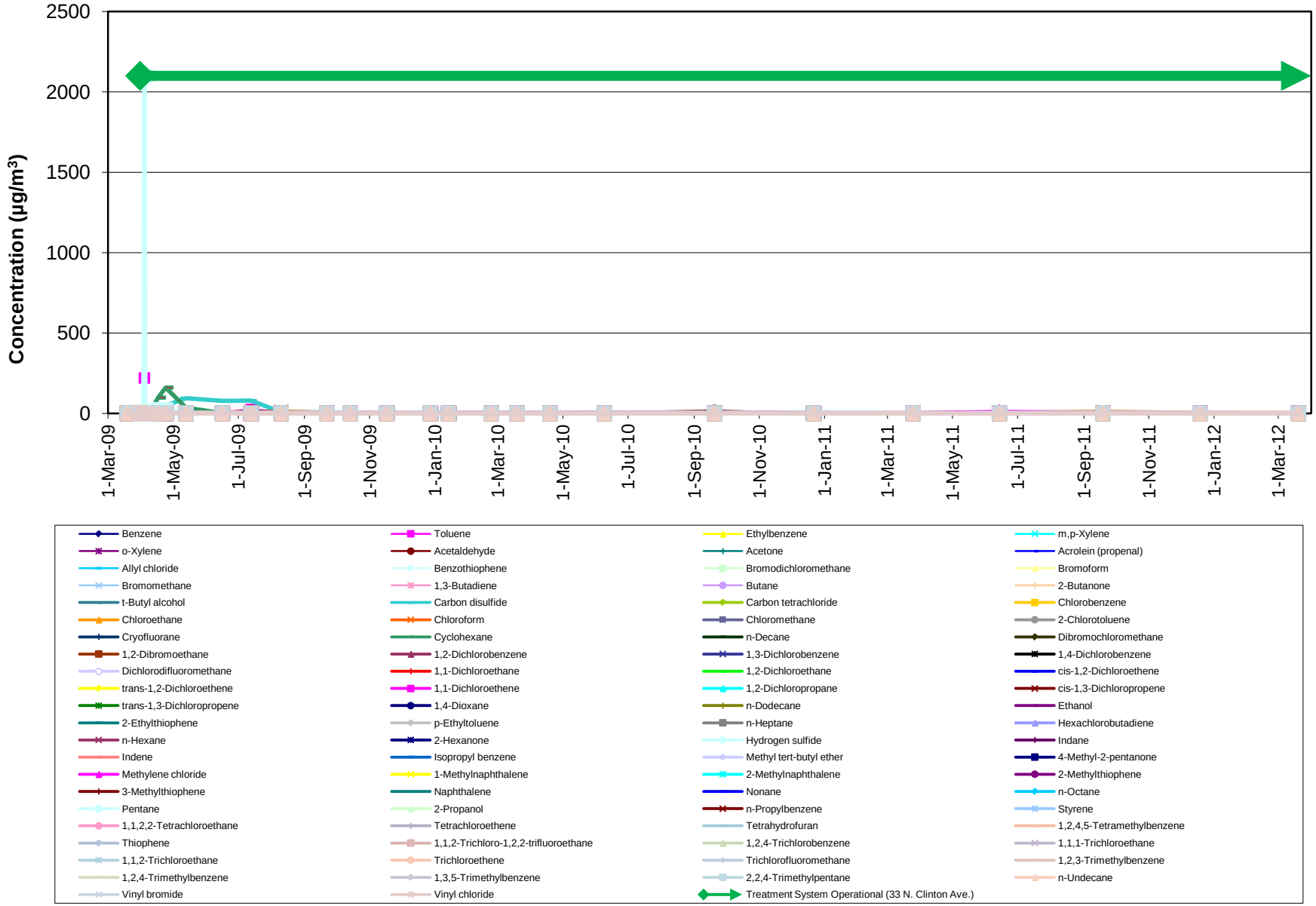
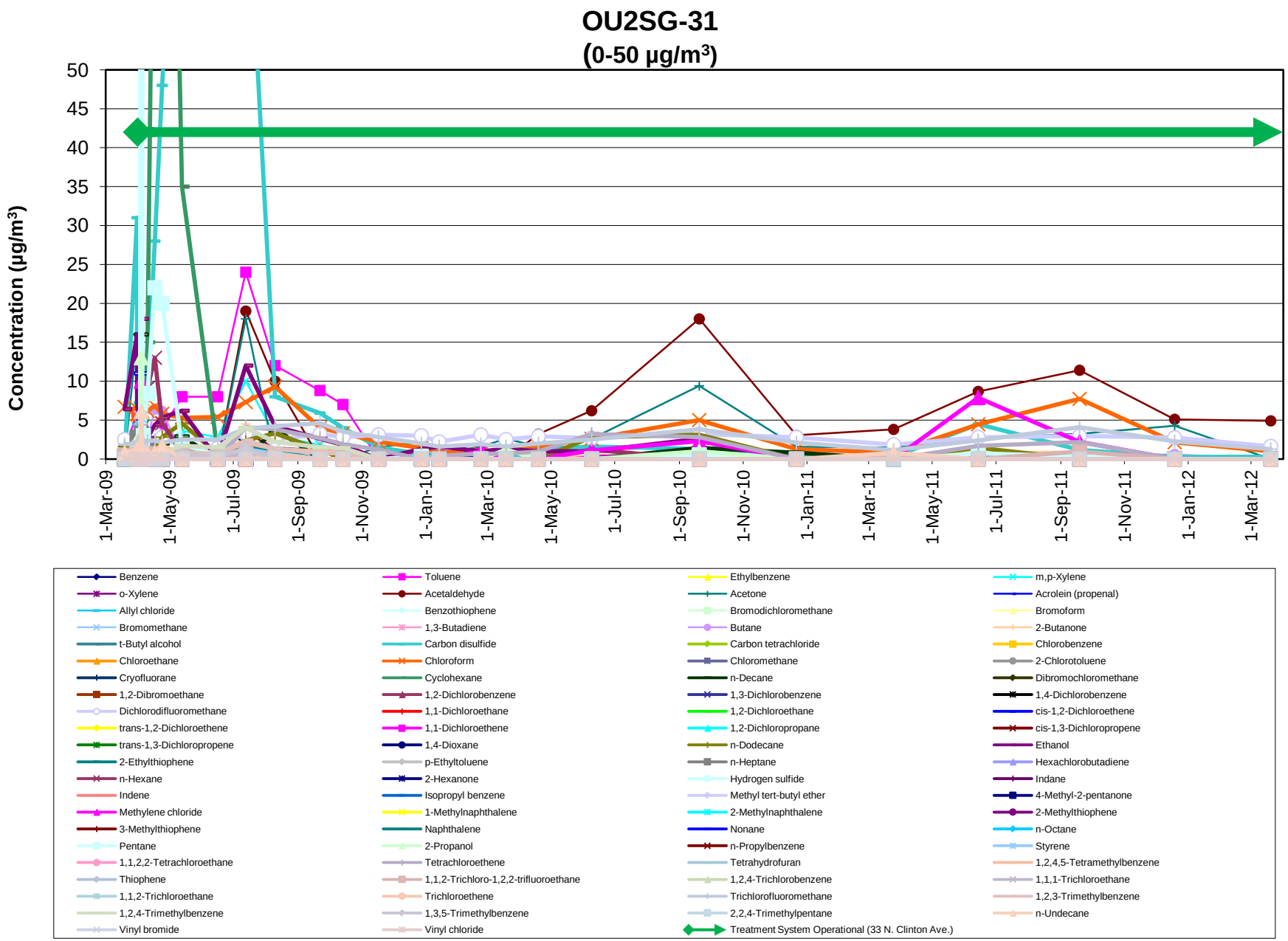
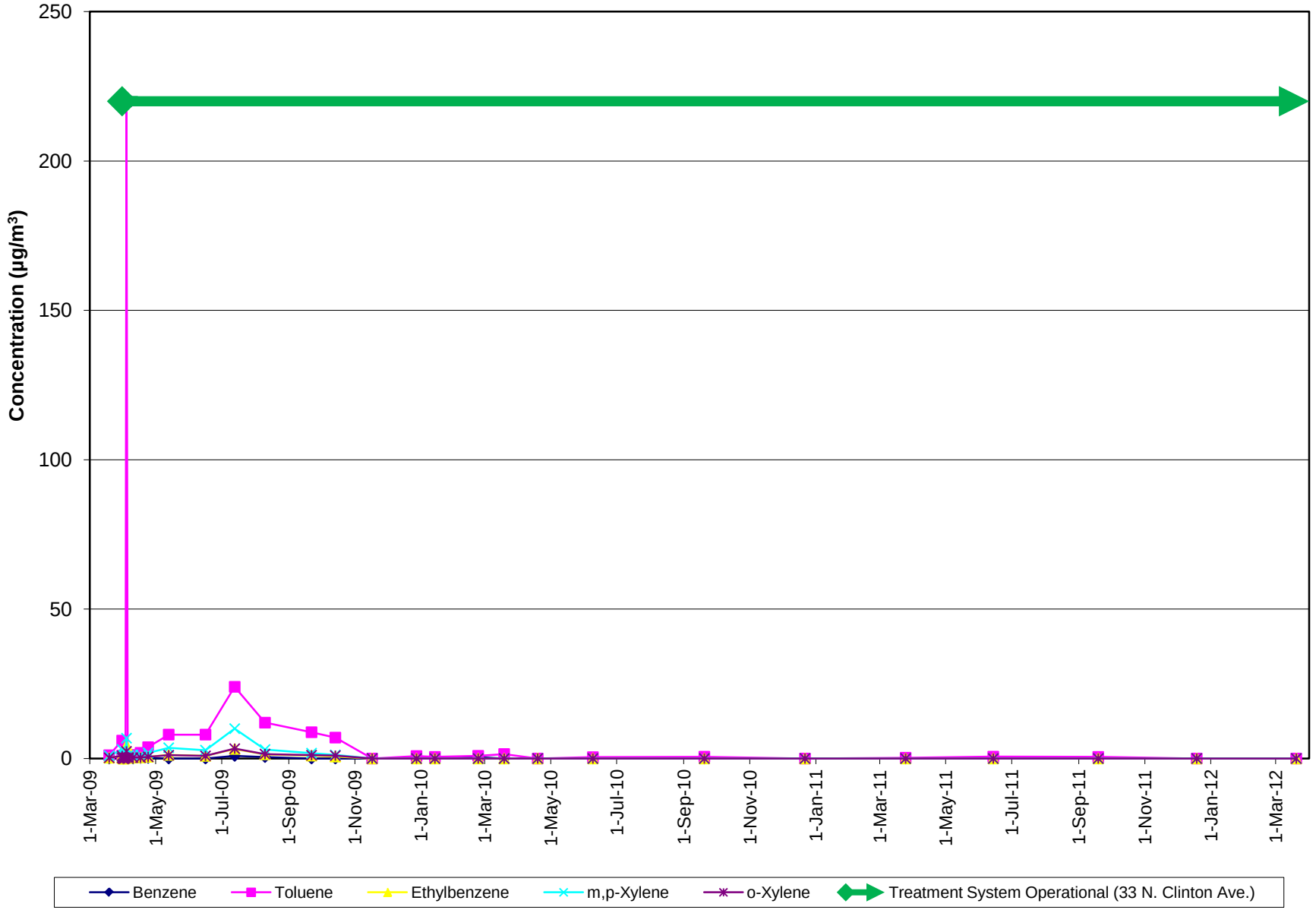
OU2SG-31

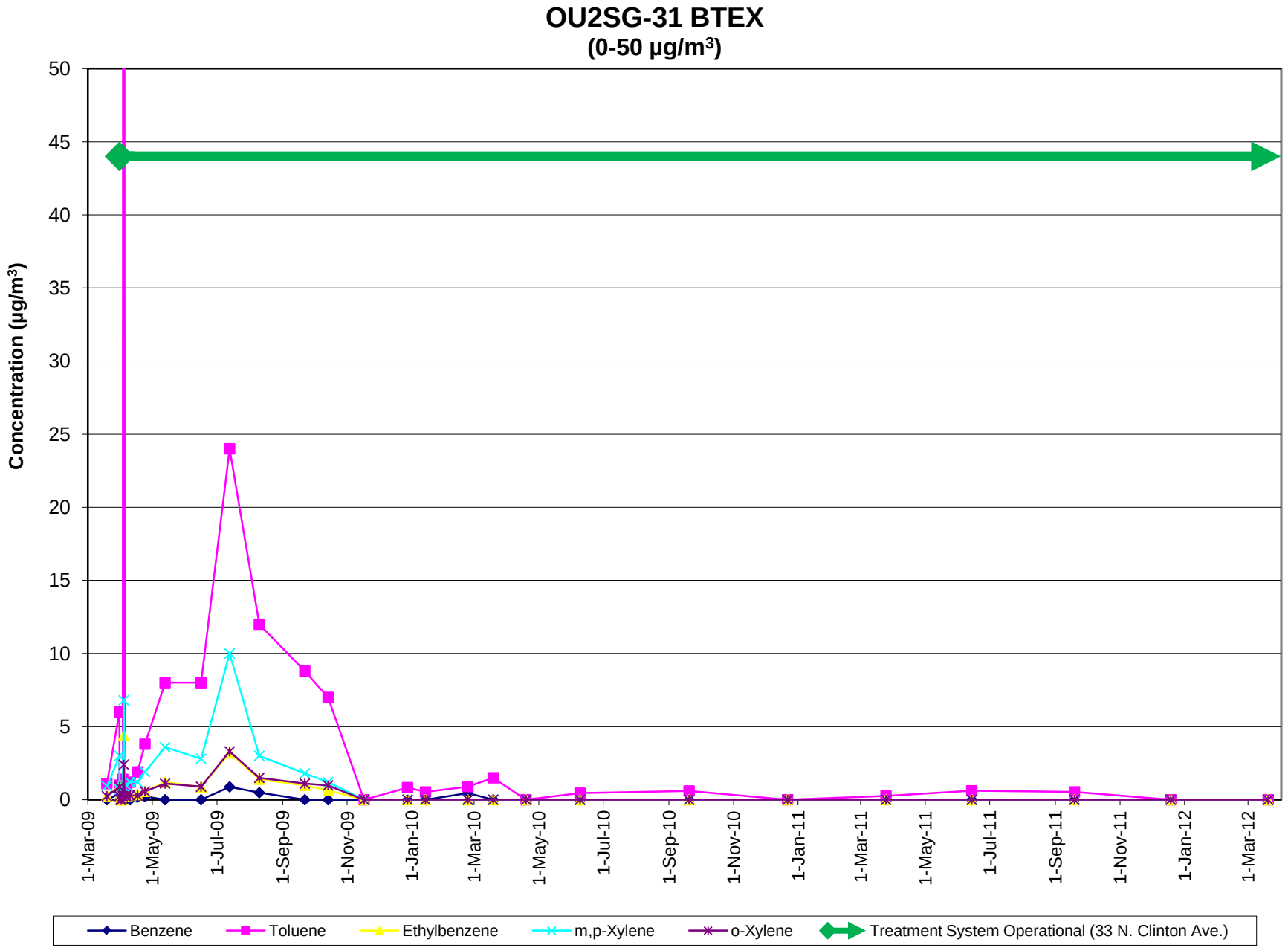


Appendix I
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program



OU2SG-31 BTEX




OU2SG-31 BTEX
(0-50 µg/m³)
Concentration (µg/m³)
50
45
40
35
30
25
20
15
10
5
0
1-Mar-09
1-May-09
1-Jul-09
1-Sep-09
1-Nov-09
1-Jan-10
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Treatment System Operational (33 N. Clinton Ave.)

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Soil Vapor Analytical Results
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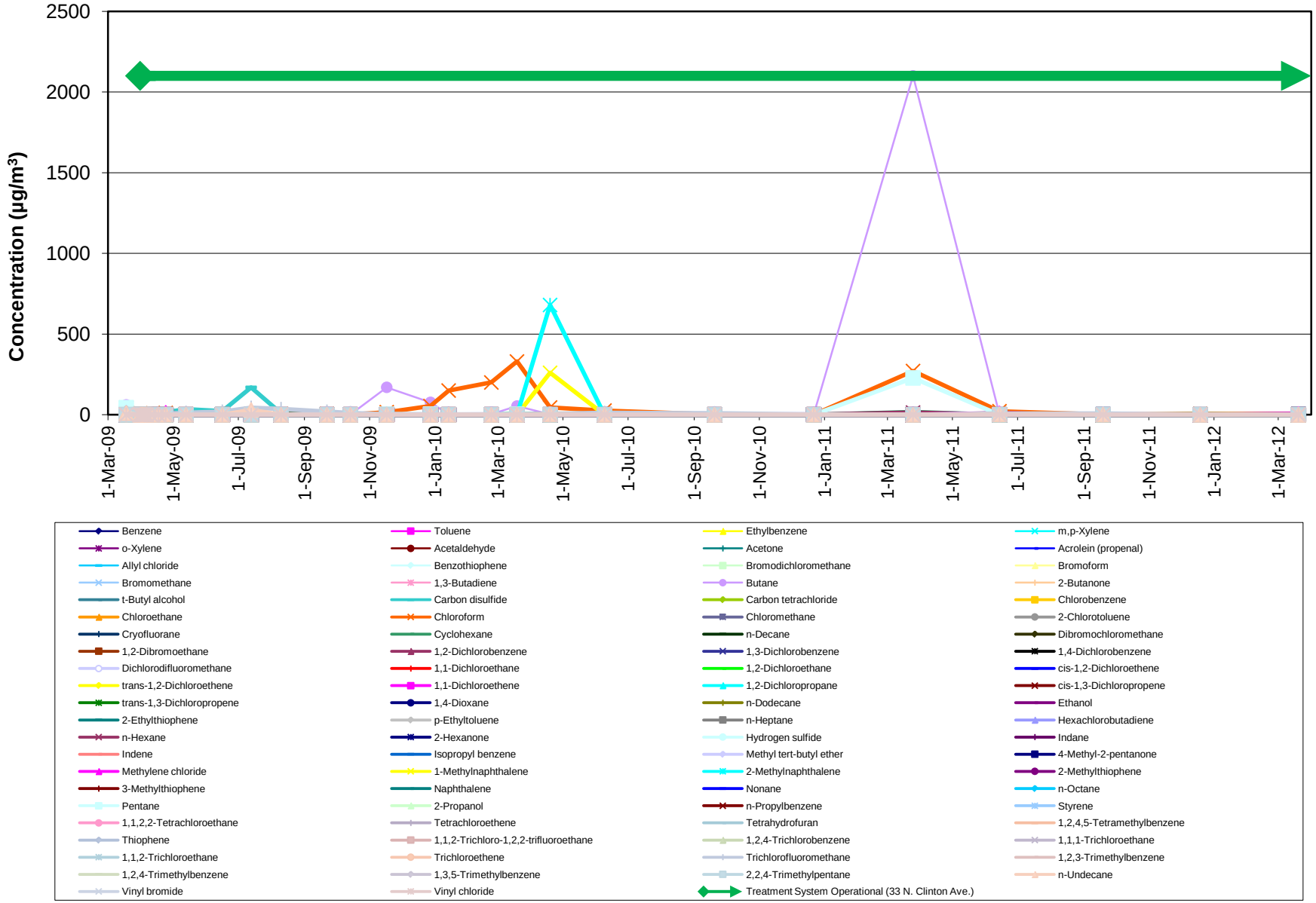
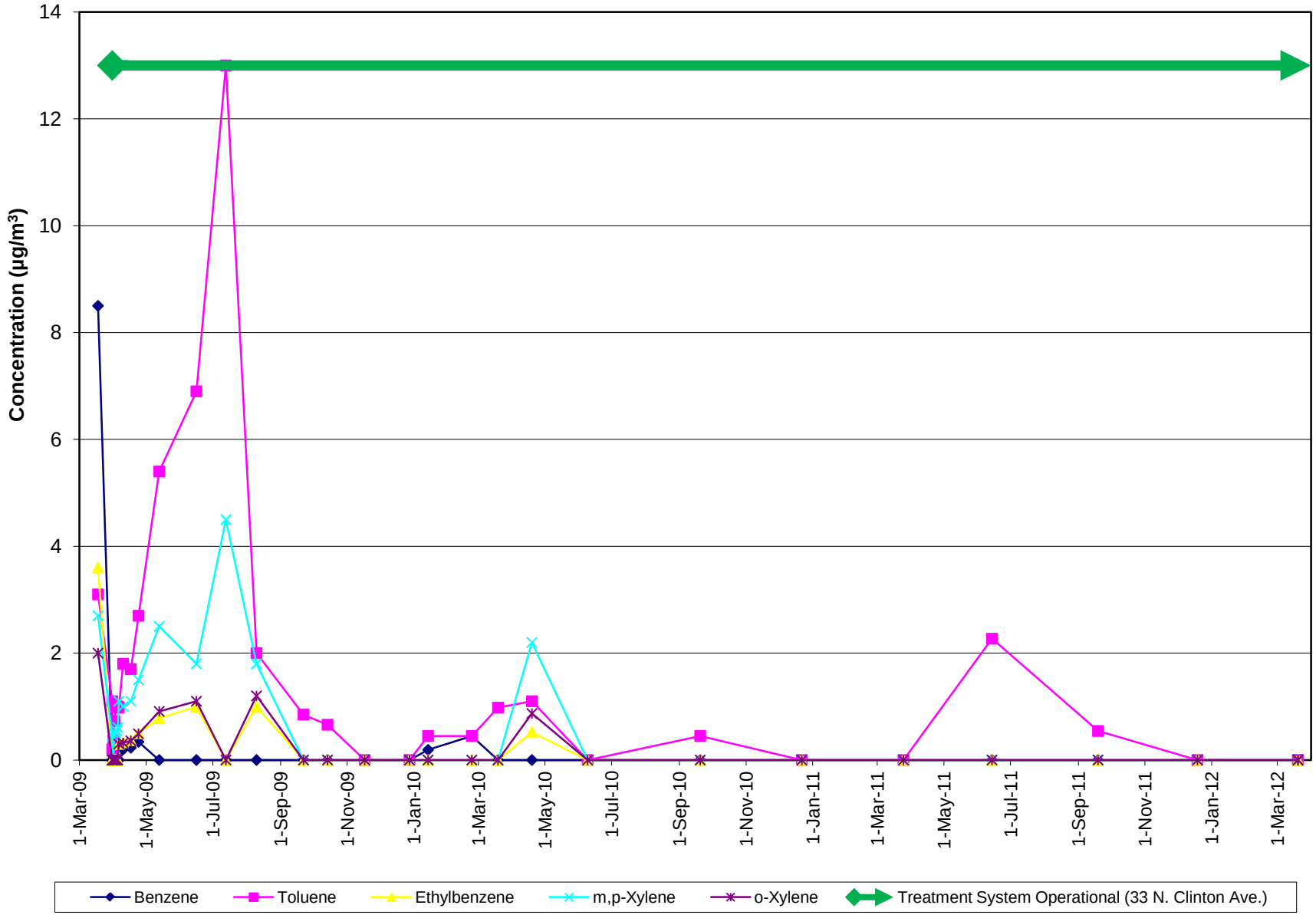
OU2SG-32



OU2SG-32 BTEX



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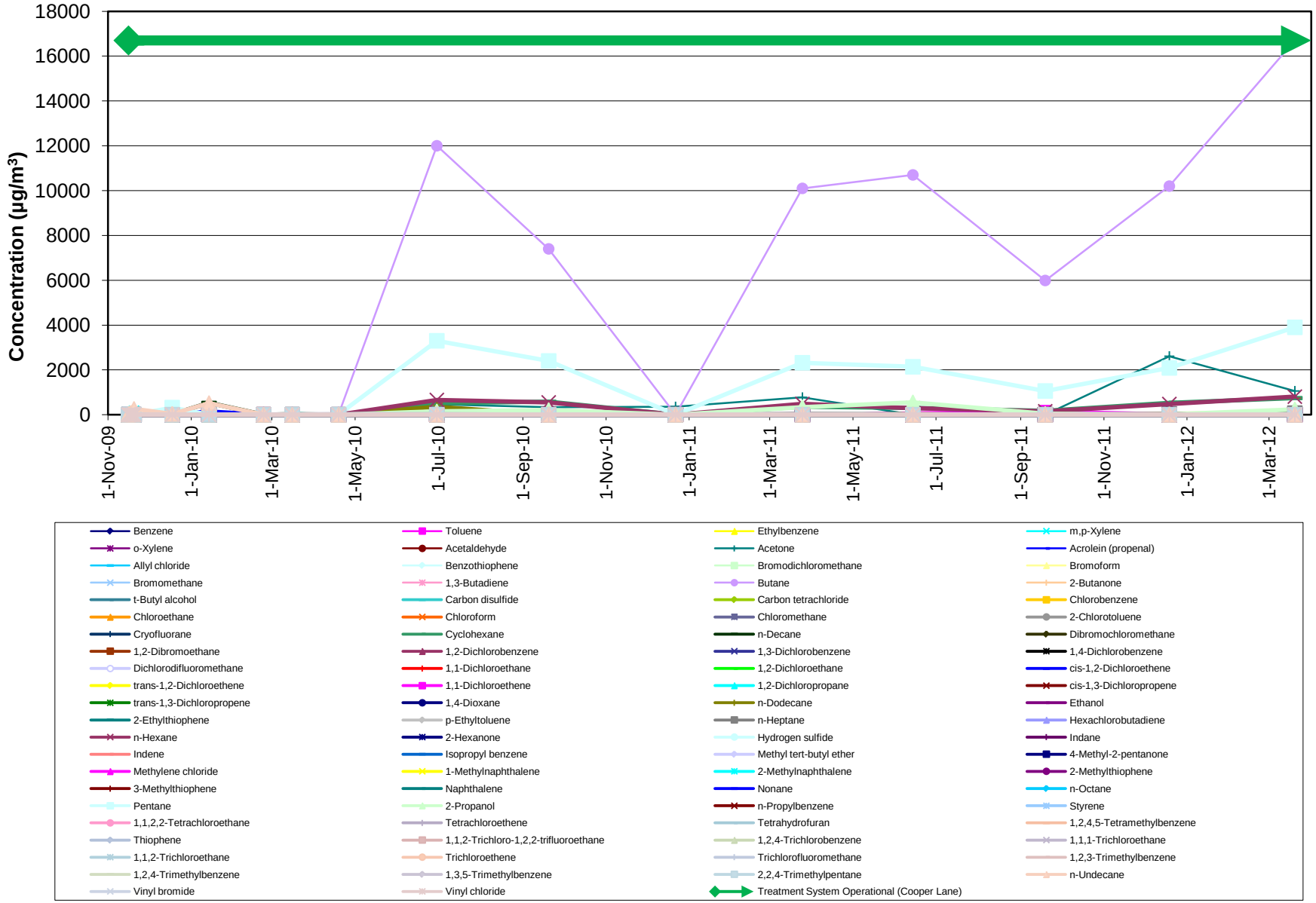
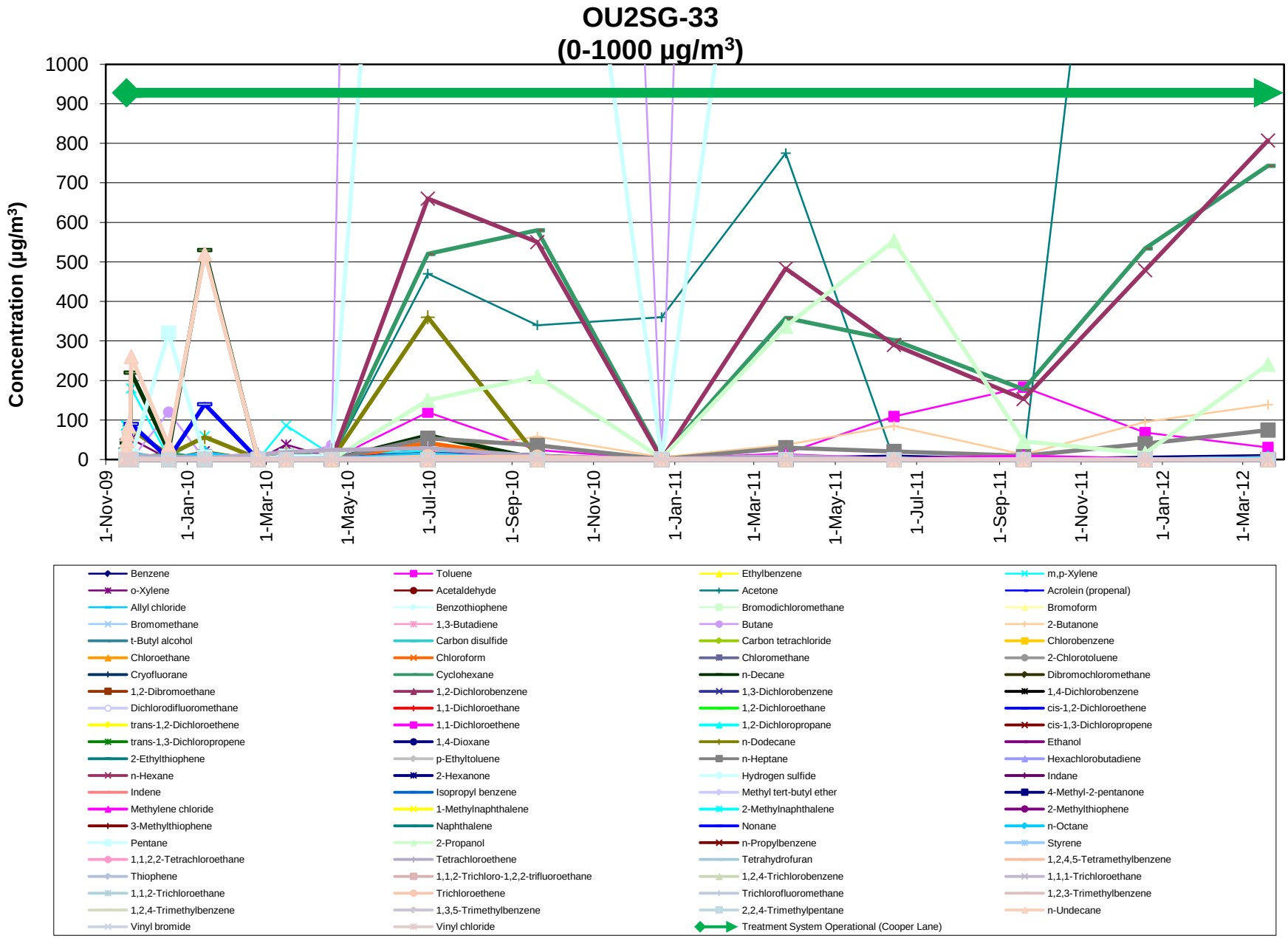
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

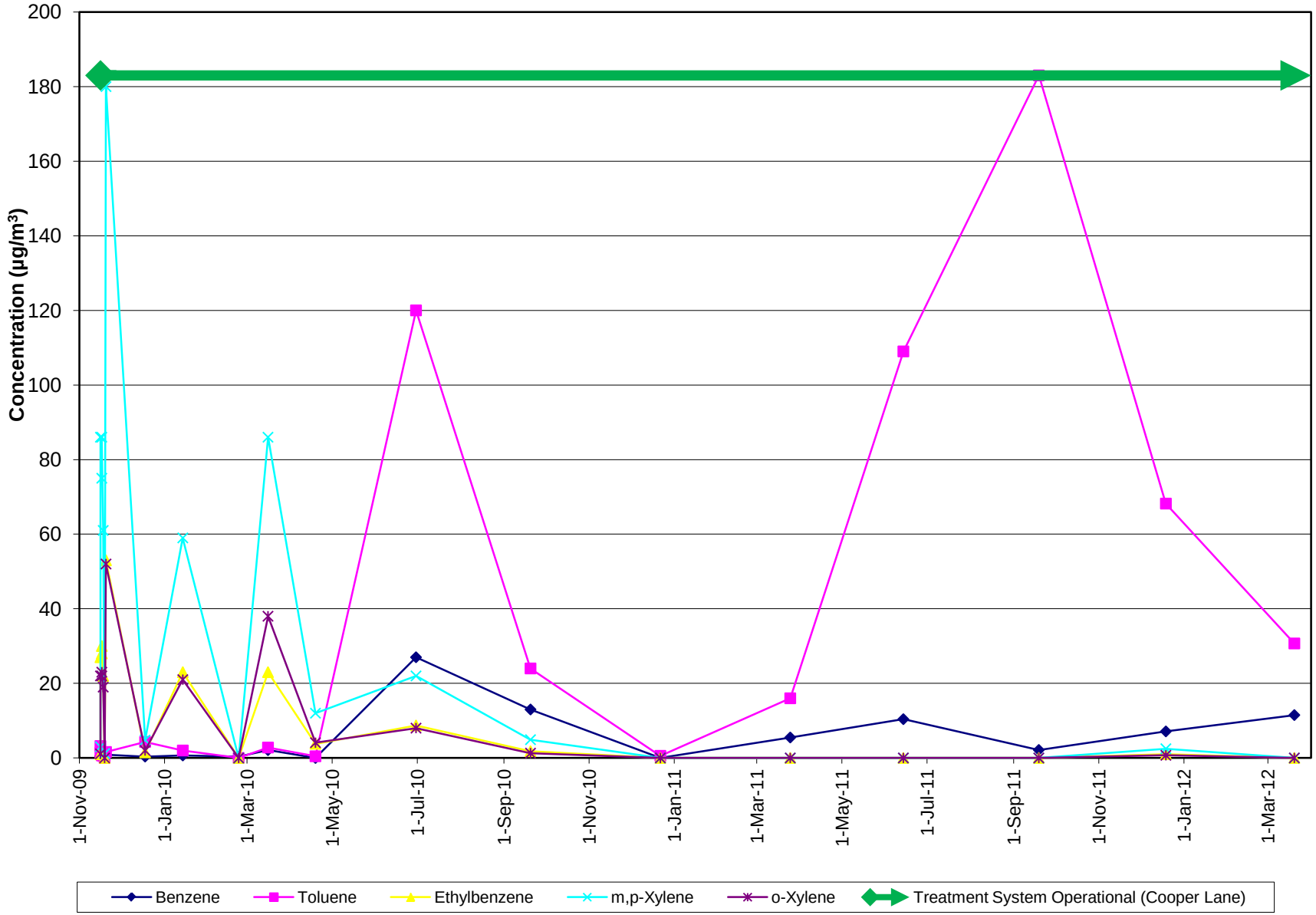
OU2SG-33



Appendix I
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program



OU2SG-33 BTEX



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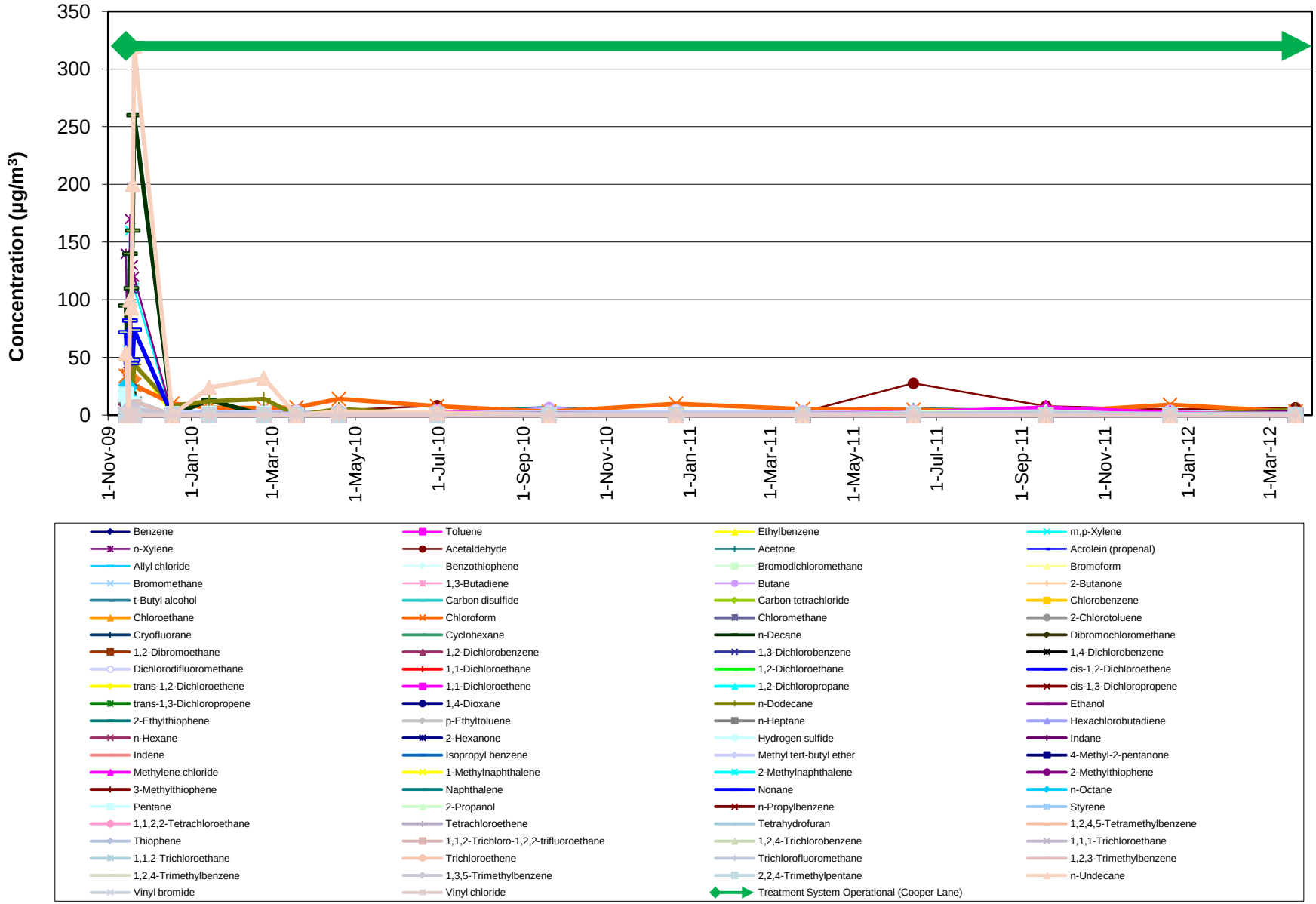
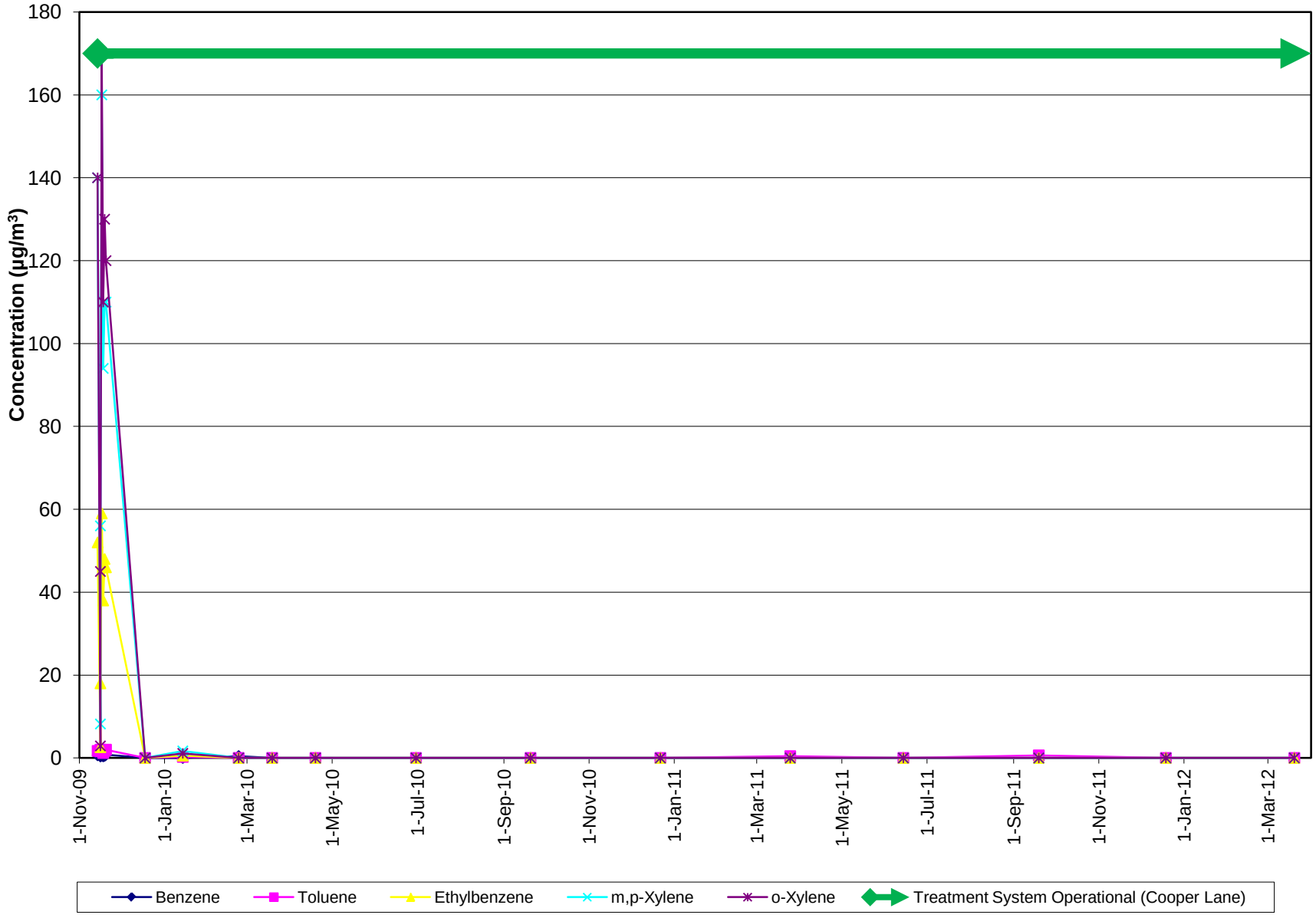
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

OU2SG-34



OU2SG-34 BTEX



Appendix I
Soil Vapor Analytical Results
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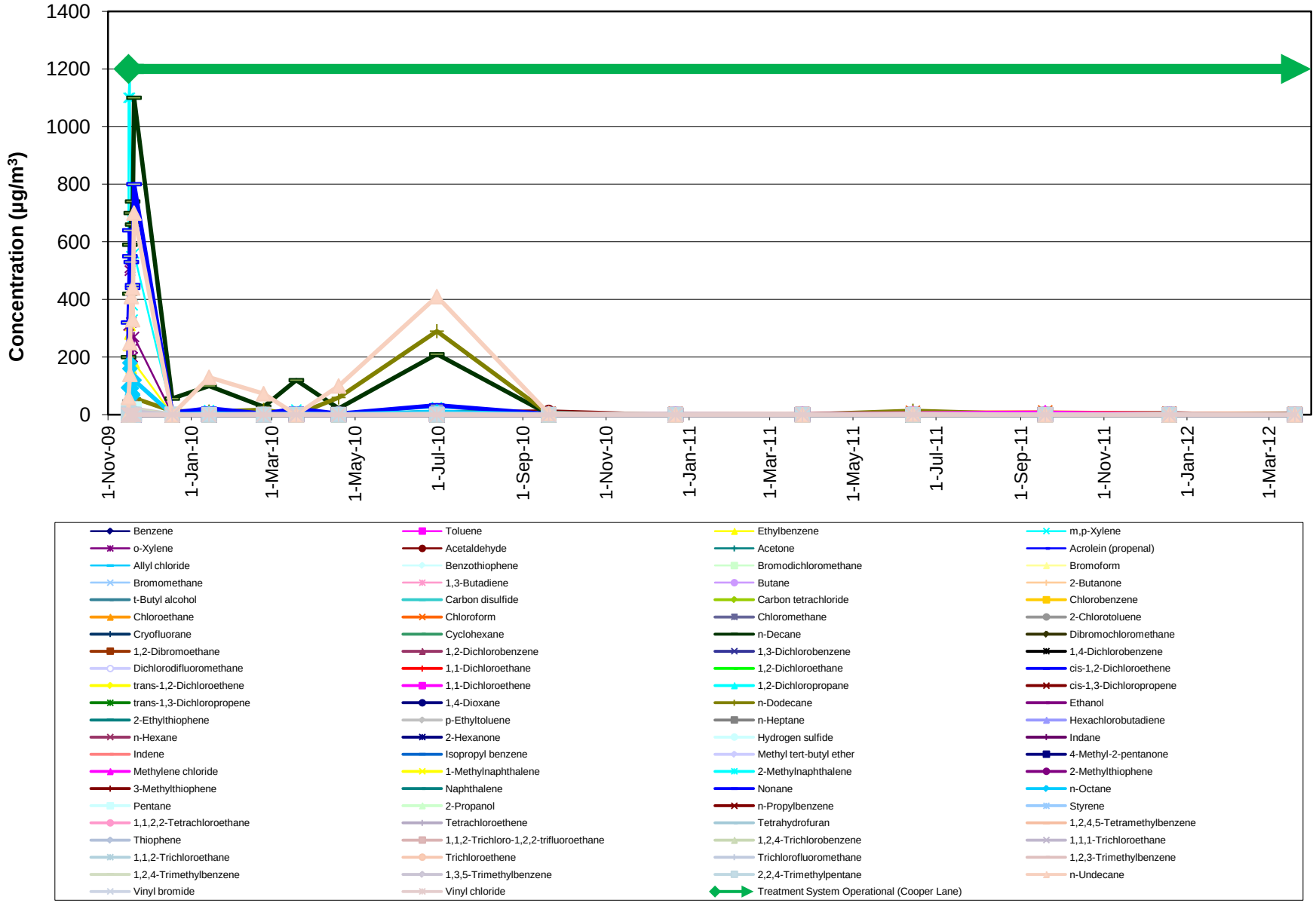
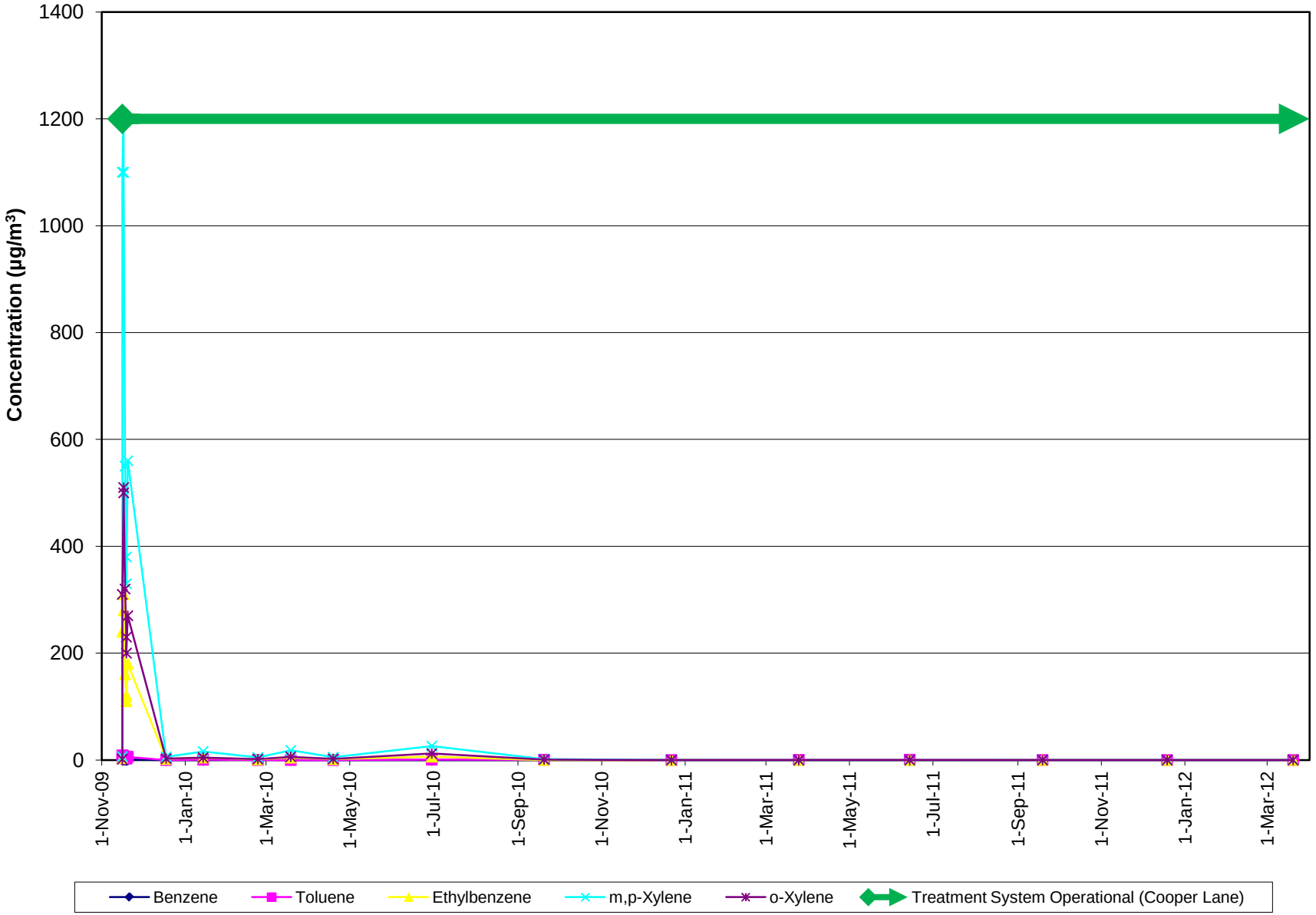
OU2SG-35

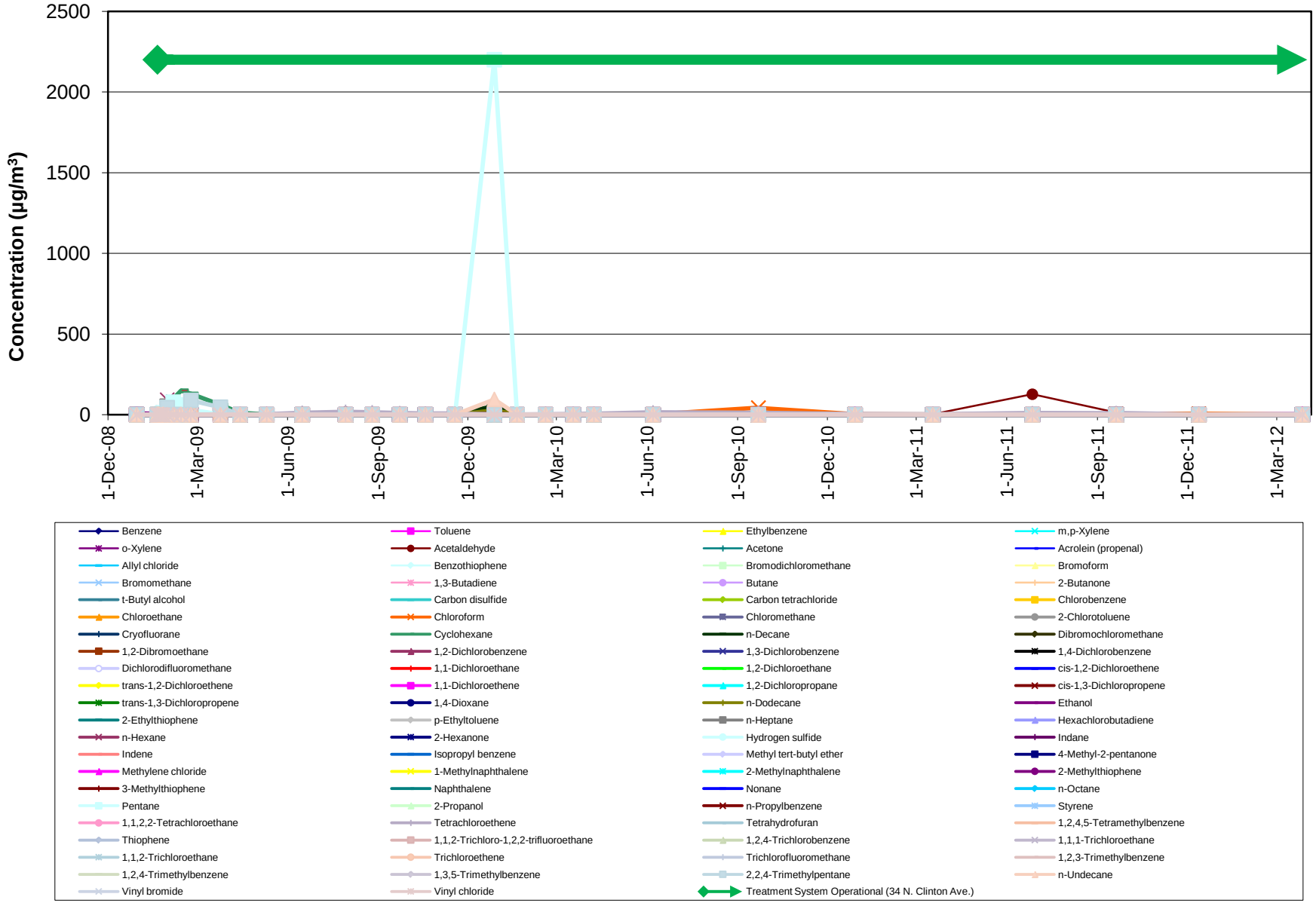


OU2SG-35 BTEX

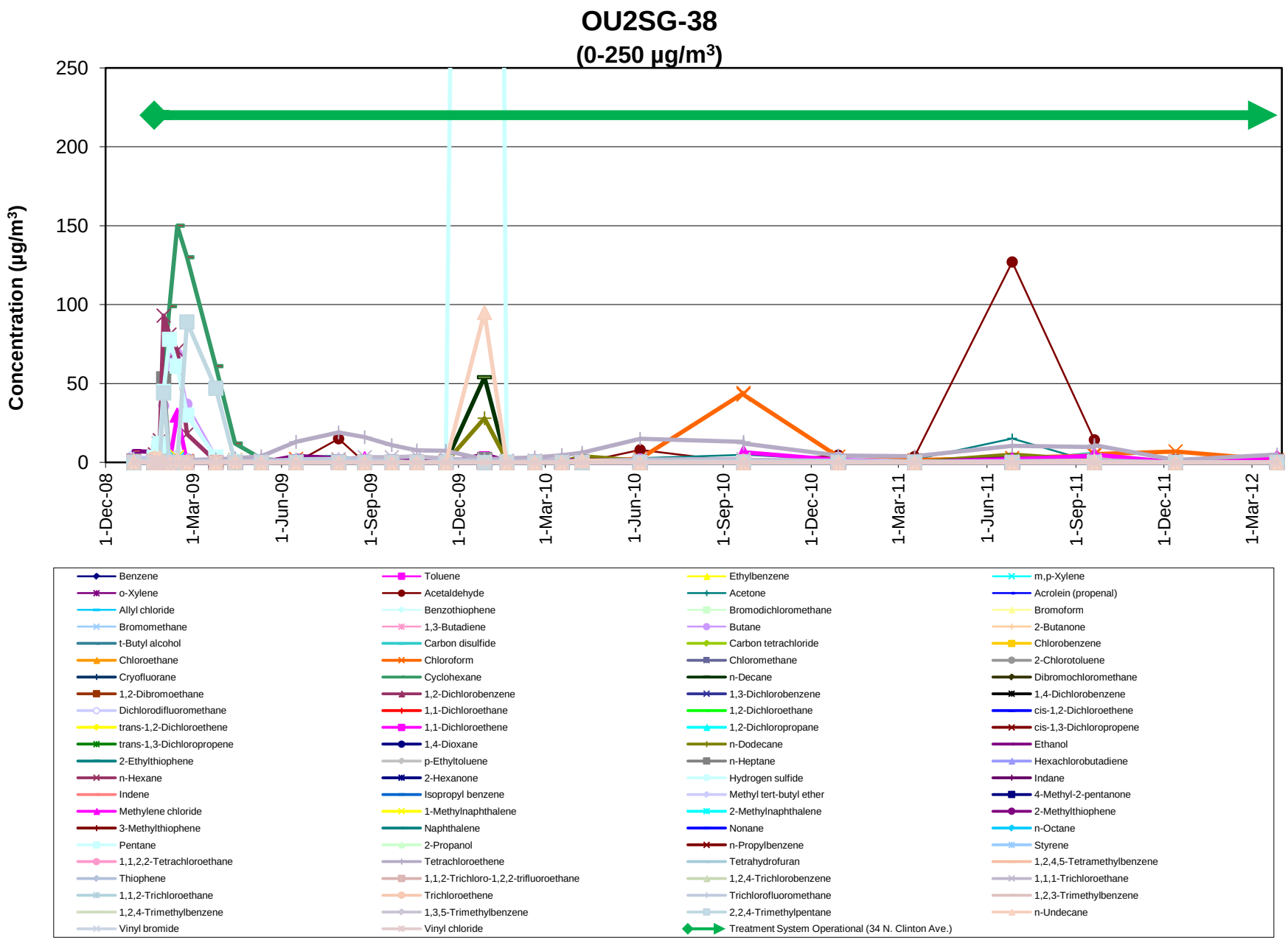


Appendix I
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

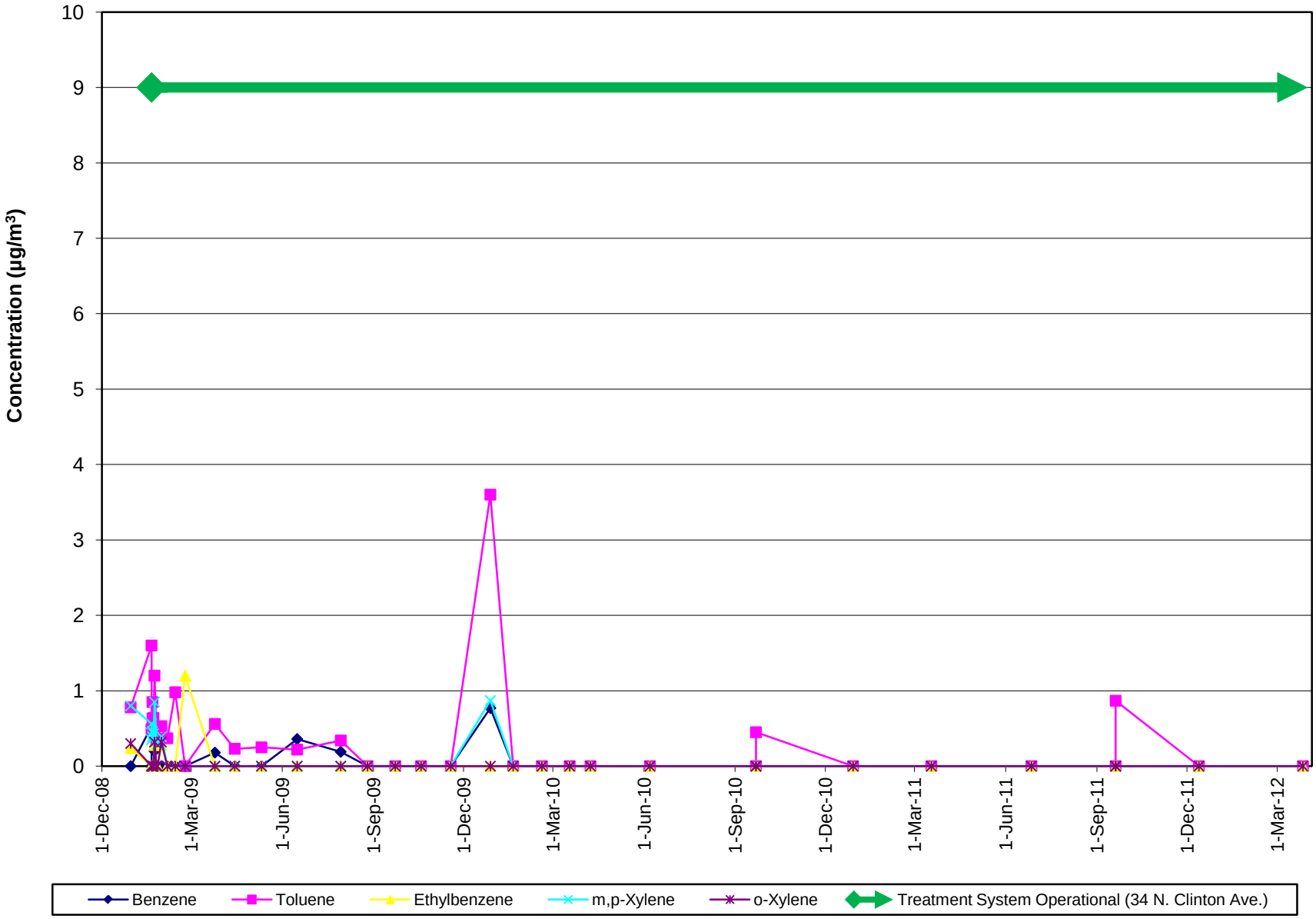
OU2SG-38



Appendix I
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

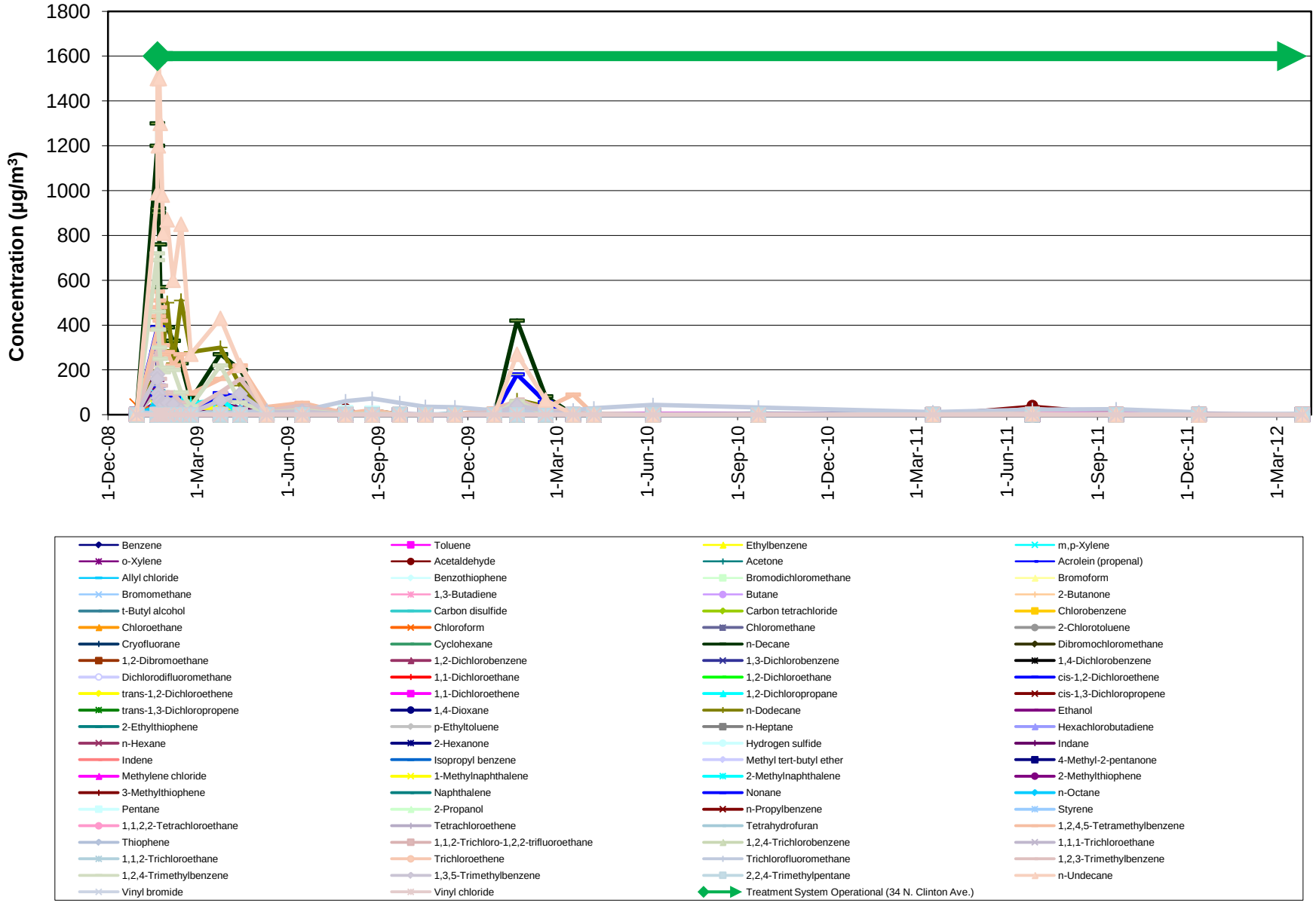


OU2SG-38 BTEX

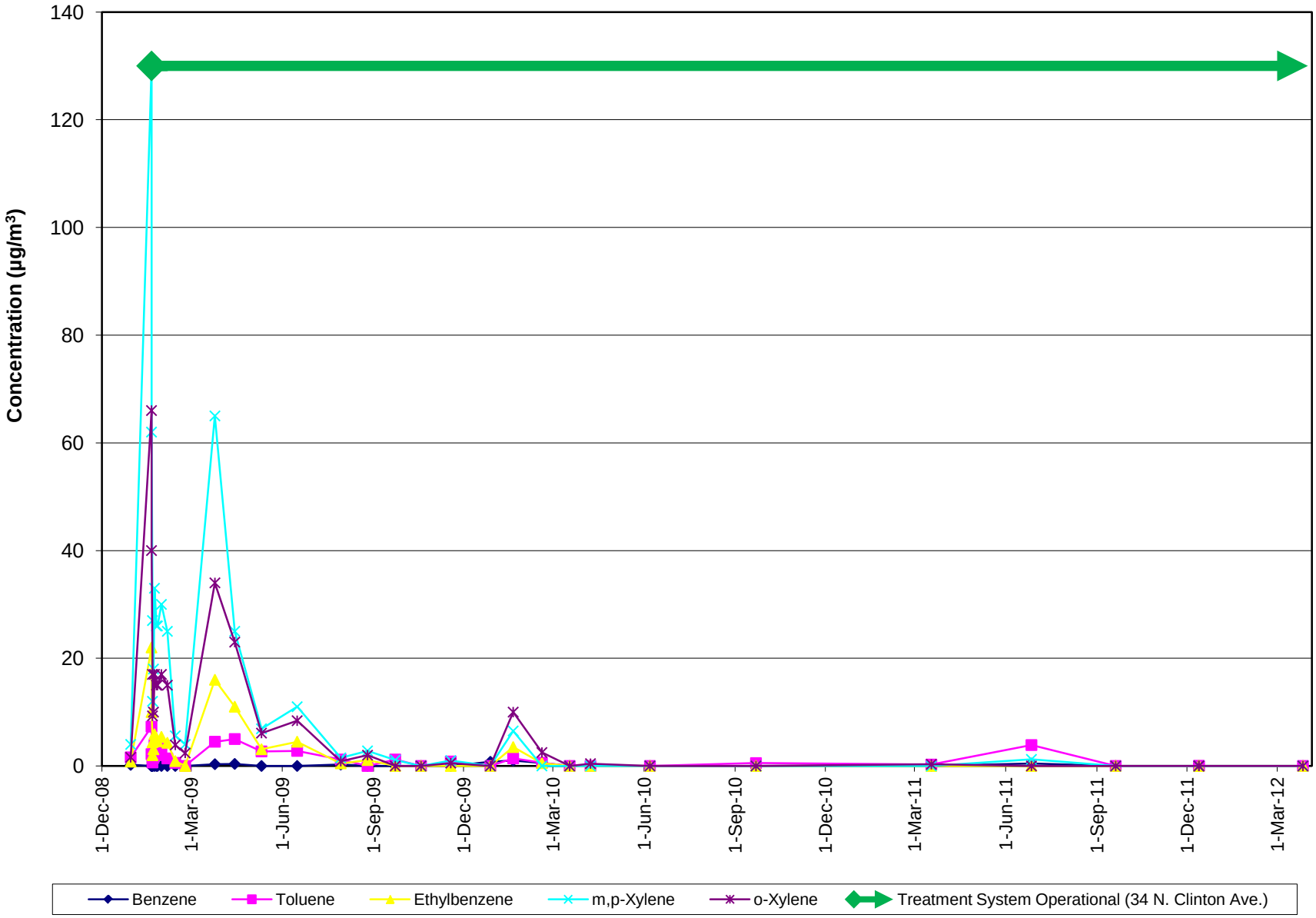


Appendix I
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

OU2SG-39

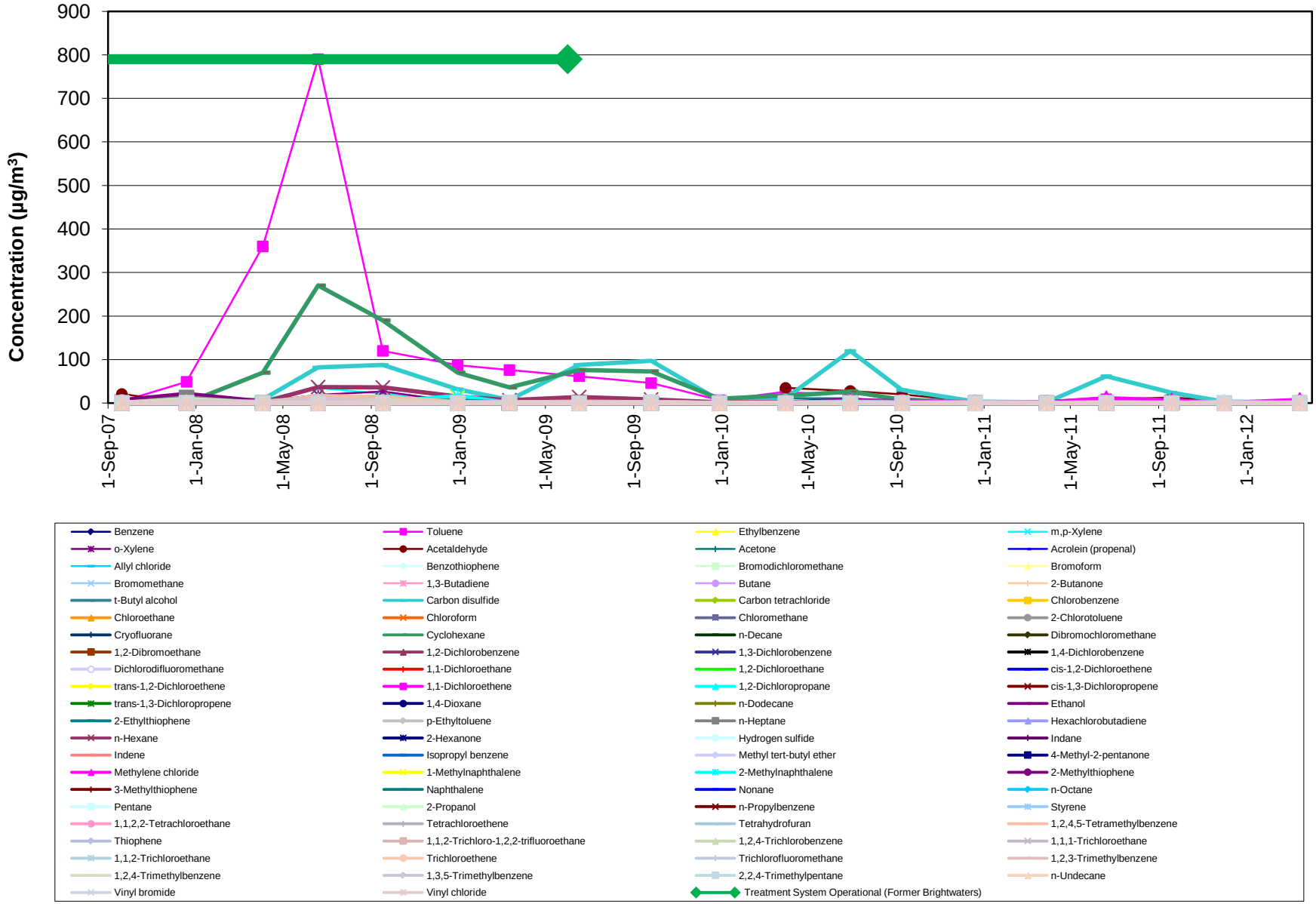


OU2SG-39 BTEX

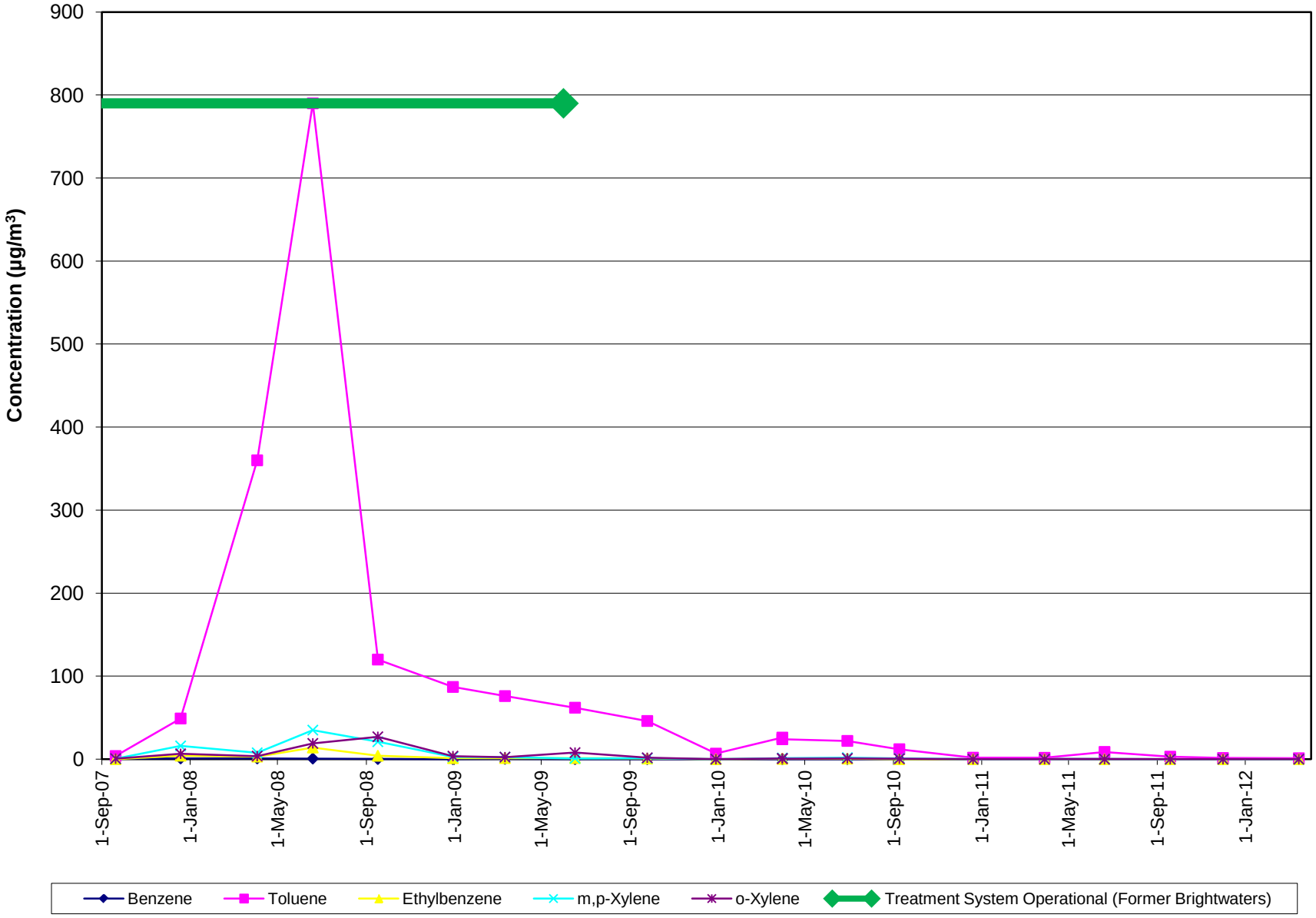


Appendix I
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

OU3SG-01



OU3SG-01 BTEX



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Soil Vapor Analytical Results
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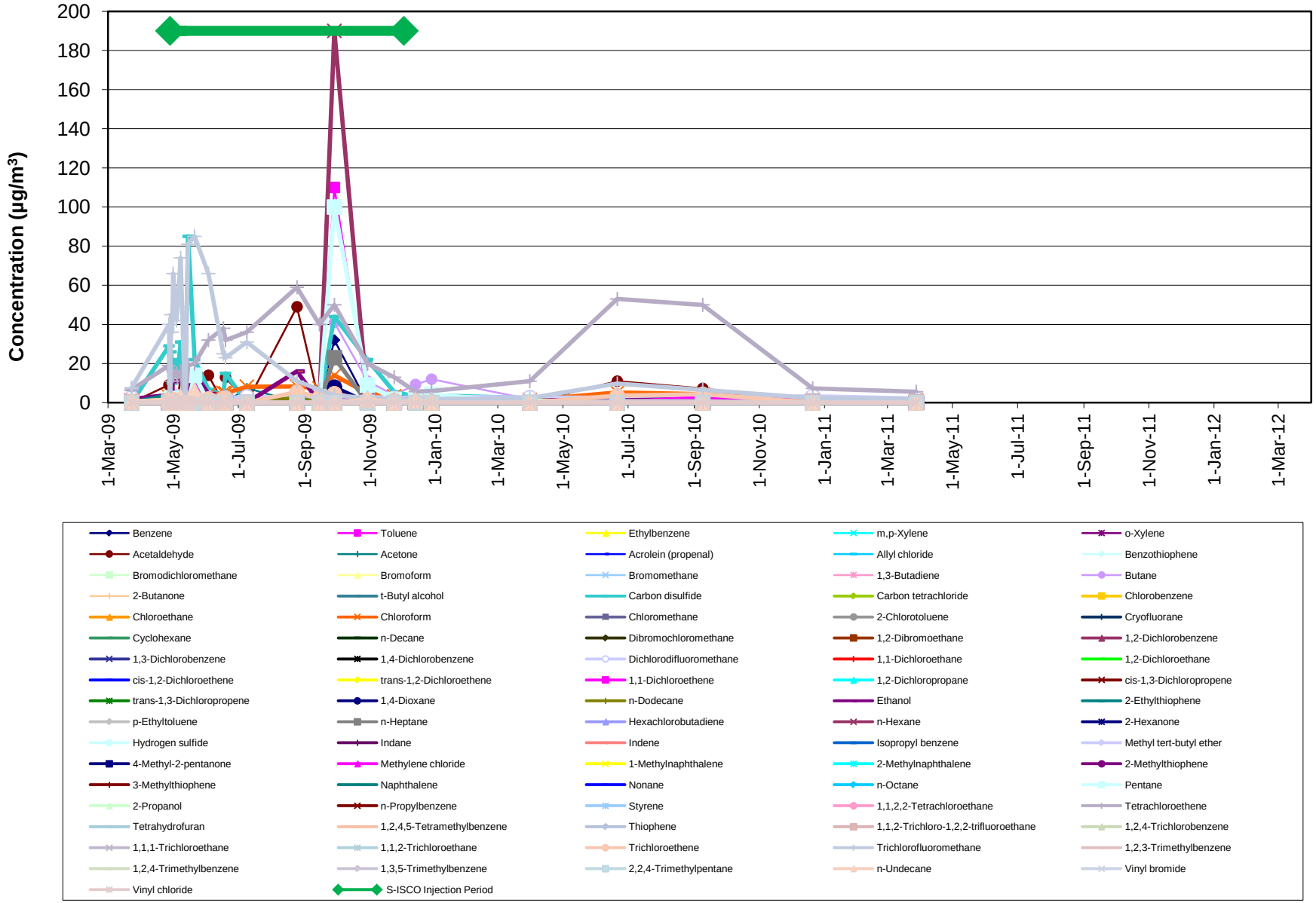
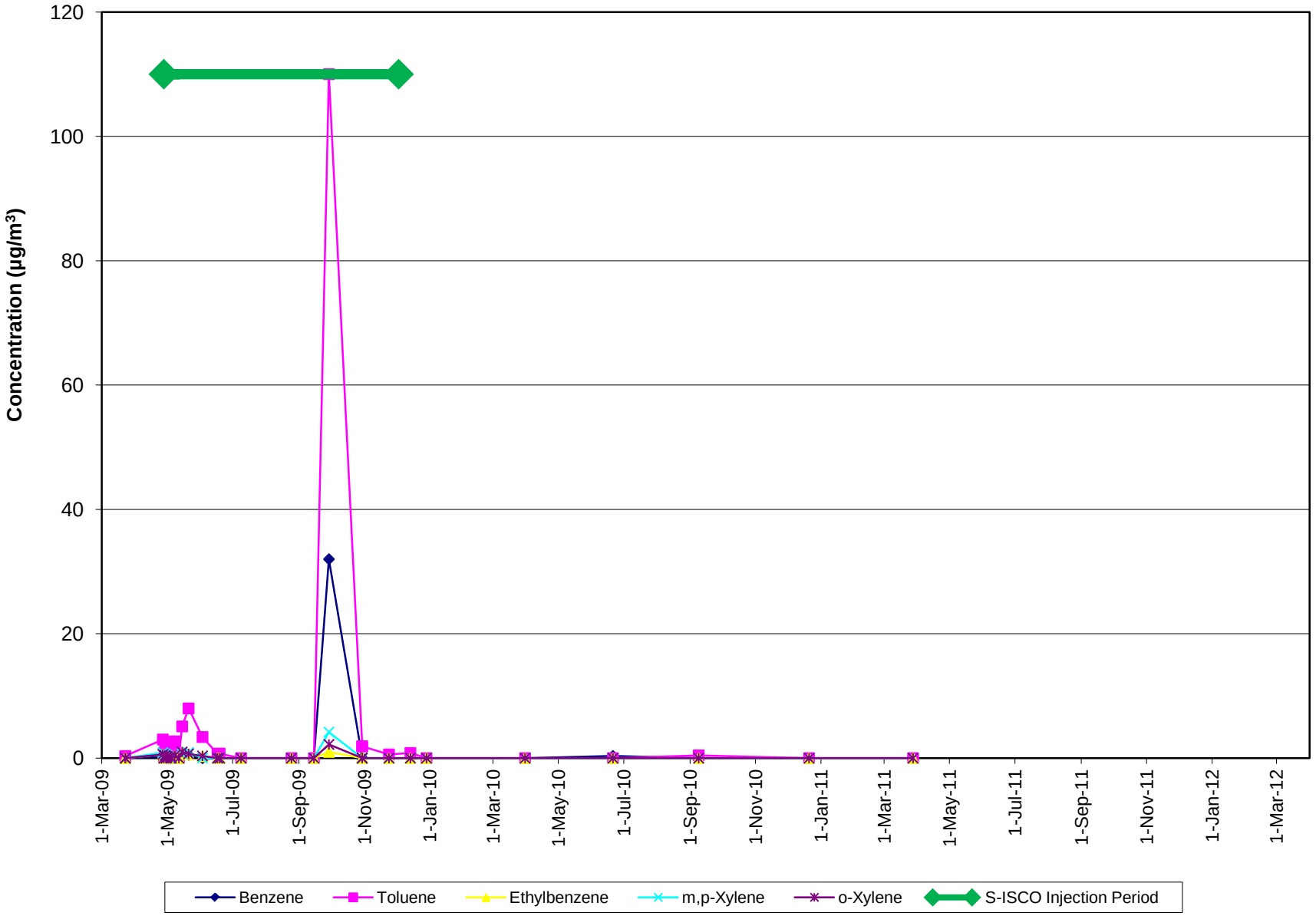
OU4SV-01



OU4SV-01 BTEX



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Soil Vapor Analytical Results
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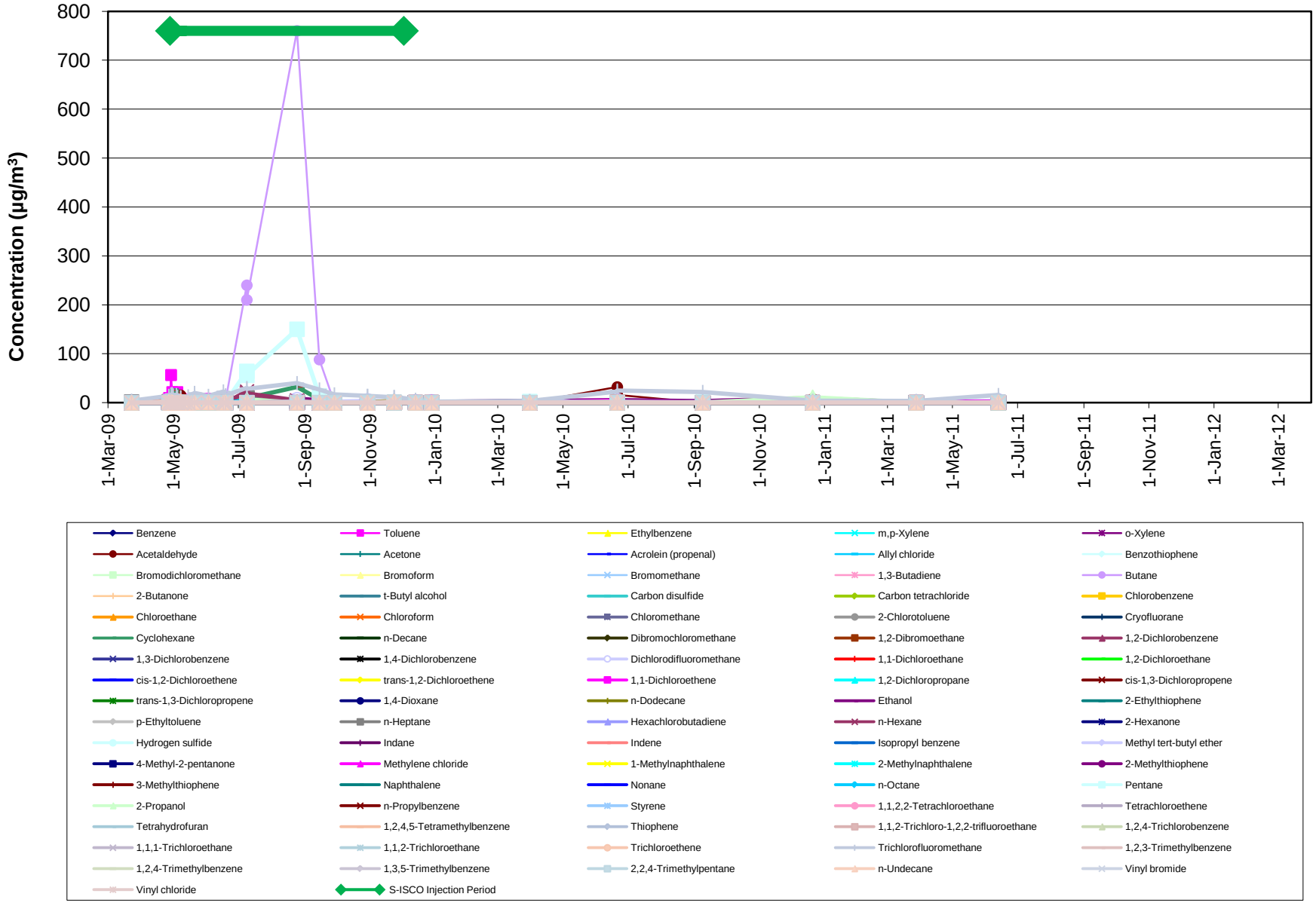
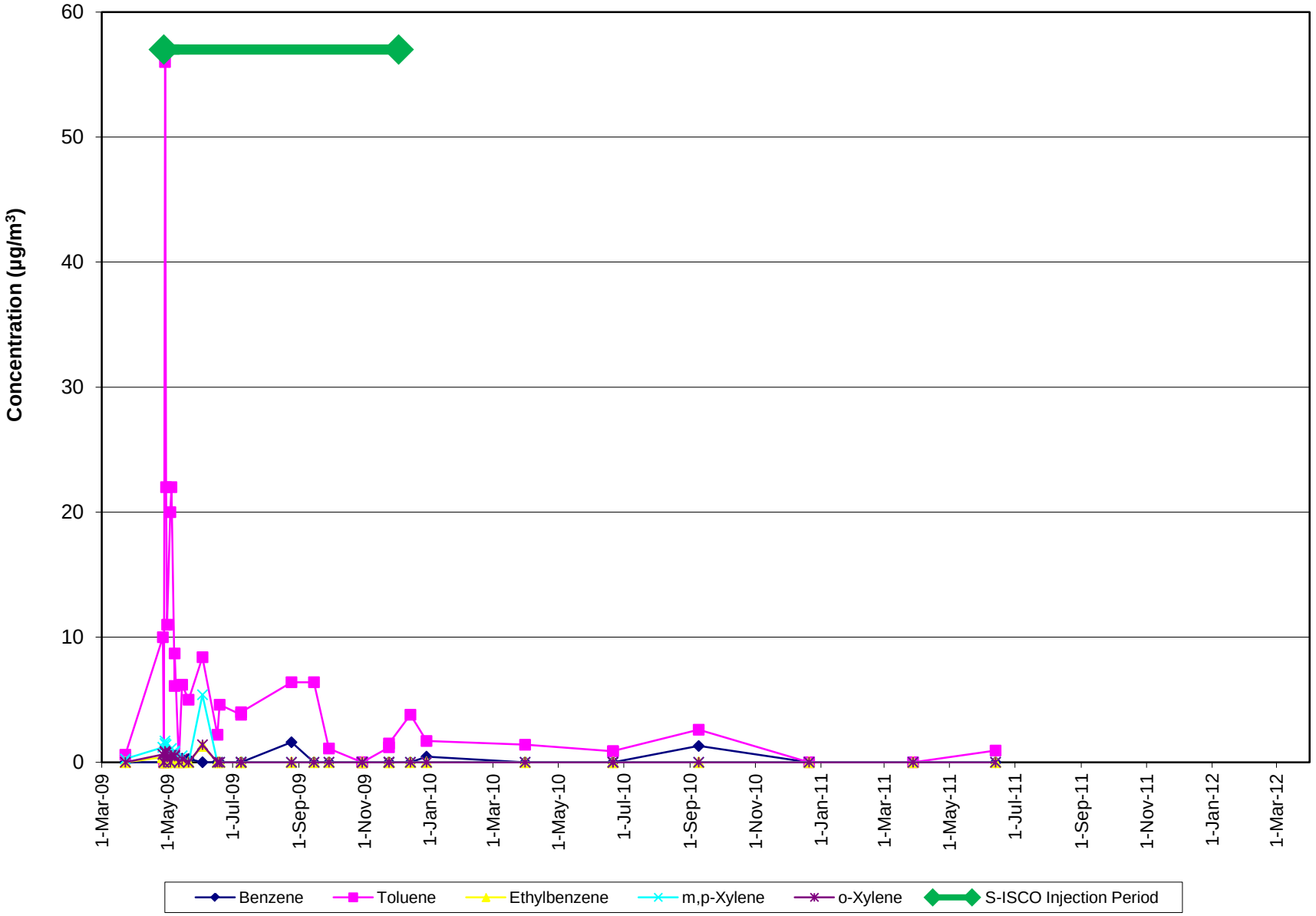
OU4SV-02



OU4SV-02 BTEX



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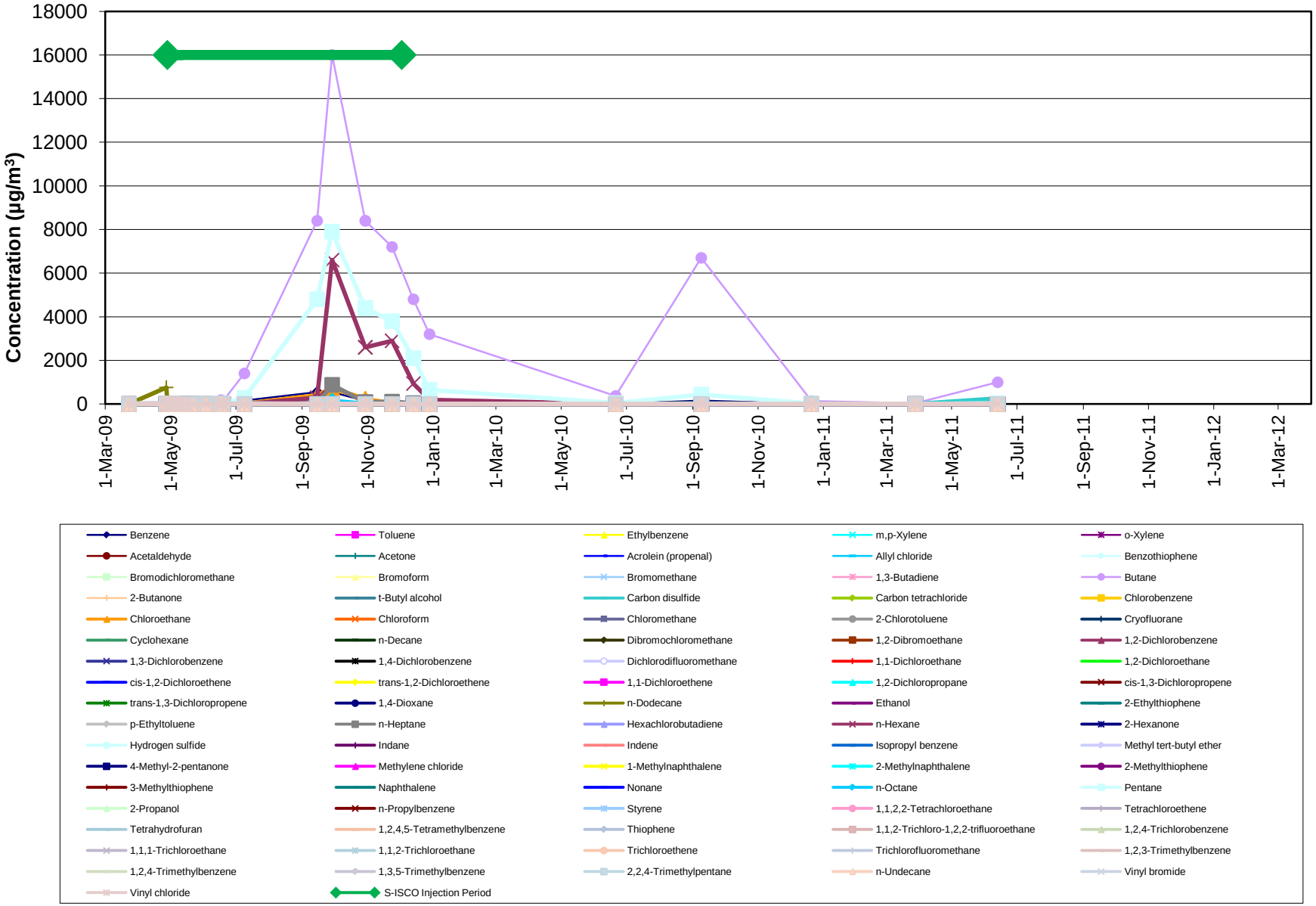
OU4SV-03



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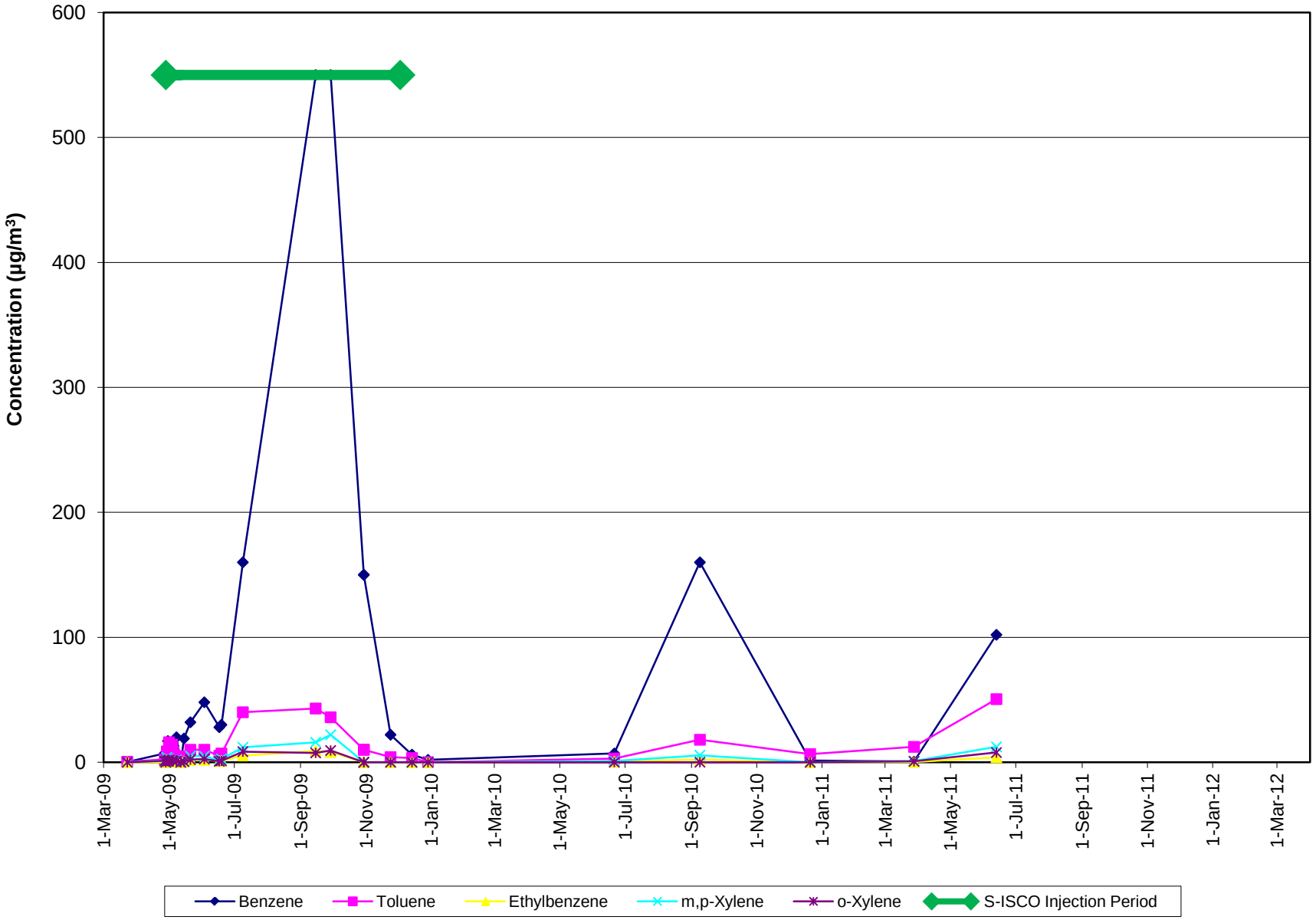
OU4SV-03 BTEX



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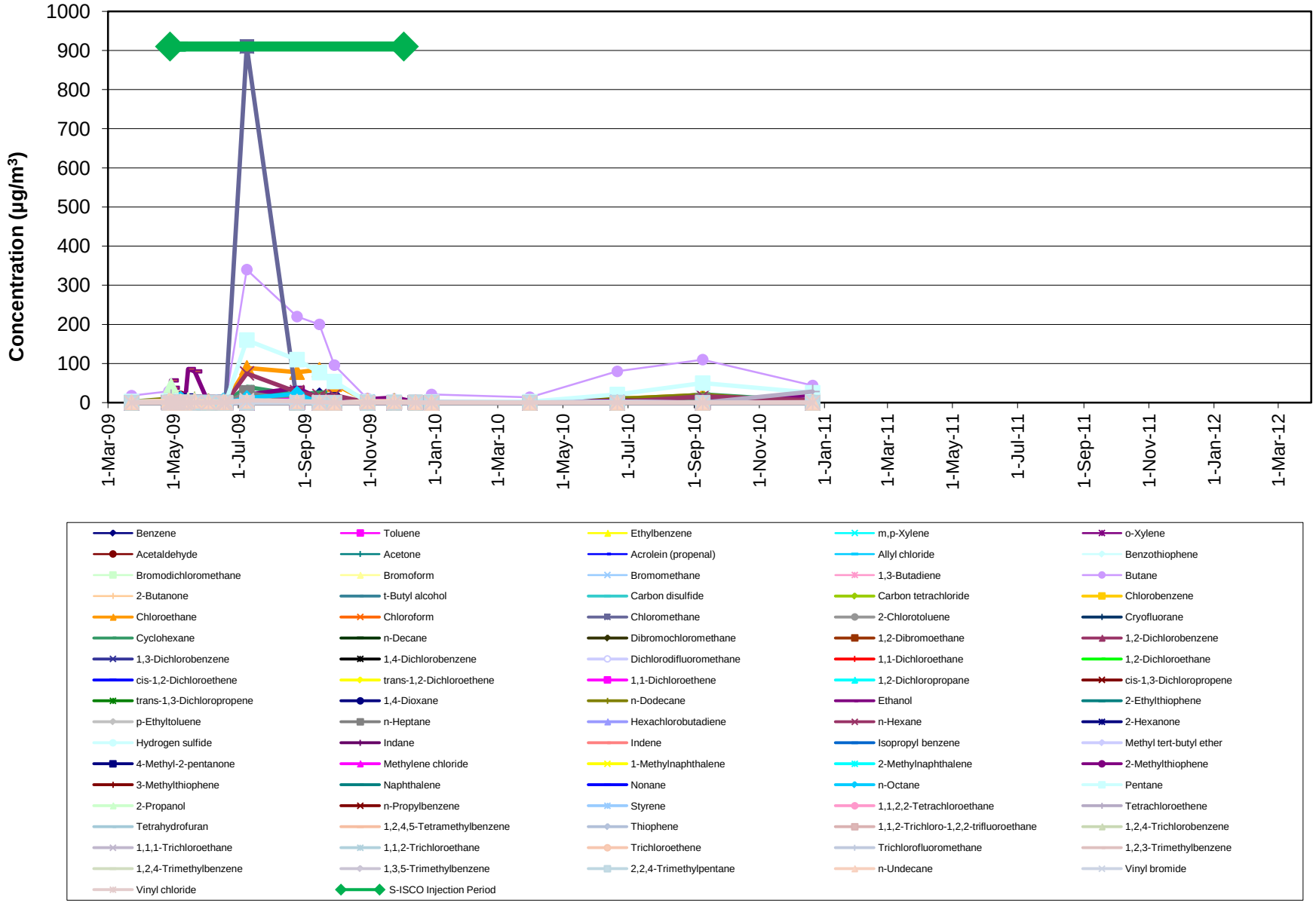
OU4SV-04



Appendix I
Soil Vapor Analytical Results
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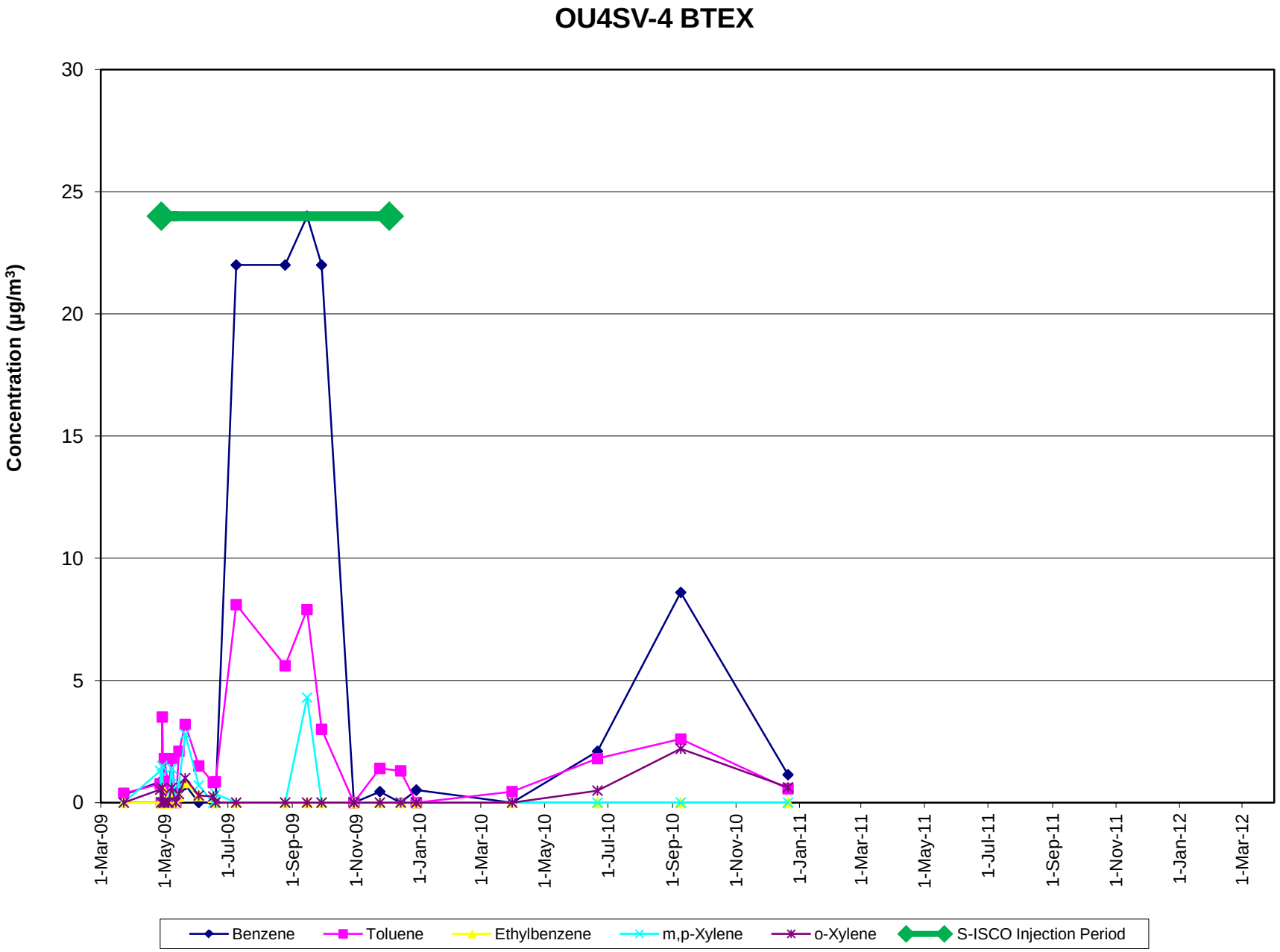

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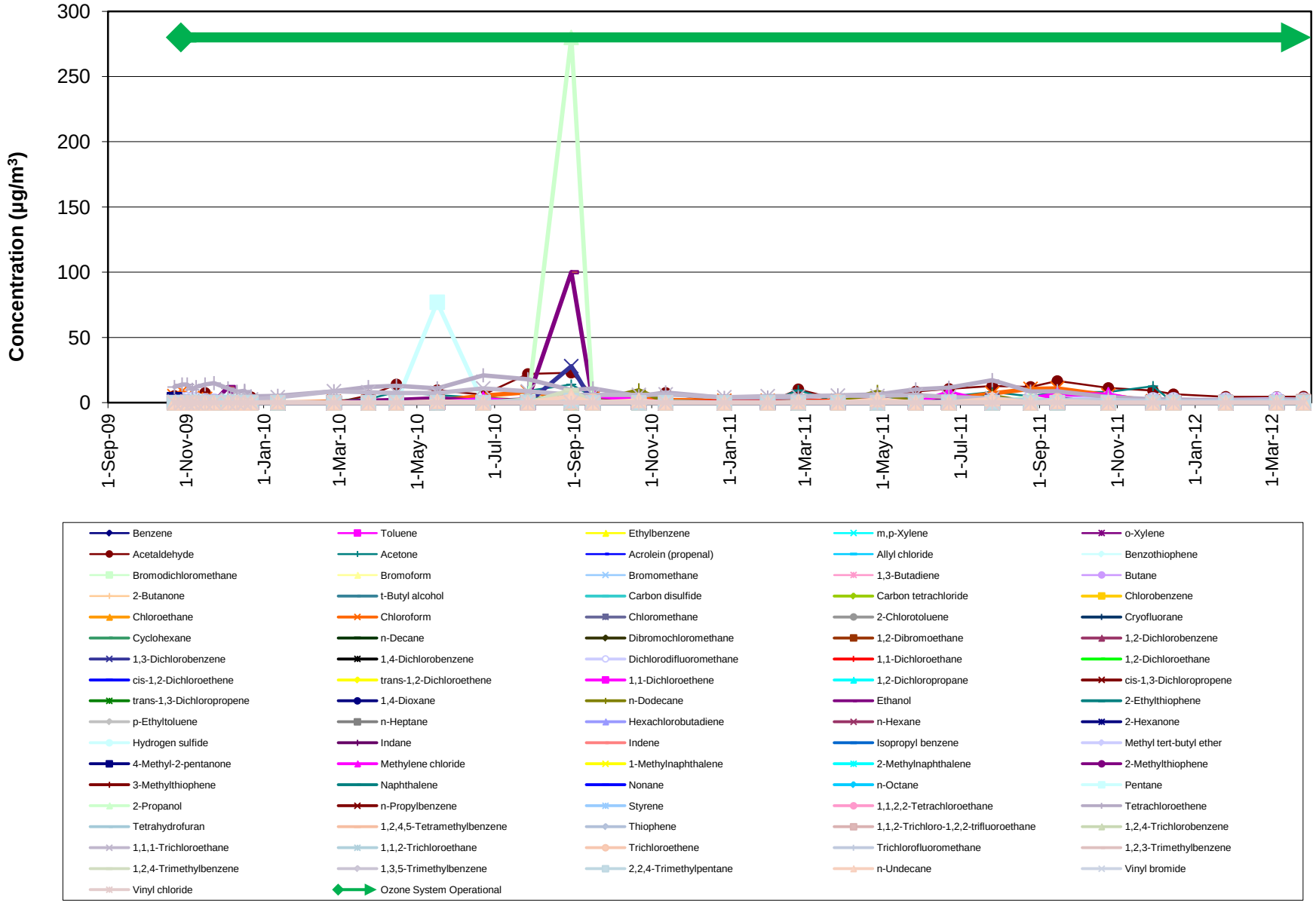
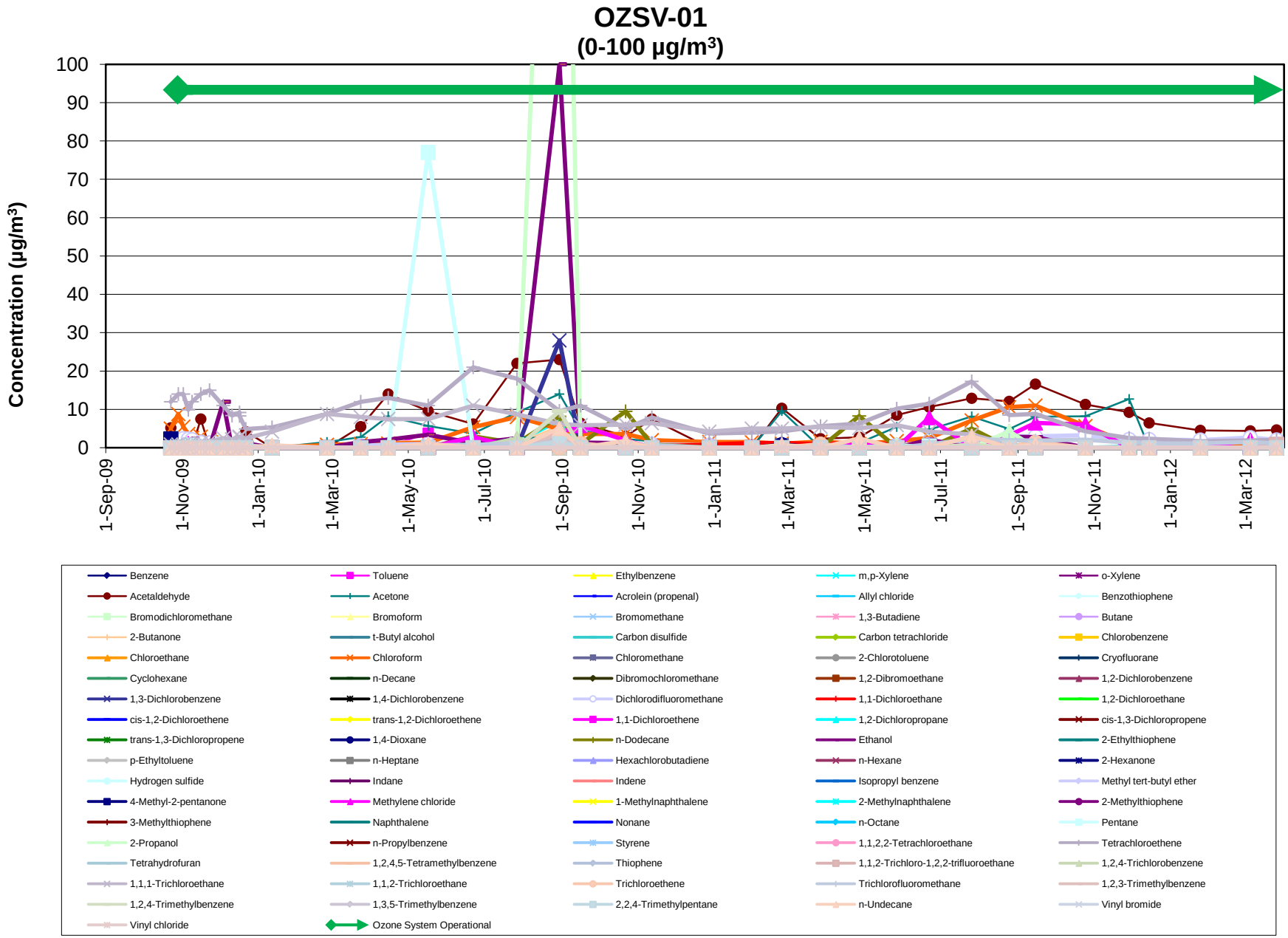
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

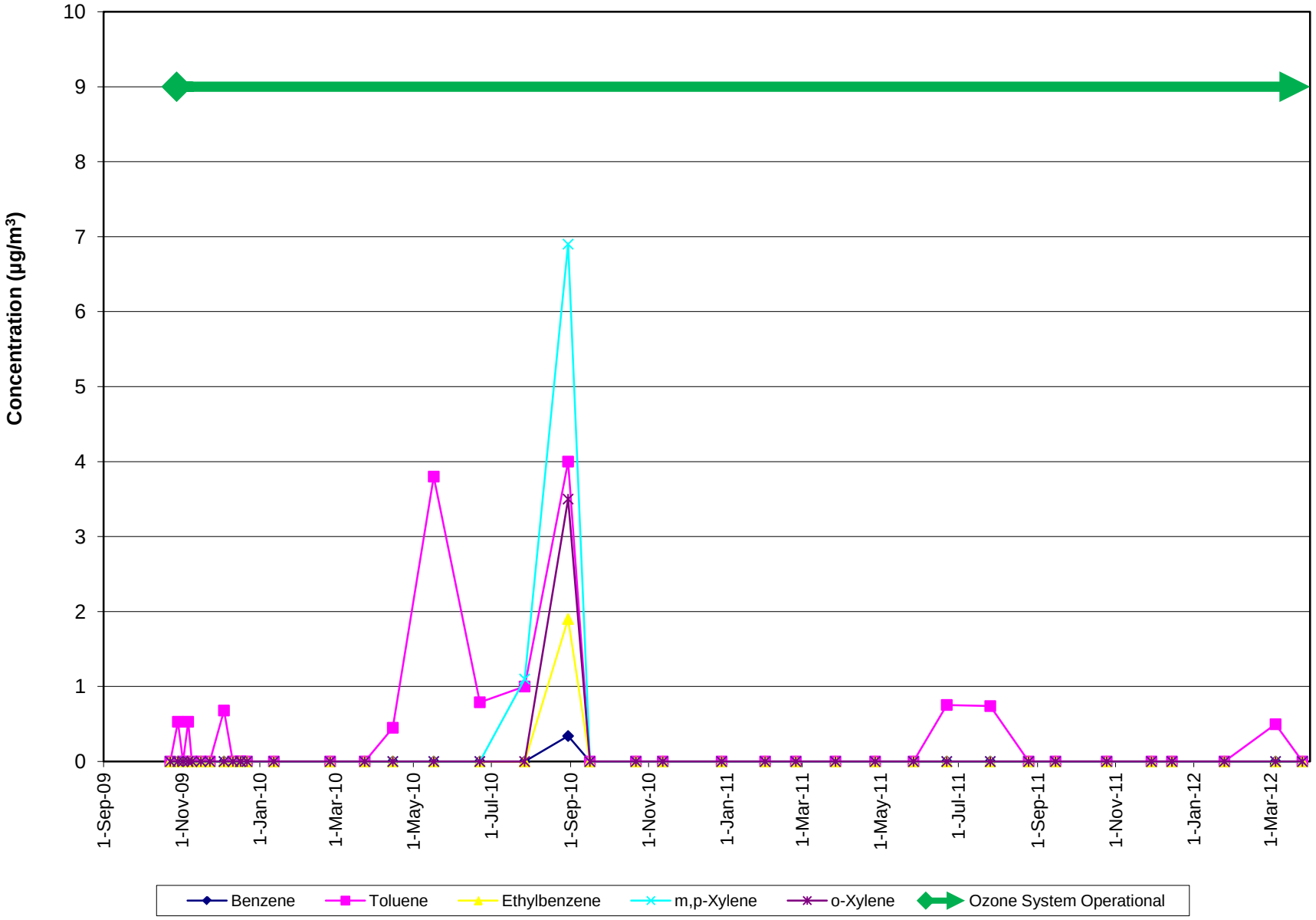
OZSV-01



Appendix I
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

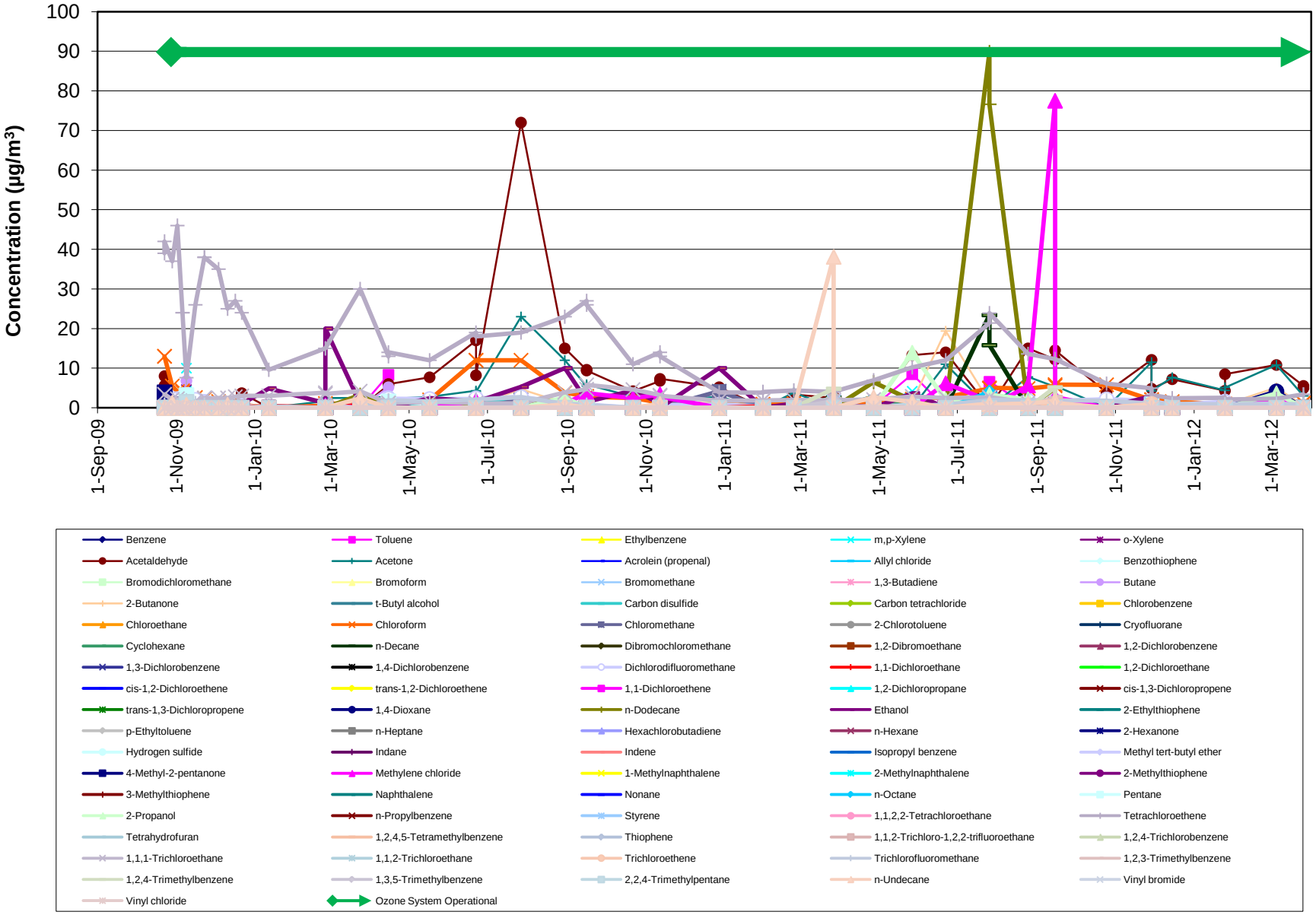


OZSV-01 BTEX

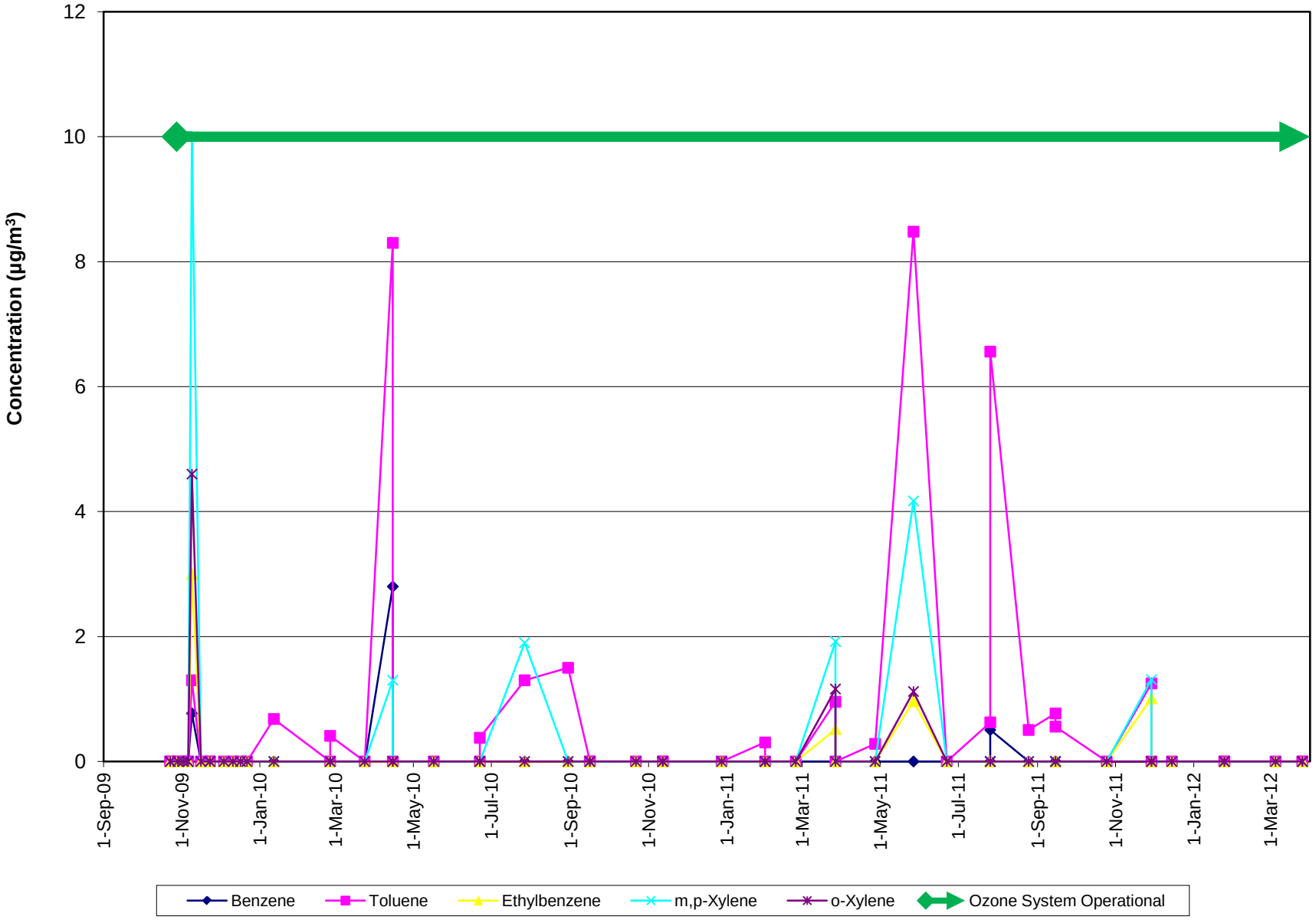

Concentration (µg/m³)
10
9
8
7
6
5
4
3
2
1
0
1-Sep-09
1-Nov-09
1-Jan-10
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Ozone System Operational

Appendix I
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program

OZSV-02



OZSV-02 BTEX


Concentration (µg/m³)
12
10
8
6
4
2
0
1-Sep-09
1-Nov-09
1-Jan-10
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Ozone System Operational

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Soil Vapor Analytical Results
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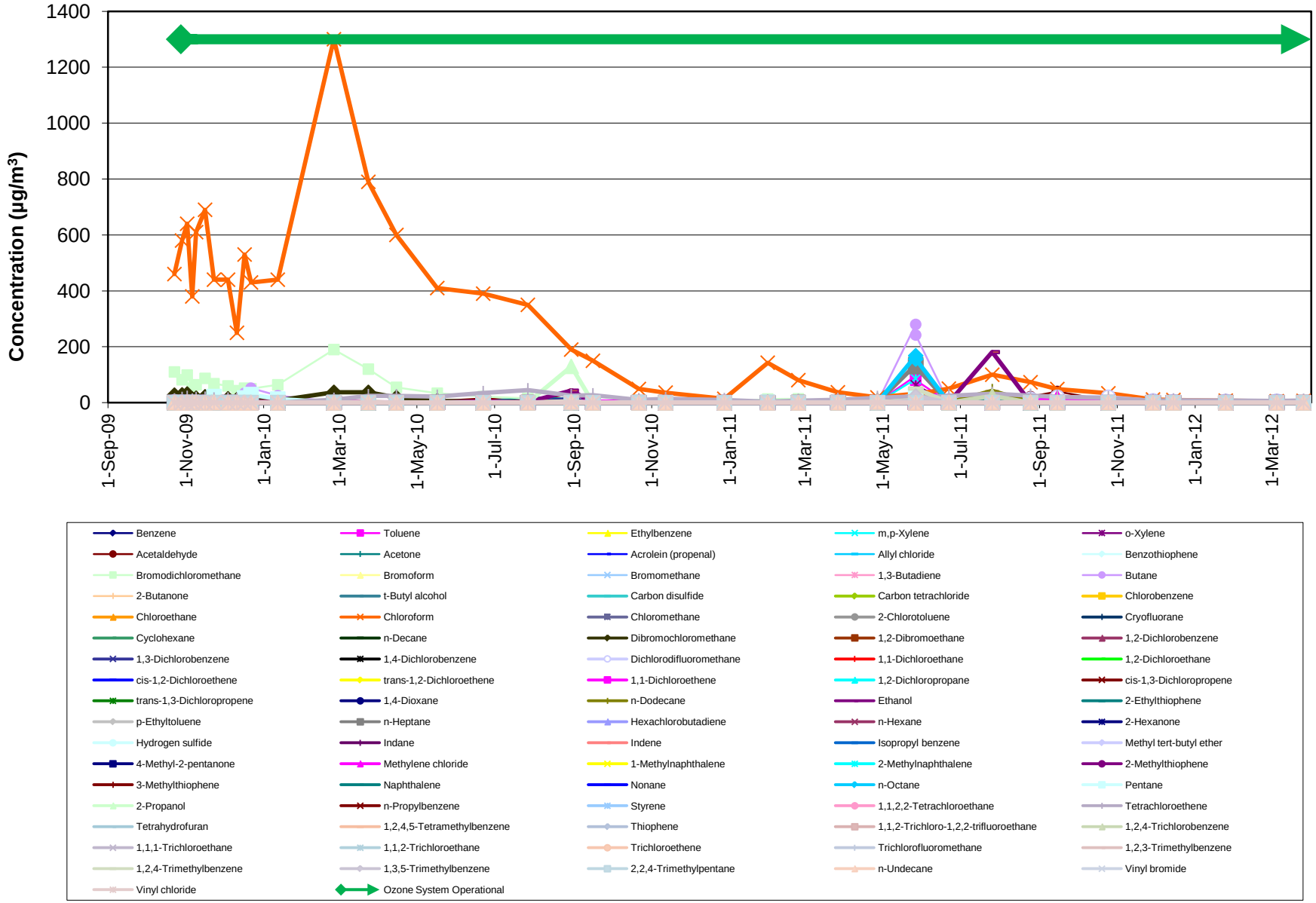
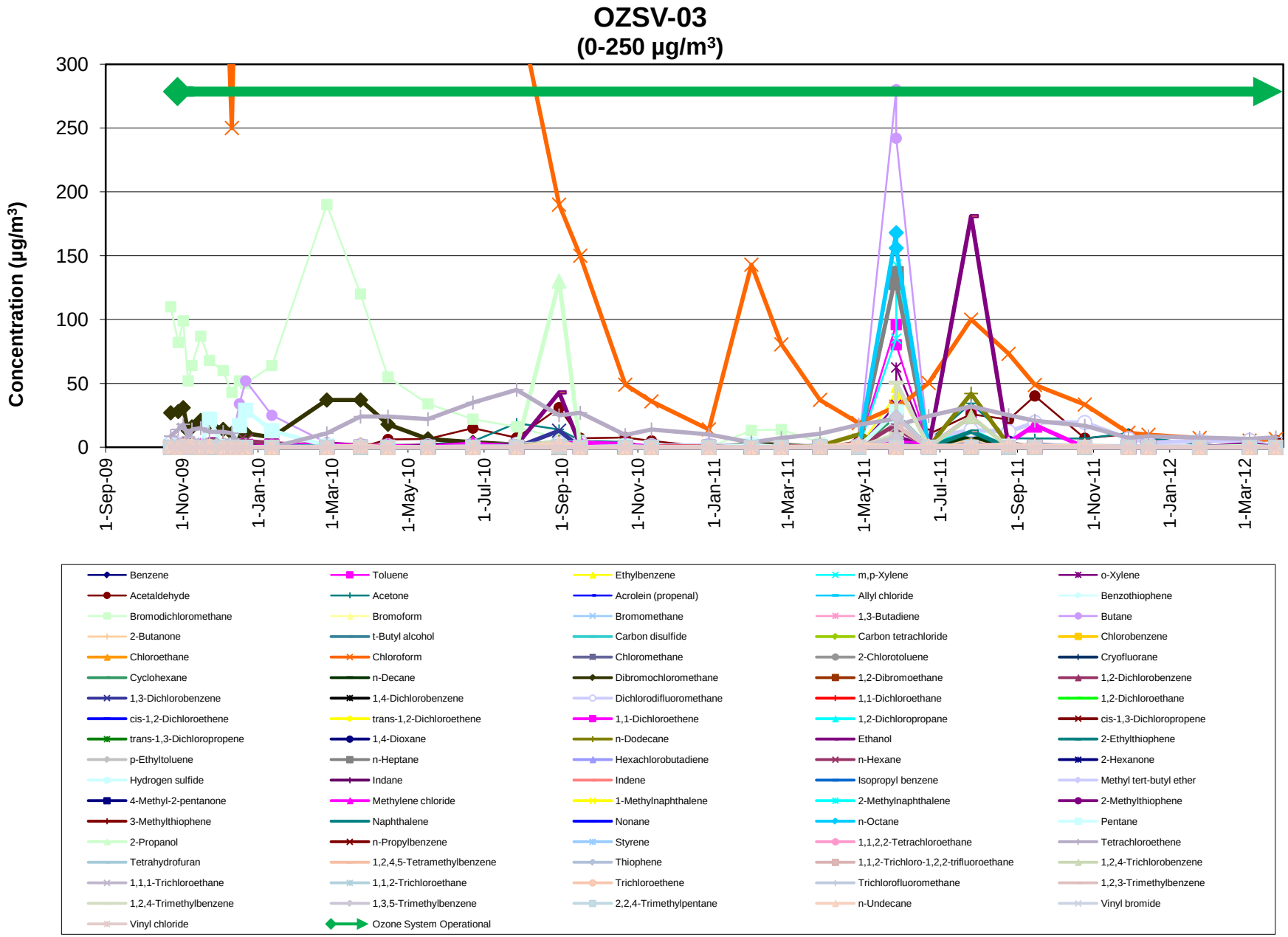
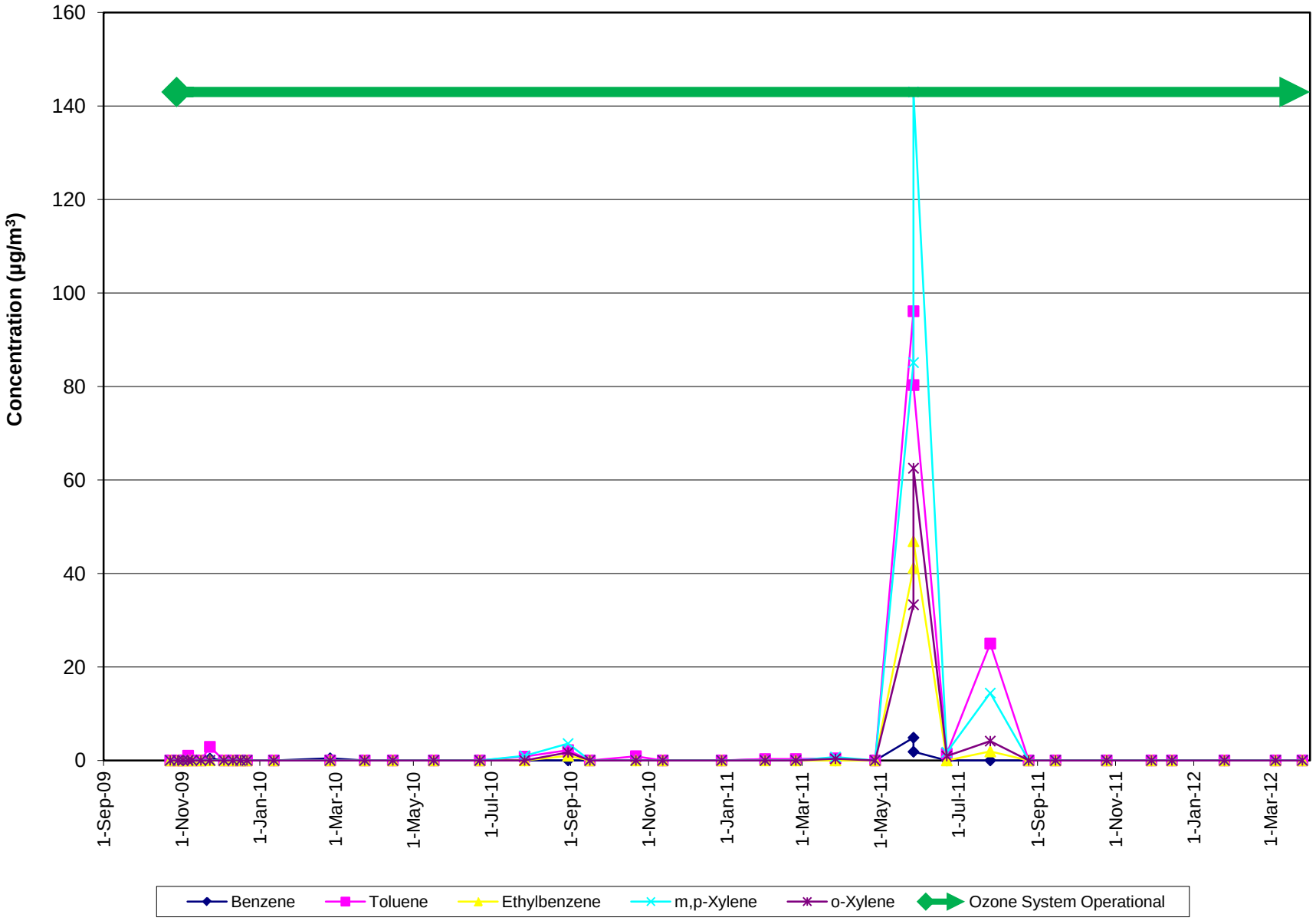
OZSV-03



Appendix I
Soil Vapor Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Program



OZSV-03 BTEX


Concentration (µg/m³)
160
140
120
100
80
60
40
20
0
1-Sep-09
1-Nov-09
1-Jan-10
1-Mar-10
1-May-10
1-Jul-10
1-Sep-10
1-Nov-10
1-Jan-11
1-Mar-11
1-May-11
1-Jul-11
1-Sep-11
1-Nov-11
1-Jan-12
1-Mar-12
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Ozone System Operational