APPENDIX C-1

GROUNDWATER QUALITY AND TRENDS

1 APPENDIX C-1: GROUNDWATER QUALITY AND TRENDS

1.1 Overview

This appendix summarizes groundwater analytical results through March 2011 and concentration trends presented in the RI Report Revision 1 (NRT, 2011). Post-remediation monitoring has been performed to assess the extent of groundwater impacts as well as the efficacy of monitored natural attenuation. Samples have been collected in accordance USEPA and ASTM low-flow sampling methods since November 2003. Groundwater analytical results are compared to either the federal MCL or the State of Wisconsin enforcement standard (ES) for PAHs that do not have a federal MCL.

1.1.1 Groundwater Flow Direction and Gradients

1.1.1.1 Groundwater Flow Direction and Conceptual Model

Groundwater elevation is measured in all monitoring network wells during each sample event (Attachment 1, Table 1). Groundwater flow between July 2007 and March 2011 was eastward, away from the Wisconsin River (Attachment 2, Figures 12 through 25). This flow pattern has remained consistent with historic observations; therefore, not all sampling events were mapped.

The easterly flow direction is caused by the river water pooled behind the Main Street dam, 0.5 mile downstream of the site, which is recharging the aquifer. Groundwater elevations at OW-17, about 40 feet from the river, are lower than the average daily flowage elevation on the upstream side of dam, as listed below.

Date	OW-17 Groundwater Elevation (ft)	Flowage Elevation (ft)
July 24, 2007	1,086.37	1,087.01
Oct. 22, 2007	1,086.28	1,086.99
Jan. 14, 2008	1,086.14	1,086.99

As groundwater flows to the east, it eventually turns toward the south around the dam and then flows back to the river downstream of the dam.

The conceptual groundwater flow model (Attachment 2, Figure 26) illustrates how local groundwater flow in the vicinity of the facility and regional flow from areas further to the east are diverted toward the

south and discharge below the dam. The area where the two flow systems converge will move closer to or further from the river in response to changes in pool elevation or regional precipitation which is driving hydraulic heads/groundwater levels in the regional flow system.

Data were reviewed for four Stevens Point GIS Registry properties in the site vicinity for which WDNR had approved closure. The generalized direction of groundwater flow (Attachment 2, Figure 27) at these sites is consistent with the conceptual model presented herein (Attachment 2, Figure 26) as well as the groundwater flow maps shown in Attachment 2 on Figures 12 through 25. The Lullabye site reflects the regional groundwater flow system, while the WPSC, Schierl, Cooper Oil, and Belts sites are within the local flow system influenced by recharge from the dam.

Based on this conceptual flow model, interpretation of Site data should consider the following:

- The extent to which groundwater flows to the east will be limited by the regional flow system;
- Enhanced dilution and dispersion of dissolved constituents can be expected to occur where groundwater flow from beneath the site converges with the regional flow system; and,
- The existing monitoring well network is located appropriately to monitor the dynamics of these converging flow systems.

1.1.1.2 Hydraulic Gradients

Horizontal gradients measured from the water table contour lines on the shallow groundwater flow maps range from approximately 6×10^{-3} to 1×10^{-2}, and are similar to previous observations. Using historic hydraulic conductivity values, groundwater velocities at the site are high and range from about 40 to 140 ft/year.

Vertical hydraulic gradients are variable across the site (Attachment 1, Table 7) and are summarized below.

Well Nest	Vertical Gradient (over time)
OW-3R/PZ-3B	Upward
OW-5R/P-5B	Generally Downward or Flat
OW-7A/PZ-7B	Downward
OW-9/PZ-9B	Generally Flat
OW-10/PZ-10B	Variable (Equally Down, Up & Flat)
OW-11R/PZ-11B	Upward
OW-12/PZ-12B	Variable (Predominantly Up or Flat)
OW-14/PZ-14B	Downward
OW-15/PZ-15B	Flat (Negligible)
OW-16/PZ-16B	Predominantly Upward

Vertical gradients vary in direction and magnitude as groundwater moves across the Site. More of the locations have an upward or flat gradient, which reflects the river as the regional discharge point for groundwater. It appears bedrock competency also strongly influences vertical gradients at the site. Piezometer PZ-14B is completed in extremely competent bedrock and has a consistently very steep downward gradients ranging from 0.1 to 1.0. It appears the bedrock may be comparatively more competent at piezometers P-5B and PZ-7B than at other piezometers (like PZ-9B and PZ-10B, which penetrate a weathered zone before being completed in more massive bedrock). Piezometer PZ-15B is completed in sand, which reflects that the well and piezometer are screened in the same aquifer.

1.1.2 Groundwater Quality and Trends

Groundwater samples were analyzed for PAHs, benzene, and several MNA indicator parameters including dissolved iron, nitrate/nitrite, sulfate and DO. The analytical results are summarized in Attachment 1, on Tables 8, 9, and 10. Field parameters (water temperature, conductivity, pH, dissolved oxygen, and oxidation/reduction potential) are also listed in Attachment 1 on Table 10. The laboratory reports for April 2007 through March 2011 are presented in Appendix M of the RI Report Revision 1. Concentration trend plots (regression analyses) presented in the RI Report Revision 1 are included in Attachment 3.

Benzene and naphthalene concentrations in the wells and piezometers through March 2011 are summarized in Attachment 2 on Figures 28 and 29. Naphthalene is typically the PAH of concern in site groundwater, although B(a)P, benzo(b)fluoranthene, and chrysene are also present at low levels. Groundwater results indicate these PAHs continue to exceed the MCL and/or ES in select site wells (Attachment 1, Table 8).

Monitoring wells that historically exceeded the benzene and/or naphthalene screening levels are highlighted in Attachment 2 on Figure 28 and the March 2011 groundwater plumes in the water table wells are in Attachment 2 on Figures 30 and 31, respectively. Wells with lower concentrations delineate the groundwater plume to the north, south, east, and west. Downgradient to the east, benzene and naphthalene concentrations in well OW-9 have been generally stable since 2004. Further east in well OW-10, the concentrations have been varied since 2004, though concentrations have been decreasing in the last four sampling events. Concentrations only slightly exceed the benzene MCL at OW-14 and trends for both benzene and naphthalene have been decreasing since well installation. TW-2 is not impacted and defines the plume to the east.

The plume is limited at depth in the aquifer. Piezometer PZ-12B was the only location where benzene was above the MCL/ES in March 2011 (Attachment 2, Figure 29). Previously, naphthalene exceeded the ES in P-5B and PZ-7B but concentrations were below the ES in March 2011. Low concentrations in PZ-9B and PZ-10B indicate the eastward plume extent is greater near the water table than at depth.

Regression analysis plots were prepared to evaluate the relationship between groundwater concentrations, elevation, and time for monitoring wells and piezometers with either 1) elevated benzene and/or naphthalene concentrations or 2) which are located within or on the edge of the plume. A 95% confidence limit for the regression was also plotted to provide an additional indicator of correlation. Precipitation data are illustrated on additional plots for each well. The regression analysis statistics for each well/piezometer are listed in Attachment 1on Table 11 and the plots are included in Attachment 3.

Evaluating all groundwater data since 2000, monitoring wells OW-9 and OW-10 exhibit potential increasing concentration trends (however, the regression plots appear to have stabilized since 2004). Wells OW-3, OW-5, PZ-11B, PZ-12B, and OW-14 show decreasing trends for the same time period (Attachment 1, Table 11). There is no correlation between groundwater concentrations, elevations, and time at wells OW-5, OW-6, and OW-7, which are central to the former MGP facility. Possible explanations for the observed concentration trends at OW-5, OW-9, and OW-10 may be related to

deminimus MGP residuals detected along the base of the slough under the City parking lot, fluctuating groundwater levels, and/or convergence of regional and local flow systems on the eastern end of the Site.

Mann-Kendall statistical tests were completed using the January 2008 through March 2011 (the 10 most recent) benzene and naphthalene results for wells/piezometers within or on the leading edge of the plume (Attachment 3). The wells/piezometers evaluated were OW-5R, OW-6, OW-7A, OW-9, OW-10, OW-14, P-5B, PZ-7B, and PZ-12B. Benzene concentrations were stable or declining in all nine of these locations. Naphthalene concentrations eat OW-10 and P-5B exhibited non-stable trend; however, wells located downgradient from these locations exhibited stable or declining trends, and along with the regression analyses the results indicate the plume is stable and not expanding.

Contaminant transport velocity was estimated for benzene and naphthalene (Attachment 3, Table N-1) based on the groundwater flow velocity values of 40 to 140 feet/year. Contaminant transport estimate for benzene and naphthalene range from 40 to 130 feet and 10 to 30 feet per year, respectively. These transport results have been used to estimate the distance contaminates could be expected to travel over period of 60 years, which coincides with closure of the former MGP facility in the early 1950s. OW-9 was selected as the point of origin based on its historical impacts since this well was installed (Attachment 2, Figure 28). Using a groundwater flow velocity of 40 feet per year and the associated contaminant flow velocities, benzene and naphthalene were estimated to travel 2,200 and 550 feet respectively. These calculated distances indicate that benzene and naphthalene should have traveled well beyond wells OW-18 through OW-21, TW-2, and OW-15 during this time period. This evaluation of contaminant flow velocity suggests that natural attenuation mechanisms (such as biodegradation, dispersion, and dilution) are present and have restricted plume expansion over time

Many of the MNA parameters yield confounding results for site wells, which likely reflects the presence of two groundwater flow systems that converge in the vicinity of the site. Results for iron, nitrate, sulfate, and DO have been graphed along with benzene and naphthalene concentrations for wells near or within the plume (Attachment 3, MNA Plots), and the graphs indicate many of the MNA parameters fluctuate with the benzene and/or naphthalene concentrations. The MNA average results have been determined for benzene and naphthalene concentrations that are near the MDL, below the MCL/ES (5 µg/L and 100 µg/L), and above the MCL/ES (Attachment1, Table 12).

The MNA results for the shallow and deep groundwater from March 2011 are plotted in Attachment 2, on Figures 32 through 35, and they show the variability present at the site. Based on site characteristics, the

MNA result variability could be related to water quality of the river flowing into the aquifer or degradation of organics in the subsurface. It is likely a combination of the two and the regional flow system that is responsible for overall plume stability.

A summary of groundwater quality and trends evaluation indicates the following:

- The groundwater plume is well defined by the well network;
- The regression plots and Mann-Kendall statistical tests indicate generally stable or decreasing trends, especially for wells on the outside of the plume in both the shallow and deep flow systems;
- The contaminant transport assessment indicates natural attenuation mechanisms (such as biodegradation, dispersion, and dilution) have restricted plume expansion over time; and,
- The MNA geochemical indicator parameters are confounding likely due to the presence of two groundwater flow systems that converge in the vicinity of the site.

Thus, the groundwater sampling results are evidence that natural attenuation mechanisms are present and the plume is stable rather than expanding at the site regardless of contaminant concentration variability in at individual wells.

Attachments:

Attachment 1 Stevens Point RI Report Revision 1 (Tables 1, 7, 8, 9, 10, 11, and 12)

Attachment 2 Stevens Point RI Report Revision 1 (Figures 12-25, 28, 29, and 30-35)

Attachment 3 Stevens Point RI Report Revision 1 (Appendix N)

Attachment 1

Stevens Point RI Report Revision 1

(Tables 1, 7, 8, 9, 10, 11, and 12)

Table 1. Groundwater Elevation Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-1				OW-2		OW-3	
Well Depth from TOC (feet)	12.51		15.62		15.6		13.98	
Screen Length (feet)	5		5		5		5	
Surface Elevation (MSL)[A]	1085.80		1089.75		1086.65		1088.60	
Top of Casing Elevation (MSL)[A]	1088.21		1091.02		1089.55		1091.58	
Top of Screen Elevation (MSL)	1080.7		1080.4		1078.95		1082.6	
Bottom of Screen Elevation (MSL)	1075.7		1075.4		1073.95		1077.6	
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**
09/16/93	8.88	1079.33			9.42	1080.13 *	8.85	1082.73 *
08/15/96	8.94	1079.27			9.21	1080.34 *	9.49	1082.09
08/16/97	9.08	1079.13			9.35	1080.20 *	10.44	1081.14
09/03 & 04/97	9.20	1079.01	Casing added		9.46	1080.09 *	10.67	1080.91
02/26/98	9.29	1078.92	to the top of the well		9.26	1080.29 *	10.57	1081.01
06/22/99	Casing added		not measured		9.00	1080.55 *	Abandoned April 1998	
01/31/00	to the top of the well		12.87	1078.15	9.45	1080.10 *	Replaced with OW-3R	
05/31/00			13.00	1078.02	9.08	1080.47 *		
08/31/00			12.15	1078.87	9.10	1080.45 *		
11/21/00			12.82	1078.20	9.38	1080.17 *		
04/01/02			12.33	1078.69	9.06	1080.49 *		
07/22/02			12.05	1078.97	9.05	1080.50 *		
10/28/02			11.95	1079.07	9.00	1080.55 *		
06/16/03			11.76	1079.26	8.68	1080.87 *		
11/20/03			12.33	1078.69	9.06	1080.49 *		
04/20/04			12.18	1078.84	8.90	1080.65 *		
07/20/04			11.68	1079.34	8.78	1080.77 *		
10/12/04			12.31	1078.71	9.09	1080.46 *		
01/25/05			12.43	1078.59	9.10	1080.45 *		
04/11/05			12.31	1078.71	8.90	1080.65 *		
07/11/05			12.33	1078.69	8.91	1080.64 *		
10/03/05			12.15	1078.87	8.92	1080.63 *		
01/05/06			12.51	1078.51	9.11	1080.44 *		
04/11/06			12.42	1078.60	8.91	1080.64 *		
07/21/06			13.10	1077.92	9.06	1080.49 *		
10/04/06			12.38	1078.64	9.08	1080.47 *		
2/22/2007			12.62	1078.40	9.2	1080.35 *		
4/19/2007			12.27	1078.75	8.88	1080.67 *		
7/19/2007			12.43	1078.59	8.95	1080.60 *		
10/22/2007			12.18	1078.84	8.88	1080.67 *		
1/14/2008			12.48	1078.54	9.12	1080.43 *		
4/28/2008			11.69	1079.33	8.56	1080.99 *		
8/12/2008			12.10	1078.92	9.00	1080.55 *		
10/29/2008			12.44	1078.58	9.05	1080.50 *		
04/13/09			12.60	1078.42	8.94	1080.61 *		
10/5/2009			12.43	1078.59	8.97	1080.58 *		
4/13/2010			12.39	1078.63	8.88	1080.67 *		
10/20/2010			11.85	1079.17	8.92	1080.63 *		
1/18/2011			12.41	1078.61	9.10	1080.45 *		
3/16/2011			12.13	1078.89	8.9	1080.65 *		

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Well Data	OW-3R		PZ-3B		OW-4		OW-5	
Well Depth from TOC (feet)	17.21		41.76		16.98		22.51	
Screen Length (feet)	10		5		10		10	
Surface Elevation (MSL)[A]	1088.20		1088.20		1086.65		1085.50	
Top of Casing Elevation (MSL)[A]	1090.54		1090.85		1090.05		1088.39	
Top of Screen Elevation (MSL)	1083.3		1054.1		1083.1		1075.9	
Bottom of Screen Elevation (MSL)	1073.3		1049.1		1073.1		1065.9	
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**
09/16/93			Constructed in 1996		9.56	1080.49	8.88	1079.51 *
08/15/96			9.74	1081.11 *	9.89	1080.16	8.93	1079.46 *
08/16/97			9.76	1081.09 *	9.86	1080.19	9.03	1079.36 *
09/03 & 04/97			9.87	1080.98 *	9.96	1080.09	9.14	1079.25 *
02/26/98			10.79	1080.06 *	9.66	1080.39	9.31	1079.08 *
06/22/99	Constructed January 2000		9.74	1081.11 *	9.88	1080.17	Abandoned April 1998	
01/31/00	9.97	1080.57	10.18	1080.67 *	10.04	1080.01	Well Was Not Replaced	
05/31/00	9.75	1080.79	9.91	1080.94 *	9.95	1080.10		
08/31/00	9.68	1080.86	9.78	1081.07 *	9.92	1080.13		
11/21/00	9.32	1081.22	10.71	1080.14 *	10.04	1080.01		
04/01/02	9.69	1080.85	9.92	1080.93 *	9.81	1080.24		
07/22/02	9.72	1080.82	9.90	1080.95 *	9.90	1080.15		
10/28/02	9.65	1080.89	9.90	1080.95 *	9.85	1080.20		
06/16/03	9.48	1081.06	9.76	1081.09 *	9.66	1080.39		
11/20/03	9.76	1080.78	10.08	1080.77 *	10.83	1079.22		
04/20/04	9.71	1080.83	9.92	1080.93 *	9.80	1080.25		
07/20/04	9.54	1081.00	9.71	1081.14 *	9.78	1080.27		
10/12/04	9.89	1080.65	10.01	1080.84 *	10.10	1079.95		
01/25/05	9.91	1080.63	10.11	1080.74 *	10.02	1080.03		
04/11/05	9.71	1080.83	9.70	1081.15 *	9.84	1080.21		
07/11/05	9.89	1080.65	10.09	1080.76 *	10.19	1079.86		
10/03/05	9.67	1080.87	9.87	1080.98 *	9.89	1080.16		
01/05/06	9.86	1080.68	10.04	1080.81 *	9.88	1080.17		
04/11/06	9.75	1080.79	9.99	1080.86 *	9.82	1080.23		
07/21/06	10.00	1080.54	10.13	1080.72 *	10.17	1079.88		
10/04/06	10.10	1080.44	9.94	1080.91 *	10.00	1080.05		
2/22/2007	10.02	1080.52	10.17	1080.68 *	10.03	1080.02		
4/19/2007	9.83	1080.71	10.03	1080.82 *	9.88	1080.17		
7/19/2007	10.03	1080.51	10.15	1080.70 *	10.25	1079.80		
10/22/2007	9.70	1080.84	9.90	1080.95 *	9.89	1080.16		
1/14/2008	9.99	1080.55	10.11	1080.74 *	10.02	1080.03		
4/28/2008	9.45	1081.09	9.72	1081.13 *	9.52	1080.53		
8/12/2008	9.85	1080.69	9.95	1080.90 *	10.05	1080.00		
10/29/2008	9.90	1080.64	10.01	1080.84 *	10.09	1079.96		
04/13/09	9.80	1080.74	10.05	1080.80 *	9.88	1080.17		
10/05/09	9.98	1080.56	10.13	1080.72 *	10.22	1079.83		
04/13/10	9.93	1080.61	10.11	1080.74 *	10.08	1079.97		
10/19/2010	9.68	1080.86	9.84	1081.01 *	9.88	1080.17		
01/18/11	9.86	1080.68	10.12	1080.73 *	10.01	1080.04		
03/16/11	9.75	1080.79	10.08	1080.77 *	9.86	1080.19		

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USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-5A		OW-5R		P-5B		OW-6	
Well Depth from TOC (feet)	18.14		16.35		48.78		18.04	
Screen Length (feet)	10		10		5		10	
Surface Elevation (MSL)[A]	1085.50		1086.54		1086.54		1084.48	
Top of Casing Elevation (MSL)[A]	1088.39		1089.15		1088.20		1087.56	
Top of Screen Elevation (MSL)	1080.3		1082.8		1044.4		1079.5	
Bottom of Screen Elevation (MSL)	1070.3		1072.8		1039.4		1069.5	
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**
09/16/93	8.88	1079.51			8.73	1079.47 *	6.99	1080.57 *
08/15/96	8.93	1079.46			8.76	1079.44 *	7.10	1080.46 *
08/16/97	9.03	1079.36			8.88	1079.32 *	7.16	1080.40 *
09/03 & 04/97	9.14	1079.25			8.99	1079.21 *	7.19	1080.37 *
02/26/98	9.31	1079.08			9.22	1078.98 *	7.36	1080.20 *
06/22/99	Abandoned April 1998		Constructed January 2000		9.00	1079.20 *	7.10	1080.46 *
01/31/00	Replaced with OW-5R		10.60	1078.55	9.70	1078.50 *	7.71	1079.85 *
05/31/00			9.92	1079.23	9.32	1078.88 *	7.41	1080.15 *
08/31/00			9.73	1079.42	8.97	1079.23 *	7.15	1080.41 *
11/21/00			10.19	1078.96	9.30	1078.90 *	7.44	1080.12 *
04/01/02			10.16	1078.99	9.33	1078.87 *	7.47	1080.09 *
07/22/02			9.75	1079.40	9.00	1079.20 *	7.18	1080.38 *
10/28/02			9.62	1079.53	8.85	1079.35 *	7.10	1080.46 *
06/16/03			9.28	1079.87	9.85	1078.35 *	6.97	1080.59 *
11/20/03			10.04	1079.11	9.26	1078.94 *	7.39	1080.17 *
04/20/04			--	-- *	--	--	--	-- *
07/20/04			9.48	1079.67	8.62	1079.58 *	6.90	1080.66 *
10/12/04			10.02	1079.13	9.06	1079.14 *	7.25	1080.31 *
01/25/05			10.15	1079.00	9.33	1078.87 *	7.44	1080.12 *
04/11/05			9.95	1079.20	9.24	1078.96 *	7.37	1080.19 *
07/11/05			10.01	1079.14	9.16	1079.04 *	7.30	1080.26 *
10/03/05			9.67	1079.48	8.97	1079.23 *	7.13	1080.43 *
01/05/06			10.18	1078.97	9.38	1078.82 *	7.49	1080.07 *
04/11/06			10.11	1079.04	9.36	1078.84 *	7.47	1080.09 *
07/21/06			10.23	1078.92	9.28	1078.92 *	7.38	1080.18 *
10/04/06			10.19	1078.96	9.27	1078.93 *	7.41	1080.15 *
2/22/2007			10.33	1078.82	9.28	1078.92 *	7.58	1079.98 *
4/19/2007			9.9	1079.25	9.27	1078.93 *	7.36	1080.20 *
7/19/2007			10.22	1078.93	9.23	1078.97 *	7.38	1080.18 *
10/22/2007			10.02	1079.13	9.05	1079.15 *	7.18	1080.38 *
1/14/2008			--	---	9.35	1078.85 *	7.50	1080.06 *
4/28/2008			9.29	1079.86	8.62	1079.58 *	7.07	1080.49 *
8/12/2008			9.97	1079.18	9.00	1079.20 *	7.20	1080.36 *
10/29/2008			10.18	1078.97	9.23	1078.97 *	7.33	1080.23 *
04/13/09			9.96	1079.19	9.25	1078.95 *	7.37	1080.19
10/05/09			10.18	1078.97	9.24	1078.96 *	7.33	1080.23
04/13/10			10.08	1079.07	9.25	1078.95 *	7.40	1080.16
10/20/2010			9.62	1079.53	8.71	1079.49 *	7.02	1080.54
1/18/2011			9.88	1079.27	9.1	1079.10 *	7.29	1080.27
03/16/11			9.6	1079.55	9.21	1078.99 *	7.34	1080.22

Table 1. Groundwater Elevation Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-7A		OW-7		PZ-7B		OW-8	
Well Depth from TOC (feet)	18.15		27.1		43.17		17.62	
Screen Length (feet)	10		10		5		10	
Surface Elevation (MSL)[A]	1085.39		1085.60		1085.39		1089.70	
Top of Casing Elevation (MSL)[A]	1088.65		1088.46		1086.51		1092.13	
Top of Screen Elevation (MSL)	1080.5		1071.4		1048.3		1084.5	
Bottom of Screen Elevation (MSL)	1070.5		1061.4		1043.3		1074.5	
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**
09/16/93	8.94	1079.71	7.84	1080.62 *	Constructed in 1996		12.54	1079.59
08/15/96	8.73	1079.92	7.93	1080.53 *	8.12	1078.39 *	12.60	1079.53
08/16/97	8.80	1079.85	8.04	1080.42 *	8.35	1078.16 *	12.68	1079.45
09/03 & 04/97	8.90	1079.75	8.11	1080.35 *	8.47	1078.04 *	12.81	1079.32
02/26/98	8.75	1079.90	8.36	1080.10 *	8.71	1077.80 *	13.17	1078.96
06/22/99	8.25	1080.40	Abandoned April 1998		6.88	1079.63 *	12.87	1079.26
01/31/00	8.63	1080.02	Well Was Not Replaced		7.56	1078.95 *	13.72	1078.41
05/31/00	8.35	1080.30			7.22	1079.29 *	13.34	1078.79
08/31/00	8.35	1080.30			6.89	1079.62 *	12.90	1079.23
11/21/00	8.50	1080.15			7.22	1079.29 *	13.30	1078.83
04/01/02	8.35	1080.30			7.29	1079.22 *	13.42	1078.71
07/22/02	8.33	1080.32			6.88	1079.63 *	12.90	1079.23
10/28/02	8.30	1080.35			6.80	1079.71 *	12.80	1079.33
06/16/03	8.31	1080.34			6.79	1079.72 *	12.82	1079.31
11/20/03	8.28	1080.37			7.20	1079.31 *	13.31	1078.82
04/20/04	8.24	1080.41			7.15	1079.36 *	13.19	1078.94
07/20/04	8.21	1080.44			6.50	1080.01 *	12.37	1079.76
10/12/04	8.30	1080.35			7.02	1079.49 *	12.96	1079.17
01/25/05	8.40	1080.25			7.28	1079.23 *	13.29	1078.84
04/11/05	8.24	1080.41			7.20	1079.31 *	13.27	1078.86
07/11/05	8.29	1080.36			7.10	1079.41 *	13.06	1079.07
10/03/05	8.23	1080.42			6.92	1079.59 *	12.91	1079.22
01/05/06	8.41	1080.24			7.31	1079.20 *	13.26	1078.87
04/11/06	8.31	1080.34			7.30	1079.21 *	13.38	1078.75
07/21/06	8.35	1080.30			7.22	1079.29 *	13.30	1078.83
10/04/06	8.40	1080.25			7.21	1079.30 *	13.19	1078.94
2/22/2007	8.4	1080.25			7.42	1079.09 *	13.49	1078.64
4/19/2007	8.48	1080.17			7.18	1079.33 *	13.19	1078.94
7/19/2007	8.35	1080.30			7.15	1079.36 *	13.10	1079.03
10/22/2007	8.22	1080.43			6.99	1079.52 *	12.95	1079.18
1/14/2008	8.43	1080.22			7.33	1079.18 *	13.30	1078.83
4/28/2008	8.13	1080.52 *			6.62	1079.89 *	12.54	1079.59
8/12/2008	8.33	1080.32			6.96	1079.55 *	12.88	1079.25
10/29/2008	8.36	1080.29			7.11	1079.40 *	13.12	1079.01
04/13/09	8.26	1080.39			7.21	1079.30 *	nm	---
10/05/09	8.38	1080.27			7.13	1079.38 *	nm	---
04/13/10	8.28	1080.37			7.21	1079.30 *	13.20	1078.93
10/19/2010	8.26	1080.39			6.68	1079.83 *	12.58	1079.55
1/18/2011	8.4	1080.25			6.95	1079.56 *	12.85	1079.28
03/16/11	8.23	1080.42			7.12	1079.39 *	13.2	1078.93

Table 1. Groundwater Elevation Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-9		PZ-9B		OW-10		PZ-10B	
Well Depth from TOC (feet)	21.18		53.65		21.3		53.3	
Screen Length (feet)	10		5		10		5	
Surface Elevation (MSL)[A]	1088.33		1088.33		1088.41		1088.41	
Top of Casing Elevation (MSL)[A]	1090.92		1090.85		1090.95		1090.99	
Top of Screen Elevation (MSL)	1079.7		1042.2		1079.7		1042.7	
Bottom of Screen Elevation (MSL)	1069.7		1037.2		1069.7		1037.7	
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**
08/16/97	Constructed August 1997		Constructed August 1997		Constructed August 1997		Constructed August 1997	
09/03 & 04/97	12.25	1078.67	12.17	1078.68 *	12.30	1078.65	12.44	1078.55 *
02/26/98	12.37	1078.55	12.37	1078.48 *	12.55	1078.40	12.51	1078.48 *
06/22/99	12.24	1078.68	12.25	1078.60 *	12.38	1078.57	13.14	1077.85 *
01/31/00	12.85	1078.07	12.85	1078.00 *	13.05	1077.90	12.95	1078.04 *
05/31/00	12.55	1078.37	12.47	1078.38 *	12.63	1078.32	12.70	1078.29 *
08/31/00	12.98	1077.94	12.08	1078.77 *	11.26	1079.69 *	11.29	1079.70 *
11/21/00	12.51	1078.41	12.43	1078.42 *	12.60	1078.35	12.64	1078.35 *
04/01/02	12.42	1078.50	12.36	1078.49 *	12.44	1078.51	12.54	1078.45 *
07/22/02	12.20	1078.72	12.10	1078.75 *	12.28	1078.67	12.16	1078.83 *
10/28/02	12.00	1078.92	11.90	1078.95 *	12.10	1078.85	12.12	1078.87 *
06/16/03	11.92	1079.00	11.87	1078.98 *	11.97	1078.98	12.20	1078.79 *
11/20/03	12.28	1078.64	12.30	1078.55 *	12.40	1078.55	12.48	1078.51 *
04/20/04	12.17	1078.75	12.15	1078.70 *	12.21	1078.74	12.36	1078.63 *
07/20/04	12.79	1078.13	12.70	1078.15 *	11.94	1079.01	11.77	1079.22 *
10/12/04	12.28	1078.64	12.23	1078.62 *	12.43	1078.52	12.23	1078.76 *
01/25/05	12.44	1078.48	12.41	1078.44 *	12.72	1078.23	12.43	1078.56 *
04/12/05	12.33	1078.59	12.32	1078.53 *	12.34	1078.61	12.55	1078.44 *
07/11/05	12.32	1078.60	12.27	1078.58 *	12.38	1078.57	12.64	1078.35 *
10/03/05	12.16	1078.76	12.05	1078.80 *	12.30	1078.65	12.39	1078.60 *
01/05/06	12.49	1078.43	12.38	1078.47 *	12.49	1078.46	12.80	1078.19 *
04/11/06	12.41	1078.51	12.39	1078.46 *	12.55	1078.40	12.59	1078.40 *
07/21/06	12.41	1078.51	12.38	1078.47 *	12.61	1078.34	12.68	1078.31 *
10/04/06	12.37	1078.55	12.35	1078.50 *	12.52	1078.43	12.51	1078.48 *
2/22/2007	12.54	1078.38	12.56	1078.29 *	12.71	1078.24	12.27	1078.72 *
4/19/2007	12.30	1078.62	12.30	1078.55 *	12.33	1078.62	12.97	1078.02 *
7/19/2007	12.40	1078.52	12.38	1078.47 *	12.55	1078.40	12.34	1078.65
10/22/2007	12.16	1078.76	12.10	1078.75 *	12.28	1078.67	12.50	1078.49
1/14/2008	12.40	1078.52	12.48	1078.37 *	12.58	1078.37	12.67	1078.32
4/28/2008	11.80	1079.12	11.68	1079.17 *	11.70	1079.25	12.30	1078.69
8/12/2008	12.18	1078.74	12.15	1078.70 *	12.54	1078.41	12.25	1078.74
10/29/2008	12.38	1078.54	12.36	1078.49 *	12.57	1078.38	12.41	1078.58
04/13/09	12.35	1078.57	12.29	1078.56 *	12.47	1078.48	12.30	1078.69
10/05/09	12.40	1078.52	12.36	1078.49 *	12.51	1078.44	12.42	1078.57
04/13/10	12.35	1078.57	12.31	1078.54 *	12.41	1078.54	12.49	1078.50
10/19/10	11.84	1079.08	11.77	1079.08 *	11.85	1079.10	11.89	1079.1
01/18/11	12.13	1078.79	12.05	1078.80 *	12.22	1078.73	12.22	1078.77
03/16/11	12.14	1078.78	12.15	1078.70 *	12.25	1078.70	12.63	1078.36

Table 1. Groundwater Elevation Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-11		PZ-11B		OW-12[A]		PZ-12B[A]	
Well Depth from TOC (feet)	16.07		51.42		18.35		43.8	
Screen Length (feet)	10		5		10		5	
Surface Elevation (MSL)[A]	1091.51		1091.51		1090.23		1090.23	
Top of Casing Elevation (MSL)[A]	1094.09		1093.73		1089.98		1089.93	
Top of Screen Elevation (MSL)	1088.0		1047.3		1081.6		1051.1	
Bottom of Screen Elevation (MSL)	1078.0		1042.3		1071.6		1046.1	
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**
06/22/99	Constructed January 2000		Constructed January 2000		Constructed September 2004		Constructed September 2004	
01/31/00	16.07	1078.02	15.43	1078.30 *				
05/31/00	15.76	1078.33	14.95	1078.78 *				
08/31/00	14.25	1079.84	14.60	1079.13 *				
11/21/00	15.71	1078.38	14.91	1078.82 *				
04/01/02	15.82	1078.27	14.94	1078.79 *				
07/22/02	15.23	1078.86	14.53	1079.20 *				
10/28/02	15.05	1079.04	14.40	1079.33 *				
06/16/03	15.20	1078.89	14.39	1079.34 *				
11/20/03	15.70	1078.39	14.88	1078.85 *				
04/20/04	15.54	1078.55	14.75	1078.98 *				
07/20/04	14.65	1079.44	14.13	1079.60 *				
10/12/04	15.30	1078.79	14.71	1079.02 *	11.42	1078.56	11.36	1078.57 *
01/25/05	15.70	1078.39	14.95	1078.78 *	11.56	1078.42	11.69	1078.24 *
4/11 & 12/05	15.61	1078.48	14.88	1078.85 *	11.87	1078.11	11.79	1078.14 *
07/11/05	15.41	1078.68	14.77	1078.96 *	11.60	1078.38	11.51	1078.42 *
10/03/05	15.26	1078.83	14.59	1079.14 *	11.43	1078.55	11.40	1078.53 *
01/05/06	15.56	1078.53	14.90	1078.83 *	11.68	1078.30	11.59	1078.34 *
04/11/06	16.73	1077.36	14.98	1078.75 *	11.88	1078.10	11.96	1077.97 *
07/21/06	15.55	1078.54	15.01	1078.72 *	11.74	1078.24	11.62	1078.31 *
10/04/06	15.54	1078.55	14.90	1078.83 *	11.75	1078.23	11.65	1078.28 *
2/22/2007	15.86	1078.23	15.02	1078.71 *	12.04	1077.94	11.68	1078.25 *
4/19/2007	15.56	1078.53	14.83	1078.90 *	11.73	1078.25	11.66	1078.27 *
7/19/2007	15.44	1078.65	14.70	1079.03 *	11.61	1078.37	11.54	1078.39 *
10/22/2007	15.30	1078.79	14.68	1079.05 *	11.45	1078.53	11.35	1078.58 *
1/14/2008	15.68	1078.41	14.83	1078.90 *	11.61	1078.37	11.87	1078.06 *
4/28/2008	14.87	1079.22	14.20	1079.53 *	11.00	1078.98	10.88	1079.05 *
8/12/2008	15.20	1078.89	14.60	1079.13 *	11.35	1078.63	11.25	1078.68 *
10/29/2008	15.49	1078.60	14.86	1078.87 *	11.66	1078.32	11.55	1078.38 *
04/13/09	15.67	1078.42	14.90	1078.83 *	11.88	1078.10	11.69	1078.24 *
10/05/09	15.51	1078.58	14.86	1078.87 *	11.70	1078.28	11.45	1078.48 *
04/13/10	15.59	1078.50	14.89	1078.84 *	11.86	1078.12	11.59	1078.34 *
10/19/10	14.89	1079.20	14.30	1079.43 *	11.02	1078.96	10.94	1078.99 *
01/18/11	15.26	1078.83	14.67	1079.06 *	11.30	1078.68	11.18	1078.75 *
03/16/11	15.59	1078.50	14.63	1079.10 *	11.71	1078.27	11.57	1078.36 *

Table 1. Groundwater Elevation Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	PZ-13[A]		OW-14		PZ-14B		OW-15	
Well Depth from TOC (feet)	45.55		17.76		47.94		17.2	
Screen Length (feet)	5		10		5		10	
Surface Elevation (MSL)[A]	1090.75		1089.64		1089.64		1091.15	
Top of Casing Elevation (MSL)[A]	1090.40		1089.04		1089.35		1090.94	
Top of Screen Elevation (MSL)	1049.9		1081.3		1046.4		1083.7	
Bottom of Screen Elevation (MSL)	1044.9		1071.3		1041.4		1073.7	
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**
10/12/04	11.63	1078.77 *	Constructed July 2007		Constructed July 2007		Constructed July 2007	
01/25/05	12.11	1078.29 *						
04/11/05	12.05	1078.35 *						
07/11/05	11.78	1078.62 *						
10/03/05	11.55	1078.85 *						
01/05/06	11.95	1078.45 *						
04/11/06	12.19	1078.21 *						
07/21/06	12.04	1078.36 *						
10/04/06	11.89	1078.51 *						
2/22/2007	12.31	1078.09 *						
4/19/2007	11.96	1078.44 *						
7/19/2007	11.84	1078.56 *	10.96	1078.08	46.89	1042.46	12.96	1077.98
10/22/2007	11.67	1078.73 *	10.72	1078.32	43.9	1045.45	12.75	1078.19
1/14/2008	12.10	1078.3 *	nm	---	nm	---	13.13	1077.81
4/28/2008	11.20	1079.20 *	10.22	1078.82	31.79	1057.56	12.25	1078.69
8/12/2008	11.68	1078.72 *	10.63	1078.41	30.97	1058.38	12.6	1078.34
10/29/2008	11.95	1078.45 *	10.97	1078.07	31.55	1057.80	12.98	1077.96
04/13/09	11.94	1078.46 *	11.08	1077.96	20.45	1068.90	13.18	1077.76
10/05/09	11.7	1078.70 *	10.96	1078.08	32.13	1057.22	13.00	1077.94
04/14/10	11.96	1078.44 *	11.02	1078.02	24.70	1064.65	13.01	1077.93
10/20/10	11.32	1079.08 *	10.23	1078.81	20.7	1068.65	12.28	1078.66
01/18/11	11.59	1078.81 *	10.56	1078.48	18.65	1070.70	12.50	1078.44
03/16/11	11.97	1078.43 *	10.91	1078.13	21.78	1067.57	13.02	1077.92

Table 1. Groundwater Elevation Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	PZ-15B		OW-16		PZ-16B		OW-17	
Well Depth from TOC (feet)	47.4		13.4		45.5		13.25	
Screen Length (feet)	5		10		5		10	
Surface Elevation (MSL)[A]	1091.15		1088.61		1088.61		1089.47	
Top of Casing Elevation (MSL)[A]	1090.89		1088.44		1088.11		1089.40	
Top of Screen Elevation (MSL)	1048.5		1085.0		1047.6		1086.2	
Bottom of Screen Elevation (MSL)	1043.5		1075.0		1042.6		1076.2	
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**
	Constructed July 2007		Constructed July 2007		Constructed July 2007		Constructed July 2007	
07/19/07	12.88	1078.01 *	7.33	1081.11	6.83	1081.28 *	3.03	1086.37 *
10/22/2007	12.68	1078.21 *	7.20	1081.24	6.58	1081.53 *	3.12	1086.28 *
1/14/2008	13.06	1077.83 *	7.62	1080.82	7.60	1080.51 *	3.26	1086.14
4/28/2008	12.21	1078.68	7.14	1081.30	6.67	1081.44 *	3.00	1086.40 *
8/12/2008	12.52	1078.37	7.21	1081.23	6.71	1081.40 *	3.13	1086.27 *
10/29/2008	12.90	1077.99	7.28	1081.16	6.72	1081.39 *	3.25	1086.15
04/13/09	13.12	1077.77	7.52	1080.92	7.05	1081.06 *	2.98	1086.42 *
10/05/09	12.94	1077.95	7.28	1081.16	6.75	1081.36 *	3.19	1086.21 *
04/14/10	13.01	1077.88	6.86	1081.58	6.99	1081.12 *	2.89	1086.51 *
10/20/10	12.21	1078.68	5.67	1082.77	6.59	1081.52 *	3.38	1086.02
01/18/11	12.41	1078.48	7.3	1081.14	6.91	1081.20 *	3.23	1086.17 *
03/16/11	12.95	1077.94	7.52	1080.92	7.12	1080.99 *	3.13	1086.27 *

Well Data	OW-18		OW-19		OW-20		OW-21	
Well Depth from TOC (feet)	19.5		19.5		19.5		19.5	
Screen Length (feet)	10		10		10		10	
Surface Elevation (MSL)[A]	1091.889		1091.163		1091.809		1091.282	
Top of Casing Elevation (MSL)[A]	1091.357		1090.817		1091.282		1091.03	
Top of Screen Elevation (MSL)	1081.9		1081.3		1081.8		1081.5	
Bottom of Screen Elevation (MSL)	1071.9		1071.3		1071.8		1071.5	
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**
	Constructed January 2011		Constructed January 2011		Constructed January 2011		Constructed January 2011 #	
01/18/11	13.31	1078.05 *	12.71	1078.11	13.35	1077.93 *	13.11	1077.92
3/16/2011	14.85	1076.51	13.19	1077.63	13.93	1077.35	13.74	1077.29

Table 1. Groundwater Elevation Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	TW-1		TW-2	
Well Depth from TOC (feet)	20		15	
Screen Length (feet)	10		10	
Surface Elevation (MSL)[A]	1091.95		1087.79	
Top of Casing Elevation (MSL)[A]	1091.52		1087.18	
Top of Screen Elevation (MSL)	1081.5		1082.2	
Bottom of Screen Elevation (MSL)	1071.5		1072.2	
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**
	Constructed October 2008		Constructed October 2008	
10/29/08	14.91	1076.61 *	9.20	1077.98
04/13/09	15.34	1076.18 *	9.30	1077.88
10/05/09	15.01	1076.51 *	9.20	1077.98
04/14/10	15.05	1076.47 *	9.18	1078.00
10/20/10	13.99	1077.53 *	8.43	1078.75
01/18/11	14.46	1077.06 *	8.74	1078.44
03/16/11	14.99	1076.53 *	9.10	1078.08

[U-EPK/JTB 1/05][U-EPK/PAR 5/05][U-PAR/RLH 8/05][U-EPK/PAR 6/06][U-RFS/KJB 11/10]

TOC : Top of PVC well casing

OW : Water table monitoring well

--: Not measured

Water level stopped functioning during field activities on 4/20/04.

* : Water level elevation above top of screen elevation

P/PZ : Piezometer

MSL: Elevations are referenced to feet above Mean Sea Level

A: Elevations for all the site wells were re-surveyed on June 6 and 7, 2007 for previously existing wells and on August 15, 2007 for new wells by WPSC personnel.

Table 7. Groundwater Vertical Gradient Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-3R	PZ-3B
Well Depth from TOC (feet)	17.21	41.76
Screen Length (feet)	10	5
Surface Elevation (MSL)[A]	1088.20	1088.20
Top of Casing Elevation (MSL)[A]	1090.54	1090.85
Top of Screen Elevation (MSL)	1083.3	1054.1
Bottom of Screen Elevation (MSL)	1073.3	1049.1

Middle of screen elevation (piez.)	1051.6

Date	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Head Change (dH)	Dist. Change (dL)	Vertical Hydraulic Gradient (dH/dL)*	
04/20/04	9.71	1080.83	9.92	1080.93	-0.10	29.24	-3.4E-03	up
07/20/04	9.54	1081.00	9.71	1081.14	-0.14	29.41	-4.8E-03	up
10/12/04	9.89	1080.65	10.01	1080.84	-0.19	29.06	-6.5E-03	up
01/25/05	9.91	1080.63	10.11	1080.74	-0.11	29.04	-3.8E-03	up
04/11/05	9.71	1080.83	9.70	1081.15	-0.32	29.24	-1.1E-02	up
07/11/05	9.89	1080.65	10.09	1080.76	-0.11	29.06	-3.8E-03	up
10/03/05	9.67	1080.87	9.87	1080.98	-0.11	29.28	-3.8E-03	up
01/05/06	9.86	1080.68	10.04	1080.81	-0.13	29.09	-4.5E-03	up
04/11/06	9.75	1080.79	9.99	1080.86	-0.07	29.20	-2.4E-03	up
07/21/06	10.00	1080.54	10.13	1080.72	-0.18	28.95	-6.2E-03	up
10/04/06	10.10	1080.44	9.94	1080.91	-0.47	28.85	-1.6E-02	up
2/22/2007	10.02	1080.52	10.17	1080.68	-0.16	28.93	-5.5E-03	up
4/19/2007	9.83	1080.71	10.03	1080.82	-0.11	29.12	-3.8E-03	up
7/19/2007	10.03	1080.51	10.15	1080.70	-0.19	28.92	-6.6E-03	up
10/22/2007	9.70	1080.84	9.90	1080.95	-0.11	29.25	-3.8E-03	up
1/14/2008	9.99	1080.55	10.11	1080.74	-0.19	28.96	-6.6E-03	up
4/28/2008	9.45	1081.09	9.72	1081.13	-0.04	29.50	-1.4E-03	flat
8/12/2008	9.85	1080.69	9.95	1080.90	-0.21	29.10	-7.2E-03	up
10/29/2008	9.90	1080.64	10.01	1080.84	-0.20	29.05	-6.9E-03	up
04/13/09	9.80	1080.74	10.05	1080.80	-0.06	29.15	-2.1E-03	up
10/05/09	9.98	1080.56	10.13	1080.72	-0.16	28.97	-5.5E-03	up
04/13/10	9.93	1080.61	10.11	1080.74	-0.13	29.02	-4.5E-03	up
10/19/2010	9.68	1080.86	9.84	1081.01	-0.15	29.27	-5.1E-03	up
01/18/11	9.86	1080.68	10.12	1080.73	-0.05	29.09	-1.7E-03	up
03/16/11	9.75	1080.79	10.08	1080.77	0.02	29.20	6.8E-04	flat

Table 7. Groundwater Vertical Gradient Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-5R	P-5B
Well Depth from TOC (feet)	16.35	48.78
Screen Length (feet)	10	5
Surface Elevation (MSL)[A]	1086.54	1086.54
Top of Casing Elevation (MSL)[A]	1089.15	1088.20
Top of Screen Elevation (MSL)	1082.8	1044.4
Bottom of Screen Elevation (MSL)	1072.8	1039.4

Middle of screen elevation (piez.)	1041.9

Date	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Head Change (dH)	Dist. Change (dL)	Vertical Hydraulic Gradient (dH/dL)*	
04/20/04	--	--	--	--	---	---	---	---
07/20/04	9.48	1079.67	8.62	1079.58	0.09	37.75	2.4E-03	down
10/12/04	10.02	1079.13	9.06	1079.14	-0.01	37.21	-2.7E-04	flat
01/25/05	10.15	1079.00	9.33	1078.87	0.13	37.08	3.5E-03	down
04/11/05	9.95	1079.20	9.24	1078.96	0.24	37.28	6.4E-03	down
07/11/05	10.01	1079.14	9.16	1079.04	0.10	37.22	2.7E-03	down
10/03/05	9.67	1079.48	8.97	1079.23	0.25	37.56	6.7E-03	down
01/05/06	10.18	1078.97	9.38	1078.82	0.15	37.05	4.0E-03	down
04/11/06	10.11	1079.04	9.36	1078.84	0.20	37.12	5.4E-03	down
07/21/06	10.23	1078.92	9.28	1078.92	0.00	37.00	0.0E+00	flat
10/04/06	10.19	1078.96	9.27	1078.93	0.03	37.04	8.1E-04	flat
2/22/2007	10.33	1078.82	9.28	1078.92	-0.10	36.90	-2.7E-03	up
4/19/2007	9.9	1079.25	9.27	1078.93	0.32	37.33	8.6E-03	down
7/19/2007	10.22	1078.93	9.23	1078.97	-0.04	37.01	-1.1E-03	flat
10/22/2007	10.02	1079.13	9.05	1079.15	-0.02	37.21	-5.4E-04	flat
1/14/2008	nm	---	9.35	1078.85	---	---	---	flat
4/28/2008	9.29	1079.86	8.62	1079.58	0.28	37.94	7.4E-03	down
8/12/2008	9.97	1079.18	9.00	1079.20	-0.02	37.26	-5.4E-04	flat
10/29/2008	10.18	1078.97	9.23	1078.97	0.00	37.05	0.0E+00	flat
04/13/09	9.96	1079.19	9.25	1078.95	0.24	37.27	6.4E-03	down
10/05/09	10.18	1078.97	9.24	1078.96	0.01	37.05	2.7E-04	flat
04/13/10	10.08	1079.07	9.25	1078.95	0.12	37.15	3.2E-03	down
10/20/2010	9.62	1079.53	8.71	1079.49	0.04	37.61	1.1E-03	flat
1/18/2011	9.88	1079.27	9.1	1079.10	0.17	37.35	4.6E-03	down
03/16/11	9.6	1079.55	9.21	1078.99	0.56	37.63	1.5E-02	down

Table 7. Groundwater Vertical Gradient Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-7A	PZ-7B[A]
Well Depth from TOC (feet)	18.15	43.17
Screen Length (feet)	10	5
Surface Elevation (MSL)[A]	1085.39	1085.39
Top of Casing Elevation (MSL)[A]	1088.65	1086.51
Top of Screen Elevation (MSL)	1080.5	1048.3
Bottom of Screen Elevation (MSL)	1070.5	1043.3

Middle of screen elevation (piez.)	1045.8

Date	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Head Change (dH)	Dist. Change (dL)	Vertical Hydraulic Gradient (dH/dL)*	
04/20/04	8.24	1080.41	7.15	1079.36	1.05	34.57	3.0E-02	down
07/20/04	8.21	1080.44	6.50	1080.01	0.43	34.60	1.2E-02	down
10/12/04	8.30	1080.35	7.02	1079.49	0.86	34.51	2.5E-02	down
01/25/05	8.40	1080.25	7.28	1079.23	1.02	34.41	3.0E-02	down
04/11/05	8.24	1080.41	7.20	1079.31	1.10	34.57	3.2E-02	down
07/11/05	8.29	1080.36	7.10	1079.41	0.95	34.52	2.8E-02	down
10/03/05	8.23	1080.42	6.92	1079.59	0.83	34.58	2.4E-02	down
01/05/06	8.41	1080.24	7.31	1079.20	1.04	34.40	3.0E-02	down
04/11/06	8.31	1080.34	7.30	1079.21	1.13	34.50	3.3E-02	down
07/21/06	8.35	1080.30	7.22	1079.29	1.01	34.46	2.9E-02	down
10/04/06	8.40	1080.25	7.21	1079.30	0.95	34.41	2.8E-02	down
2/22/2007	8.4	1080.25	7.42	1079.09	1.16	34.41	3.4E-02	down
4/19/2007	8.48	1080.17	7.18	1079.33	0.84	34.33	2.4E-02	down
7/19/2007	8.35	1080.30	7.15	1079.36	0.94	34.46	2.7E-02	down
10/22/2007	8.22	1080.43	6.99	1079.52	0.91	34.59	2.6E-02	down
1/14/2008	8.43	1080.22	7.33	1079.18	1.04	34.38	3.0E-02	down
4/28/2008	8.13	1080.52	6.62	1079.89	0.63	34.68	1.8E-02	down
8/12/2008	8.33	1080.32	6.96	1079.55	0.77	34.48	2.2E-02	down
10/29/2008	8.36	1080.29	7.11	1079.40	0.89	34.45	2.6E-02	down
04/13/09	8.26	1080.39	7.21	1079.30	1.09	34.55	3.2E-02	down
10/05/09	8.38	1080.27	7.13	1079.38	0.89	34.43	2.6E-02	down
04/13/10	8.28	1080.37	7.21	1079.30	1.07	34.53	3.1E-02	down
10/19/2010	8.26	1080.39	6.68	1079.83	0.56	34.55	1.6E-02	down
1/18/2011	8.4	1080.25	6.95	1079.56	0.69	34.41	2.0E-02	down
03/16/11	8.23	1080.42	7.12	1079.39	1.03	34.58	3.0E-02	down

Table 7. Groundwater Vertical Gradient Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-9		PZ-9B					
Well Depth from TOC (feet)	21.18		53.65					
Screen Length (feet)	10		5					
Surface Elevation (MSL)[A]	1088.33		1088.33					
Top of Casing Elevation (MSL)[A]	1090.92		1090.85					
Top of Screen Elevation (MSL)	1079.7		1042.2					
Bottom of Screen Elevation (MSL)	1069.7		1037.2		Middle of screen elevation (piez.)			1039.7
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Head Change (dH)**	**Dist. Change (dL)**	**Vertical Hydraulic Gradient (dH/dL)***	
04/20/04	12.17	1078.75	12.15	1078.70	0.05	39.05	1.3E-03	flat
07/20/04	12.79	1078.13	12.70	1078.15	-0.02	38.43	-5.2E-04	flat
10/12/04	12.28	1078.64	12.23	1078.62	0.02	38.94	5.1E-04	flat
01/25/05	12.44	1078.48	12.41	1078.44	0.04	38.78	1.0E-03	flat
04/12/05	12.33	1078.59	12.32	1078.53	0.06	38.89	1.5E-03	down
07/11/05	12.32	1078.60	12.27	1078.58	0.02	38.90	5.1E-04	flat
10/03/05	12.16	1078.76	12.05	1078.80	-0.04	39.06	-1.0E-03	flat
01/05/06	12.49	1078.43	12.38	1078.47	-0.04	38.73	-1.0E-03	flat
04/11/06	12.41	1078.51	12.39	1078.46	0.05	38.81	1.3E-03	flat
07/21/06	12.41	1078.51	12.38	1078.47	0.04	38.81	1.0E-03	flat
10/04/06	12.37	1078.55	12.35	1078.50	0.05	38.85	1.3E-03	flat
2/22/2007	12.54	1078.38	12.56	1078.29	0.09	38.68	2.3E-03	down
4/19/2007	12.30	1078.62	12.30	1078.55	0.07	38.92	1.8E-03	down
7/19/2007	12.40	1078.52	12.38	1078.47	0.05	38.82	1.3E-03	flat
10/22/2007	12.16	1078.76	12.10	1078.75	0.01	39.06	2.6E-04	flat
1/14/2008	12.40	1078.52	12.48	1078.37	0.15	38.82	3.9E-03	down
4/28/2008	11.80	1079.12	11.68	1079.17	-0.05	39.42	-1.3E-03	flat
8/12/2008	12.18	1078.74	12.15	1078.70	0.04	39.04	1.0E-03	flat
10/29/2008	12.38	1078.54	12.36	1078.49	0.05	38.84	1.3E-03	flat
04/13/09	12.35	1078.57	12.29	1078.56	0.01	38.87	2.6E-04	flat
10/05/09	12.40	1078.52	12.36	1078.49	0.03	38.82	7.7E-04	flat
04/13/10	12.35	1078.57	12.31	1078.54	0.03	38.87	7.7E-04	flat
10/19/10	11.84	1079.08	11.77	1079.08	0.00	39.38	0.0E+00	flat
01/18/11	12.13	1078.79	12.05	1078.80	-0.01	39.09	-2.6E-04	flat
03/16/11	12.14	1078.78	12.15	1078.70	0.08	39.08	2.0E-03	down

Table 7. Groundwater Vertical Gradient Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
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USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-10	PZ-10B
Well Depth from TOC (feet)	21.3	53.3
Screen Length (feet)	10	5
Surface Elevation (MSL)[A]	1088.41	1088.41
Top of Casing Elevation (MSL)[A]	1090.95	1090.99
Top of Screen Elevation (MSL)	1079.7	1042.7
Bottom of Screen Elevation (MSL)	1069.7	1037.7

Middle of screen elevation (piez.)	1040.2

Date	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Head Change (dH)	Dist. Change (dL)	Vertical Hydraulic Gradient (dH/dL)*	
04/20/04	12.21	1078.74	12.36	1078.63	0.11	38.55	2.9E-03	down
07/20/04	11.94	1079.01	11.77	1079.22	-0.21	38.82	-5.4E-03	up
10/12/04	12.43	1078.52	12.23	1078.76	-0.24	38.33	-6.3E-03	up
01/25/05	12.72	1078.23	12.43	1078.56	-0.33	38.04	-8.7E-03	up
04/12/05	12.34	1078.61	12.55	1078.44	0.17	38.42	4.4E-03	down
07/11/05	12.38	1078.57	12.64	1078.35	0.22	38.38	5.7E-03	down
10/03/05	12.30	1078.65	12.39	1078.60	0.05	38.46	1.3E-03	flat
01/05/06	12.49	1078.46	12.80	1078.19	0.27	38.27	7.1E-03	down
04/11/06	12.55	1078.40	12.59	1078.40	0.00	38.21	0.0E+00	flat
07/21/06	12.61	1078.34	12.68	1078.31	0.03	38.15	7.9E-04	flat
10/04/06	12.52	1078.43	12.51	1078.48	-0.05	38.24	-1.3E-03	flat
2/22/2007	12.71	1078.24	12.27	1078.72	-0.48	38.05	-1.3E-02	up
4/19/2007	12.33	1078.62	12.97	1078.02	0.60	38.43	1.6E-02	down
7/19/2007	12.55	1078.40	12.34	1078.65	-0.25	38.21	-6.5E-03	up
10/22/2007	12.28	1078.67	12.50	1078.49	0.18	38.48	4.7E-03	down
1/14/2008	12.58	1078.37	12.67	1078.32	0.05	38.18	1.3E-03	flat
4/28/2008	11.70	1079.25	12.30	1078.69	0.56	39.06	1.4E-02	down
8/12/2008	12.54	1078.41	12.25	1078.74	-0.33	38.22	-8.6E-03	up
10/29/2008	12.57	1078.38	12.41	1078.58	-0.20	38.19	-5.2E-03	up
04/13/09	12.47	1078.48	12.30	1078.69	-0.21	38.29	-5.5E-03	up
10/05/09	12.51	1078.44	12.42	1078.57	-0.13	38.25	-3.4E-03	up
04/13/10	12.41	1078.54	12.49	1078.50	0.04	38.35	1.0E-03	flat
10/19/10	11.85	1079.10	11.89	1079.1	0.00	38.91	0.0E+00	flat
01/18/11	12.22	1078.73	12.22	1078.77	-0.04	38.54	-1.0E-03	flat
03/16/11	12.25	1078.70	12.63	1078.36	0.34	38.51	8.8E-03	down

Table 7. Groundwater Vertical Gradient Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
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Well Data	OW-11	PZ-11B
Well Depth from TOC (feet)	16.07	51.42
Screen Length (feet)	10	5
Surface Elevation (MSL)[A]	1091.51	1091.51
Top of Casing Elevation (MSL)[A]	1094.09	1093.73
Top of Screen Elevation (MSL)	1088.0	1047.3
Bottom of Screen Elevation (MSL)	1078.0	1042.3

Middle of screen elevation (piez.)	1044.8

Date	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Head Change (dH)	Dist. Change (dL)	Vertical Hydraulic Gradient (dH/dL)*	
04/20/04	15.54	1078.55	14.75	1078.98	-0.43	33.74	-1.3E-02	up
07/20/04	14.65	1079.44	14.13	1079.60	-0.16	34.63	-4.6E-03	up
10/12/04	15.30	1078.79	14.71	1079.02	-0.23	33.98	-6.8E-03	up
01/25/05	15.70	1078.39	14.95	1078.78	-0.39	33.58	-1.2E-02	up
4/11 & 12/05	15.61	1078.48	14.88	1078.85	-0.37	33.67	-1.1E-02	up
07/11/05	15.41	1078.68	14.77	1078.96	-0.28	33.87	-8.3E-03	up
10/03/05	15.26	1078.83	14.59	1079.14	-0.31	34.02	-9.1E-03	up
01/05/06	15.56	1078.53	14.90	1078.83	-0.30	33.72	-8.9E-03	up
04/11/06	16.73	1077.36	14.98	1078.75	-1.39	32.55	-4.3E-02	up
07/21/06	15.55	1078.54	15.01	1078.72	-0.18	33.73	-5.3E-03	up
10/04/06	15.54	1078.55	14.90	1078.83	-0.28	33.74	-8.3E-03	up
2/22/2007	15.86	1078.23	15.02	1078.71	-0.48	33.42	-1.4E-02	up
4/19/2007	15.56	1078.53	14.83	1078.90	-0.37	33.72	-1.1E-02	up
7/19/2007	15.44	1078.65	14.70	1079.03	-0.38	33.84	-1.1E-02	up
10/22/2007	15.30	1078.79	14.68	1079.05	-0.26	33.98	-7.7E-03	up
1/14/2008	15.68	1078.41	14.83	1078.90	-0.49	33.60	-1.5E-02	up
4/28/2008	14.87	1079.22	14.20	1079.53	-0.31	34.41	-9.0E-03	up
8/12/2008	15.20	1078.89	14.60	1079.13	-0.24	34.08	-7.0E-03	up
10/29/2008	15.49	1078.60	14.86	1078.87	-0.27	33.79	-8.0E-03	up
04/13/09	15.67	1078.42	14.90	1078.83	-0.41	33.61	-1.2E-02	up
10/05/09	15.51	1078.58	14.86	1078.87	-0.29	33.77	-8.6E-03	up
04/13/10	15.59	1078.50	14.89	1078.84	-0.34	33.69	-1.0E-02	up
10/19/10	14.89	1079.20	14.30	1079.43	-0.23	34.39	-6.7E-03	up
01/18/11	15.26	1078.83	14.67	1079.06	-0.23	34.02	-6.8E-03	up
03/16/11	15.59	1078.50	14.63	1079.10	-0.60	33.69	-1.8E-02	up

Table 7. Groundwater Vertical Gradient Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-12[A]	PZ-12B[A]
Well Depth from TOC (feet)	18.35	43.8
Screen Length (feet)	10	5
Surface Elevation (MSL)[A]	1090.23	1090.23
Top of Casing Elevation (MSL)[A]	1089.98	1089.93
Top of Screen Elevation (MSL)	1081.6	1051.1
Bottom of Screen Elevation (MSL)	1071.6	1046.1

Middle of screen elevation (piez.)	1048.6

Date	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Head Change (dH)	Dist. Change (dL)	Vertical Hydraulic Gradient (dH/dL)*	
10/12/04	11.42	1078.56	11.36	1078.57	-0.01	29.93	-3.3E-04	flat
01/25/05	11.56	1078.42	11.69	1078.24	0.18	29.79	6.0E-03	down
4/11 & 12/05	11.87	1078.11	11.79	1078.14	-0.03	29.48	-1.0E-03	flat
07/11/05	11.60	1078.38	11.51	1078.42	-0.04	29.75	-1.3E-03	flat
10/03/05	11.43	1078.55	11.40	1078.53	0.02	29.92	6.7E-04	flat
01/05/06	11.68	1078.30	11.59	1078.34	-0.04	29.67	-1.3E-03	flat
04/11/06	11.88	1078.10	11.96	1077.97	0.13	29.47	4.4E-03	down
07/21/06	11.74	1078.24	11.62	1078.31	-0.07	29.61	-2.4E-03	up
10/04/06	11.75	1078.23	11.65	1078.28	-0.05	29.60	-1.7E-03	up
2/22/2007	12.04	1077.94	11.68	1078.25	-0.31	29.31	-1.1E-02	up
4/19/2007	11.73	1078.25	11.66	1078.27	-0.02	29.62	-6.8E-04	flat
7/19/2007	11.61	1078.37	11.54	1078.39	-0.02	29.74	-6.7E-04	flat
10/22/2007	11.45	1078.53	11.35	1078.58	-0.05	29.90	-1.7E-03	up
1/14/2008	11.61	1078.37	11.87	1078.06	0.31	29.74	1.0E-02	down
4/28/2008	11.00	1078.98	10.88	1079.05	-0.07	30.35	-2.3E-03	up
8/12/2008	11.35	1078.63	11.25	1078.68	-0.05	30.00	-1.7E-03	up
10/29/2008	11.66	1078.32	11.55	1078.38	-0.06	29.69	-2.0E-03	up
04/13/09	11.88	1078.10	11.69	1078.24	-0.14	29.47	-4.8E-03	up
10/05/09	11.70	1078.28	11.45	1078.48	-0.20	29.65	-6.7E-03	up
04/13/10	11.86	1078.12	11.59	1078.34	-0.22	29.49	-7.5E-03	up
10/19/10	11.02	1078.96	10.94	1078.99	-0.03	30.33	-9.9E-04	flat
01/18/11	11.30	1078.68	11.18	1078.75	-0.07	30.05	-2.3E-03	up
03/16/11	11.71	1078.27	11.57	1078.36	-0.09	29.64	-3.0E-03	up

Table 7. Groundwater Vertical Gradient Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-14		PZ-14B					
Well Depth from TOC (feet)	17.76		47.94					
Screen Length (feet)	10		5					
Surface Elevation (MSL)[A]	1089.64		1089.64					
Top of Casing Elevation (MSL)[A]	1089.04		1089.35					
Top of Screen Elevation (MSL)	1081.3		1046.4					
Bottom of Screen Elevation (MSL)	1071.3		1041.4		Middle of screen elevation (piez.)			1043.9
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Head Change (dH)**	**Dist. Change (dL)**	**Vertical Hydraulic Gradient (dH/dL)***	
7/19/2007	10.96	1078.08	46.89	1042.46	35.62	34.17	1.0E+00	down
10/22/2007	10.72	1078.32	43.90	1045.45	32.87	34.41	9.6E-01	down
1/14/2008	nm	---	nm	---	---	---	---	---
4/28/2008	10.22	1078.82	31.79	1057.56	21.26	34.91	6.1E-01	down
8/12/2008	10.63	1078.41	30.97	1058.38	20.03	34.50	5.8E-01	down
10/29/2008	10.97	1078.07	31.55	1057.80	20.27	34.16	5.9E-01	down
04/13/09	11.08	1077.96	20.45	1068.90	9.06	34.05	2.7E-01	down
10/05/09	10.96	1078.08	32.13	1057.22	20.86	34.17	6.1E-01	down
04/14/10	11.02	1078.02	24.70	1064.65	13.37	34.11	3.9E-01	down
10/20/10	10.23	1078.81	20.7	1068.65	10.16	34.90	2.9E-01	down
01/18/11	10.56	1078.48	18.65	1070.70	7.78	34.57	2.3E-01	down
03/16/11	10.91	1078.13	21.78	1067.57	10.56	34.22	3.1E-01	down

Table 7. Groundwater Vertical Gradient Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-15	PZ-15B
Well Depth from TOC (feet)	17.2	47.4
Screen Length (feet)	10	5
Surface Elevation (MSL)[A]	1091.15	1091.15
Top of Casing Elevation (MSL)[A]	1090.94	1090.89
Top of Screen Elevation (MSL)	1083.7	1048.5
Bottom of Screen Elevation (MSL)	1073.7	1043.5

Middle of screen elevation (piez.)	1046.0

Date	Depth to Water from TOC (feet)	Water Elevation (MSL)	Depth to Water from TOC (feet)	Water Elevation (MSL)	Head Change (dH)	Dist. Change (dL)	Vertical Hydraulic Gradient (dH/dL)*	
07/19/07	12.96	1077.98	12.88	1078.01	-0.03	31.99	-9.4E-04	flat
10/22/2007	12.75	1078.19	12.68	1078.21	-0.02	32.20	-6.2E-04	flat
1/14/2008	13.13	1077.81	13.06	1077.83	-0.02	31.82	-6.3E-04	flat
4/28/2008	12.21	1078.68	12.25	1078.69	-0.01	32.69	-3.1E-04	flat
8/12/2008	12.52	1078.37	12.6	1078.34	0.03	32.38	9.3E-04	flat
10/29/2008	12.90	1077.99	12.98	1077.96	0.03	32.00	9.4E-04	flat
04/13/09	13.12	1077.77	13.18	1077.76	0.01	31.78	3.1E-04	flat
10/05/09	12.94	1077.95	13.00	1077.94	0.01	31.96	3.1E-04	flat
04/14/10	13.01	1077.88	13.01	1077.93	-0.05	31.89	-1.6E-03	up
10/20/10	12.21	1078.68	12.28	1078.66	0.02	32.69	6.1E-04	flat
01/18/11	12.41	1078.48	12.50	1078.44	0.04	32.49	1.2E-03	flat
03/16/11	12.95	1077.94	13.02	1077.92	0.02	31.95	6.3E-04	flat

Table 7. Groundwater Vertical Gradient Summary

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Well Data	OW-16		PZ-16B					
Well Depth from TOC (feet)	13.4		45.5					
Screen Length (feet)	10		5					
Surface Elevation (MSL)[A]	1088.61		1088.61					
Top of Casing Elevation (MSL)[A]	1088.44		1088.11					
Top of Screen Elevation (MSL)	1085.0		1047.6					
Bottom of Screen Elevation (MSL)	1075.0		1042.6		Middle of screen elevation (piez.)			1045.1
Date	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Depth to Water from TOC (feet)**	**Water Elevation (MSL)**	**Head Change (dH)**	**Dist. Change (dL)**	**Vertical Hydraulic Gradient (dH/dL)***	
07/19/07	7.33	1081.11	6.83	1081.28	-0.17	36.00	-4.7E-03	up
10/22/2007	7.20	1081.24	6.58	1081.53	-0.29	36.13	-8.0E-03	up
1/14/2008	7.62	1080.82	7.60	1080.51	0.31	35.71	8.7E-03	down
4/28/2008	7.14	1081.30	6.67	1081.44	-0.14	36.19	-3.9E-03	up
8/12/2008	7.21	1081.23	6.71	1081.40	-0.17	36.12	-4.7E-03	up
10/29/2008	7.28	1081.16	6.72	1081.39	-0.23	36.05	-6.4E-03	up
04/13/09	7.52	1080.92	7.05	1081.06	-0.14	35.81	-3.9E-03	up
10/05/09	7.28	1081.16	6.75	1081.36	-0.20	36.05	-5.5E-03	up
04/14/10	6.86	1081.58	6.99	1081.12	0.46	36.47	1.3E-02	down
10/20/10	5.67	1082.77	6.59	1081.52	1.25	37.66	3.3E-02	down
01/18/11	7.3	1081.14	6.91	1081.20	-0.06	36.03	-1.7E-03	up
03/16/11	7.52	1080.92	7.12	1080.99	-0.07	35.81	-2.0E-03	up

TOC : Top of PVC well casing
MSL: Elevations are referenced to feet above Mean Sea Level
A: Elevations for all the site wells were re-surveyed on June 6 and 7, 2007 for previously existing wells and on August 15, 2007 for new wells by WPSC personnel.
*: Vertical gradients less than ±0.0015 are considered flat, and they typically have less than 0.05 foot difference between wells.

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW01	06/02/93	ND	ND	ND	0.36	ND	0.12	ND	ND	**0.3**	ND	0.8	0.54	ND	--	--	ND	ND	0.56
	09/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/96	< 1	< 2	< 0.2	0.2	**0.32**	0.1	0.35	0.1	0.19	< 0.1	0.28	< 0.4	0.28	< 1	< 1	< 1	< 0.4	0.21
	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	< 0.96	< 0.89	< 0.02	< 0.032	< 0.063	< 0.088	< 0.11	< 0.061	< 0.021	< 0.13	< 0.06	< 0.075	< 0.057	< 0.58	< 0.65	< 0.31	< 0.025	< 0.064
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	7.7	< 0.55	< 0.018	< 0.017	< 0.027	< 0.043	< 0.1	< 0.029	< 0.013	< 0.16	< 0.1	0.13	< 0.083	3.9	0.71	16	0.035	< 0.047
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	30	0.47	0.39	1.3	**3.2**	**2**	1.4	< 0.11	**1.1**	0.28	2.2	7.1	1.5	13	< 0.072	4.1	1.7	2.7
	05/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	13	0.34	0.079	0.37	**0.47**	**0.37**	0.32	0.32	**0.3**	0.099	0.49	< 1.1	0.28	3	< 0.028	< 1.3	0.29	0.44
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	59	< 1.8	< 1.6	< 1.5	< 0.96	< 1.1	< 1.2	< 1	< 1.4	< 1.4	< 2.2	11	< 1.1	37	< 2.2	8.1	8.9	< 1.6
	06/16/03	28	0.5	< 0.41	< 0.25	< 0.29	< 0.27	< 0.33	< 0.39	< 0.29	< 0.33	< 0.27	2.4	< 0.44	15	< 0.35	6.9	1.4	< 0.35
	11/20/03	27	< 1.5	< 1.6	< 0.96	< 1.1	< 1	< 1.3	< 1.5	< 1.1	< 1.3	< 1	1.6	< 1.7	5.9	< 1.4	< 1.9	1.5	< 1.4
	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/05	14	< 0.97	< 0.88	< 0.98	< 0.91	< 0.89	< 1	< 0.97	< 0.82	< 1.1	< 0.82	< 1.1	< 0.85	< 1	< 1.1	< 1.1	< 1	< 0.81
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	25	0.58	< 0.23	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	< 0.31	4.1	< 0.38	3.4	< 0.22	< 0.25	2.2	< 0.29
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/22/07	26	0.71	0.093	< 0.016	< 0.019	< 0.016	< 0.02	< 0.02	< 0.019	< 0.019	0.044	5.5	< 0.019	2.5	0.02	0.13	3.2	0.025
	04/19/07	23	< 0.65	< 0.93	< 1.2	< 1.5	< 1.3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.2	3.5	< 1.5	0.82	< 0.9	< 0.99	2.4	< 1.2
	07/19/07	26	< 0.81	< 1.2	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	3.2	< 1.9	< 1	< 1.1	< 1.2	1.9	< 1.5
	10/22/07	50	1.6	0.26	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	< 0.31	9.1	< 0.38	0.7	< 0.22	< 0.25	3.7	< 0.29
	01/14/08	68	2	< 2.3	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	13	< 3.8	14	< 2.2	< 2.5	6	< 2.9
	04/28/08	18.5	0.45	0.045	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	0.018	4.7	< 0.0036	1.2	0.023	0.062	3.6	0.0096
	10/29/08	31.5	1.1	< 0.81	< 0.43	< 0.67	< 0.64	< 0.78	< 0.97	< 0.87	< 0.54	< 0.67	4.2	< 0.45	< 1.2	< 1.3	< 2	3.8	< 0.85

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW1	04/13/09	37.2	1.1	< 0.13	< 0.069	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	0.14	11.5	< 0.072	2	< 0.21	< 0.33	9.6	< 0.14
	10/05/09	34.7	0.83	< 0.57	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	< 0.44	7.8	< 0.47	0.71	< 0.39	0.66	6.7	< 0.47
	04/13/10	35	1.1	0.84	< 0.072	< 0.057	< 0.068	< 0.096	< 0.087	< 0.07	< 0.064	< 0.088	8.7	< 0.094	2.2	0.13	1.4	7.3	< 0.095
	10/19/10	12	0.34	0.2	< 0.072	< 0.057	< 0.068	< 0.096	< 0.087	< 0.07	< 0.064	< 0.088	1.8	< 0.094	< 0.1	< 0.077	< 0.097	1.5	< 0.095
	01/20/11	22.3	0.6	< 0.047	0.0042	< 0.047	< 0.047	< 0.047	< 0.047	0.0049	< 0.047	0.04	1.7	< 0.047	0.088	0.015	0.051	2.3	0.015
	03/17/11	30.4	0.76	0.084	0.0055	0.0037	0.0049	< 0.047	< 0.047	0.0062	< 0.047	0.052	< 4.7	< 0.047	0.13	< 0.047	0.066	< 4.7	0.02
OW02	06/03/93	ND	ND	0.41	ND	ND	ND	ND	ND	**0.44**	ND	1.4	5	ND	--	--	11	2.8	0.38
	09/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/96	1.3	< 2	< 0.2	0.46	< 0.024	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	0.39	3.1	< 0.1	< 1	1.6	10	2.3	0.35
	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	7.8	< 0.89	0.41	0.37	< 0.063	< 0.088	< 0.11	< 0.061	< 0.021	< 0.13	0.66	5.2	< 0.057	< 0.58	< 0.65	11	2.4	0.25
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	14	< 0.55	0.77	0.7	**0.34**	**0.22**	0.26	0.13	**0.23**	< 0.16	1.3	7	0.31	0.77	2.5	10	3.3	0.31
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	14	< 0.15	0.52	< 0.11	< 0.013	**0.24**	0.39	0.16	**0.57**	< 0.068	0.87	7.1	0.91	2.9	1	8	3.2	0.28
	05/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	7.8	2.7	< 0.4	< 0.38	**0.26**	< 0.28	< 0.3	0.3	< 0.36	< 0.34	< 0.56	3.3	< 0.28	0.71	0.68	1.2	1.8	0.41
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/03	12	0.1	< 1	0.18	0.15	0.17	0.12	0.14	0.15	0.036	0.5	4.6	0.11	0.32	0.031	< 1.2	3	0.45
	11/20/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/05	7.7	< 0.39	0.59	< 0.39	< 0.36	< 0.36	< 0.41	< 0.39	< 0.33	< 0.44	0.36	3	< 0.34	0.41	< 0.45	< 0.45	1.8	< 0.33
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	4.2	< 0.16	0.27	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	< 0.31	1.6	< 0.38	0.21	< 0.22	< 0.25	0.93	< 0.29
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/22/07	6.6	0.1	0.53	0.066	0.028	0.031	0.02	0.041	0.059	< 0.019	0.44	2.8	< 0.019	0.38	0.056	0.18	1.4	0.33

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene [2]**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene [2]**	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene [2]**	**Dibenz(a,h)anthracene**	**Fluoranthene [2]**	**Fluorene [2]**	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW2	04/19/07	7.3	< 0.16	0.4	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	< 0.31	3	< 0.38	0.26	< 0.22	0.66	1.8	< 0.29
	07/19/07	9.4	0.099	0.58	0.044	< 0.018	0.016	< 0.019	0.022	0.036	< 0.019	0.45	3.9	< 0.019	0.58	0.074	0.59	2	0.3
	10/22/07	8.3	0.11	0.89	0.056	< 0.018	0.02	< 0.019	0.024	0.054	< 0.019	0.55	3.4	< 0.019	0.44	0.052	0.24	2.4	0.38
	01/14/08	10	0.11	0.72	0.041	< 0.018	0.017	< 0.019	0.022	0.043	< 0.019	0.47	4.5	< 0.019	0.58	0.075	0.17	2.6	0.32
	04/28/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/29/08	7.3	< 0.2	0.44	< 0.14	< 0.22	< 0.21	< 0.25	< 0.31	< 0.28	< 0.17	0.37	3	< 0.14	< 0.38	< 0.43	< 0.66	1.7	< 0.27
	04/13/09	6.1	< 0.099	0.28	< 0.069	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	0.22	2.5	< 0.072	< 0.19	< 0.21	< 0.33	1.2	0.16
	10/05/09	7.8	< 0.076	0.69	< 0.077	< 0.061	< 0.072	< 0.1	< 0.093	< 0.074	< 0.068	0.5	3.7	< 0.099	0.29	< 0.082	0.33	1.9	0.36
	04/13/10	4.9	< 0.072	0.63	< 0.072	< 0.057	< 0.068	< 0.096	< 0.087	< 0.07	< 0.064	0.33	2.3	< 0.094	0.13	< 0.077	0.23	1	0.24
	10/19/10	9.7	0.11	0.97	< 0.091	< 0.071	< 0.085	< 0.12	< 0.11	0.1	< 0.08	0.55	4.5	< 0.12	0.34	< 0.096	0.52	2	0.49
	01/25/11	12	0.058	0.4	0.022	0.0047	< 0.047	< 0.047	0.0068	0.02	< 0.047	0.33	5.3	< 0.047	0.42	0.043	0.25	1.8	0.2
	03/17/11	5.8	< 0.94	0.31	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	0.29	2.2	< 0.94	0.28	< 0.94	0.26	0.21	0.2
OW03	06/04/93	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45	2	ND	--	--	**620**	3.4	ND
	09/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/96	< 1	< 2	< 0.2	< 0.05	< 0.024	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.2	< 0.4	< 0.1	4.2	3.1	56	< 0.4	< 0.2
	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	94	580	< 0.1	< 0.16	< 0.32	< 0.44	< 0.55	< 0.3	< 0.1	< 0.65	< 0.44	4.4	< 0.28	130	119	**2500**	2.3	< 0.32
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/01/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OW03R	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	203	119	124	126	**75**	**73**	27	17	**36**	5	202	244	24	158	428	**950**	390	146
	05/31/00	115	70	145	64	**86**	**137**	27	71	**55**	6.9	254	208	25	82	235	**432**	424	219
	08/31/00	43	21	77	163	**28**	**25**	17	12	**34**	5.7	190	87	17	32	68	**363**	240	98
	11/21/00	5.5	31	27	44	**2.1**	**1.4**	0.36	0.81	**5.3**	< 0.068	29	32	0.32	19	34	**150**	70	24
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	< 22	34	84	120	**110**	**63**	51	75	**98**	< 20	240	30	46	< 32	< 34	88	160	200
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	< 14	< 18	< 16	< 15	< 9.6	< 11	< 12	< 10	< 14	< 14	< 22	< 17	< 11	< 22	< 22	**260**	21	< 16
	06/16/03	1.2	1.1	3	3.4	**2.7**	**1.9**	1.4	2.1	**3**	< 0.41	7.7	2.1	1.2	0.6	< 0.44	1.6	3.6	6
	11/20/03	9	2.1	4.6	1.3	**0.95**	**0.67**	0.5	0.92	**1.3**	< 0.4	5.5	7.7	< 0.52	8.4	9.4	76	12	3.9
	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/05	1.6	0.36	0.68	0.24	0.15	0.11	< 0.1	0.13	0.17	< 0.11	1.1	0.89	< 0.085	0.98	0.15	1.7	2	0.82
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW3R	10/03/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	0.47	0.12	0.35	0.04	< 0.037	< 0.031	< 0.039	< 0.039	< 0.038	< 0.038	0.54	0.36	< 0.038	0.27	< 0.022	0.11	0.42	0.33
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/21/07	1.4	0.16	1.1	0.23	< 0.23	< 0.2	< 0.24	< 0.24	< 0.24	< 0.24	1.6	1.1	< 0.24	0.81	0.58	1.9	3.6	1.1
	04/19/07	0.32	0.068	0.23	0.12	0.098	0.07	0.054	0.077	0.1	< 0.038	0.53	0.2	0.051	0.15	0.049	0.33	0.35	0.4
	07/19/07	12	4.8	1.9	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	3.7	< 1.9	17	19	**310**	5.5	< 1.5
	10/22/07	13	3.7	2.4	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	4.9	< 1.9	14	20	**260**	6.2	< 1.5
	01/14/08	10	< 4.1	< 5.8	< 7.8	< 9.2	< 7.8	< 9.6	< 9.7	< 9.5	< 9.4	< 7.7	< 4.5	< 9.4	8.5	15	**130**	7.5	< 7.3
	04/29/08	0.78	< 0.099	0.3	0.13	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	0.42	0.47	< 0.072	0.45	< 0.21	5.3	0.61	0.29
	10/29/08	12.6	< 2.5	< 3.3	< 1.7	< 2.7	< 2.6	< 3.1	< 3.9	< 3.5	< 2.2	< 2.7	< 3.1	< 1.8	14.6	22.3	**228**	4	< 3.4
	04/13/09	1.9	0.17	0.35	< 0.069	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	0.47	0.83	< 0.072	1.3	< 0.21	4.5	1.1	0.43
	10/05/09	15.8	3.3	< 3	0.24	0.042	0.031	0.0095	0.034	0.14	< 0.0034	< 2.3	5.8	0.0087	16.6	17.7	**421**	6.4	< 2.5
	04/13/10	0.83	0.12	0.32	0.057	0.026	0.04	0.029	0.04	0.05	0.02	0.41	0.46	0.026	0.45	0.23	0.72	0.7	0.27
	10/19/10	2.9	0.52	1	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	0.48	1.2	< 0.47	3	2	57.1	1.2	< 0.47
	01/25/11	0.36	0.033	0.091	0.026	0.021	< 0.047	0.0099	0.02	0.026	< 0.047	0.084	0.24	0.0075	0.48	0.28	6.8	0.15	0.057
	03/17/11	0.49	0.075	0.5	0.035	0.012	0.012	0.0065	0.015	0.035	< 0.047	0.4	0.86	< 0.047	0.43	0.083	12.2	0.63	0.27
OW04	06/10/93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND
	09/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/96	< 1	< 2	< 0.2	< 0.05	< 0.024	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.2	< 0.4	< 0.1	< 1	< 1	< 1	< 0.4	< 0.2
	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	< 1	< 0.92	< 0.021	< 0.033	< 0.066	< 0.092	< 0.11	< 0.063	< 0.022	< 0.14	< 0.062	< 0.078	< 0.059	< 0.6	< 0.68	< 0.32	< 0.026	< 0.066
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	< 0.23	< 0.57	< 0.019	< 0.018	< 0.028	< 0.045	< 0.1	< 0.03	< 0.014	< 0.17	< 0.1	< 0.03	< 0.086	< 0.42	< 0.62	< 0.23	< 0.015	< 0.049
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	< 0.13	< 0.15	< 0.02	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	< 0.066	< 0.11	< 0.08	< 0.082	< 0.072	< 0.056	< 0.045	< 0.032
	05/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	0.033	< 0.023	< 0.02	< 0.019	0.022	0.015	< 0.015	0.015	< 0.018	< 0.017	< 0.028	< 0.021	< 0.014	< 0.027	< 0.028	0.051	0.029	0.023
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/03	0.02	< 0.019	< 0.02	0.013	0.016	0.014	< 0.016	< 0.019	< 0.014	< 0.016	0.018	< 0.017	< 0.021	< 0.018	< 0.017	0.041	0.019	0.018
	11/20/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene [2]**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene [2]**	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene [2]**	**Dibenz(a,h)anthracene**	**Fluoranthene [2]**	**Fluorene [2]**	**Indeno(1,2,3-cd)pyrene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**Naphthalene [2]**	**Phenanthrene**	**Pyrene [2]**
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW4	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/05	0.03	< 0.019	< 0.018	< 0.02	< 0.018	< 0.018	< 0.021	< 0.019	< 0.016	< 0.022	< 0.016	< 0.022	< 0.017	0.02	< 0.023	0.38	< 0.02	< 0.016
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	0.059	0.0092	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.093	0.017	1.5	< 0.011	< 0.015
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/21/07	0.032	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.04	< 0.011	0.094	0.012	< 0.015
	04/19/07	0.029	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.03	< 0.011	0.09	< 0.011	< 0.015
	07/19/07	0.043	0.0087	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	0.011	< 0.019	0.026	0.015	0.12	0.017	< 0.015
	10/22/07	0.063	0.0097	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.053	< 0.011	0.12	< 0.011	< 0.015
	01/14/08	0.055	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.031	< 0.011	0.059	0.016	< 0.015
	04/28/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/29/08	0.08	0.014	0.0081	0.0038	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	0.0089	0.01	< 0.0036	0.11	0.021	1.9	0.022	0.007
	04/13/09	0.049	0.006	< 0.0065	0.019	0.023	0.032	0.022	0.03	0.032	0.0058	0.056	0.0074	0.019	0.055	< 0.011	0.49	0.025	0.047
	10/05/09	0.17	0.028	0.0068	0.0087	0.0068	0.0063	< 0.0051	0.0054	0.008	< 0.0034	0.0098	0.013	< 0.005	0.1	0.029	0.29	0.015	0.0098
	04/13/10	0.68	0.08	0.014	< 0.0073	< 0.0058	< 0.0069	< 0.0097	< 0.0088	< 0.007	< 0.0065	0.014	0.034	< 0.0094	0.25	0.045	0.58	0.043	0.013
	10/19/10	0.54	0.055	< 0.057	< 0.036	< 0.029	< 0.034	< 0.048	< 0.044	< 0.035	< 0.032	< 0.044	< 0.048	< 0.047	0.69	0.068	3.1	< 0.081	< 0.047
	01/20/11	0.28	0.044	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.0088	< 0.05	0.25	0.0086	2	0.0093	< 0.05
	03/17/11	0.72	0.085	0.007	0.0074	0.0073	0.0055	0.006	0.0091	0.0079	< 0.047	0.011	< 0.047	< 0.047	0.39	< 0.047	11.4	< 0.047	0.01
OW05	06/03/93	450	810	56	44	**46**	**21**	18	15	**27**	0.97	210	260	25	--	--	**9000**	330	74
	08/16/96	710	1800	100	60	**47**	**22**	36	27	**28**	< 2	280	270	34	1300	1500	**6700**	350	69
	09/04/97	20	46	16	26	**1.2**	**8.3**	19	9.6	**12**	< 0.65	54	23	15	110	97	**120**	37	34
OW05A	06/03/93	350	240	45	78	**68**	**30**	26	20	**36**	ND	260	140	35	--	--	**2700**	220	96
	08/16/96	60	230	23	22	**18**	**8.1**	18	5.9	**9.1**	< 1	67	31	15	190	110	**440**	63	24
	09/04/97	240	< 22	40	20	**15**	**6.1**	13	7.1	**10**	< 3.2	87	170	9.8	900	880	**5300**	170	36
OW05R	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	1180	1020	882	37	**541**	**256**	181	126	**223**	< 0.34	**1610**	**1390**	192	34	17	**15700**	2360	**1190**
	05/31/00	305	341	194	74	**102**	**64**	87	64	**56**	9.1	304	317	48	303	580	**3900**	527	221
	08/31/00	373	222	513	419	**101**	**218**	138	104	**253**	< 3.4	**909**	**472**	127	294	566	**3010**	1110	**694**
	11/21/00	328	155	410	320	**244**	**142**	87	66	**252**	29	**683**	393	103	247	423	**2500**	1150	**461**
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW5R	04/02/02	180	170	420	410	**370**	**250**	200	310	**370**	64	**990**	180	210	100	< 90	**540**	1000	**720**
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	24	23	57	57	**58**	**51**	36	49	**63**	10	140	19	32	16	< 14	54	140	100
	06/16/03	< 0.36	0.47	0.99	1.6	**1.6**	**1.1**	0.76	1.4	**1.5**	< 0.32	4.4	< 0.34	0.75	< 0.36	< 0.34	< 0.48	1.6	3.1
	11/20/03	31	11	9.2	6.9	**6.5**	**4.8**	2.9	4.9	**5.2**	1	18	13	3	32	0.7	34	30	13
	04/20/04	4.2	1.5	1.1	1	**1.1**	**0.63**	0.35	0.41	**0.88**	0.12	2.1	1.4	0.37	2.8	0.13	5.7	1.3	1.5
	07/20/04	8.6	5.5	1.2	0.13	0.05	0.034	0.02	0.04	0.079	< 0.015	1.9	4.4	< 0.02	9.5	0.082	11	5	1.2
	10/12/04	48	< 15	6.9	0.52	< 0.36	< 0.36	< 0.41	< 0.39	**0.43**	< 0.44	7.6	< 17	< 0.34	73	1.6	**190**	25	4.6
	01/25/05	68	21	22	18	**18**	**12**	7.6	13	**15**	2.3	46	22	7.6	77	2.6	**220**	48	29
	04/11/05	6.9	3.8	1.5	< 0.39	< 0.36	< 0.36	< 0.41	< 0.39	< 0.33	< 0.44	2.3	3.6	< 0.34	6.8	< 0.45	6	4.6	1.6
	07/11/05	10	4.9	1.7	< 0.78	< 0.92	< 0.78	< 0.96	< 0.97	< 0.95	< 0.94	1.9	5	< 0.94	11	< 0.56	15	3.8	1.3
	10/03/05	2.3	0.99	0.18	< 0.16	< 0.18	< 0.16	< 0.19	< 0.19	< 0.19	< 0.19	1.1	0.46	< 0.19	1.2	< 0.11	< 0.47	< 0.11	0.67
	01/05/06	5.3	2.7	1.3	0.11	0.033	0.019	< 0.019	< 0.39	0.059	< 0.019	1.4	2.9	< 0.019	4.2	0.026	0.54	3.3	1.1
	04/11/06	6.6	2.1	0.92	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	1.8	2.9	< 0.38	5.3	< 0.22	2.8	2.4	1.1
	07/21/06	100	8.7	9.2	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	10	21	< 3.8	130	6	**590**	39	6.7
	10/04/06	130	9.3	10	1.6	**1.1**	**0.86**	0.55	0.94	**1.2**	< 0.38	14	24	0.5	150	22	**700**	43	9.3
	02/21/07	4.8	1.1	0.46	0.1	0.04	0.034	< 0.019	0.035	0.065	< 0.019	1.3	1.3	< 0.019	3.1	0.2	1.4	0.12	0.87
	04/19/07	0.045	0.028	0.024	0.056	0.098	0.079	0.054	0.065	0.046	< 0.019	0.097	0.011	0.054	0.038	0.012	0.29	0.051	0.073
	07/19/07	110	7.2	12	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	11	30	< 1.9	130	23	**750**	49	7.3
	10/22/07	350	73	210	130	**130**	**67**	61	130	**100**	< 15	**440**	190	55	230	140	**1100**	700	**290**
	01/14/08	55	14	41	27	**22**	**14**	12	19	**20**	3.9	84	38	11	27	24	**120**	120	60
	04/29/08	3	0.8	0.81	0.59	**0.62**	**0.38**	0.36	0.58	**0.64**	0.1	2.1	0.94	0.33	2.4	0.11	0.57	1.8	1.6
	08/12/08	123	15	32.7	24.8	**20.7**	**15.2**	10	16.9	**17.3**	2.8	74.7	52.8	9.4	120	43	**490**	147	57
	10/29/08	98	5.7	13.9	< 0.87	0.18	0.15	0.054	0.13	**0.3**	0.016	10.5	25.4	0.052	103	15.8	**169**	44.1	6.3
	04/13/09	9.4	1.3	0.8	< 0.069	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	1.1	3.6	< 0.072	7.9	< 0.21	0.88	2.5	0.84
	10/05/09	25.8	3	4.8	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	5.1	8.9	< 0.47	16.3	< 0.39	16.4	19.7	3.6
	04/14/10	20.2	2.4	3.6	0.57	**0.34**	**0.3**	0.17	0.26	**0.32**	0.047	3.9	8.5	0.17	14.1	0.26	15.7	8.5	2.6
	10/19/10	4.9	1.1	0.85	0.12	0.058	0.055	0.027	0.045	0.093	0.0062	1.2	2	0.023	2.5	0.077	0.96	2.2	0.92
	01/25/11	8.5	2.2	0.71	0.066	0.025	< 0.047	0.01	0.025	0.044	< 0.047	1.5	4.2	0.0086	5	0.03	0.48	5.2	0.64
	03/17/11	4.4	1.1	0.57	0.088	0.043	0.043	0.021	0.038	0.064	0.0043	0.97	2	0.019	2.3	0.05	0.63	2.1	0.72
OW06	06/03/93	63	47	13	ND	**1.1**	**0.68**	ND	0.46	**0.93**	ND	35	38	ND	--	--	**230**	100	18
	09/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/96	8.6	44	4.3	1.4	**0.35**	0.06	< 0.2	< 0.05	**0.39**	< 0.1	14	8.2	< 0.1	4.6	2.8	50	32	11
	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	5.2	110	12	1.6	< 0.32	< 0.44	< 0.55	< 0.3	**0.41**	< 0.65	22	42	< 0.28	340	35	**330**	99	19
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW6	06/23/99	78	450	12	< 0.34	< 0.54	< 0.86	< 2	< 0.58	< 0.26	< 3.2	23	79	< 1.7	250	270	**2600**	98	16
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	40	21	9.7	1.6	**3.8**	**1.4**	6.2	< 0.11	< 0.059	< 0.068	9.7	19	6.5	38	28	**283**	31	8.8
	05/31/00	25	34	5.1	3.5	**0.68**	**1.6**	2.1	0.68	**3.3**	0.4	9.1	14	2.5	36	28	**333**	20	9
	08/31/00	87	275	20	< 0.11	**4.5**	**2.8**	2.8	< 0.11	**4.5**	< 0.068	33	84	3.1	238	218	**2280**	140	30
	11/21/00	50	42	9.1	2.6	**2.3**	**1.5**	1.7	1.2	**1.7**	0.38	11	25	1.7	53	39	**477**	50	13
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	31	4.2	4.4	2.6	**2.1**	**1.4**	0.91	1.5	**1.9**	0.39	7.3	14	0.94	22	15	**160**	27	8.6
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	88	150	9	< 1.9	< 1.2	< 1.4	< 1.5	< 1.3	< 1.8	< 1.7	8	41	< 1.4	170	< 110	**1800**	100	10
	06/16/03	29	4.9	2.4	0.64	**0.44**	**0.33**	< 0.32	0.39	**0.56**	< 0.32	2.9	10	< 0.42	10	0.39	1.9	2.3	4.4
	11/20/03	31	20	3.8	< 1.2	< 1.4	< 1.3	< 1.6	< 1.9	< 1.4	< 1.6	3.5	14	< 2.1	33	25	**370**	21	3.9
	07/20/04	46	26	13	< 1.1	< 1.3	< 1.2	< 1.5	< 1.8	< 1.3	< 1.5	8.4	28	< 2	59	18	**190**	88	10
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/05	9.6	0.49	1.3	< 0.39	< 0.36	< 0.36	< 0.41	< 0.39	< 0.33	< 0.44	1.2	4.5	< 0.34	7.2	5.1	45	4	1.1
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	79	120	5.1	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	21	< 3.8	130	100	**1800**	40	< 2.9
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	11	0.31	1.6	< 0.31	< 0.37	< 0.32	< 0.39	< 0.39	< 0.38	< 0.38	1.1	5.2	< 0.38	7.3	6.3	51	6.2	0.84
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	16	29	2.9	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	2	7.2	< 1.9	27	19	**390**	17	2.4
	02/21/07	12	0.31	1.8	0.13	0.084	0.062	0.041	0.069	0.087	< 0.019	1.4	4.9	0.039	8.5	5.4	8.3	4	1.3
	04/19/07	7.3	< 1	< 1.4	< 1.9	< 2.3	< 2	< 2.4	< 2.4	< 2.4	< 2.4	< 1.9	2.7	< 2.4	5.2	3.7	33	3	< 1.8
	07/19/07	17	29	2.4	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	7.5	< 1.9	28	27	**450**	8.1	< 1.5
	10/22/07	55	120	10	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	2.1	21	< 1.9	110	110	**2100**	32	1.9
	01/14/08	14	< 0.81	3.9	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	6.7	< 1.9	10	7.6	41	7.2	< 1.5
	04/29/08	43.9	72.2	< 16.3	0.19	0.02	0.016	< 0.0062	0.016	0.095	< 0.0043	< 13.4	< 15.7	< 0.0036	72.4	58	**3060**	< 18.7	< 16.9
	08/12/08	55.7	101	7	< 0.35	< 0.54	< 0.51	< 0.62	< 0.78	< 0.7	< 0.43	2.9	17.4	< 0.36	94.3	95.8	**1720**	39.9	3.5
	10/29/08	44.9	62.9	< 6.5	< 3.5	< 5.4	< 5.1	< 6.2	< 7.8	< 7	< 4.3	< 5.3	10.2	< 3.6	71.7	63.2	**1090**	17.7	< 6.8
	04/13/09	12.2	0.3	0.82	0.072	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	0.97	4.4	< 0.072	6.8	1.2	5.3	< 0.15	1.1
	10/05/09	75.7	36.8	3.7	0.089	< 0.057	< 0.068	< 0.096	< 0.087	0.072	< 0.064	1.6	14.9	< 0.094	47.4	31.1	**1130**	16.5	1.5
	04/13/10	4.2	0.21	0.5	0.094	0.051	0.052	0.054	0.064	0.07	0.013	0.81	1.2	0.043	0.05	0.008	0.048	0.059	0.71
	10/19/10	230	< 18	< 28.7	< 18.1	< 14.3	< 17	< 24.1	< 21.8	< 17.4	< 16	< 22	< 23.9	< 23.4	154	117	**1440**	< 40.5	< 23.7
	01/19/11	219	< 236	< 236	< 236	< 236	< 236	< 236	< 236	< 236	< 236	< 236	< 236	< 236	117	97.2	**1090**	< 236	< 236
	03/17/11	20.8	0.48	2.4	0.074	< 0.94	< 0.94	< 0.94	< 0.94	0.07	< 0.94	1.5	7.9	< 0.94	4.5	< 0.94	0.59	10.7	1.7

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW07	06/04/93	40	70	9	2.5	**1.8**	**0.85**	ND	0.97	**1.6**	ND	23	33	1.2	--	--	**460**	64	9.7
	08/16/96	< 1	22	3.1	0.4	< 0.024	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	2.3	14	< 0.1	26	46	70	18	1
	09/03/97	2	< 0.89	1.8	0.3	0.18	< 0.088	< 0.11	< 0.061	0.12	< 0.13	2.6	7.5	< 0.057	18	19	48	10	1.3
OW07A	06/02/93	26	ND	24	ND	**12**	**3.9**	5.1	2	**7.4**	ND	82	25	5.4	--	--	88	170	65
	09/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/96	< 1	< 2	25	33	**9.9**	**1.8**	6.9	3.1	**7.1**	< 0.1	72	24	4.4	87	100	76	130	66
	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	14	< 4.4	14	9.2	**5.9**	**1.2**	5.2	1.6	**4.2**	< 0.65	43	15	3.1	110	5.9	56	78	51
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	40	3.3	15	13	**13**	**4.3**	11	4.8	**6.2**	1.1	67	27	5.3	28	56	**270**	60	63
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	49	7.5	23	3	**18**	**6.4**	6.7	2.7	**6.1**	5.9	57	27	5.2	31	28	**460**	80	74
	05/31/00	38	< 0.15	17	13	**5.6**	**6.8**	5.7	3.2	**26**	1.6	50	40	6.9	21	20	**160**	62	69
	08/31/00	56	< 0.15	29	21	**11**	**11**	14	11	**24**	2.1	61	39	12	35	26	**316**	93	102
	11/21/00	49	3.8	14	13	**4.7**	**2.8**	3.2	1.2	**15**	< 0.068	23	32	1.8	32	29	**383**	51	32
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	35	5.2	16	15	**11**	**5.6**	6.6	5.4	**13**	1.6	34	21	4.7	18	12	40	55	60
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	48	< 2.3	5.1	< 1.9	< 1.2	< 1.4	< 1.5	< 1.3	< 1.8	< 1.7	5.1	23	< 1.4	49	48	**640**	34	6
	06/16/03	29	1.7	3.7	1.8	**1.6**	**0.85**	0.96	0.84	**1.7**	< 0.32	4.7	13	0.63	11	4.7	2.1	5.6	9
	11/20/03	46	3.2	10	5.1	**5.1**	**3**	3.2	3	**5.6**	< 1.6	16	25	< 2.1	33	32	**300**	45	23
	04/20/04	15	0.68	2	0.7	**0.61**	**0.26**	0.33	< 0.37	**0.51**	< 0.31	2.1	7	< 0.4	7.8	3.8	5	2.4	2.7
	07/20/04	38	< 1.8	4	< 1.1	< 1.3	< 1.2	< 1.5	< 1.8	< 1.3	< 1.5	2.7	16	< 2	34	16	**360**	22	2.5
	10/12/04	42	< 1.9	4	< 2	< 1.8	< 1.8	< 2.1	< 1.9	< 1.6	< 2.2	3	18	< 1.7	43	42	**510**	25	2.7
	01/25/05	45	6.7	18	9.9	**9.8**	**5**	5.9	5.4	**10**	< 4.4	28	24	3.5	33	31	**400**	56	38
	04/11/05	20	< 1.9	4	< 2	< 1.8	< 1.8	< 2.1	< 1.9	< 1.6	< 2.2	2.7	8.9	< 1.7	13	11	65	9.2	3.8
	07/11/05	31	< 1.6	4.9	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	11	< 3.8	30	27	**260**	16	2.9
	10/03/05	40	< 1.6	3.8	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	17	< 3.8	34	36	**400**	21	< 2.9
	01/05/06	24	0.57	2.5	0.2	0.059	0.033	0.023	< 2.4	0.11	< 0.019	1.7	11	< 0.019	18	20	**110**	9.6	1.8
	04/11/06	26	0.69	2.9	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	1.7	11	< 0.38	17	15	**200**	12	1.4
	07/21/06	33	< 1.6	4	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	13	< 3.8	28	30	**330**	20	3.8
	10/04/06	38	1.3	5.8	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	4.3	17	< 1.9	36	42	**370**	24	4.5
	02/21/07	9.7	0.56	1.2	< 0.31	< 0.37	< 0.32	< 0.39	< 0.39	< 0.38	< 0.38	1.9	3	< 0.38	1.6	< 0.23	0.92	< 0.23	1.8
	04/19/07	16	< 1.6	< 2.3	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	5.6	< 3.8	11	12	66	5.4	< 2.9
	07/19/07	23	0.52	3.8	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	2.4	< 9.1	< 0.38	15	15	**250**	13	2
	10/22/07	53	1.3	7.8	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	4	21	< 1.9	49	59	**670**	33	3.3

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW7R	01/14/08	38	< 4.1	6.5	< 7.8	< 9.2	< 7.8	< 9.6	< 9.7	< 9.5	< 9.4	< 7.7	15	< 9.4	27	28	**130**	18	< 7.3
	04/29/08	29.7	< 8	< 10.4	< 5.6	< 8.6	< 8.2	< 10	< 12.4	< 11.2	< 6.9	< 8.5	< 10	< 5.8	23.7	25.2	**348**	< 12	< 10.8
	08/12/08	23.7	< 5 0	< 6.5 0	< 3.5 0	< 5.4 0	< 5.1 0	< 6.2 0	< 7.8 0	< 7 0	< 4.3 0	< 5.3 0	12.3	< 3.6 0	19.6	23.2	**219**	21.7	< 6.8 0
	10/29/08	42	< 5	< 6.5	< 3.5	< 5.4	< 5.1	< 6.2	< 7.8	< 7	< 4.3	< 5.3	13.2	< 3.6	44.6	47.5	**496**	20.8	< 6.8
	04/13/09	19.5	0.55	2.3	< 0.35	< 0.54	< 0.51	< 0.62	< 0.78	< 0.7	< 0.43	1.6	9.3	< 0.36	14.3	7.5	87.8	8.4	1.8
	10/05/09	25	0.52	4.1	0.15	< 0.057	< 0.068	< 0.096	< 0.087	0.12	< 0.064	2.6	13.1	< 0.094	16.9	10.2	**250**	18.1	2.3
	04/13/10	22.4	0.34	< 2.3	0.16	0.033	0.02	0.0065	0.023	0.097	< 0.0032	< 1.8	7.2	0.0057	15.4	15.9	**105**	13.4	< 1.9
	10/19/10	49.3	0.98	10.8	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	3.5	21.6	< 0.47	45.5	41.5	**478**	28.5	3.3
	01/19/11	31.3	1	5.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	3.1	12.5	< 9.4	28.8	25.1	92.2	16	3.3
	03/17/11	18.7	0.29	2.7	0.17	< 0.94	< 0.94	< 0.94	< 0.94	0.16	< 0.94	2.4	9.4	< 0.94	16.6	16.6	52.5	12.7	2.3
OW08	06/02/93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	5.4
	09/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/96	< 1	< 2	< 0.2	< 0.05	< 0.024	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.2	< 0.4	< 0.1	< 1	< 1	1.9	< 0.4	< 0.2
	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	< 1	< 0.96	< 0.022	< 0.034	< 0.068	< 0.095	< 0.12	< 0.066	< 0.023	< 0.14	< 0.065	< 0.081	< 0.062	< 0.63	< 0.7	< 0.33	< 0.027	5.4
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	0.66	< 0.56	0.089	< 0.017	< 0.027	< 0.043	< 0.1	< 0.029	< 0.013	< 0.16	0.11	0.032	< 0.084	< 0.4	< 0.6	0.62	0.62	< 0.11
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	< 0.13	< 0.15	< 0.02	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	< 0.066	< 0.11	< 0.08	< 0.082	< 0.072	0.18	< 0.045	5.4
	05/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.15
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/03	0.5	< 0.019	0.071	0.021	0.02	0.017	< 0.016	< 0.019	0.019	< 0.016	0.14	0.059	< 0.021	< 0.018	< 0.017	0.038	0.63	0.14
	11/20/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/05	1	0.029	0.046	< 0.02	< 0.018	< 0.018	< 0.021	< 0.019	< 0.016	< 0.022	0.047	0.33	< 0.017	0.61	0.09	1.2	0.52	0.053
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene [2]**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene [2]**	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene [2]**	**Dibenz(a,h)anthracene**	**Fluoranthene [2]**	**Fluorene [2]**	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW8	04/11/06	2.1	0.08	0.13	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	0.063	0.76	< 0.019	1.6	0.21	4.5	0.95	0.055
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/22/07	2.3	0.063	0.05	< 0.016	< 0.019	< 0.016	< 0.019	< 0.02	< 0.019	< 0.019	0.03	0.5	< 0.019	0.88	0.032	1.4	0.73	0.046
	04/20/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/19/07	0.7	0.022	0.11	< 0.031	< 0.037	< 0.031	< 0.039	< 0.039	< 0.038	< 0.038	0.056	0.095	< 0.038	0.18	< 0.022	0.091	0.66	0.054
	10/22/07	0.86	0.021	0.043	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	0.024	0.11	< 0.019	0.067	0.019	0.093	0.39	0.042
	01/14/08	2.1	0.054	0.06	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	0.05	0.38	< 0.019	0.62	0.045	1.2	0.46	0.055
	04/28/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/13/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/19/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OW09	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/04/97	61	200	1.7	< 0.32	< 0.63	< 0.88	< 1.1	< 0.63	< 0.21	< 1.3	< 0.6	23	< 0.57	140	75	**1000**	17	< 0.64
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	260	210	15	< 0.34	< 0.54	< 0.86	< 2	< 0.58	< 0.26	< 3.2	22	160	< 1.7	340	680	**4800**	110	7.2
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	203	163	28	< 0.11	**4.3**	**1.9**	9.3	< 0.11	< 0.059	< 0.068	48	49	13	291	42	**1980**	153	25
	05/31/00	200	190	11	< 0.11	**0.33**	**0.6**	0.13	0.71	< 0.059	< 0.068	19	101	0.27	277	63	**2960**	84	8.7
	08/31/00	269	85	10	< 0.11	**2**	< 0.055	1.3	< 0.11	< 0.059	< 0.068	17	111	3.8	268	42	**2710**	91	8.5
	11/21/00	215	77	11	< 0.11	**1.7**	0.19	< 0.074	< 0.11	< 0.059	< 0.068	7.7	89	3.8	223	< 0.072	**1920**	87	5.8
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	160	35	4.5	0.32	**0.32**	< 0.28	< 0.3	< 0.26	< 0.36	< 0.34	< 34	48	< 0.28	150	1.8	**530**	70	6.8
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	110	< 9.2	< 8	< 7.6	< 4.8	< 5.6	< 6	< 5.2	< 7.2	< 6.8	< 11	25	< 5.6	63	< 11	< 11	52	< 8
	06/16/03	85	6.7	< 2.1	< 1.3	< 1.5	< 1.4	< 1.7	< 2	< 1.5	< 1.7	3.4	7.2	< 2.2	38	< 1.8	35	21	2.4
	11/20/03	110	7.7	< 5	< 3	< 3.5	< 3.2	< 4	< 4.8	< 3.5	< 4	5.4	9.8	< 5.2	62	< 4.2	78	28	< 4.2
	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	92	8.7	2.4	< 1.1	< 1.3	< 1.2	< 1.5	< 1.8	< 1.3	< 1.5	4.1	14	< 2	63	< 1.6	**110**	27	2.5
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/12/05	100	31	5.2	< 2	< 1.8	< 1.8	< 2.1	< 1.9	< 1.6	< 2.2	4.9	42	< 1.7	130	20	**1100**	56	2.7
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	120	50	6.3	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	5.8	59	< 3.8	160	49	**1700**	72	3.7
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	76	39	3.8	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	5.3	37	< 1.9	92	15	**1100**	48	2.6
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW9	10/04/06	190	44	8.6	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	7	58	< 1.9	220	64	**1800**	80	4.1
	02/21/07	130	23	8.2	< 1.6	< 1.9	< 1.6	< 1.9	< 2	< 1.9	< 1.9	7.9	50	< 1.9	140	47	**1200**	76	4.6
	04/19/07	190	< 81	< 120	< 160	< 180	< 160	< 190	< 190	< 190	< 190	< 150	< 91	< 190	190	< 110	**3100**	< 110	< 150
	07/19/07	210	43	12	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	6.8	80	< 1.9	230	62	**1700**	78	3.6
	10/22/07	270	71	19	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	10	110	< 1.9	320	96	**3600**	120	5.2
	01/14/08	220	< 160	< 230	< 310	< 370	< 310	< 390	< 390	< 380	< 380	< 310	< 180	< 380	310	< 220	**4500**	< 230	< 290
	04/29/08	198	< 49.7	< 65	< 34.7	< 54	< 51.5	< 62.4	< 77.8	< 69.9	< 43.1	< 53.4	< 62.7	< 36.1	224	< 107	**2910**	< 74.8	< 67.6
	08/12/08	206	35.8	18.4	< 0.069	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	< 13.4	89.6	< 0.072	229	79.7	**1630**	105	5.9
	10/29/08	178	44.2	18	< 3.5	< 5.4	< 5.1	< 6.2	< 7.8	< 7	< 4.3	6.9	74.7	< 3.6	248	66.9	**1950**	71.8	< 6.8
	04/13/09	183	21.4	8.7	< 0.35	< 0.54	< 0.51	< 0.62	< 0.78	< 0.7	< 0.43	5.7	71	< 0.36	155	63.6	**1650**	72.6	3.5
	10/05/09	213	48.2	16.9	< 3.8	< 3	< 3.6	< 5.1	< 4.6	< 3.7	< 3.4	7.1	93.9	< 5	212	76.8	**2560**	87.1	< 5
	04/13/10	175	33.3	22.9	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	9.8	91.3	< 0.47	157	90.7	**2370**	< 80.9	5.5
	10/19/10	210	< 45	< 71.7	< 45.3	< 35.7	< 42.5	< 60.1	< 54.6	< 43.5	< 40	< 55.1	77.8	< 58.5	213	99.1	**3720**	103	< 59.3
	01/20/11	8	< 16.8	12.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1	9.4	3.1	< 1	8.1	2.5	**114**	3.9	4.9
	03/17/11	152	18.7	12.4	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	9.1	53.6	< 0.94	157	39.6	**2220**	82.3	4.9
OW10	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/04/97	< 0.96	< 0.89	0.84	1	**0.62**	**0.24**	0.46	0.24	**0.51**	< 0.13	2.8	1.2	0.4	< 0.58	< 0.65	0.89	3.7	1.6
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	6.6	6.1	0.28	0.51	**0.5**	**0.24**	0.51	0.27	**0.37**	< 0.16	1.8	0.45	0.31	11	5.2	**130**	0.71	1.6
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	10	4	1	< 0.11	**3.9**	**2.9**	1	0.69	**2**	< 0.068	5.9	2.8	1.1	9.2	< 0.072	75	2.7	4.6
	05/31/00	1.2	0.37	0.17	0.28	**0.28**	0.11	0.21	0.18	**0.35**	< 0.068	0.79	0.27	0.24	0.78	< 0.072	4.1	0.44	0.65
	08/31/00	32	6.9	1.2	3.3	**1.7**	**5.9**	1.1	1.9	**1.9**	< 0.068	4.4	4.6	1.2	26	< 0.072	0.22	3.1	4.1
	11/21/00	14	2	0.64	1.6	**0.83**	**0.46**	0.3	0.18	**0.59**	< 0.068	1.7	4.7	0.39	7.2	< 0.072	15	1.7	1.5
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	3.5	0.73	0.94	3	**2.9**	**1.8**	1.5	2.3	**2.7**	0.49	5.5	0.61	1.3	0.8	< 0.56	1.4	3	4.7
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	4.7	< 0.46	< 0.4	< 0.38	< 0.24	< 0.28	< 0.3	< 0.26	< 0.36	< 0.34	< 0.56	< 0.42	< 0.28	< 0.54	< 0.56	< 0.54	< 0.38	< 0.4
	06/16/03	0.43	0.59	0.56	2.7	**2.4**	**2.1**	1.4	2	**2.5**	0.48	3.9	< 0.34	1.3	< 0.36	< 0.34	< 0.48	1.4	4.3
	11/20/03	2.1	< 0.38	< 0.4	1.3	**1.2**	**1**	0.68	1.1	**1.3**	< 0.32	2.7	< 0.34	0.59	0.47	< 0.34	0.51	1.2	2
	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/12/05	20	7.1	< 0.35	< 0.39	< 0.36	< 0.36	< 0.41	< 0.39	< 0.33	< 0.44	< 0.33	4	< 0.34	30	3.3	**340**	< 0.41	< 0.33
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW10	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	2.4	0.37	< 0.23	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	< 0.31	0.5	< 0.38	2.8	0.35	19	< 0.23	< 0.29
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	160	23	0.62	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	0.31	37	< 0.38	160	0.65	**150**	31	< 0.29
	02/21/07	45	5.6	< 1.2	< 1.6	< 1.9	< 1.6	< 1.9	< 2	< 1.9	< 1.9	< 1.6	10	< 1.9	54	3.2	**320**	6.7	< 1.5
	04/19/07	9.8	< 1.6	< 2.3	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	< 1.8	< 3.8	10	< 2.2	38	< 2.3	< 2.9
	07/19/07	120	17	< 1.2	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	39	< 1.9	97	< 1.1	**100**	40	< 1.5
	10/23/07	85	9.9	2.6	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	23	< 1.9	73	< 1.1	**180**	16	< 1.5
	01/14/08	160	4.1	3.1	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	45	< 1.9	150	24	**970**	40	< 1.5
	04/29/08	1.1	< 0.2	< 0.26	< 0.14	< 0.22	< 0.21	< 0.25	< 0.31	< 0.28	< 0.17	< 0.21	0.33	< 0.14	1.2	< 0.43	10.6	0.3	< 0.27
	08/12/08	114	10.2	< 2.6 0	< 1.4 0	< 2.2 0	< 2.1 0	< 2.5 0	< 3.1 0	< 2.8 0	< 1.7 0	< 2.1 0	44.3	< 1.4 0	82.1	< 4.3 0	42.3	40.5	< 2.7 0
	10/29/08	80.6	< 5	< 6.5	< 3.5	< 5.4	< 5.1	< 6.2	< 7.8	< 7	< 4.3	< 5.3	18.7	< 3.6	76	< 10.7	**282**	18	< 6.8
	04/13/09	50.2	2	< 0.65	< 0.35	< 0.54	< 0.51	< 0.62	< 0.78	< 0.7	< 0.43	< 0.53	14.7	< 0.36	53.4	1.8	**145**	11.2	< 0.68
	10/05/09	281	17.6	< 12.2	< 7.7	< 6.1	< 7.2	< 10.2	< 9.3	< 7.4	< 6.8	< 9.3	83.8	< 9.9	181	27.8	**2370**	59.4	< 10.1
	04/13/10	26.1	0.63	1.5	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	< 0.44	6.2	< 0.47	22.4	3.5	**119**	2.9	< 0.47
	10/19/10	42.5	1.8	2.1	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	< 0.44	12.1	< 0.47	32	< 0.39	15.1	7.2	< 0.47
	01/18/11	78.8	1.2	1.5	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	27.3	< 4.7	56.8	1	52.8	21.7	< 4.7
	03/16/11	20.5	0.3	0.42	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	0.14	7.9	< 0.94	16	0.21	18.4	6.6	0.096
OW11	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	< 0.13	< 0.15	< 0.02	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	< 0.066	< 0.11	< 0.08	< 0.082	< 0.072	< 0.056	< 0.045	< 0.032
	05/31/00	6.3	< 0.15	0.4	0.29	0.013	< 0.055	< 0.074	< 0.11	**0.2**	< 0.068	0.95	1.7	< 0.08	0.6	0.22	1.7	0.45	0.95
	08/31/00	3.4	< 0.16	0.25	0.7	**0.21**	**0.48**	0.33	< 0.12	**0.43**	< 0.07	1	< 0.12	0.55	< 0.084	< 0.074	0.22	0.33	0.96
	11/21/00	3.3	< 0.15	0.13	< 0.11	< 0.013	**0.29**	0.17	< 0.11	0.16	< 0.068	0.42	0.48	0.27	0.32	< 0.072	0.36	0.13	0.41
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	4.2	< 0.34	< 0.3	< 0.28	< 0.18	< 0.21	< 0.23	< 0.2	< 0.27	< 0.26	< 0.42	0.9	< 0.21	< 0.4	< 0.42	< 0.4	< 0.28	< 0.3
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	1.9	< 0.11	< 0.1	0.096	0.093	0.095	< 0.075	0.077	0.092	< 0.085	0.21	0.52	< 0.07	< 0.14	< 0.14	< 0.14	< 0.095	0.24
	06/16/03	4.3	0.14	0.059	0.075	0.071	0.058	0.045	0.06	0.06	< 0.016	0.17	1.2	0.041	0.06	0.024	0.061	0.053	0.22
	11/20/03	2.6	< 0.19	< 0.2	< 0.12	< 0.14	< 0.13	< 0.16	< 0.19	< 0.14	< 0.16	< 0.13	0.63	< 0.21	0.36	< 0.17	< 0.24	< 0.16	< 0.17
	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	2.5	0.072	0.027	< 0.011	< 0.013	< 0.012	< 0.015	< 0.018	< 0.013	< 0.015	0.054	0.85	< 0.02	0.022	< 0.016	< 0.023	< 0.015	0.068
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/05	1.3	0.043	0.025	< 0.02	< 0.018	< 0.018	< 0.021	< 0.019	< 0.016	< 0.022	0.044	0.19	< 0.017	0.023	< 0.023	0.024	< 0.02	0.068
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene [2]**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene [2]**	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene [2]**	**Dibenz(a,h)anthracene**	**Fluoranthene [2]**	**Fluorene [2]**	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW11	04/11/06	2	0.078	< 0.058	< 0.079	< 0.093	< 0.079	< 0.097	< 0.098	< 0.096	< 0.095	< 0.078	0.47	< 0.095	0.14	< 0.057	1.1	< 0.057	< 0.073
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/21/07	2.8	0.086	0.028	< 0.016	< 0.019	< 0.016	< 0.019	< 0.02	< 0.019	< 0.019	0.053	0.16	< 0.019	0.016	< 0.011	0.037	0.013	0.061
	04/19/07	1.9	0.058	0.019	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	0.041	0.47	< 0.019	0.044	< 0.011	0.27	< 0.011	0.043
	07/19/07	1.6	< 0.065	< 0.093	< 0.12	< 0.15	< 0.13	< 0.15	< 0.15	< 0.15	< 0.15	< 0.12	1.1	< 0.15	< 0.081	< 0.09	< 0.099	< 0.091	< 0.12
	10/22/07	3.5	0.082	0.043	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	0.087	0.48	< 0.019	0.11	< 0.011	0.038	0.016	0.081
	01/14/08	2	0.043	0.03	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	0.074	0.17	< 0.019	< 0.01	< 0.011	0.014	0.012	0.073
	04/28/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/29/08	0.83	0.031	< 0.026	< 0.014	< 0.022	< 0.021	< 0.025	< 0.031	< 0.028	< 0.017	0.069	0.051	< 0.014	0.14	0.17	0.79	0.034	0.055
	04/13/09	1.9	0.038	0.014	0.0044	0.0058	0.0075	< 0.0062	< 0.0078	0.007	< 0.0043	0.053	0.38	0.0042	0.022	< 0.011	0.02	0.011	0.057
	10/05/09	1.4	0.054	0.054	0.012	0.0098	0.0092	0.0057	0.0062	0.0097	< 0.0034	0.1	0.45	< 0.005	0.15	0.2	0.44	0.07	0.094
	04/13/10	2.7	0.086	0.03	0.0039	0.0037	0.0046	< 0.0048	0.0057	0.0052	< 0.0032	0.081	0.25	< 0.0047	0.075	0.026	0.22	0.067	0.07
	10/19/10	1.3	0.032	0.031	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	0.11	0.11	< 0.0047	0.0074	0.0077	0.07	0.015	0.11
	01/25/11	0.5	0.011	0.0083	< 0.047	0.0047	< 0.047	< 0.047	0.0089	0.0085	< 0.047	0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.036
	03/17/11	0.48	0.011	0.016	0.0084	0.0068	0.011	0.015	0.013	0.012	0.012	0.07	0.012	0.012	0.016	0.01	0.074	0.009	0.064
OW12	07/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/04	23	0.36	< 1.8	0.046	0.03	0.025	< 0.021	0.022	0.039	< 0.022	2.3	13	< 0.017	4.1	0.094	2.5	19	< 1.6
	01/25/05	24	< 2	2.7	< 2	< 1.8	< 1.8	< 2.1	< 2	< 1.7	< 2.2	2.1	8.5	< 1.7	19	7.7	79	15	< 1.7
	04/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/12/05	20	< 1.9	5	< 2	< 1.8	< 1.8	< 2.1	< 1.9	< 1.6	< 2.2	2	7.2	< 1.7	6.6	< 2.3	3.8	12	< 1.6
	07/11/05	16	< 0.41	1.6	< 0.78	< 0.92	< 0.78	< 0.96	< 0.97	< 0.95	< 0.94	1.3	4.7	< 0.94	7.5	< 0.56	2.1	6.2	0.82
	10/03/05	14	< 0.41	1.7	< 0.78	< 0.92	< 0.78	< 0.96	< 0.97	< 0.95	< 0.94	2.3	6.6	< 0.94	4.5	< 0.56	13	13	1.5
	01/05/06	21	0.46	4.1	0.18	0.16	0.15	0.1	< 1.9	0.14	0.02	2.7	8.8	0.084	9.3	1.5	27	17	2
	04/11/06	< 0.0082	0.022	< 0.012	0.026	0.023	0.017	< 0.019	0.02	0.023	< 0.019	0.042	< 0.0091	< 0.019	< 0.01	< 0.011	0.013	0.012	0.037
	07/21/06	5.5	< 0.2	1	< 0.39	< 0.46	< 0.39	< 0.48	< 0.48	< 0.47	< 0.47	2.2	3.6	< 0.47	0.35	< 0.28	< 0.31	6.2	1.4
	10/04/06	19	0.53	2.3	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	3.6	7.6	< 0.38	2.7	< 0.22	8.6	17	2.5
	02/21/07	23	0.45	3.4	< 0.31	< 0.37	< 0.32	< 0.39	< 0.39	< 0.38	< 0.38	3.7	9.6	< 0.38	6	1.1	11	17	2.7
	04/19/07	5.5	0.11	0.39	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	1.4	2	< 0.019	1.8	< 0.011	1.5	1.6	1
	07/19/07	12	0.18	0.71	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	2.2	2.5	< 0.019	0.96	0.068	0.9	1.5	1.4
	10/22/07	11	< 0.81	1.8	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	3.9	3.7	< 1.9	2.4	< 1.1	22	4.9	1.7
	01/15/08	53	2.5	< 1.4	< 1.9	< 2.3	< 2	< 2.4	< 2.4	< 2.4	< 2.4	< 1.9	7.5	< 2.4	12	< 1.4	< 1.5	< 1.4	< 1.8
	04/29/08	9.3	0.2	< 0.27	0.027	0.026	0.028	0.019	0.023	0.022	< 0.0044	1.7	3.8	0.014	3.1	0.02	0.8	7	1.1
	08/12/08	10	< 0.25	0.38	< 0.17	< 0.27	< 0.26	< 0.31	< 0.39	< 0.35	< 0.22	1.4	4.2	< 0.18	< 0.48	< 0.53	< 0.82	1.3	1.1
	10/30/08	6.3	0.12	0.28	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	1.1	1.3	< 0.0036	0.45	0.014	0.23	1.4	0.84
	04/13/09	13.7	0.17	1.9	< 0.069	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	2.6	8.5	< 0.072	4.2	1.2	2.2	11.2	2.4
	10/05/09	22.3	< 0.31	3.5	< 0.31	< 0.24	< 0.29	< 0.41	< 0.37	< 0.3	< 0.27	4.2	11.6	< 0.4	1.6	< 0.33	4.7	16.5	3.5
	04/14/10	11.4	0.14	1.6	< 0.0036	0.0045	0.0053	< 0.0048	< 0.0044	0.0039	< 0.0032	2.6	5.4	< 0.0047	0.69	0.11	0.31	6.7	1.9

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW12	10/19/10	25.3	0.31	3.8	0.006	0.0058	0.0058	< 0.0048	0.0053	0.0053	< 0.0032	3.3	9.7	< 0.0047	5.3	0.11	6	15.2	3
	01/19/11	18.1	0.22	2.1	0.0058	0.0056	0.0069	0.0057	0.0071	0.0075	< 0.047	2.9	8.1	0.0048	3.2	2	13.6	11.5	2.6
	03/17/11	27.1	0.32	2.9	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	3.5	9.7	< 0.94	17.2	4.6	39.6	15.5	2.9
OW14	07/25/07	9.5	1.1	< 0.23	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	< 0.31	0.77	< 0.38	8.8	< 0.22	52	1.3	< 0.29
	10/22/07	190	14	1.5	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	19	< 1.9	170	29	**1600**	14	< 1.5
	04/29/08	181	< 9.9	< 13	< 6.9	< 10.8	< 10.3	< 12.5	< 15.6	< 14	< 8.6	< 10.7	< 12.5	< 7.2	108	< 21.4	**608**	26.4	< 13.5
	08/12/08	132	< 0.5	0.86	< 0.35	< 0.54	< 0.51	< 0.62	< 0.78	< 0.7	< 0.43	< 0.53	11.3	< 0.36	54	4.8	**387**	21.3	< 0.68
	10/30/08	101	2.2	< 2.6	< 1.4	< 2.2	< 2.1	< 2.5	< 3.1	< 2.8	< 1.7	< 2.1	16.2	< 1.4	58.8	5.1	95.7	31.3	< 2.7
	04/13/09	123	1.6	< 0.65	< 0.35	< 0.54	< 0.51	< 0.62	< 0.78	< 0.7	< 0.43	< 0.53	27	< 0.36	65.3	8.3	**244**	31.3	< 0.68
	10/05/09	17.8	< 0.31	< 0.49	< 0.31	< 0.24	< 0.29	< 0.41	< 0.37	< 0.3	< 0.27	< 0.37	< 0.4	< 0.4	2.9	< 0.33	9.5	22.7	< 0.4
	04/13/10	35.1	0.52	1.7	< 0.072	< 0.057	< 0.068	< 0.096	< 0.087	< 0.07	< 0.064	< 0.088	0.48	< 0.094	2.1	< 0.077	4.3	6.1	< 0.095
	10/19/10	56	1.4	0.85	< 0.072	< 0.057	< 0.068	< 0.096	< 0.087	< 0.07	< 0.064	< 0.088	4.2	< 0.094	27.8	4.3	**173**	7.4	< 0.095
	01/18/11	42.9	< 11.8	< 11.8	< 11.8	< 11.8	< 11.8	< 11.8	< 11.8	< 11.8	< 11.8	< 11.8	10.4	< 11.8	28.3	6.3	**149**	9	< 11.8
	03/16/11	26.4	< 0.94	< 0.94	0.079	0.15	**0.43**	0.3	0.4	**0.41**	< 0.94	< 0.94	10	0.21	19.1	1.6	< 0.94	7	< 0.94
OW15	07/24/07	0.61	0.013	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	0.013	< 0.019	< 0.01	< 0.011	0.019	0.017	< 0.015
	10/22/07	0.14	0.0097	0.022	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	0.077	0.02	< 0.015
	01/15/08	0.032	< 0.016	0.029	0.067	0.089	0.11	0.1	0.13	0.17	< 0.038	0.36	< 0.018	0.077	< 0.02	< 0.022	< 0.025	0.16	0.25
	04/29/08	0.18	0.0076	0.01	0.0099	0.012	0.015	0.011	0.015	0.016	< 0.0043	0.033	< 0.0063	0.0081	< 0.0096	< 0.011	0.022	0.018	0.035
	08/12/08	0.14	0.011	0.016	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	0.025	0.029	0.16	0.013	0.0096
	10/30/08	0.2	0.0075	0.0092	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	< 0.0095	< 0.011	0.017	0.009	0.0084
	04/13/09	< 0.0078	< 0.005	< 0.0065	0.0039	< 0.0054	0.0081	< 0.0062	< 0.0078	0.0072	< 0.0043	0.012	< 0.0063	0.004	< 0.0095	< 0.011	< 0.016	< 0.0075	0.017
	10/05/09	0.22	0.0094	0.018	0.0044	0.0051	0.0058	< 0.0051	0.0065	0.0067	< 0.0034	0.012	< 0.0051	< 0.005	0.011	0.005	0.056	0.035	0.021
	04/13/10	0.16	0.0055	0.0082	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	0.0098	0.025	< 0.0047	0.0099	0.0084	0.053	0.025	0.0089
	10/19/10	0.011	< 0.0036	0.0076	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	< 0.0048	< 0.0047	0.01	0.0047	0.09	< 0.0081	< 0.0047
	01/19/11	< 0.047	0.0036	0.017	0.0058	0.0043	0.0045	0.0063	0.0071	0.006	0.0032	0.014	0.0048	0.0055	< 0.047	0.0047	< 0.047	0.019	0.012
	03/17/11	0.011	0.0044	0.012	0.008	0.0067	0.0072	0.007	0.0072	0.01	< 0.048	0.022	< 0.048	< 0.048	< 0.048	0.0075	0.016	0.02	0.023
OW16	07/24/07	0.039	0.011	0.025	0.02	0.02	0.021	< 0.019	< 0.019	0.021	< 0.019	0.11	0.024	< 0.019	< 0.01	< 0.011	0.02	0.014	0.077
	10/22/07	0.057	0.16	0.11	0.46	**0.61**	**0.43**	0.36	0.48	**0.48**	0.097	0.76	0.033	0.33	< 0.025	< 0.028	0.058	0.033	0.6
	01/14/08	0.085	0.57	0.2	2	**2.4**	**1.7**	1.3	1.9	**2.1**	0.36	2.9	< 0.091	1.3	< 0.1	< 0.11	0.18	< 0.11	2.4
	04/29/08	0.075	0.011	0.0092	0.016	0.015	0.016	0.013	0.017	0.018	< 0.0043	0.045	0.017	0.0092	0.059	< 0.011	0.19	0.0096	0.046
	10/29/08	0.072	0.013	0.017	0.023	0.024	0.021	0.015	0.022	0.021	< 0.0043	0.1	0.043	0.014	0.032	0.03	0.062	0.0099	0.076
	04/13/09	0.039	< 0.005	< 0.0065	0.01	0.011	0.0096	0.0079	0.011	0.011	< 0.0043	0.03	0.018	0.0069	< 0.0095	< 0.011	< 0.016	< 0.0075	0.027
	10/05/09	0.028	0.042	0.035	0.13	0.15	0.11	0.072	0.089	0.1	0.025	0.2	0.018	0.066	< 0.0053	0.0057	0.028	0.01	0.17
	04/14/10	0.079	0.018	0.017	0.057	0.055	0.045	0.04	0.055	0.047	0.01	0.094	0.035	0.035	0.017	0.0089	0.041	0.039	0.076
	10/19/10	0.019	0.0092	0.042	0.012	0.012	0.0089	0.011	0.014	0.014	< 0.0032	0.04	0.013	0.0075	0.0055	< 0.0039	0.02	< 0.0081	0.039
	01/19/11	< 0.047	0.011	0.021	0.025	0.033	0.023	0.024	0.031	0.028	0.0059	0.047	0.0077	0.021	< 0.047	< 0.047	< 0.047	< 0.047	0.042
	03/16/11	< 0.047	< 0.047	< 0.047	0.018	0.02	0.018	0.014	0.02	0.021	< 0.047	0.042	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
OW17	07/24/07	5.4	< 0.16	0.24	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	< 0.31	1.7	< 0.38	1.2	< 0.22	< 0.25	0.65	< 0.29
	10/22/07	10	0.08	0.26	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	0.068	3.7	< 0.019	1.9	0.18	0.082	2.3	0.037
	01/14/08	8.7	0.069	0.25	0.023	0.026	0.018	< 0.019	0.025	0.025	< 0.019	0.081	3.1	< 0.019	1.6	0.1	0.093	1.9	0.051
	04/29/08	5.2	< 0.005	0.15	0.014	0.013	0.011	0.0068	0.012	0.012	< 0.0043	0.051	1.5	0.0055	0.9	0.037	0.15	0.87	0.037
	10/29/08	5.2	< 0.099	0.19	< 0.069	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	< 0.11	1.9	< 0.072	< 0.19	< 0.21	< 0.33	0.69	< 0.14
	04/13/09	2.8	< 0.04	< 0.052	< 0.028	< 0.043	< 0.041	< 0.05	< 0.062	< 0.056	< 0.034	< 0.043	1.1	< 0.029	< 0.076	< 0.086	< 0.13	< 0.06	< 0.054
	10/05/09	5.2	< 0.038	0.092	< 0.038	< 0.03	< 0.036	< 0.051	< 0.046	< 0.037	< 0.034	0.059	2.1	< 0.05	0.16	< 0.041	0.053	0.55	< 0.05
	04/14/10	1.9	0.009	0.039	0.013	0.01	0.01	0.0068	0.01	0.0097	< 0.0032	0.049	0.7	0.0063	0.012	0.0092	0.055	0.019	0.029
	10/19/10	4.2	< 0.072	0.15	< 0.072	0.077	< 0.068	< 0.096	< 0.087	0.072	< 0.064	0.13	1.6	< 0.094	< 0.1	< 0.077	< 0.097	0.31	0.1
	01/19/11	3.3	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	1.1	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94
	03/16/11	3	< 0.047	< 0.047	0.015	0.015	0.016	0.013	0.018	0.016	0.0041	< 0.047	0.96	0.011	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047
OW18	01/20/11	2.5	0.053	0.062	0.013	0.0056	0.0061	< 0.047	0.0064	0.014	< 0.047	0.14	0.62	< 0.047	0.0078	0.0058	< 0.047	0.11	0.083
	03/16/11	4.2	0.048	0.036	0.011	0.011	0.021	0.013	0.014	0.017	< 0.047	0.071	0.65	0.0098	0.018	0.005	0.025	0.036	0.021
OW19	01/20/11	0.25	0.068	0.013	0.012	0.011	0.012	0.011	0.013	0.015	< 0.049	0.028	< 0.049	0.0062	0.0096	0.016	< 0.049	0.026	0.029
	03/17/11	0.084	0.0064	0.014	0.015	0.015	0.016	0.018	0.022	0.019	0.0048	0.034	0.006	0.013	0.016	0.015	0.049	0.027	0.042
OW20	01/20/11	0.0093	0.022	0.034	0.071	0.082	0.071	0.066	0.079	0.092	0.013	0.19	< 0.048	0.049	0.0054	0.0074	< 0.048	0.063	0.17
	03/17/11	0.0083	0.0084	0.014	0.0086	0.0087	0.0091	0.01	0.01	0.013	< 0.047	0.028	0.0091	0.0069	0.018	0.024	0.085	0.03	0.024
OW21	01/20/11	< 0.048	0.013	0.081	0.051	0.053	0.045	0.045	0.055	0.065	0.01	0.24	0.018	0.035	< 0.048	0.0071	< 0.048	0.19	0.18
	03/16/11	< 0.047	0.079	0.065	0.26	**0.33**	**0.36**	0.27	0.27	**0.28**	0.068	0.42	< 0.047	0.21	< 0.047	< 0.047	0.047	0.066	0.4
P05B	09/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/17/93	ND	ND	20	0.71	ND	ND	ND	ND	**0.23**	ND	17	130	ND	--	--	ND	110	5.7
	08/15/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/96	< 5	< 10	12	0.25	< 0.12	< 0.25	< 1	< 0.25	< 0.5	< 0.5	11	97	< 0.5	660	390	**3500**	76	3.2
	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/04/97	110	770	110	< 0.16	< 0.32	< 0.44	< 0.55	< 0.3	< 0.1	< 0.65	11	110	< 0.28	630	300	**2600**	67	3.5
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	190	180	13	< 0.17	< 0.27	< 0.43	< 1	< 0.29	< 0.13	< 1.6	17	130	< 0.83	250	530	**2800**	84	5.3
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	4.3	< 0.15	< 0.02	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	< 0.066	1.3	< 0.08	< 0.082	< 0.072	< 0.056	< 0.045	< 0.032
	05/31/00	29	< 0.15	< 0.02	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	0.06	< 0.069	0.72	13	< 0.081	< 0.072	29	0.51	2.6	0.42
	08/31/00	262	< 0.15	18	2.4	**0.85**	**0.5**	< 0.074	< 0.11	**0.74**	< 0.068	14	159	< 0.08	340	134	**3030**	93	10
	11/21/00	266	141	15	1.3	< 0.013	**0.26**	0.18	0.14	**0.65**	< 0.068	7.4	156	< 0.08	326	94	**3420**	103	7.8
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	< 220	< 280	< 240	0.55	**0.34**	< 0.28	< 0.3	< 0.26	< 0.36	< 0.34	5.7	< 250	< 0.28	< 320	< 340	**2900**	< 230	3.6
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	230	< 120	< 100	< 95	< 60	< 70	< 75	< 65	< 90	< 85	< 140	< 110	< 70	320	< 140	**3800**	110	< 100

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
P05B	06/16/03	260	< 95	< 100	0.29	< 0.28	< 0.26	< 0.32	< 0.38	< 0.28	< 0.32	8.1	110	< 0.42	360	130	**3900**	100	6.5
	11/20/03	260	82	17	< 6	< 7	< 6.5	< 8	< 9.5	< 7	< 8	8	120	< 10	370	170	**4800**	110	< 8.5
	04/20/04	79	< 65	4.2	< 0.48	< 0.56	< 0.52	< 0.64	< 0.76	< 0.56	< 0.64	2	< 58	< 0.84	91	18	**1000**	< 54	1.2
	07/20/04	62	6	2	< 1.1	< 1.3	< 1.2	< 1.5	< 1.8	< 1.3	< 1.5	2.5	20	< 2	24	< 1.6	< 2.3	5.8	1.7
	10/12/04	< 160	32	8.2	< 2	< 1.8	< 1.8	< 2.1	< 1.9	< 1.6	< 2.2	6.7	< 170	< 1.7	< 160	42	**1500**	< 160	4.4
	01/25/05	210	66	18	< 3.9	< 3.6	< 3.6	< 4.1	< 3.9	< 3.3	< 4.4	10	100	< 3.4	270	140	**3300**	95	5.6
	04/11/05	94	12	< 3.5	< 3.9	< 3.6	< 3.6	< 4.1	< 3.9	< 3.3	< 4.4	< 3.3	21	< 3.4	38	< 4.5	< 4.5	< 4.1	< 3.3
	07/11/05	100	21	5.8	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	35	< 3.8	92	18	**430**	22	< 2.9
	10/03/05	130	21	5.2	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	44	< 3.8	130	31	**440**	30	< 2.9
	01/05/06	80	4.4	1	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	0.93	12	< 0.38	8.8	< 0.22	< 0.25	< 0.23	0.59
	04/11/06	90	7.8	3.2	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	29	< 3.8	57	5.3	34	11	< 2.9
	07/21/06	150	19	9.2	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	3.9	49	< 3.8	130	21	**240**	41	< 2.9
	10/04/06	140	20	8.6	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	4.2	41	< 0.38	130	38	**1200**	48	2.7
	02/21/07	110	11	10	< 1.6	< 1.9	< 1.6	< 1.9	< 2	< 1.9	< 1.9	5	50	< 1.9	110	46	**1300**	64	3
	04/19/07	0.019	0.031	0.12	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	0.019	0.0094	< 0.019	< 0.01	< 0.011	0.022	0.025	0.037
	07/19/07	85	17	2.4	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	3	25	< 1.9	36	1.6	**480**	3.9	1.8
	10/22/07	170	15	11	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	5.1	43	< 0.38	130	10	**1300**	39	3.1
	01/14/08	0.022	0.047	0.11	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	0.2	0.021	< 0.019	0.013	< 0.011	0.029	0.043	0.055
	04/28/08	140	< 24.8	< 32.5	< 17.3	< 27	< 25.7	< 31.2	< 38.9	< 34.9	< 21.5	< 26.7	< 31.3	< 18	109	< 53.5	**947**	38.2	< 33.8
	08/12/08	118	12.9	11	< 0.35	< 0.54	< 0.51	< 0.62	< 0.78	< 0.7	< 0.43	6.9	45.8	< 0.36	98.1	20.1	**485**	50	4.4
	10/29/08	152	7.9	14.2	< 3.5	< 5.4	< 5.1	< 6.2	< 7.8	< 7	< 4.3	< 5.3	51	< 3.6	131	29.9	**1030**	42.5	< 6.8
	04/13/09	12.1	0.56	0.24	< 0.069	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	0.96	1.3	< 0.072	< 0.19	< 0.21	< 0.33	< 0.15	0.85
	10/05/09	132	9.5	10.1	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	4.9	47.8	< 0.47	67.7	8.5	**555**	37.6	3.4
	04/14/10	< 0.0045	0.047	0.024	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	0.0048	< 0.0032	0.0091	< 0.0048	< 0.0047	< 0.005	0.0047	0.016	< 0.0081	0.011
	10/20/10	146	20.5	15.6	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	7.6	73.3	< 0.47	119	24.9	**1600**	67.4	5.2
	01/25/11	19.5	0.73	1.6	0.017	0.0038	< 0.047	< 0.047	< 0.047	0.018	< 0.047	1.2	12.3	< 0.047	19.2	1.4	14.8	5.1	0.71
	03/17/11	< 0.047	0.06	0.036	0.0075	0.0056	0.0075	0.005	0.0053	0.008	< 0.047	0.022	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.017
PZ03B	09/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/09/96	< 1	< 2	< 0.2	< 0.05	< 0.024	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.2	< 0.4	< 0.1	< 1	< 1	< 1	< 0.4	< 0.2
	08/15/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/96	< 1	< 2	< 0.2	< 0.05	< 0.024	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.2	< 0.4	< 0.1	< 1	< 1	< 1	< 0.4	< 0.2
	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	< 1	< 0.94	< 0.021	< 0.034	< 0.067	< 0.093	< 0.12	< 0.065	< 0.022	< 0.14	< 0.064	< 0.08	< 0.06	< 0.61	< 0.69	< 0.33	< 0.026	< 0.068
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	< 0.23	< 0.57	< 0.019	0.06	0.12	0.049	< 0.1	< 0.03	0.047	< 0.17	< 0.1	< 0.03	< 0.086	< 0.42	< 0.62	< 0.23	0.055	< 0.049
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	< 0.13	< 0.15	< 0.02	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	< 0.066	< 0.11	< 0.08	< 0.082	< 0.072	0.12	< 0.045	< 0.032

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene [2]**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene [2]**	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene [2]**	**Dibenz(a,h)anthracene**	**Fluoranthene [2]**	**Fluorene [2]**	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
PZ03B	05/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/21/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	< 0.018	< 0.023	< 0.02	0.049	0.062	0.05	0.046	0.047	0.049	< 0.017	0.055	< 0.021	0.038	< 0.027	< 0.028	0.029	0.021	0.052
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/03	< 0.018	< 0.019	< 0.02	0.016	0.016	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	0.026	< 0.017	< 0.021	< 0.018	< 0.017	0.033	< 0.016	0.025
	11/20/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/05	< 0.019	< 0.019	< 0.018	< 0.02	< 0.018	< 0.018	< 0.021	< 0.019	< 0.016	< 0.022	< 0.016	< 0.022	< 0.017	< 0.02	< 0.023	< 0.022	< 0.02	< 0.016
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	0.078	< 0.0082	0.014	< 0.016	< 0.019	< 0.016	< 0.019	< 0.02	< 0.019	< 0.019	< 0.016	0.045	< 0.019	0.054	0.056	0.23	0.062	< 0.015
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/21/07	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	0.014	< 0.011	< 0.015
	04/19/07	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	0.024	< 0.011	< 0.015
	07/19/07	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	0.013	0.043	< 0.011	< 0.015
	10/22/07	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	0.034	< 0.011	< 0.015
	01/14/08	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	0.018	< 0.011	< 0.015
	04/28/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/29/08	0.011	< 0.005	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	< 0.0095	< 0.011	0.039	< 0.0075	< 0.0068
	04/13/09	0.021	< 0.005	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	0.02	< 0.011	0.066	< 0.0075	< 0.0068
	10/05/09	0.0072	0.0053	< 0.0061	0.0095	0.0084	0.0056	< 0.0051	0.0056	0.007	< 0.0034	0.017	0.0059	< 0.005	0.0074	0.0093	0.031	0.018	0.014
	04/13/10	0.13	0.01	0.026	0.013	0.013	0.011	0.0095	0.017	0.018	0.0038	0.036	0.055	0.0081	0.074	0.06	0.51	0.056	0.029
	10/19/10	0.0087	< 0.0036	0.013	0.027	0.015	0.029	0.022	0.039	0.036	0.016	0.051	< 0.0048	0.018	0.011	0.011	0.11	0.023	0.03
	01/25/11	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.007	< 0.047	< 0.047
	03/17/11	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.0071	< 0.047	< 0.047

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
PZ07B	09/16/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/09/96	440	< 40	10	< 1	< 0.48	< 1	< 4	< 1	< 2	< 2	5.6	130	< 2	1700	350	**2600**	87	< 4
	08/15/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/16/96	390	450	1.4	< 0.25	< 0.12	< 0.25	< 1	< 0.25	< 0.5	< 0.5	1.5	36	< 0.5	620	180	**870**	15	0.76
	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	290	350	2.4	< 0.16	< 0.32	< 0.44	< 0.55	< 0.3	< 0.1	< 0.65	< 0.3	32	< 0.28	110	53	< 1.6	15	< 0.32
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	190	100	2.7	< 0.017	< 0.027	< 0.043	< 0.1	< 0.029	< 0.013	< 0.16	2.2	52	< 0.083	170	170	**970**	23	1
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	223	< 0.15	3.1	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	0.13	< 0.068	3.4	54	< 0.08	219	224	**1000**	20	1.8
	05/31/00	154	207	11	0.23	< 0.013	< 0.055	< 0.074	< 0.11	0.09	< 0.068	6.2	164	< 0.08	289	348	**1700**	101	6.2
	08/31/00	173	195	17	0.36	< 0.013	< 0.055	< 0.074	< 0.11	0.15	< 0.068	7.3	181	< 0.08	300	324	**358**	93	7.8
	11/21/00	174	176	15	0.25	< 0.013	< 0.055	< 0.074	< 0.11	0.11	< 0.068	8.3	111	< 0.08	305	374	**966**	98	7.3
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	160	< 170	8.3	< 0.38	< 0.24	< 0.28	< 0.3	< 0.26	< 0.36	< 0.34	2.9	< 150	< 0.28	270	350	**2300**	< 140	4.5
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	160	130	7.4	< 1.9	< 1.2	< 1.4	< 1.5	< 1.3	< 1.8	< 1.7	3.3	< 84	< 1.4	300	380	**1700**	98	5.4
	06/16/03	150	25	11	< 1.2	< 1.4	< 1.3	< 1.6	< 1.9	< 1.4	< 1.6	2.9	50	< 2.1	190	5.5	< 2.4	87	6
	11/20/03	< 180	< 190	15	< 3	< 3.5	< 3.2	< 4	< 4.8	< 3.5	< 4	< 3.2	56	< 5.2	310	400	**2700**	95	5.2
	04/20/04	140	32	1.3	< 0.46	< 0.53	< 0.5	< 0.61	< 0.72	< 0.53	< 0.61	< 0.5	30	< 0.8	160	140	48	18	< 0.65
	07/20/04	50	8.5	< 1.9	< 1.1	< 1.3	< 1.2	< 1.5	< 1.8	< 1.3	< 1.5	< 1.2	8.6	< 2	52	46	62	11	< 1.6
	10/12/04	< 78	9.8	< 1.8	< 2	< 1.8	< 1.8	< 2.1	< 1.9	< 1.6	< 2.2	< 1.6	7.9	< 1.7	< 80	< 91	**980**	5.9	< 1.6
	01/25/05	140	170	15	< 3.9	< 3.6	< 3.6	< 4.1	< 3.9	< 3.3	< 4.4	4.4	55	< 3.4	290	390	**2800**	88	6.3
	04/11/05	84	41	16	< 3.9	< 3.6	< 3.6	< 4.1	< 3.9	< 3.3	< 4.4	< 3.3	19	< 3.4	120	130	**700**	39	< 3.3
	07/11/05	77	26	4.2	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	10	< 3.8	95	98	**810**	8.6	< 2.9
	10/03/05	72	20	< 2.3	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	9.5	< 3.8	97	85	**890**	7.9	< 2.9
	01/05/06	94	26	< 4.6	< 6.2	< 7.3	< 6.3	< 7.7	< 7.7	< 7.6	< 7.5	< 6.2	12	< 7.5	120	160	**1600**	9.6	< 5.8
	04/11/06	78	30	1.4	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	13	< 1.9	110	100	**590**	9.1	< 1.5
	07/21/06	110	42	7.4	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	24	< 3.8	150	170	**1000**	50	4.7
	10/04/06	180	110	11	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	4.8	41	< 0.38	300	380	**2000**	97	7.9
	02/21/07	81	28	4.9	< 0.31	< 0.37	< 0.32	< 0.39	< 0.39	< 0.38	< 0.38	1.9	20	< 0.38	120	140	**730**	43	3.1
	04/19/07	130	43	< 46	< 62	< 73	< 63	< 77	< 77	< 76	< 75	< 62	< 36	< 75	150	180	**1200**	48	< 58
	07/19/07	100	12	3.1	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	18	< 1.9	87	1.6	< 1.2	14	< 1.5
	10/22/07	170	70	26	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	3.5	44	< 1.9	270	310	**1600**	69	6.2
	01/14/08	140	< 20	< 29	< 39	< 46	< 39	< 48	< 48	< 47	< 47	< 39	< 23	< 47	160	170	**940**	< 28	< 36
	04/28/08	25.5	6	< 1	< 0.56	< 0.86	< 0.82	< 1	< 1.2	< 1.1	< 0.69	< 0.85	3	< 0.58	34.9	26.4	24.7	4.4	< 1.1
	08/12/08	99.5	45	8.1	< 0.35	< 0.54	< 0.51	< 0.62	< 0.78	< 0.7	< 0.43	3.8	27	< 0.36	154	192	**794**	63	6.4

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
PZ07B	10/29/08	240	< 24.8	< 32.5	< 17.3	< 27	< 25.7	< 31.2	< 38.9	< 34.9	< 21.5	< 26.7	< 31.3	< 18	287	327	**1680**	< 37.4	< 33.8
	04/13/09	180	25.3	4	< 0.35	< 0.54	< 0.51	< 0.62	< 0.78	< 0.7	< 0.43	0.66	35.8	< 0.36	176	101	65.7	25.3	1.4
	10/05/09	124	50.1	11.6	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	2.7	37.6	< 0.47	138	136	**701**	60.6	5.1
	04/13/10	117	23.8	5.1	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	0.48	22.2	< 0.47	103	50.5	14.1	15	0.79
	10/19/10	87.4	26.6	16.4	< 0.36	< 0.29	< 0.34	< 0.48	< 0.44	< 0.35	< 0.32	2.1	21.7	< 0.47	107	117	**587**	35.3	4.4
	01/19/11	152	46.8	< 189	< 189	< 189	< 189	< 189	< 189	< 189	< 189	< 189	< 189	< 189	190	203	**945**	61.1	< 189
	03/17/11	81.8	24.1	3.5	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	0.59	19.3	< 4.7	79.1	37.7	5.8	15.9	0.95
PZ09B	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/04/97	< 0.96	< 0.89	0.08	< 0.032	< 0.063	< 0.088	< 0.11	< 0.061	< 0.021	< 0.13	< 0.06	2	< 0.057	14	6.6	81	0.95	< 0.064
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	32	< 0.55	0.58	< 0.017	< 0.027	< 0.043	< 0.1	< 0.029	< 0.013	< 0.16	0.89	3.9	< 0.083	12	29	8.4	0.85	0.33
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	2.1	< 0.51	< 0.067	< 0.38	< 0.045	< 0.18	< 0.25	< 0.38	< 0.2	< 0.23	< 0.22	< 0.38	< 0.27	< 0.28	< 0.24	< 0.19	< 0.15	< 0.11
	05/31/00	17	< 0.15	0.39	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	0.56	< 0.11	< 0.08	5.7	< 0.072	0.78	0.23	0.35
	08/31/00	2.1	< 0.15	< 0.02	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	< 0.066	< 0.11	< 0.08	0.78	0.12	0.52	0.12	< 0.032
	11/21/00	40	< 0.15	0.95	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	< 0.066	2.2	< 0.08	11	< 0.072	1.2	< 0.045	< 0.032
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	1.1	0.12	0.07	< 0.019	< 0.012	< 0.014	< 0.015	< 0.013	< 0.018	< 0.017	0.15	0.12	< 0.014	0.49	< 0.028	0.95	0.17	0.15
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	0.059	< 0.023	< 0.02	< 0.019	< 0.012	< 0.014	< 0.015	< 0.013	< 0.018	< 0.017	0.052	< 0.021	< 0.014	< 0.027	< 0.028	0.032	< 0.019	0.11
	06/16/03	0.036	< 0.019	0.063	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	0.15	< 0.017	< 0.021	< 0.018	< 0.017	0.035	< 0.016	0.27
	11/20/03	34	0.25	0.46	< 0.013	< 0.015	< 0.014	< 0.017	< 0.02	< 0.015	< 0.017	0.43	0.056	< 0.022	14	0.13	5	0.069	0.39
	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	0.15	< 0.018	< 0.019	< 0.011	< 0.013	< 0.012	< 0.015	< 0.018	< 0.013	< 0.015	< 0.012	< 0.016	< 0.02	0.032	< 0.016	0.037	< 0.015	< 0.016
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/12/05	0.4	0.021	< 0.018	< 0.02	< 0.018	< 0.018	< 0.021	< 0.019	< 0.016	< 0.022	< 0.016	< 0.022	< 0.017	0.18	< 0.023	0.58	< 0.02	< 0.016
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	1.6	0.044	0.014	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	0.023	< 0.019	0.72	0.034	1.2	0.019	< 0.015
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	1.4	0.048	0.013	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	0.024	< 0.019	0.86	0.029	0.75	0.02	< 0.015
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	1.4	< 0.041	< 0.058	< 0.078	< 0.092	< 0.078	< 0.096	< 0.097	< 0.095	< 0.094	< 0.077	< 0.045	< 0.094	0.63	< 0.056	< 0.062	< 0.057	< 0.073
	02/21/07	4.8	0.094	0.031	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	0.02	< 0.019	2.6	0.022	0.92	0.029	< 0.015
	04/19/07	6.9	< 0.16	< 0.23	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	< 0.31	< 0.18	< 0.38	3.3	< 0.22	1.9	< 0.23	< 0.29
	07/19/07	0.67	0.032	< 0.029	< 0.039	< 0.046	< 0.039	< 0.048	< 0.048	< 0.047	< 0.047	< 0.039	< 0.023	< 0.047	0.089	< 0.028	< 0.031	< 0.028	< 0.036

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
PZ09B	10/22/07	0.019	0.017	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	0.0096	< 0.019	0.065	0.045	0.46	< 0.011	< 0.015
	01/14/08	2.6	0.063	0.02	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.99	< 0.011	0.29	0.012	< 0.015
	04/28/08	2.3	< 0.05	< 0.065	< 0.035	< 0.054	< 0.051	< 0.062	< 0.078	< 0.07	< 0.043	< 0.053	< 0.063	< 0.036	0.51	< 0.11	< 0.16	< 0.075	< 0.068
	10/29/08	3.3	0.067	0.019	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	0.0087	0.01	< 0.0036	0.044	< 0.011	0.1	0.0092	< 0.0068
	04/13/09	1.9	0.03	0.016	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	0.011	0.0078	< 0.0036	0.043	< 0.011	0.29	0.01	0.0097
	10/05/09	8.3	0.083	0.063	< 0.0038	< 0.003	< 0.0036	< 0.0051	< 0.0046	< 0.0037	< 0.0034	0.016	0.039	< 0.005	0.1	0.0077	0.079	0.015	0.012
	04/13/10	0.44	0.024	0.0095	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	0.0058	0.012	< 0.0047	0.02	0.012	0.24	< 0.0081	< 0.0047
	10/19/10	8	0.096	0.057	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	0.019	0.043	< 0.0047	0.11	0.016	0.15	0.017	0.014
	01/20/11	11.3	0.12	0.24	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.18	0.2	< 0.047	2.9	0.04	4.2	0.42	0.13
	03/17/11	0.46	0.027	0.013	< 0.047	< 0.047	< 0.047	0.0048	< 0.047	< 0.047	< 0.047	0.0049	0.029	< 0.047	0.11	0.046	0.66	0.014	< 0.047
PZ10B	08/16/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/03/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/04/97	< 1	< 0.97	< 0.022	< 0.035	< 0.069	< 0.096	< 0.12	< 0.066	< 0.023	< 0.14	< 0.065	< 0.082	< 0.062	< 0.63	< 0.71	< 0.34	< 0.027	< 0.07
	02/26/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/23/99	< 0.22	< 0.55	< 0.018	< 0.017	< 0.027	< 0.043	< 0.1	< 0.029	< 0.013	< 0.16	< 0.1	< 0.029	< 0.083	< 0.4	< 0.6	< 0.22	< 0.014	< 0.047
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	< 0.12	< 0.14	< 0.019	< 0.11	< 0.012	< 0.052	< 0.069	< 0.11	< 0.056	< 0.064	< 0.062	< 0.11	< 0.076	< 0.077	< 0.068	0.16	< 0.043	< 0.03
	05/31/00	< 0.13	< 0.15	< 0.02	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	< 0.066	< 0.11	< 0.08	< 0.082	< 0.072	0.13	< 0.045	< 0.032
	08/31/00	< 0.14	< 0.16	< 0.021	0.23	< 0.014	< 0.057	< 0.077	< 0.12	**0.21**	< 0.071	< 0.069	< 0.12	< 0.086	< 0.084	< 0.075	< 0.058	< 0.048	< 0.034
	11/21/00	< 0.19	< 0.21	< 0.028	< 0.16	< 0.019	< 0.077	< 0.1	< 0.16	< 0.084	< 0.096	< 0.093	< 0.16	< 0.11	< 0.12	< 0.1	0.21	< 0.064	< 0.045
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	0.26	< 0.023	< 0.02	0.034	0.033	0.037	0.029	0.031	0.04	< 0.017	0.087	< 0.021	0.024	0.039	< 0.028	0.24	0.048	0.07
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	0.021	< 0.023	< 0.02	< 0.019	0.017	0.02	0.018	0.013	< 0.018	< 0.017	0.032	< 0.021	< 0.014	< 0.027	< 0.028	0.08	0.027	0.027
	06/16/03	0.046	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	0.019	< 0.017	< 0.021	0.034	0.022	0.072	0.038	0.019
	11/20/03	< 0.018	< 0.019	< 0.02	0.015	0.019	0.021	0.016	< 0.019	**0.22**	< 0.016	0.037	< 0.017	< 0.021	< 0.018	< 0.017	0.042	0.024	0.028
	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/12/05	0.033	< 0.019	< 0.018	< 0.02	< 0.018	< 0.018	< 0.021	< 0.019	< 0.016	< 0.022	0.018	< 0.022	< 0.017	< 0.02	< 0.023	0.04	< 0.02	< 0.016
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	< 0.0083	< 0.0083	< 0.012	< 0.016	< 0.019	< 0.016	< 0.02	< 0.02	< 0.019	< 0.019	0.02	< 0.0092	< 0.019	< 0.01	0.013	0.045	< 0.012	0.016
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	0.015	< 0.011	< 0.015

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
PZ10B	02/21/07	< 0.0082	< 0.0082	< 0.012	< 0.016	< 0.019	< 0.016	< 0.019	< 0.02	< 0.019	< 0.019	< 0.016	< 0.0091	< 0.019	< 0.01	< 0.011	0.045	< 0.011	< 0.015
	04/19/07	0.22	< 0.16	< 0.23	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	< 0.31	< 0.18	< 0.38	0.25	< 0.22	3.7	< 0.23	< 0.29
	07/19/07	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	< 0.012	< 0.011	< 0.015
	10/23/07	0.011	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.014	< 0.011	0.058	< 0.011	< 0.015
	01/14/08	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	0.013	0.035	0.014	< 0.015
	04/28/08	< 0.0088	< 0.0056	< 0.0073	< 0.0039	< 0.0061	< 0.0058	< 0.007	< 0.0088	< 0.0079	< 0.0049	< 0.006	< 0.0071	< 0.0041	< 0.011	< 0.012	0.021	0.0098	< 0.0076
	10/29/08	0.017	< 0.005	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	0.014	< 0.011	0.03	< 0.0075	< 0.0068
	04/13/09	0.094	0.0055	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	0.011	0.021	< 0.0036	0.1	< 0.011	0.32	0.012	0.0079
	10/05/09	0.22	0.014	0.019	< 0.0042	< 0.0033	< 0.0039	< 0.0055	< 0.005	< 0.004	< 0.0037	0.0075	0.044	< 0.0054	0.14	0.037	0.15	0.088	0.0057
	04/13/10	0.16	0.014	0.027	< 0.0037	< 0.0029	< 0.0034	< 0.0049	< 0.0044	< 0.0035	< 0.0032	0.013	0.074	< 0.0047	0.056	0.042	0.3	0.1	0.0086
	10/19/10	0.0086	< 0.0036	< 0.0057	< 0.0036	< 0.0029	0.0036	< 0.0048	< 0.0044	0.005	< 0.0032	0.0046	< 0.0048	< 0.0047	0.007	0.0072	0.038	0.0084	< 0.0047
	01/18/11	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047
	03/16/11	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.0051	0.018	< 0.047	< 0.047
PZ11B	06/22/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/01/00	6.6	< 0.14	0.4	< 0.11	< 0.012	< 0.052	< 0.069	< 0.11	< 0.056	< 0.064	0.17	< 0.11	< 0.076	< 0.077	< 0.068	< 0.053	0.16	0.29
	05/31/00	30	6.2	0.12	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	< 0.066	4.7	< 0.08	30	11	**174**	0.5	0.12
	08/31/00	54	< 0.15	0.44	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	< 0.066	11	< 0.08	52	25	**344**	4	< 0.032
	11/21/00	17	< 0.15	0.11	< 0.11	< 0.013	< 0.055	< 0.074	< 0.11	< 0.059	< 0.068	< 0.066	3.3	< 0.08	14	6.4	38	1.5	< 0.032
	04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/02/02	46	3.7	0.69	< 0.38	< 0.24	< 0.28	< 0.3	< 0.26	< 0.36	< 0.34	< 0.56	7.3	< 0.28	44	< 28	**290**	7.3	< 0.4
	07/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/28/02	68	2	< 1.6	< 1.5	< 0.96	< 1.1	< 1.2	< 1	< 1.4	< 1.4	< 2.2	8.5	< 1.1	55	5.2	34	7.9	< 1.6
	06/16/03	20	< 1.9	0.16	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	0.032	< 1.7	< 0.021	0.23	0.058	0.31	0.19	0.061
	11/20/03	23	< 0.95	< 1	< 0.6	< 0.7	< 0.65	< 0.8	< 0.95	< 0.7	< 0.8	< 0.65	2.1	< 1	16	< 0.85	20	< 0.8	< 0.85
	04/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/20/04	0.018	< 0.018	< 0.019	< 0.011	< 0.013	< 0.012	< 0.015	< 0.018	< 0.013	< 0.015	< 0.012	< 0.016	< 0.02	< 0.017	< 0.016	< 0.023	< 0.015	< 0.016
	10/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/05	0.034	< 0.019	< 0.018	< 0.02	< 0.018	< 0.018	< 0.021	< 0.019	< 0.016	< 0.022	< 0.016	< 0.022	< 0.017	< 0.02	< 0.023	< 0.022	< 0.02	< 0.016
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	0.023	0.0096	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	0.0091	< 0.019	0.019	< 0.011	0.14	0.015	< 0.015
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	< 0.0082	< 0.0082	< 0.012	< 0.016	< 0.019	< 0.016	< 0.019	< 0.02	< 0.019	< 0.019	< 0.016	< 0.0091	< 0.019	< 0.01	< 0.011	0.026	0.013	< 0.015
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	0.018	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	0.017	< 0.011	< 0.015
	02/21/07	< 0.0082	< 0.0082	< 0.012	< 0.016	< 0.019	< 0.016	< 0.019	< 0.02	< 0.019	< 0.019	< 0.016	< 0.0091	< 0.019	< 0.01	< 0.011	0.013	< 0.011	< 0.015
	04/19/07	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	< 0.012	< 0.011	< 0.015

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
PZ11B	07/19/07	0.085	< 0.041	< 0.058	< 0.078	< 0.092	< 0.078	< 0.096	< 0.097	< 0.095	< 0.094	< 0.077	< 0.045	< 0.094	0.12	< 0.056	1.1	< 0.057	< 0.073
	10/22/07	< 0.0082	0.009	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	< 0.012	< 0.011	< 0.015
	01/14/08	0.56	0.031	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	0.017	< 0.011	< 0.015
	04/28/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/29/08	< 0.0078	0.0091	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	< 0.0095	0.016	0.025	< 0.0075	< 0.0068
	04/13/09	0.0089	0.013	< 0.0065	0.0089	0.01	0.013	0.01	0.013	0.012	0.0063	0.014	0.0097	0.0088	0.03	0.032	0.041	0.02	< 0.0068
	10/05/09	< 0.0049	0.009	< 0.0062	0.0042	0.0055	0.0059	< 0.0052	0.0055	0.0053	< 0.0035	0.01	< 0.0052	< 0.0051	< 0.0054	0.0051	0.017	< 0.0088	0.0078
	04/13/10	0.032	0.012	< 0.0057	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	0.01	< 0.0047	0.02	0.0089	0.25	0.0091	< 0.0047
	10/19/10	0.018	0.013	0.0064	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	0.0081	< 0.0047	0.014	0.0097	0.13	0.017	< 0.0047
	01/25/11	1.6	0.079	0.016	< 0.047	0.0029	< 0.047	< 0.047	0.0044	0.0055	< 0.047	0.0088	0.044	< 0.047	0.37	< 0.047	0.075	0.027	0.0097
	03/17/11	0.022	0.0081	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.0058	< 0.047	0.013	0.0091	0.035	< 0.047	< 0.047
PZ12B	07/20/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/04	26	6.7	0.21	< 0.02	< 0.018	< 0.018	< 0.021	< 0.019	< 0.016	< 0.022	0.047	< 5.4	< 0.017	36	< 5.7	**160**	< 5.1	0.041
	01/25/05	160	42	7.6	< 2	< 1.8	< 1.8	< 2.1	< 1.9	< 1.6	< 2.2	< 1.6	35	< 1.7	160	14	**830**	47	< 1.6
	04/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/12/05	39	5.3	1.9	< 2	< 1.8	< 1.8	< 2.1	< 1.9	< 1.6	< 2.2	< 1.6	5.5	< 1.7	24	< 2.3	8.3	7	< 1.6
	07/11/05	91	14	7.2	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	15	< 1.9	88	14	21	28	< 1.5
	10/03/05	0.016	0.038	0.024	0.066	0.064	0.057	0.051	0.044	0.065	< 0.019	0.13	< 0.0091	0.039	0.016	< 0.011	0.12	0.069	0.18
	01/05/06	0.28	0.033	0.012	< 0.016	0.019	0.024	0.021	< 0.02	< 0.019	< 0.019	0.045	0.055	< 0.019	0.098	0.03	0.58	0.041	0.046
	04/11/06	9.9	0.22	1.2	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	1.3	6	< 0.019	1.8	0.29	0.74	5.1	0.94
	07/21/06	7.7	2.8	< 0.46	< 0.62	< 0.73	< 0.63	< 0.77	< 0.77	< 0.76	< 0.75	< 0.62	< 0.36	< 0.75	< 0.41	< 0.45	1.6	< 0.45	0.76
	10/04/06	83	2.4	3.2	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	1.2	11	< 0.38	53	18	72	22	1.2
	02/21/07	7	0.76	< 0.29	< 0.39	< 0.46	< 0.39	< 0.49	< 0.49	< 0.48	< 0.48	< 0.39	0.25	< 0.47	< 0.26	< 0.28	< 0.31	< 0.29	< 0.37
	04/19/07	92	8.2	< 5.8	< 7.8	< 9.2	< 7.8	< 9.6	< 9.7	< 9.5	< 9.4	< 7.7	12	< 9.4	70	18	**260**	18	< 7.3
	07/19/07	85	3.5	3.8	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	< 1.5	17	< 1.9	36	< 1.1	< 1.2	13	< 1.5
	10/22/07	98	2.9	11	< 3.1	< 3.7	< 3.1	< 3.9	< 3.9	< 3.8	< 3.8	< 3.1	16	< 3.8	87	25	**160**	33	< 2.9
	01/15/08	24	< 0.81	3.9	< 1.6	< 1.8	< 1.6	< 1.9	< 1.9	< 1.9	< 1.9	4.7	9.4	< 1.9	11	4.2	33	21	3.2
	04/28/08	61.9	< 2.5	< 3.3	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 2.7	< 3.1	< 0.0036	29.1	< 5.3	**140**	< 3.7	< 3.4
	08/12/08	86.5	7.7	4.1	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	1.6	17.4	< 0.0036	65.6	3.3	0.21	22.1	1.7
	10/30/08	74.7	3.8	4.2	< 0.69	< 1.1	< 1	< 1.2	< 1.6	< 1.4	< 0.86	< 1.1	10.9	< 0.72	61.5	15.1	21.7	17	< 1.4
	04/13/09	1.4	0.39	0.027	0.0043	< 0.0054	0.0069	< 0.0062	< 0.0078	< 0.007	< 0.0043	0.21	0.051	< 0.0036	0.024	0.012	0.044	0.018	0.77
	10/05/09	84.2	3.2	4.8	< 0.48	< 0.38	< 0.45	< 0.64	< 0.58	< 0.46	< 0.42	1.4	11.9	< 0.62	49.4	8.1	14.3	22.2	1.6
	04/14/10	25.7	0.67	0.76	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	0.67	3.8	< 0.0047	8	0.32	0.039	1.1	0.72
	10/20/10	63.5	2.3	6.1	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	1.2	13.4	< 0.0047	29.4	0.24	0.074	27.4	1.7
	01/19/11	< 0.19	1.9	0.03	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	0.57	0.025	< 0.19	< 0.19	0.022	< 0.19	0.04	1.4
	03/17/11	39.5	1.9	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	1	1.5	< 0.94	0.17	< 0.94	0.23	< 0.94	1.2

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
PZ13B	10/12/04	< 0.019	< 0.019	< 0.018	0.032	0.026	0.021	< 0.021	0.02	0.026	< 0.022	0.045	< 0.022	< 0.017	0.033	< 0.023	0.099	0.022	0.046
	01/25/05	0.028	< 0.02	< 0.018	< 0.02	< 0.018	< 0.018	< 0.021	< 0.019	0.018	< 0.022	0.031	< 0.022	< 0.017	0.059	0.045	0.44	0.029	0.027
	04/11/05	0.055	< 0.019	< 0.018	0.025	0.029	0.039	0.026	0.029	0.035	< 0.022	0.058	< 0.022	0.021	< 0.02	< 0.023	< 0.022	0.046	0.055
	07/11/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/03/05	0.04	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	0.01	< 0.019	0.015	0.022	0.067	0.012	< 0.015
	01/05/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/06	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	0.029	< 0.0091	< 0.019	< 0.01	< 0.011	< 0.012	0.014	0.023
	07/21/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/04/06	< 0.0082	0.013	0.012	0.05	0.082	0.073	0.057	0.066	0.05	< 0.019	0.089	< 0.0091	0.051	< 0.01	< 0.011	0.019	0.03	0.071
	02/22/07	< 0.0083	< 0.0083	< 0.012	< 0.016	< 0.019	< 0.016	< 0.02	< 0.02	< 0.019	< 0.019	0.03	< 0.0092	< 0.019	< 0.01	0.011	0.03	0.021	0.024
	04/20/07	0.022	< 0.0081	0.076	0.4	**0.59**	**0.65**	0.45	0.46	**0.53**	0.14	1.3	0.033	0.46	< 0.01	< 0.011	< 0.012	0.55	0.89
	07/19/07	< 0.041	< 0.041	0.12	0.43	**0.75**	**0.7**	0.58	0.069	**0.72**	0.11	1.6	< 0.045	0.46	< 0.051	< 0.056	< 0.062	0.59	1.3
	10/22/07	0.0094	< 0.0081	< 0.012	0.028	0.044	0.041	0.038	0.052	0.054	< 0.019	0.1	< 0.0091	0.03	< 0.01	< 0.011	0.037	0.047	0.075
	01/14/08	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	0.013	< 0.011	< 0.015
	04/28/08	0.011	< 0.0051	0.026	0.21	**0.25**	**0.3**	0.19	0.23	**0.27**	0.038	0.66	0.01	0.16	< 0.0097	< 0.011	0.035	0.24	0.55
	10/29/08	< 0.0078	< 0.005	< 0.0065	0.015	0.029	0.034	0.027	0.036	0.033	0.0052	0.062	< 0.0063	0.022	0.035	0.072	0.11	0.022	0.042
	04/13/09	< 0.0079	< 0.005	0.008	0.06	0.1	0.13	0.089	0.12	0.12	0.02	0.22	< 0.0063	0.076	< 0.0096	< 0.011	< 0.017	0.071	0.18
	10/05/09	0.15	< 0.018	< 0.029	0.29	**0.49**	**0.63**	0.38	0.46	**0.54**	0.075	0.91	0.043	0.32	0.11	0.023	1.9	0.23	0.66
	04/14/10	0.094	0.0041	0.014	0.0087	0.012	0.017	0.013	0.014	0.014	< 0.0032	0.026	0.022	0.0094	0.038	0.022	0.11	0.057	0.022
	10/19/10	0.0053	< 0.0036	0.0094	0.032	0.045	0.062	0.044	0.052	0.058	0.01	0.087	< 0.0048	0.031	< 0.005	0.0056	0.018	0.03	0.077
	01/19/11	< 0.047	0.0046	< 0.047	0.0096	0.017	0.02	0.016	0.017	0.019	0.0036	0.026	< 0.047	0.013	< 0.047	0.016	0.077	0.011	0.024
	03/16/11	< 0.047	< 0.047	< 0.047	0.02	0.029	0.035	0.024	0.032	0.038	0.0082	0.084	< 0.047	0.02	< 0.047	< 0.047	< 0.047	0.05	0.062
PZ14B	07/25/07	41	2.4	< 2.6	< 3.5	< 4.1	< 3.5	< 4.3	< 4.4	< 4.3	< 4.3	< 3.5	13	< 4.2	37	3.6	**200**	7.3	< 3.3
	10/22/07	5.3	0.22	< 0.23	< 0.31	< 0.37	< 0.31	< 0.39	< 0.39	< 0.38	< 0.38	< 0.31	0.91	< 0.38	1.6	< 0.22	< 0.25	< 0.23	< 0.29
	04/28/08	0.2	0.015	0.011	0.048	0.066	0.16	0.094	0.09	0.12	0.023	0.17	0.023	0.074	0.015	< 0.011	0.018	0.052	0.14
	08/12/08	0.067	0.017	0.012	0.024	0.035	0.071	0.045	0.046	0.06	0.011	0.074	0.013	0.039	0.021	< 0.011	0.12	0.036	0.055
	10/30/08	0.019	0.0052	< 0.0065	0.0096	0.025	0.043	0.037	0.035	0.028	0.0067	0.032	< 0.0063	0.027	0.011	< 0.011	0.022	0.014	0.025
	04/13/09	0.28	0.014	0.0074	0.016	0.034	0.07	0.055	0.044	0.046	0.011	0.049	0.043	0.042	0.15	0.024	0.61	0.036	0.044
	10/05/09	0.12	0.014	0.016	0.043	0.095	0.14	0.12	0.12	0.096	0.023	0.11	0.011	0.096	0.013	< 0.0041	0.022	0.032	0.08
	04/13/10	< 0.0045	0.0042	< 0.0057	0.014	0.033	0.078	0.059	0.048	0.049	0.01	0.044	< 0.0048	0.043	< 0.005	0.0083	0.021	0.012	0.031
	10/19/10	0.0081	< 0.0036	< 0.0057	0.0076	0.028	0.045	0.049	0.044	0.037	0.008	0.026	< 0.0048	0.034	0.006	0.0047	0.038	0.0082	0.023
	01/18/11	< 0.047	0.022	0.022	0.081	0.16	**0.47**	0.31	0.23	**0.35**	0.054	0.4	0.018	0.22	< 0.047	0.0053	< 0.047	0.077	0.32
	03/16/11	< 0.047	< 0.047	< 0.047	0.031	0.078	**0.21**	0.14	0.13	0.11	0.027	0.1	< 0.047	0.1	< 0.047	< 0.047	< 0.047	< 0.047	0.085
PZ15B	07/24/07	1.6	0.047	0.31	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	0.61	< 0.019	1.4	0.31	0.52	1.4	0.36
	10/22/07	2.3	0.061	0.051	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	0.08	< 0.019	1.5	0.079	0.28	0.024	0.42
	01/15/08	2.4	0.058	0.43	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	0.92	< 0.019	1.7	0.041	0.2	3	0.74
	04/29/08	0.73	0.025	< 0.016	< 0.0087	< 0.013	< 0.013	< 0.016	< 0.019	< 0.017	< 0.011	< 0.013	0.032	< 0.009	0.26	< 0.027	0.18	< 0.019	0.19
	08/12/08	1.4	0.047	0.2	< 0.017	< 0.027	< 0.026	< 0.031	< 0.039	< 0.035	< 0.022	< 0.027	0.52	< 0.018	1	0.054	0.18	1.4	0.44

Table 8. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (PAHs)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Polynuclear Aromatic Hydrocarbons (µg/l)																	
Sample ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene** [2]	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene** [2]	**Benzo(ghi)perylene**	**Benzo(k)fluoranthene**	**Chrysene** [2]	**Dibenz(a,h)anthracene**	**Fluoranthene** [2]	**Fluorene** [2]	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene [2]	Phenanthrene	Pyrene [2]
Quality Standard[1]		NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
PZ15B	10/30/08	1.4	0.039	0.24	0.0042	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	0.0077	0.53	< 0.0036	0.96	0.015	0.098	1.6	0.43
	04/13/09	< 0.0078	< 0.005	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	< 0.0095	< 0.011	< 0.016	< 0.0075	< 0.0068
	10/05/09	1.7	0.054	0.23	< 0.015	< 0.012	< 0.014	< 0.02	< 0.019	0.016	< 0.014	0.022	0.66	< 0.02	1.1	0.088	0.31	1.2	0.56
	04/13/10	0.01	0.004	< 0.0057	< 0.0036	0.0035	0.0047	< 0.0048	0.0046	0.0053	< 0.0032	0.0071	< 0.0048	< 0.0047	0.014	0.0075	0.21	< 0.0081	0.0072
	10/19/10	1.3	0.048	0.22	0.0059	0.003	< 0.0034	< 0.0048	< 0.0044	0.0075	< 0.0032	0.012	0.45	< 0.0047	0.9	0.072	0.3	0.85	0.39
	01/19/11	1.6	0.042	0.29	0.0057	< 0.047	< 0.047	< 0.047	< 0.047	0.0066	< 0.047	0.0077	0.68	< 0.047	1.1	0.036	0.13	2.1	0.54
	03/17/11	0.027	0.0047	0.021	0.005	< 0.047	0.005	0.0078	0.0049	0.0042	< 0.047	< 0.047	0.085	0.0052	0.006	< 0.047	0.0061	0.028	0.12
PZ16B	07/24/07	0.093	< 0.0082	< 0.012	< 0.016	< 0.019	< 0.016	< 0.019	< 0.02	< 0.019	< 0.019	< 0.016	< 0.0091	< 0.019	< 0.01	< 0.011	< 0.012	< 0.011	< 0.015
	10/22/07	0.16	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.01	< 0.011	0.031	0.017	< 0.015
	01/14/08	0.13	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016	< 0.019	< 0.019	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.017	0.013	0.28	0.015	< 0.015
	04/29/08	0.085	< 0.005	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	0.0058	< 0.0063	< 0.0036	< 0.0095	< 0.011	0.032	0.013	< 0.0068
	10/29/08	0.087	< 0.005	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	< 0.0095	0.011	0.025	0.0081	< 0.0068
	04/13/09	0.064	< 0.005	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	0.014	< 0.0036	0.026	< 0.011	0.092	< 0.0075	< 0.0068
	10/05/09	0.18	0.025	0.017	0.019	0.016	0.016	0.012	0.016	0.02	< 0.0068	0.03	0.032	< 0.0099	0.15	0.12	0.74	0.053	0.031
	04/14/10	0.25	0.0084	0.019	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	0.013	0.041	< 0.0047	0.079	0.037	0.28	0.08	0.012
	10/20/10	0.089	< 0.0036	< 0.0057	0.0057	0.0062	0.0053	< 0.0048	0.0061	0.0062	< 0.0032	0.0076	< 0.0048	< 0.0047	< 0.005	0.0076	0.04	0.009	0.009
	01/19/11	0.098	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.0099	0.0055
	03/16/11	0.072	< 0.047	< 0.047	< 0.047	0.0035	0.0058	0.0075	0.0056	0.0059	0.0032	< 0.047	< 0.047	0.0051	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047
TW01	10/30/08	< 0.0078	< 0.005	< 0.0065	0.0079	0.0089	0.011	0.0064	0.01	0.011	< 0.0043	0.027	< 0.0063	0.0051	< 0.0095	< 0.011	< 0.016	0.012	0.021
	04/14/09	0.01	< 0.005	< 0.0065	0.0096	0.011	0.013	0.011	0.011	0.013	< 0.0043	0.021	< 0.0063	0.0077	< 0.0095	< 0.011	< 0.016	0.015	0.02
	10/05/09	0.065	< 0.0076	< 0.012	< 0.0077	< 0.0061	0.0088	< 0.01	< 0.0093	0.0074	< 0.0068	< 0.0093	0.021	< 0.0099	0.046	0.013	0.54	0.018	< 0.01
	04/14/10	0.023	< 0.0036	0.0068	< 0.0036	0.0029	0.0052	< 0.0048	< 0.0044	0.004	< 0.0032	0.0067	0.0057	< 0.0047	0.056	0.093	0.11	0.012	0.0062
	10/20/10	< 0.0045	< 0.0036	0.0082	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	< 0.0048	< 0.0047	< 0.005	< 0.0039	0.012	< 0.0081	< 0.0047
	01/20/11	< 0.048	< 0.048	0.0059	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	0.0058	< 0.048	< 0.048	< 0.048
	03/17/11	< 0.047	< 0.047	0.0067	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.005	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.0063
TW02	10/30/08	< 0.0078	< 0.005	< 0.0065	< 0.0035	< 0.0054	0.0054	< 0.0062	< 0.0078	< 0.007	< 0.0043	0.0097	< 0.0063	< 0.0036	< 0.0095	< 0.011	0.016	0.011	0.007
	04/14/09	< 0.0078	< 0.005	< 0.0065	0.0065	0.0091	0.014	0.0097	0.011	0.015	< 0.0043	0.024	< 0.0063	0.0076	< 0.0095	< 0.011	< 0.016	0.013	0.019
	10/05/09	0.048	0.0063	0.0079	0.011	0.019	0.037	0.023	0.024	0.03	< 0.0034	0.03	0.016	0.019	0.031	0.013	0.15	0.025	0.022
	04/13/10	0.19	< 0.0036	0.015	< 0.0036	< 0.0029	< 0.0034	< 0.0048	0.0044	0.0039	< 0.0032	0.0097	0.016	< 0.0047	0.02	0.0066	0.075	0.048	0.0071
	10/19/10	0.0056	< 0.0036	< 0.0057	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	< 0.0048	< 0.0047	< 0.005	< 0.0039	0.026	< 0.0081	< 0.0047
	01/19/11	< 0.052	0.019	0.036	0.065	0.058	0.045	0.036	0.058	0.06	0.0094	0.16	0.026	0.032	< 0.052	0.007	< 0.052	0.14	0.13
	03/16/11	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047

NOTES:
1) Parameters that attain or exceed the EPA Groundwater Quality Standards (MCL) are shown in bold.
2) If no MCL standard has been established, then the parameters that attain or exceed the NR 140 Wisconsin Groundwater Quality Enforcement Standard (ES) are identified in bold.
3) Reference the laboratory analytical report for a full list of compounds analyzed.

< 2.0: Parameter not detected above the limit of detection indicated.
NS: No standard established for this compound.
--: Analysis not performed.

Table 9. Groundwater Analytical Results - Benzene
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
OW01	06/02/93	ND
	09/16/93	--
	08/15/96	--
	08/16/96	< 0.5
	08/16/97	--
	09/03/97	0.4
	02/26/98	--
	06/22/99	--
	06/23/99	**15**
	01/31/00	--
	02/01/00	**56**
	05/31/00	--
	08/31/00	--
	11/21/00	--
	04/01/02	--
	04/02/02	1.4
	07/22/02	--
	10/28/02	0.71
	06/16/03	2.4
	11/20/03	0.36
	04/20/04	--
	07/20/04	--
	10/12/04	--
	01/25/05	--
	04/11/05	0.26
	07/11/05	--
	10/03/05	--
	01/05/06	--
	04/11/06	1.1
	07/21/06	--
	10/04/06	--
	02/22/07	1.5
	04/19/07	0.69
	07/19/07	1.1
	10/22/07	1
	01/14/08	1.6
	04/28/08	1.2
	10/29/08	0.37
	04/13/09	**27.9**
	10/05/09	0.98
	04/13/10	**5.8**
	10/19/10	< 0.41
	01/20/11	0.42
	03/17/11	< 1
OW02	06/03/93	2.4
	09/16/93	--
	08/15/96	--
	08/16/96	< 0.5
	08/16/97	--
	09/03/97	< 0.13
	02/26/98	--
	06/22/99	--
	06/23/99	0.19
	01/31/00	--
	02/01/00	< 0.5
	05/31/00	--
	08/31/00	--
	11/21/00	--
	04/01/02	--
	04/02/02	< 0.45
	07/22/02	--
	10/28/02	--
	06/16/03	< 0.3
	11/20/03	--
	04/20/04	--
	07/20/04	--
	10/12/04	--
	01/25/05	--
	04/11/05	< 0.14
	07/11/05	--
	10/03/05	--
	01/05/06	--
	04/11/06	< 0.14
	07/21/06	--
	10/04/06	--
	02/22/07	< 0.14
	04/19/07	< 0.41
	07/19/07	< 0.41
	10/22/07	< 0.41
	01/14/08	< 0.14
	04/28/08	--

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
OW08	06/02/93	ND
	09/16/93	--
	08/15/96	--
	08/16/96	--
	08/16/97	--
	09/03/97	--
	02/26/98	--
	06/22/99	--
	06/23/99	0.43
	01/31/00	--
	02/01/00	3.7
	05/31/00	--
	08/31/00	--
	11/21/00	--
	04/01/02	--
	04/02/02	--
	07/22/02	--
	10/28/02	--
	06/16/03	< 0.3
	11/20/03	--
	04/20/04	--
	07/20/04	--
	10/12/04	--
	01/25/05	--
	04/11/05	0.44
	07/11/05	--
	10/03/05	--
	01/05/06	--
	04/11/06	< 0.14
	07/21/06	--
	10/04/06	--
	02/22/07	< 0.14
	04/20/07	< 0.41
	07/19/07	0.66
	10/22/07	< 0.41
	01/14/08	< 0.14
	04/28/08	--
	04/13/10	--
	10/19/10	--
OW09	08/16/97	--
	09/03/97	--
	09/04/97	**240**
	02/26/98	--
	06/22/99	--
	06/23/99	**330**
	01/31/00	--
	02/01/00	**146**
	05/31/00	**123**
	08/31/00	**294**
	11/21/00	**259**
	04/01/02	--
	04/02/02	**77**
	07/22/02	--
	10/28/02	**6.1**
	06/16/03	**8.9**
	11/20/03	**100**
	04/20/04	--
	07/20/04	**98**
	10/12/04	--
	01/25/05	--
	04/12/05	**100**
	07/11/05	--
	10/03/05	**180**
	01/05/06	--
	04/11/06	**98**
	07/21/06	--
	10/04/06	**150**
	02/21/07	**190**
	04/19/07	**130**
	07/19/07	**150**
	10/22/07	**88**
	01/14/08	**190**
	04/29/08	**144**
	08/12/08	**134**
	10/29/08	**349**
	04/13/09	**448**
	10/05/09	**358**
	04/13/10	**252**
	10/19/10	**137**
	01/20/11	**227**
	03/17/11	**210**

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
PZ03B	09/16/93	--
	07/09/96	< 0.5
	08/15/96	--
	08/16/96	< 0.5
	08/16/97	--
	09/03/97	< 0.13
	02/26/98	--
	06/22/99	--
	06/23/99	< 0.13
	01/31/00	--
	02/01/00	< 0.5
	05/31/00	--
	08/31/00	--
	11/21/00	--
	04/01/02	--
	04/02/02	< 0.45
	07/22/02	--
	10/28/02	--
	06/16/03	< 0.3
	11/20/03	--
	04/20/04	--
	07/20/04	--
	10/12/04	--
	01/25/05	--
	04/11/05	< 0.14
	07/11/05	--
	10/03/05	--
	01/05/06	--
	04/11/06	< 0.14
	07/21/06	--
	10/04/06	--
	02/21/07	< 0.14
	04/19/07	< 0.41
	07/19/07	< 0.41
	10/22/07	< 0.41
	01/14/08	< 0.14
	04/28/08	--
	10/29/08	< 0.23
	04/13/09	< 0.23
	10/05/09	< 0.23
	04/13/10	< 0.39
	10/19/10	< 0.41
	01/25/11	< 1
	03/17/11	< 1
PZ07B	09/16/93	--
	07/09/96	3.7
	08/15/96	--
	08/16/96	2.9
	08/16/97	--
	09/03/97	3.3
	02/26/98	--
	06/22/99	--
	06/23/99	< 13
	01/31/00	--
	02/01/00	0.75
	05/31/00	0.75
	08/31/00	< 5
	11/21/00	< 10
	04/01/02	--
	04/02/02	< 9
	07/22/02	--
	10/28/02	< 0.9
	06/16/03	< 6
	11/20/03	< 7.5
	04/20/04	< 2.8
	07/20/04	2.3
	10/12/04	< 2.8
	01/25/05	< 2.8
	04/11/05	1.5
	07/11/05	3.1
	10/03/05	1.4
	01/05/06	< 10
	04/11/06	< 2.8
	07/21/06	< 2.8
	10/04/06	1
	02/21/07	< 6.9
	04/19/07	< 10
	07/19/07	3.2
	10/22/07	< 10
	01/14/08	1.4
	04/28/08	0.8

Table 9. Groundwater Analytical Results - Benzene
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
OW02	10/29/08	< 0.23
	04/13/09	< 0.23
	10/05/09	< 0.23
	04/13/10	< 0.39
	10/19/10	< 0.41
	01/25/11	< 1
	03/17/11	< 1
OW03	06/04/93	**220**
	09/16/93	--
	08/15/96	--
	08/16/96	**700**
	08/16/97	--
	09/03/97	**1300**
	02/26/98	--
	04/01/98	--
OW03R	06/22/99	--
	01/31/00	--
	02/01/00	< 0.5
	05/31/00	1.1
	08/31/00	1.8
	11/21/00	< 5
	04/01/02	--
	04/02/02	0.46
	07/22/02	--
	10/28/02	0.73
	06/16/03	0.32
	11/20/03	< 0.3
	04/20/04	--
	07/20/04	--
	10/12/04	--
	01/25/05	--
	04/11/05	0.38
	07/11/05	--
	10/03/05	--
	01/05/06	--
	04/11/06	0.34
	07/21/06	--
	10/04/06	--
	02/21/07	0.5
	04/19/07	< 0.41
	07/19/07	< 0.41
	10/22/07	< 2
	01/14/08	< 0.14
	04/29/08	4.5
	10/29/08	2.8
	04/13/09	< 0.23
	10/05/09	**33.7**
	04/13/10	< 0.39
	10/19/10	2.4
	01/25/11	< 1
	03/17/11	1.2
OW04	06/10/93	ND
	09/16/93	--
	08/15/96	--
	08/16/96	< 0.5
	08/16/97	--
	09/03/97	< 0.13
	02/26/98	--
	06/22/99	--
	06/23/99	< 0.13
	01/31/00	--
	02/01/00	< 0.5
	05/31/00	--
	08/31/00	--
	11/21/00	--
	04/01/02	--
	04/02/02	< 0.45
	07/22/02	--
	10/28/02	--
	06/16/03	< 0.3
	11/20/03	--
	04/20/04	--
	07/20/04	--
	10/12/04	--
	01/25/05	--
	04/11/05	0.23
	07/11/05	--
	10/03/05	--
	01/05/06	--
	04/11/06	< 0.14
	07/21/06	--
	10/04/06	--
	02/21/07	< 0.14
	04/19/07	< 0.41
	07/19/07	< 0.41
	10/22/07	< 0.41
	01/14/08	0.18
	04/28/08	--
	10/29/08	0.61
	04/13/09	< 0.23

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
OW10	08/16/97	--
	09/03/97	--
	09/04/97	< 0.13
	02/26/98	--
	06/22/99	--
	06/23/99	1.9
	01/31/00	--
	02/01/00	3.9
	05/31/00	< 0.5
	08/31/00	1.4
	11/21/00	< 0.5
	04/01/02	--
	04/02/02	< 0.45
	07/22/02	--
	10/28/02	< 0.45
	06/16/03	< 0.3
	11/20/03	< 0.3
	04/20/04	--
	07/20/04	--
	10/12/04	--
	01/25/05	--
	04/12/05	**47**
	07/11/05	--
	01/05/06	--
	04/11/06	1.8
	07/21/06	--
	10/04/06	**38**
	02/21/07	**30**
	04/19/07	1.9
	07/19/07	**76**
	10/23/07	**47**
	01/14/08	**51**
	04/29/08	0.88
	08/12/08	**9.2**
	10/29/08	**15.1**
	04/13/09	**46.7**
	10/05/09	**13.9**
	04/13/10	**9**
	10/19/10	4.9
	01/18/11	3.2
	03/16/11	1.8
OW11	06/22/99	--
	01/31/00	--
	02/01/00	3.9
	05/31/00	3.1
	08/31/00	0.61
	11/21/00	< 0.5
	04/01/02	--
	04/02/02	< 0.45
	07/22/02	--
	10/28/02	< 0.45
	06/16/03	< 0.3
	11/20/03	< 0.3
	04/20/04	--
	07/20/04	0.3
	10/12/04	--
	01/25/05	--
	04/11/05	< 0.14
	07/11/05	--
	10/03/05	--
	01/05/06	--
	04/11/06	0.26
	07/21/06	--
	10/04/06	--
	02/21/07	< 0.14
	04/19/07	< 0.41
	07/19/07	< 0.41
	10/22/07	< 0.41
	01/14/08	< 0.14
	04/28/08	--
	10/29/08	< 0.23
	04/13/09	0.23
	10/05/09	< 0.23
	04/13/10	< 0.39
	10/19/10	< 0.41
	01/25/11	< 1
	03/17/11	< 1
OW12	07/20/04	--
	10/12/04	2.2
	01/25/05	**9.1**
	04/11/05	--
	04/12/05	3.6
	07/11/05	**8.8**
	10/03/05	**9.4**
	01/05/06	**6.9**
	04/11/06	< 0.14
	07/21/06	4
	10/04/06	**9.9**
	02/21/07	**5.1**
	04/19/07	1

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
PZ07B	08/12/08	< 3.4
	10/29/08	< 11.4
	04/13/09	< 2.3
	10/05/09	< 4.6
	04/13/10	< 0.39
	10/19/10	< 2
	01/19/11	0.91
	03/17/11	< 5
PZ09B	08/16/97	--
	09/03/97	--
	09/04/97	**37**
	02/26/98	--
	06/22/99	--
	06/23/99	1.7
	01/31/00	--
	02/01/00	1.5
	05/31/00	0.6
	08/31/00	< 0.5
	11/21/00	1.7
	04/01/02	--
	04/02/02	< 0.45
	07/22/02	--
	10/28/02	< 0.45
	06/16/03	< 0.3
	11/20/03	1
	04/20/04	--
	07/20/04	< 0.14
	10/12/04	--
	01/25/05	--
	04/12/05	< 0.14
	07/11/05	--
	10/03/05	< 0.14
	01/05/06	--
	04/11/06	< 0.14
	07/21/06	--
	10/04/06	0.19
	02/21/07	0.92
	04/19/07	1
	07/19/07	< 0.41
	10/22/07	< 0.41
	01/14/08	0.41
	04/28/08	0.21
	10/29/08	0.39
	04/13/09	< 0.23
PZ09B	10/05/09	0.27
	04/13/10	< 0.39
	10/19/10	1.4
	01/20/11	1.2
	03/17/11	< 1
PZ10B	08/16/97	--
	09/03/97	--
	09/04/97	0.14
	02/26/98	--
	06/22/99	--
	06/23/99	2.6
	01/31/00	--
	02/01/00	< 0.5
	05/31/00	< 0.5
	08/31/00	< 0.5
	11/21/00	< 0.5
	04/01/02	--
	04/02/02	< 0.45
	07/22/02	--
	10/28/02	< 0.45
	06/16/03	< 0.3
	11/20/03	< 0.3
	04/20/04	--
	07/20/04	--
	10/12/04	--
	01/25/05	--
	04/12/05	< 0.14
	07/11/05	--
	10/03/05	--
	01/05/06	--
	04/11/06	< 0.14
	07/21/06	--
	10/04/06	< 0.14
	02/21/07	< 0.14
	04/19/07	< 0.41
	07/19/07	< 0.41
	10/23/07	< 0.41
	01/14/08	< 0.14
	04/28/08	< 0.14
	10/29/08	< 0.23
	04/13/09	< 0.23
	10/05/09	< 0.23
	04/13/10	< 0.39
	10/19/10	< 0.41
	01/18/11	< 1
	03/16/11	< 1

Table 9. Groundwater Analytical Results - Benzene
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
OW04	10/05/09	1.2
	04/13/10	3.1
	10/19/10	0.8
	01/20/11	0.96
	03/17/11	0.43
OW05	06/03/93	**1300**
	09/16/93	--
	08/15/96	--
	08/16/96	**750**
	08/16/97	--
	09/03/97	--
	09/04/97	**50**
	02/26/98	--
	04/01/98	--
OW05A	06/03/93	**820**
	09/16/93	--
	08/15/96	--
	08/16/96	**140**
	08/16/97	--
	09/03/97	--
	09/04/97	**650**
	02/26/98	--
	04/01/98	--
OW05R	06/22/99	--
	01/31/00	--
	02/01/00	**529**
	05/31/00	**66**
	08/31/00	**45**
	11/21/00	**52**
	04/01/02	--
	04/02/02	**36**
	07/22/02	--
	10/28/02	**5.5**
	06/16/03	2.1
	11/20/03	**34**
	04/20/04	1.5
	07/20/04	4.1
	10/12/04	**64**
	01/25/05	**77**
	04/11/05	1.8
	07/11/05	**10**
	10/03/05	1.7
	01/05/06	1.4
	04/11/06	**15**
	07/21/06	**69**
	10/04/06	**90**
	02/21/07	2.9
	04/19/07	0.56
	07/19/07	**150**
	10/22/07	**96**
	01/14/08	**10**
	04/29/08	1.1
	08/12/08	**110**
	10/29/08	**114**
	04/13/09	4.1
	10/05/09	**54.7**
	04/14/10	**36.7**
	10/19/10	**13.2**
	01/25/11	2.1
	03/17/11	0.81
OW06	06/03/93	**5.2**
	09/16/93	--
	08/15/96	--
	08/16/96	< 3
	08/16/97	--
	09/03/97	2.3
	02/26/98	--
	06/22/99	--
	06/23/99	**19**
	01/31/00	--
	02/01/00	**10**
	05/31/00	**6.8**
	08/31/00	**9.7**
	11/21/00	< 10
	04/01/02	--
	04/02/02	**7.3**
	07/22/02	--
	10/28/02	4.2
	06/16/03	**6.1**
	11/20/03	**5.4**
	07/20/04	0.77
	10/12/04	--
	01/25/05	--

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
OW12	07/19/07	3.3
	10/22/07	3.6
	01/15/08	**20**
	04/29/08	0.98
	08/12/08	0.69
	10/30/08	2.5
	04/13/09	3.7
	10/05/09	4.5
	04/14/10	2.1
	10/19/10	4.8
	01/19/11	2.5
	03/17/11	**5.4**
OW14	07/25/07	**23**
	10/22/07	**82**
	04/29/08	**57.3**
	08/12/08	**27.7**
	10/30/08	**33.5**
	04/13/09	**43**
	10/05/09	**16.3**
	04/13/10	**11.7**
	10/19/10	**11.9**
	01/18/11	**8.6**
	03/16/11	**7.4**
OW15	07/24/07	< 0.41
	10/22/07	< 0.41
	01/15/08	< 0.14
	04/29/08	< 0.14
	08/12/08	< 0.14
	10/30/08	< 0.23
	04/13/09	< 0.23
	10/05/09	< 0.23
	04/13/10	< 0.39
	10/19/10	< 0.41
	01/19/11	< 1
	03/17/11	< 1
OW16	07/24/07	< 0.41
	10/22/07	< 0.41
	01/14/08	< 0.14
	04/29/08	< 0.14
	10/29/08	< 0.23
	04/13/09	< 0.23
	10/05/09	< 0.23
	04/14/10	< 0.39
	10/19/10	< 0.41
	01/19/11	< 1
	03/16/11	< 1
OW17	07/24/07	< 0.41
	10/22/07	< 0.41
	01/14/08	< 0.14
	04/29/08	< 0.14
	10/29/08	< 0.23
	04/13/09	< 0.23
	10/05/09	< 0.23
	04/14/10	< 0.39
	10/19/10	< 0.41
	01/19/11	< 1
	03/16/11	< 1
OW18	01/20/11	0.48
	03/16/11	1.2
OW19	01/20/11	< 1
	03/17/11	< 1
OW20	01/20/11	< 1
	03/17/11	< 1
OW21	01/20/11	< 1
	03/16/11	< 1
P05B	09/16/93	--
	09/17/93	ND
	08/15/96	--
	08/16/96	< 2.5
	08/16/97	--
	09/03/97	--
	09/04/97	2
	02/26/98	--
	06/22/99	--
	06/23/99	< 0.13
	01/31/00	--
	02/01/00	**6.4**
	05/31/00	4
	08/31/00	**11**
	11/21/00	**12**
	04/01/02	--
	04/02/02	**11**
	07/22/02	--

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
PZ11B	06/22/99	--
	01/31/00	--
	02/01/00	**10**
	05/31/00	**27**
	08/31/00	**53**
	11/21/00	**20**
	04/01/02	--
	04/02/02	**24**
	07/22/02	--
	10/28/02	**19**
	06/16/03	**18**
	11/20/03	**14**
	04/20/04	--
	07/20/04	0.75
	10/12/04	--
	01/25/05	--
	04/11/05	< 0.14
	07/11/05	--
	10/03/05	< 0.14
	01/05/06	--
	04/11/06	< 0.14
	07/21/06	--
	10/04/06	< 0.14
	02/21/07	< 0.14
	04/19/07	< 0.41
	07/19/07	< 0.41
	10/22/07	< 0.41
	01/14/08	0.48
	04/28/08	--
	10/29/08	< 0.23
	04/13/09	< 0.23
	10/05/09	< 0.23
	04/13/10	< 0.39
	10/19/10	< 0.41
	01/25/11	**7.8**
	03/17/11	< 1
PZ12B	07/20/04	--
	10/12/04	**25**
	01/25/05	**52**
	04/11/05	--
	04/12/05	**16**
	07/11/05	**33**
	10/03/05	< 0.14
	01/05/06	< 0.41
	04/11/06	3.3
	07/21/06	**15**
	10/04/06	**27**
	02/21/07	3.5
	04/19/07	**30**
	07/19/07	**29**
	10/22/07	**27**
	01/15/08	**8.9**
	04/28/08	**22.8**
	08/12/08	**31.3**
	10/30/08	**29.7**
	04/13/09	**11.9**
	10/05/09	**27.2**
	04/14/10	**15.6**
	10/20/10	**34.4**
	01/19/11	**13.2**
	03/17/11	**19.7**
PZ13B	10/12/04	< 0.14
	01/25/05	< 0.14
	04/11/05	< 0.14
	07/11/05	--
	10/03/05	< 0.14
	01/05/06	--
	04/11/06	< 0.14
	07/21/06	--
	10/04/06	< 0.14
	02/22/07	< 0.14
	04/20/07	< 0.41
	07/19/07	< 0.41
	10/22/07	< 0.41
	01/14/08	< 0.14
	04/28/08	< 0.14
	10/29/08	< 0.23
	04/13/09	< 0.23
	10/05/09	< 0.23
	04/14/10	< 0.39
	10/19/10	0.44
	01/19/11	< 1
	03/16/11	< 1

Table 9. Groundwater Analytical Results - Benzene
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
OW06	04/11/05	**5.7**
	07/11/05	--
	10/03/05	< 6.9
	01/05/06	--
	04/11/06	**5**
	07/21/06	--
	10/04/06	3.1
	02/21/07	4.9
	04/19/07	4.4
	07/19/07	2.7
	10/22/07	< 16
	01/14/08	4.4
	04/29/08	3.7
	08/12/08	4.1
	10/29/08	3.7
	04/13/09	4
	10/05/09	2.8
	04/13/10	1.6
	10/19/10	< 4.1
	01/19/11	< 50
	03/17/11	3.3
OW07	06/04/93	**21**
	09/16/93	--
	08/15/96	--
	08/16/96	< 0.5
	08/16/97	--
	09/03/97	0.23
	02/26/98	--
	04/01/98	--
OW07A	06/02/93	**6**
	09/16/93	--
	08/15/96	--
	08/16/96	**7**
	08/16/97	--
	09/03/97	2.1
	02/26/98	--
	06/22/99	--
	06/23/99	**14**
	01/31/00	--
	02/01/00	**23**
	05/31/00	**9.3**
	08/31/00	**14**
	11/21/00	**27**
	04/01/02	--
	04/02/02	**12**
	07/22/02	--
	10/28/02	**15**
	06/16/03	**11**
	11/20/03	**14**
	04/20/04	**8.3**
	07/20/04	**13**
	10/12/04	**18**
	01/25/05	**16**
	04/11/05	**8.1**
	07/11/05	**15**
	10/03/05	**14**
	01/05/06	**13**
	04/11/06	**7.8**
	07/21/06	**14**
	10/04/06	**22**
	02/21/07	**9.1**
	04/19/07	**8.2**
	07/19/07	**16**
	10/22/07	**17**
	01/14/08	**13**
	04/29/08	**15.8**
	08/12/08	**15.2**
	10/29/08	**23.7**
	04/13/09	**6.9**
	10/05/09	**13.2**
	04/13/10	**10.2**
	10/19/10	**29.6**
	01/19/11	**18.4**
	03/17/11	**12.1**

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
P05B	10/28/02	**12**
	06/16/03	< 12
	11/20/03	**13**
	04/20/04	**13**
	07/20/04	**9.6**
	10/12/04	**14**
	01/25/05	**13**
	04/11/05	**6.7**
	07/11/05	**9.5**
	10/03/05	**8.4**
	01/05/06	2.8
	04/11/06	3.5
	07/21/06	**6.3**
	10/04/06	**9.2**
	02/21/07	**11**
	04/19/07	< 0.41
	07/19/07	< 8.2
	10/22/07	**5.2**
	01/14/08	0.25
	04/28/08	**8**
	08/12/08	**7.1**
	10/29/08	**7.8**
	04/13/09	0.28
	10/05/09	**6**
	04/14/10	2.3
	10/20/10	**6.8**
	01/25/11	< 1
	03/17/11	< 1

Sample Location	Sample Date	Benzene (µg/l)
Quality Standard[1]		5
PZ14B	07/25/07	**9.8**
	10/22/07	0.69
	04/28/08	< 0.14
	08/12/08	< 0.14
	10/30/08	< 0.23
	04/13/09	< 0.23
	10/05/09	< 0.23
	04/13/10	< 0.39
	10/19/10	< 0.41
	01/18/11	0.63
	03/16/11	< 1
PZ15B	07/24/07	< 0.41
	10/22/07	< 0.41
	01/15/08	< 0.14
	04/29/08	< 0.14
	08/12/08	< 0.14
	10/30/08	< 0.23
	04/13/09	< 0.23
	10/05/09	< 0.23
	04/13/10	< 0.39
	10/19/10	< 0.41
	01/19/11	< 1
	03/17/11	< 1
PZ16B	07/24/07	< 0.41
	10/22/07	< 0.41
	01/14/08	< 0.14
	04/29/08	< 0.14
	10/29/08	< 0.23
	04/13/09	< 0.23
	10/05/09	< 0.23
	04/14/10	< 0.39
	10/20/10	< 0.41
	01/19/11	< 1
	03/16/11	< 1
TW01	10/30/08	< 0.23
	04/14/09	< 0.23
	10/05/09	< 0.23
	04/14/10	< 0.39
	10/20/10	< 0.41
	01/20/11	< 1
	03/17/11	< 1
TW02	10/30/08	< 0.23
	04/14/09	< 0.23
	10/05/09	< 0.23
	04/13/10	< 0.39
	10/19/10	< 0.41
	01/19/11	< 1
	03/16/11	< 1

NOTES:
1) Parameters that attain or exceed the EPA Groundwater Quality Standards (MCL) are shown in bold.
2) Reference the laboratory analytical report for a full list of compounds analyzed.

< 2.0: Parameter not detected above the limit of detection indicated.
NS: No standard established for this compound.
--: Analysis not performed.

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
OW01	06/23/99	--	1.32	--	--	--	179	7.9	0.047	--	20.94	--
OW01	01/31/00	--	--	--	--	--	--	--	--	--	--	--
OW01	02/01/00	--	--	--	--	--	--	--	--	--	--	--
OW01	05/31/00	--	4.48	--	--	--	300	6.24	0	--	15.25	--
OW01	08/31/00	--	--	--	--	--	--	--	--	--	--	--
OW01	11/21/00	--	--	--	--	--	--	--	--	--	--	--
OW01	04/01/02	--	--	--	--	--	--	--	--	--	--	--
OW01	04/02/02	--	4.81	--	--	--	499	6.94	0.002	--	9.13	--
OW01	07/22/02	--	--	--	--	--	--	--	--	--	--	--
OW01	10/28/02	--	5.93	--	--	--	350	6.85	0.732	--	13.26	--
OW01	06/16/03	--	1.35	--	--	--	100	--	0.478	--	9.58	--
OW01	11/20/03	--	--	--	--	--	--	--	--	--	--	--
OW01	04/20/04	--	--	--	--	--	--	--	--	--	--	--
OW01	07/20/04	--	--	--	--	--	--	--	--	--	--	--
OW01	10/12/04	--	--	--	--	--	--	--	--	--	--	--
OW01	01/25/05	--	--	--	--	--	--	--	--	--	--	--
OW01	04/11/05	230	0.47	**30000**	150	< 0.061	237	6.84	1.17	< 0.83	9.57	--
OW01	07/11/05	--	--	--	--	--	--	--	--	--	--	--
OW01	10/03/05	--	--	--	--	--	--	--	--	--	--	--
OW01	01/05/06	--	--	--	--	--	--	--	--	--	--	--
OW01	04/11/06	260	0.48	**20000**	260	0.25	-125	6.32	1.121	240	10.03	--
OW01	07/21/06	--	--	--	--	--	--	--	--	--	--	--
OW01	10/04/06	--	--	--	--	--	--	--	--	--	--	--
OW01	02/22/07	--	0.41	--	--	--	-209	6.49	1.062	--	8.43	--
OW01	04/19/07	340	0.33	**14000**	--	0.29	74	6.14	1.025	200	9.78	--
OW01	07/19/07	--	0.82	--	--	--	-62	6.62	0.93	--	12.57	--
OW01	10/22/07	300	3.64	**11000**	190	0.21	-80	6.61	0.866	180	13.09	--
OW01	01/14/08	--	0.41	--	--	--	-71	6.91	0.582	--	10	--
OW01	04/28/08	295	0.92	**2980**	--	5.8	25	6.61	1.02	180	11.21	--
OW01	10/29/08	267	1.46	**10700**	191	< 0.096	-88	7.3	0.76	126	12.51	4.8
OW01	04/13/09	237	1.07	**18600**	--	< 0.096	-53	6.7	0.96	**250**	8.36	10.3
OW01	10/05/09	338	0.44	**15100**	269	0.17	-18	6.47	0.955	179	13.27	3.6
OW01	04/13/10	276	0.76	**12600**	--	< 0.12	-60	6.98	0.823	111	9.31	74.9
OW01	10/19/10	378	0.36	**2860**	15.2	1.4	183	6.98	0.765	59.8	14.08	18.3
OW01	01/20/11	346	1	**7660**	--	< 0.25	3	7.42	0.684	87.7	9.09	15.2
OW01	03/17/11	318	0.26	**11800**	--	< 0.25	-41	6.63	0.839	101	9	49.3
OW02	06/23/99	--	1.96	--	--	--	146	8.49	0.33	--	15.07	--
OW02	01/31/00	--	--	--	--	--	--	--	--	--	--	--
OW02	02/01/00	--	--	--	--	--	--	--	--	--	--	--
OW02	05/31/00	--	3.67	--	--	--	212	6.7	0.148	--	11.87	--
OW02	08/31/00	--	--	--	--	--	--	--	--	--	--	--
OW02	11/21/00	--	--	--	--	--	--	--	--	--	--	--
OW02	04/01/02	--	--	--	--	--	--	--	--	--	--	--
OW02	04/02/02	--	1.4	**12000**	7400	0.031	316	7.37	0.412	9.4	6.53	--
OW02	07/22/02	--	--	--	--	--	--	--	--	--	--	--
OW02	10/28/02	--	3.29	**17000**	5300	0.39	332	7.14	0.294	2.5	15.62	--
OW02	06/16/03	--	1.51	**9400**	4100	< 0.047	91	--	0.214	19	11.64	--
OW02	11/20/03	--	--	**14000**	4300	0.055	--	--	--	3.5	--	--
OW02	04/20/04	--	--	--	--	--	--	--	--	--	--	--

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
OW02	07/20/04	--	--	--	--	--	--	--	--	--	--	--
OW02	10/12/04	--	--	--	--	--	--	--	--	--	--	--
OW02	01/25/05	--	--	--	--	--	--	--	--	--	--	--
OW02	04/11/05	120	0.28	**11000**	6200	< 0.061	148	6.77	0.56	2.4	5.82	--
OW02	07/11/05	--	--	--	--	--	--	--	--	--	--	--
OW02	10/03/05	--	--	--	--	--	--	--	--	--	--	--
OW02	01/05/06	--	--	--	--	--	--	--	--	--	--	--
OW02	04/11/06	100	0.21	**11000**	3800	< 0.11	119	6.76	0.522	3.7	8.31	--
OW02	07/21/06	--	--	--	--	--	--	--	--	--	--	--
OW02	10/04/06	--	--	--	--	--	--	--	--	--	--	--
OW02	02/22/07	--	0.4	--	--	--	-202	6.57	0.335	--	6.18	--
OW02	04/19/07	97	0.42	**11000**	--	< 0.096	100	6.42	0.5	2.8	6.79	--
OW02	07/19/07	--	0.78	--	--	--	-83	6.69	0.344	--	15.24	--
OW02	10/22/07	130	2.32	**9400**	5800	< 0.096	-60	6.52	0.428	2.9	16.29	--
OW02	01/14/08	--	0.43	--	--	--	-61	6.7	0.387	--	9.29	--
OW02	04/28/08	--	--	--	--	--	--	--	--	--	--	--
OW02	10/29/08	131	0.28	**9690**	6470	< 0.096	-136	6.4	0.287	2.2	14.84	1.4
OW02	04/13/09	112	0.37	**9860**	--	< 0.096	-113	6.73	0.63	6.5	5.35	5.8
OW02	10/05/09	103	0.34	**10700**	13000	< 0.12	-48	6.42	0.403	2.2	16.72	13.9
OW02	04/13/10	97.9	0.58	**11000**	--	< 0.12	-101	7.2	0.574	2.9	6.65	51.9
OW02	10/19/10	141	0.31	**18900**	9780	< 0.12	79	7.07	0.567	2.8	17.03	46
OW02	01/25/11	112	0.7	**10100**	--	< 0.25	-17	8.51	0.31	3.2	4.51	16.1
OW02	03/17/11	113	0.22	**10600**	--	< 0.25	-39	6.51	0.416	2.6	7	56.2
OW03R	06/22/99	--	--	--	--	--	--	--	--	--	--	--
OW03R	01/31/00	--	--	--	--	--	--	--	--	--	--	--
OW03R	02/01/00	176	--	**28000**	3420	< 0.069	--	--	--	4.3	--	--
OW03R	05/31/00	264	2.46	**9500**	3320	< 0.069	146	7.24	4.674	**866**	11.11	--
OW03R	08/31/00	244	1.35	**61000**	976	< 0.069	204	6.89	3.176	**626**	15.89	--
OW03R	11/21/00	137	2.8	**48000**	2080	< 0.069	174	6.47	0.582	9.1	13.04	--
OW03R	04/01/02	--	--	--	--	--	--	--	--	--	--	--
OW03R	04/02/02	--	3.4	**4400**	350	0.057	291	7.13	3.183	**910**	6.98	--
OW03R	07/22/02	--	--	--	--	--	--	--	--	--	--	--
OW03R	10/28/02	--	2.4	**31000**	750	0.14	303	6.93	1.263	200	13.47	--
OW03R	06/16/03	--	1.58	**3600**	150	0.42	105	--	1.15	**270**	12.85	--
OW03R	11/20/03	--	--	**63000**	1400	0.06	--	--	--	**380**	--	--
OW03R	04/20/04	--	--	--	--	--	--	--	--	--	--	--
OW03R	07/20/04	--	--	--	--	--	--	--	--	--	--	--
OW03R	10/12/04	--	--	--	--	--	--	--	--	--	--	--
OW03R	01/25/05	--	--	--	--	--	--	--	--	--	--	--
OW03R	04/11/05	450	0.4	**33000**	950	< 0.061	227	6.9	4.76	**320**	7.76	--
OW03R	07/11/05	--	--	--	--	--	--	--	--	--	--	--
OW03R	10/03/05	--	--	--	--	--	--	--	--	--	--	--
OW03R	01/05/06	--	--	--	--	--	--	--	--	--	--	--
OW03R	04/11/06	490	0.24	**16000**	260	< 0.11	93	6.79	0.616	**250**	8.47	--
OW03R	07/21/06	--	--	--	--	--	--	--	--	--	--	--
OW03R	10/04/06	--	--	--	--	--	--	--	--	--	--	--
OW03R	02/21/07	--	0.51	--	--	--	-242	6.42	0.788	--	8.75	--
OW03R	04/19/07	210	0.33	**10000**	--	< 0.096	137	6.47	1.387	87	9.31	--
OW03R	07/19/07	--	0.77	--	--	--	-93	6.62	0.63	--	13.18	--

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
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		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
OW03R	10/22/07	310	3.27	**27000**	1800	< 0.096	-91	6.71	3.01	120	14.37	--
OW03R	01/14/08	--	0.42	--	--	--	-83	6.76	0.622	--	9.49	--
OW03R	04/29/08	210	0.56	**13900**	--	2.1	-41	8.32	1.384	151	6.76	--
OW03R	10/29/08	141	1.22	**69600**	5880	< 0.096	-162	7.82	0.012	21.9	14.13	89.4
OW03R	04/13/09	362	0.22	**33300**	--	< 0.096	-87	6.43	5.09	244	7.28	100
OW03R	10/05/09	77.2	0.23	**53000**	6050	< 0.12	-81	6.66	0.575	5.7	14.33	39.3
OW03R	04/13/10	236	0.57	**41000**	--	< 0.12	-76	6.94	1.374	79	8.88	68.2
OW03R	10/19/10	252	0.29	**23600**	2290	0.38	140	6.99	0.975	63.8	14.82	10.7
OW03R	01/25/11	174	0.73	**11400**	--	0.15	18	8.13	0.467	31.5	3.98	55.1
OW03R	03/17/11	198	0.01	**14500**	--	< 0.25	-60	6.78	0.693	38.2	7.6	123
OW04	06/23/99	64	1.39	**15000**	--	0.07	106	8.86	0.203	15	13.95	--
OW04	01/31/00	--	--	--	--	--	--	--	--	--	--	--
OW04	02/01/00	63	--	**6800**	--	0.069	--	--	--	< 0.26	--	--
OW04	05/31/00	64	1.59	**9900**	--	< 0.069	143	6.85	0.3	< 0.38	10.57	--
OW04	08/31/00	54	1.02	**12000**	--	< 0.069	222	6.78	0.287	< 0.38	15.62	--
OW04	11/21/00	65	5.15	**12000**	--	< 0.069	169	6.84	0.26	< 0.38	11.32	--
OW04	04/01/02	--	--	--	--	--	--	--	--	--	--	--
OW04	04/02/02	--	3.39	**5100**	--	0.029	269	7.32	0.317	8.9	6.53	--
OW04	07/22/02	--	--	--	--	--	--	--	--	--	--	--
OW04	10/28/02	--	3.69	**15000**	--	< 0.022	314	7.36	0.38	2.7	12.99	--
OW04	06/16/03	--	0.36	**5600**	--	< 0.047	82	--	0.111	2.6	10.32	--
OW04	11/20/03	--	--	**11000**	--	0.052	--	--	--	< 1.1	--	--
OW04	04/20/04	--	--	--	--	--	--	--	--	--	--	--
OW04	07/20/04	--	--	--	--	--	--	--	--	--	--	--
OW04	10/12/04	--	--	--	--	--	--	--	--	--	--	--
OW04	01/25/05	--	--	--	--	--	--	--	--	--	--	--
OW04	04/11/05	140	0.39	**18000**	2800	< 0.061	259	6.96	0.5	1.6	7.51	--
OW04	07/11/05	--	--	--	--	--	--	--	--	--	--	--
OW04	10/03/05	--	--	--	--	--	--	--	--	--	--	--
OW04	01/05/06	--	--	--	--	--	--	--	--	--	--	--
OW04	04/11/06	110	0.24	**22000**	2300	< 0.11	117	6.84	2.54	2.3	8.26	--
OW04	07/21/06	--	--	--	--	--	--	--	--	--	--	--
OW04	10/04/06	--	--	--	--	--	--	--	--	--	--	--
OW04	02/21/07	--	0.41	--	--	--	-259	7.08	0.549	--	6.98	--
OW04	04/19/07	110	0.39	**15000**	--	< 0.096	106	6.33	0.35	1.8	9.04	--
OW04	07/19/07	--	0.76	--	--	--	-95	6.79	0.262	--	13.28	--
OW04	10/22/07	120	4.1	**9500**	2800	< 0.096	-94	6.84	0.234	< 0.51	13.52	--
OW04	01/14/08	--	--	--	--	--	-104	6.6	1.067	--	7.26	--
OW04	04/28/08	--	--	--	--	--	--	--	--	--	--	--
OW04	10/29/08	102	1.22	**28600**	3930	< 0.096	-138	7.52	0.621	1.9	13.58	26.3
OW04	04/13/09	115	0.76	**14100**	--	< 0.096	-72	6.9	0.433	4	6.83	46.3
OW04	10/05/09	83.8	0.6	**24400**	3300	< 0.12	-55	6.49	0.437	2	14.31	43.1
OW04	04/13/10	155	1.66	**27400**	--	< 0.12	-87	7.03	0.79	7.1	7.98	88.9
OW04	10/19/10	99.6	0.22	**18200**	2290	< 0.12	83	7.15	0.433	< 2	15.43	28.2
OW04	01/20/11	113	1.9	**20100**	--	< 0.25	-27	7.48	0.455	2.7	6.57	34.2
OW04	03/17/11	116	0.55	**15800**	--	< 0.25	-70	6.78	0.468	2.3	7.4	89.2
OW05R	06/22/99	--	--	--	--	--	--	--	--	--	--	--
OW05R	01/31/00	--	--	--	--	--	--	--	--	--	--	--
OW05R	02/01/00	388	--	**154000**	293	< 0.069	--	--	--	**2220**	--	--

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Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
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		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
OW05R	05/31/00	346	1.91	**49000**	153	< 0.069	164	6.66	3.811	**2030**	10.78	--
OW05R	08/31/00	352	4.66	**52000**	264	< 0.069	270	6.65	3.972	**2070**	17.12	--
OW05R	11/21/00	357	2.84	**69000**	349	0.13	201	6.5	3.811	**989**	11.21	--
OW05R	04/01/02	--	--	--	--	--	--	--	--	--	--	--
OW05R	04/02/02	--	3.67	**32000**	150	0.044	194	7.3	2.754	**1400**	6.56	--
OW05R	07/22/02	--	--	--	--	--	--	--	--	--	--	--
OW05R	10/28/02	--	0.77	**16000**	120	0.38	373	7.35	1.1	**940**	13.34	--
OW05R	06/16/03	--	2.22	24	11	1.8	102	--	0.639	**270**	10.07	--
OW05R	11/20/03	--	--	**33000**	420	< 0.047	--	--	--	**770**	--	--
OW05R	04/20/04	320	1.74	**8700**	42	0.3	-76	6.86	1.297	**420**	8.41	--
OW05R	07/20/04	360	0.67	**8400**	45	0.94	11	7.23	1.52	**470**	14.11	--
OW05R	10/12/04	300	0.59	**34000**	690	< 0.063	213	7.4	1.55	**480**	13.15	--
OW05R	01/25/05	300	1.22	**27000**	1100	< 0.063	139.3	7.98	0.392	**310**	9.23	--
OW05R	04/11/05	360	0.32	**30000**	190	< 0.061	269	6.82	0.36	**410**	10.21	--
OW05R	07/11/05	350	2.06	**23000**	34	< 0.061	75	7.68	1.41	**340**	14.06	--
OW05R	10/03/05	350	1.1	**11000**	49	< 0.061	-8	7.48	1.39	**400**	18.25	--
OW05R	01/05/06	300	1.25	**20000**	55	0.083	283	7.11	1.4	**380**	6.7	--
OW05R	04/11/06	350	1.06	**22000**	97	< 0.11	-153	6.57	1.311	**250**	8.06	--
OW05R	07/21/06	210	0.21	**3700**	2500	< 0.56	42	6.71	0.767	12	12.83	--
OW05R	10/04/06	200	0.24	**36000**	3700	< 0.11	-54	6.86	0.7	5.2	13.65	--
OW05R	02/21/07	--	1.68	--	--	--	-210	6.54	1.012	--	7.21	--
OW05R	04/19/07	300	2.28	**7400**	--	< 0.096	106	6.57	1.084	**270**	7.47	--
OW05R	07/19/07	--	0.8	--	--	--	-106	6.76	0.632	--	11.72	--
OW05R	10/22/07	200	--	**30000**	1800	0.11	-134	6.9	0.587	16	13.23	--
OW05R	01/14/08	--	--	--	--	--	--	--	--	--	--	--
OW05R	04/29/08	235	1.25	**7200**	--	< 0.096	-40	6.48	0.976	206	5.15	--
OW05R	08/12/08	167	0.24	**32700**	--	< 0.096	-70	6.35	0.6	4.2	12.88	80.1
OW05R	10/29/08	224	--	**47000**	2810	< 0.096	-127	6.77	0.78	44.6	13.01	28.3
OW05R	04/13/09	252	0.77	**15800**	--	< 0.096	-85	6.89	0.862	145	5.7	5.1
OW05R	10/05/09	251	0.24	**26900**	741	< 0.12	-53	6.62	1.51	83	13.83	45.5
OW05R	04/14/10	258	1.12	**17000**	--	< 0.12	-83	7.13	0.973	60.4	7.6	66.5
OW05R	10/19/10	350	0.2	**16400**	278	< 0.12	102	7.11	0.883	108	15.09	26.5
OW05R	01/25/11	339	1.01	**18500**	--	< 0.25	-36	8.64	0.718	94.2	4.04	25.4
OW05R	03/17/11	283	0.88	**21700**	--	< 0.25	-43	6.72	0.94	108	7.1	49.3
OW06	06/23/99	--	2.14	--	--	--	94	8.82	0.522	--	13.12	--
OW06	01/31/00	--	--	--	--	--	--	--	--	--	--	--
OW06	02/01/00	--	--	--	--	--	--	--	--	--	--	--
OW06	05/31/00	--	3.4	--	--	--	281	6.21	0.239	--	12.04	--
OW06	08/31/00	--	3.6	--	--	--	196	6.83	1.034	--	14.34	--
OW06	11/21/00	--	5.73	--	--	--	199	6.49	0.337	--	12	--
OW06	04/01/02	--	--	--	--	--	--	--	--	--	--	--
OW06	04/02/02	--	4.58	--	--	--	234	7.28	0.38	--	6.47	--
OW06	07/22/02	--	--	--	--	--	--	--	--	--	--	--
OW06	10/28/02	--	4.19	--	--	--	290	7.05	0.484	--	13.41	--
OW06	06/16/03	--	1.78	--	--	--	120	--	0.171	--	9.19	--
OW06	11/20/03	--	--	--	--	--	--	--	--	--	--	--
OW06	07/20/04	130	0.41	**9300**	2000	< 0.063	-2	7.49	0.353	3.7	11.68	--
OW06	10/12/04	--	--	--	--	--	--	--	--	--	--	--
OW06	01/25/05	--	--	--	--	--	--	--	--	--	--	--

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
OW06	04/11/05	110	0.38	**12000**	4900	< 0.061	119	6.66	0.001	4.9	7.44	--
OW06	07/11/05	--	--	--	--	--	--	--	--	--	--	--
OW06	10/03/05	350	0.34	**4100**	1600	< 0.061	-329	6.56	0.88	11	16.93	--
OW06	01/05/06	--	--	--	--	--	--	--	--	--	--	--
OW06	04/11/06	95	0.33	**11000**	6800	< 0.11	-126	5.98	0.494	6.2	7.4	--
OW06	07/21/06	--	--	--	--	--	--	--	--	--	--	--
OW06	10/04/06	190	0.44	**16000**	6100	< 0.11	-77	5.94	0.54	6.4	14.04	--
OW06	02/21/07	--	0.38	--	--	--	-241	6.55	0.571	--	7.27	--
OW06	04/19/07	93	0.31	**10000**	--	< 0.096	75	6.02	0.898	8.6	8	--
OW06	07/19/07	--	0.87	--	--	--	-71	6.22	0.531	--	12.49	--
OW06	10/22/07	290	1.84	**5000**	5300	< 0.096	-44	6.44	0.598	7.6	13.56	--
OW06	01/14/08	--	0.34	--	--	--	-61	6.45	0.53	--	9.03	--
OW06	04/29/08	338	1.55	**7780**	--	< 0.096	-105	7.75	0.717	7.4	7.17	--
OW06	08/12/08	294	0.44	**5540**	--	< 0.096	-70	6.7	0.681	4.2	11.81	20.4
OW06	10/29/08	243	--	**8920**	5880	< 0.096	-116	6.59	0.994	7.9	13.15	5.8
OW06	04/13/09	89.9	0.39	**7180**	--	< 0.096	-89	6.5	0.538	8	6.44	4
OW06	10/05/09	242	0.44	**5920**	7390	< 0.12	-44	6.43	0.62	6.9	13.75	0
OW06	04/13/10	65.2	0.65	**8610**	--	< 0.12	-81	6.83	0.363	7.9	7.79	105
OW06	10/19/10	324	0.35	**4550**	2680	< 0.12	85	7.41	0.854	< 2	14.51	7.2
OW06	01/19/11	328	2.4	**4270**	--	< 0.25	-23	7.98	0.653	2.4	7.39	2.6
OW06	03/17/11	121	0.07	**8210**	--	< 0.25	-19	6.48	0.426	2.3	9	24.3
OW07A	06/23/99	180	1.27	**19000**	6500	0.2	104	8.85	0.66	18	12.53	--
OW07A	01/31/00	--	--	--	--	--	--	--	--	--	--	--
OW07A	02/01/00	94	--	**8700**	12000	0.071	--	--	--	< 0.26	--	--
OW07A	05/31/00	106	2.72	**5300**	8300	< 0.069	178	6.55	0.343	< 0.38	10.54	--
OW07A	08/31/00	223	8.65	**14000**	7140	< 0.069	192	6.81	1.081	< 0.38	7.35	--
OW07A	11/21/00	127	4.53	**8400**	8820	< 0.069	193	6.47	0.44	< 0.38	10.81	--
OW07A	04/01/02	--	--	--	--	--	--	--	--	--	--	--
OW07A	04/02/02	--	2.96	**6400**	7800	0.026	226	7.21	0.391	5.4	6.57	--
OW07A	07/22/02	--	--	--	--	--	--	--	--	--	--	--
OW07A	10/28/02	--	4.92	**20000**	5200	< 0.022	385	7.14	0.507	< 1.1	13.96	--
OW07A	06/16/03	--	1.05	**4300**	2600	< 0.047	110	--	0.278	3	8.82	--
OW07A	11/20/03	--	--	**12000**	5700	0.06	--	--	--	< 1.1	--	--
OW07A	04/20/04	94	2.75	**8400**	3200	< 0.063	-119	6.72	0.487	2.3	7.17	--
OW07A	07/20/04	250	0.46	**20000**	3500	< 0.063	20	7.33	0.973	0.67	13.03	--
OW07A	10/12/04	210	1.13	**25000**	6400	< 0.063	195	7.42	0.91	3.5	14.64	--
OW07A	01/25/05	130	1.21	**12000**	4900	< 0.063	92	8.07	1.447	0.96	9.28	--
OW07A	04/11/05	110	0.26	**8300**	6100	< 0.061	113	6.67	0.54	1.3	7.77	--
OW07A	07/11/05	150	0.73	**16000**	5400	< 0.061	70	7.64	0.25	< 0.83	14.69	--
OW07A	10/03/05	210	0.44	**26000**	7100	< 0.061	-319	6.18	1.26	< 0.83	17.59	--
OW07A	01/05/06	130	0.78	**13000**	4900	< 0.061	237	6.68	0.61	1.9	8.82	--
OW07A	04/11/06	100	0.7	**8200**	7100	< 0.11	-157	6.4	0.507	2.2	7.29	--
OW07A	07/21/06	120	0.33	**14000**	5300	< 0.11	53	5.95	0.805	1.6	13.15	--
OW07A	10/04/06	180	0.4	**20000**	12000	< 0.11	-45	7.03	1.04	2.1	14.88	--
OW07A	02/21/07	--	0.48	--	--	--	-250	7.43	0.342	--	7.95	--
OW07A	04/19/07	100	0.49	**8100**	--	< 0.096	126	6.32	0.508	2.1	7.71	--
OW07A	07/19/07	--	1.13	--	--	--	-114	6.13	0.772	--	12.86	--
OW07A	10/22/07	220	1.12	**17000**	7000	< 0.096	-54	6.44	1.003	< 0.51	14.29	--
OW07A	01/14/08	--	--	--	--	--	-124	6.32	0.466	--	9.71	--

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Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
OW07A	04/29/08	164	0.81	**19800**	--	< 0.096	-114	6.19	1.5	28.4	--	--
OW07A	08/12/08	203	0.87	**18800**	--	< 0.096	-65	6.31	1.27	2.2	13.31	18.3
OW07A	10/29/08	180	0.66	**19600**	10200	< 0.096	-111	6.4	0.905	< 0.51	13.29	6.9
OW07A	04/13/09	112	2.95	**7130**	--	< 0.096	-86	2.85	0.668	9.1	6.45	79.4
OW07A	10/05/09	167	0.41	**18400**	7800	< 0.12	-56	6.52	1.097	< 2	14.17	6.7
OW07A	04/13/10	118	-84	**7880**	--	< 0.12	152	6.23	0.565	2.3	6.16	19.4
OW07A	10/19/10	295	0.63	**21100**	6450	< 0.12	103	6.73	1.198	< 2	14.49	0.9
OW07A	01/19/11	202	2.4	**17700**	--	< 0.25	-14	8.59	0.673	2.3	2.55	10
OW07A	03/17/11	124	0	**8890**	--	< 0.25	-29	6.41	0.475	2.1	8.5	17.9
OW08	06/23/99	56	2.48	**29000**	--	0.33	116	8.8	0.26	4.9	14.85	--
OW08	01/31/00	--	--	--	--	--	--	--	--	--	--	--
OW08	02/01/00	85	--	**15000**	--	< 0.069	--	--	--	< 0.26	--	--
OW08	05/31/00	107	2.2	**20000**	--	< 0.069	141	6.92	0.395	0.52	11.82	--
OW08	08/31/00	101	3.52	**28000**	--	< 0.069	159	6.87	0.465	5.8	14.31	--
OW08	11/21/00	95	8.73	**19000**	--	< 0.069	166	6.84	0.294	0.51	12.89	--
OW08	04/01/02	--	--	--	--	--	--	--	--	--	--	--
OW08	04/02/02	--	--	--	--	--	--	--	--	--	--	--
OW08	07/22/02	--	--	--	--	--	--	--	--	--	--	--
OW08	10/28/02	--	2.4	**23000**	--	< 0.022	266	6.97	0.277	< 1.1	14.19	--
OW08	06/16/03	--	1.52	**14000**	--	< 0.047	67	--	0.118	< 1.1	12.21	--
OW08	11/20/03	--	--	**35000**	--	0.05	--	--	--	< 1.1	--	--
OW08	04/20/04	--	--	--	--	--	--	--	--	--	--	--
OW08	07/20/04	--	--	--	--	--	--	--	--	--	--	--
OW08	10/12/04	--	--	--	--	--	--	--	--	--	--	--
OW08	01/25/05	--	--	--	--	--	--	--	--	--	--	--
OW08	04/11/05	70	0.62	**24000**	2300	< 0.061	236	6.63	0.32	< 0.83	7.47	--
OW08	07/11/05	--	--	--	--	--	--	--	--	--	--	--
OW08	10/03/05	--	--	--	--	--	--	--	--	--	--	--
OW08	01/05/06	--	--	--	--	--	--	--	--	--	--	--
OW08	04/11/06	58	0.46	**40000**	2900	< 0.11	-169	6.23	0.727	< 0.77	8.5	--
OW08	07/21/06	--	--	--	--	--	--	--	--	--	--	--
OW08	10/04/06	--	--	--	--	--	--	--	--	--	--	--
OW08	02/22/07	--	0.62	--	--	--	-240	6.91	0.725	--	6.6	--
OW08	04/20/07	62	0.46	**29000**	--	< 0.096	143	6.54	0.311	< 0.51	9.32	--
OW08	07/19/07	--	0.67	--	--	--	-117	6.77	0.886	--	16.6	--
OW08	10/22/07	77	2.37	**36000**	3500	< 0.096	-92	6.7	0.573	< 0.51	14.89	--
OW08	01/14/08	--	--	--	--	--	-103	6.84	0.777	--	7.38	--
OW08	04/28/08	--	--	--	--	--	--	--	--	--	--	--
OW08	04/13/10	--	--	--	--	--	--	--	--	--	--	--
OW08	10/19/10	--	--	--	--	--	--	--	--	--	--	--
OW09	06/23/99	140	0.64	**21000**	--	0.62	125	8.59	0.517	42	11.01	--
OW09	01/31/00	--	--	--	--	--	--	--	--	--	--	--
OW09	02/01/00	127	--	**14000**	--	0.079	--	--	--	6.1	--	--
OW09	05/31/00	197	2.53	**23000**	--	< 0.069	143	6.62	0.775	68	11.01	--
OW09	08/31/00	107	3.41	**28000**	--	< 0.069	201	7.04	0.562	73	13.98	--
OW09	11/21/00	163	2.31	**24000**	--	< 0.069	208	6.49	0.811	75	13.39	--
OW09	04/01/02	--	--	--	--	--	--	--	--	--	--	--
OW09	04/02/02	--	3.82	**14000**	--	0.043	258	7.62	1.005	**250**	10.07	--
OW09	07/22/02	--	--	--	--	--	--	--	--	--	--	--

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1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
OW09	10/28/02	--	3.45	**20000**	--	< 0.022	201	6.95	0.68	**270**	13.13	--
OW09	06/16/03	--	0.58	**16000**	--	0.34	124	--	0.589	200	9.59	--
OW09	11/20/03	--	--	**13000**	--	0.048	--	--	--	230	--	--
OW09	04/20/04	--	--	--	--	--	--	--	--	--	--	--
OW09	07/20/04	210	0.66	**12000**	750	< 0.063	34	7.29	1.111	**250**	11.8	--
OW09	10/12/04	--	--	--	--	--	--	--	--	--	--	--
OW09	01/25/05	--	--	--	--	--	--	--	--	--	--	--
OW09	04/12/05	210	0.8	**8800**	1900	< 0.061	153	6.81	0.63	2.2	9.76	--
OW09	07/11/05	--	--	--	--	--	--	--	--	--	--	--
OW09	10/03/05	230	0.28	**11000**	3300	< 0.061	-372	6.24	0.67	15	15.05	--
OW09	01/05/06	--	--	--	--	--	--	--	--	--	--	--
OW09	04/11/06	250	0.14	**10000**	2100	< 0.11	68	6.56	0.793	15	10.17	--
OW09	07/21/06	--	--	--	--	--	--	--	--	--	--	--
OW09	10/04/06	230	0.61	**13000**	3700	< 0.11	-61	6.08	0.87	6.9	13	--
OW09	02/21/07	--	-223	--	--	--	0.4	6.5	0.729	--	10.32	--
OW09	04/19/07	210	0.33	**9100**	--	< 0.096	115	6.11	0.538	8.1	11.68	--
OW09	07/19/07	--	0.89	--	--	--	-75	6.79	0.567	--	11.76	--
OW09	10/22/07	200	2.33	**12000**	3400	< 0.096	-46	6.53	0.522	4.4	12.49	--
OW09	01/14/08	--	--	--	--	--	-94	6.95	0.591	--	10.55	--
OW09	04/29/08	158	0.36	**14200**	--	< 0.096	-117	7.68	0.447	2.8	9.34	--
OW09	08/12/08	165	0.67	**20200**	--	< 0.096	-62	6.5	0.581	4.7	11.55	9.1
OW09	10/29/08	185	1.33	**18800**	5320	< 0.096	-176	8.4	0.56	7.3	12.47	6.2
OW09	04/13/09	220	0.25	**14800**	--	< 0.096	-82	6.5	0.648	4.6	9.48	19.4
OW09	10/05/09	114	0.35	**29800**	4180	< 0.12	-34	6.48	0.947	3.1	12.46	0
OW09	04/13/10	173	0.51	**12500**	--	< 0.12	-94	7.03	0.576	2.1	10.69	6
OW09	10/19/10	182	0.48	**19500**	2150	< 0.12	112	7.15	0.58	4.6	14.02	3
OW09	01/20/11	261	1.38	**13900**	--	< 0.25	-40	7.29	0.397	2.7	9.93	5.1
OW09	03/17/11	206	0.09	**17500**	--	< 0.25	-60	6.63	0.748	4.6	10.9	8.5
OW10	06/23/99	880	1.94	**340**	--	0.35	133	8.45	0.659	73	11.53	--
OW10	01/31/00	--	--	--	--	--	--	--	--	--	--	--
OW10	02/01/00	988	--	**5500**	--	0.099	--	--	--	2.2	--	--
OW10	05/31/00	1030	3.02	**890**	--	< 0.069	178	7.07	6.251	32	11.05	--
OW10	08/31/00	704	0.91	**1900**	--	< 0.069	155	7.11	6.588	31	13.61	--
OW10	11/21/00	921	2.5	**880**	--	< 0.069	150	6.91	6.22	11	13.39	--
OW10	04/01/02	--	--	--	--	--	--	--	--	--	--	--
OW10	04/02/02	--	5.01	**1200**	--	0.16	296	7.52	7.364	16	8.88	--
OW10	07/22/02	--	--	--	--	--	--	--	--	--	--	--
OW10	10/28/02	--	1.98	**1500**	--	0.041	275	6.95	1.412	51	13.26	--
OW10	06/16/03	--	1.24	< 18	--	0.14	52	--	3.39	210	10.39	--
OW10	11/20/03	--	--	**44000**	--	0.061	--	--	--	9.5	--	--
OW10	04/20/04	--	--	--	--	--	--	--	--	--	--	--
OW10	07/20/04	--	--	--	--	--	--	--	--	--	--	--
OW10	10/12/04	--	--	--	--	--	--	--	--	--	--	--
OW10	01/25/05	--	--	--	--	--	--	--	--	--	--	--
OW10	04/12/05	670	0.22	**13000**	2000	< 0.061	67	7.2	6.82	16	8.44	--
OW10	07/11/05	--	--	--	--	--	--	--	--	--	--	--
OW10	01/05/06	--	--	--	--	--	--	--	--	--	--	--
OW10	04/11/06	890	0.51	**17000**	3200	< 0.11	101	6.76	9.13	4.4	8.99	--
OW10	07/21/06	--	--	--	--	--	--	--	--	--	--	--

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
OW10	10/04/06	410	0.24	**18000**	1900	< 0.11	-67	7.08	5.69	9.5	13.62	--
OW10	02/21/07	--	0.29	--	--	--	-289	6.77	7.09	--	10.02	--
OW10	04/19/07	840	0.53	**12000**	--	< 0.096	80	6.58	9.19	7.2	9.32	--
OW10	07/19/07	--	0.69	--	--	--	-104	6.89	1.028	--	11.99	--
OW10	10/23/07	410	2.63	**20000**	2800	< 0.096	-115	6.63	3.88	5.9	13.13	--
OW10	01/14/08	--	0.24	--	--	--	-96	7.05	4.98	--	10.8	--
OW10	04/29/08	2330	1.7	**2550**	--	0.81	-20	6.75	13.59	**408**	6.54	--
OW10	08/12/08	163	0.15	**8390**	--	< 0.096	-67	6.61	0.623	21.5	12.02	8.7
OW10	10/29/08	353	0.31	**18300**	4370	< 0.096	-106	6.84	3.53	13.9	13.16	4.2
OW10	04/13/09	468	0.42	**9650**	--	< 0.096	-113	7.13	6.84	19.1	8.56	--
OW10	10/05/09	163	0.16	**9490**	6950	< 0.12	-81	6.86	1.67	< 2	12.35	6.4
OW10	04/13/10	832	5.44	**12800**	--	< 0.12	-95	7.15	13.27	55	8.94	128
OW10	10/19/10	688	0.32	**9520**	2110	< 0.12	60	7.47	6.08	91.9	12.41	7.1
OW10	01/18/11	614	0.65	**10000**	--	< 0.25	-97	7.59	5.8	73	7.34	9.9
OW10	03/16/11	778	0.21	**10500**	--	< 0.25	-98	6.74	8.72	192	8.8	31.8
OW11	06/22/99	--	--	--	--	--	--	--	--	--	--	--
OW11	01/31/00	--	--	--	--	--	--	--	--	--	--	--
OW11	02/01/00	74	--	**7900**	975	< 0.069	--	--	--	< 0.26	--	--
OW11	05/31/00	120	1.72	**16000**	591	< 0.069	149	6.86	0.654	1.2	9.21	--
OW11	08/31/00	94	1.81	**30000**	1550	< 0.069	197	6.92	0.368	15	16.37	--
OW11	11/21/00	99	2.1	**17000**	1040	< 0.069	146	6.76	0.542	3.4	14.18	--
OW11	04/01/02	--	--	--	--	--	--	--	--	--	--	--
OW11	04/02/02	--	3.25	**12000**	610	0.043	164	7.47	0.597	5	6.98	--
OW11	07/22/02	--	--	--	--	--	--	--	--	--	--	--
OW11	10/28/02	--	2.31	**14000**	360	0.1	2.68	6.92	0.489	7.2	16.59	--
OW11	06/16/03	--	1.18	**16000**	820	< 0.047	84	--	0.373	5.7	9.73	--
OW11	11/20/03	--	--	**22000**	1200	< 0.047	--	--	--	< 1.1	--	--
OW11	04/20/04	--	--	--	--	--	--	--	--	--	--	--
OW11	07/20/04	150	1.29	**18000**	410	0.38	163	6.8	0.858	16	14.13	--
OW11	10/12/04	--	--	--	--	--	--	--	--	--	--	--
OW11	01/25/05	--	--	--	--	--	--	--	--	--	--	--
OW11	04/11/05	170	0.52	**34000**	420	< 0.061	77	6.98	1.12	4.1	7.77	--
OW11	07/11/05	--	--	--	--	--	--	--	--	--	--	--
OW11	10/03/05	--	--	--	--	--	--	--	--	--	--	--
OW11	01/05/06	--	--	--	--	--	--	--	--	--	--	--
OW11	04/11/06	110	0.32	**26000**	670	< 0.11	74	6.5	1.275	5	8.72	--
OW11	07/21/06	--	--	--	--	--	--	--	--	--	--	--
OW11	10/04/06	--	--	--	--	--	--	--	--	--	--	--
OW11	02/21/07	--	0.54	--	--	--	-281	6.84	1.096	--	8.29	--
OW11	04/19/07	170	0.36	**27000**	--	< 0.096	89	6.2	1.118	2.2	8.17	--
OW11	07/19/07	--	0.85	--	--	--	-88	6.82	1.52	--	14.52	--
OW11	10/22/07	160	3	**18000**	880	< 0.096	-89	6.74	1.069	2.2	16.6	--
OW11	01/14/08	--	0.41	--	--	--	-99	7.11	0.661	--	9.94	--
OW11	04/28/08	--	--	--	--	--	--	--	--	--	--	--
OW11	10/29/08	123	1.32	**28000**	1870	< 0.096	-180	8.19	0.926	< 0.51	15.75	11.9
OW11	04/13/09	124	0.57	**23900**	--	< 0.096	-111	7.2	0.727	2.2	6.67	0.4
OW11	10/05/09	138	0.38	**13300**	523	< 0.12	-72	6.64	1.089	2.8	16.38	14.8
OW11	04/13/10	135	0.95	**17700**	--	< 0.12	-101	7.31	0.865	2	8.08	61.6
OW11	10/19/10	110	0.37	**20000**	940	< 0.12	81	7.02	0.771	< 2	17.32	10.1

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
OW11	01/25/11	111	0.95	**15100**	--	< 0.25	-60	8.23	0.673	2.2	6.33	13.2
OW11	03/17/11	191	0.18	**16700**	--	< 0.25	-98	6.9	1.2	6.7	8.2	19.7
OW12	07/20/04	--	--	--	--	--	--	--	--	--	--	--
OW12	10/12/04	180	0.48	**11000**	1300	< 0.063	219	7.5	0.86	6.6	15.51	--
OW12	01/25/05	170	2.13	**15000**	2200	< 0.063	139.7	7.51	0.73	2.5	10.34	--
OW12	04/11/05	--	--	--	--	--	--	--	--	--	--	--
OW12	04/12/05	97	1.14	**28000**	1600	< 0.061	56	6.97	1.68	3.1	8.27	--
OW12	07/11/05	170	1.47	**17000**	1300	< 0.061	91	6.8	1.54	3.4	13.71	--
OW12	10/03/05	150	0.61	**19000**	1700	< 0.061	-13	7.77	0.7	< 0.83	20.13	--
OW12	01/05/06	150	0.52	**23000**	1800	0.07	251	6.72	146	4.4	11.18	--
OW12	04/11/06	39	4.04	< 50	< 10	0.2	114	6.37	1.64	7	10.14	--
OW12	07/21/06	180	0.15	**24000**	780	< 0.11	-79	6.21	2.38	17	14.68	--
OW12	10/04/06	160	1.53	**21000**	1900	< 0.11	-38	6.16	1.12	2.1	16.47	--
OW12	02/21/07	--	0.32	--	--	--	-234	6.58	0.738	--	9.8	--
OW12	04/19/07	200	0.39	**12000**	--	< 0.096	128	6.38	4.79	18	9.25	--
OW12	07/19/07	--	0.77	--	--	--	-76	6.54	2.12	--	14.95	--
OW12	10/22/07	230	2.25	**6400**	1500	0.11	-70	6.61	1.068	5.6	15.93	--
OW12	01/15/08	--	0.33	--	--	--	-43	7.4	0.321	--	12.02	--
OW12	04/29/08	183	0.14	**17100**	--	0.23	-139	7.97	4.34	15.8	7.95	--
OW12	08/12/08	202	0.14	**6590**	--	< 0.096	-51	6.63	1.7	18	14.75	49.6
OW12	10/30/08	139	1	**16200**	3330	< 0.096	-60	6.66	0.947	2.1	14.72	24.5
OW12	04/13/09	124	0.27	**21700**	--	< 0.096	-78	6.95	0.771	9.5	7.74	77.3
OW12	10/05/09	133	0.41	**19300**	2970	< 0.12	-72	6.66	0.926	3.2	15.56	11.9
OW12	04/14/10	190	0.36	**15800**	--	< 0.12	-99	7.16	1.086	5	8.49	19.9
OW12	10/19/10	137	0.28	**14400**	2350	< 0.12	104	7.08	0.786	< 2	16.19	43.2
OW12	01/19/11	160	1.17	**15200**	--	< 0.25	-32	7.25	0.946	3.8	9.88	53.2
OW12	03/17/11	165	5.43	**15500**	--	< 0.25	-87	6.87	0.68	2	9.3	71.4
OW14	07/25/07	--	1.19	--	--	--	-22	6.74	1.76	--	16.35	--
OW14	10/22/07	210	6.39	**2200**	790	< 0.096	-14	6.32	0.78	2	16.24	--
OW14	04/29/08	225	0.49	**5620**	--	0.22	-70	7.81	0.954	7.9	8.25	--
OW14	08/12/08	246	0.2	**3180**	--	1.1	-10	6.46	1.51	33.4	16.4	9.2
OW14	10/30/08	234	1.32	**11600**	2560	< 0.096	-174	8.77	1.33	16.3	15.58	11
OW14	04/13/09	191	0.32	**10600**	--	< 0.096	-56	6.78	1.168	4.5	8.28	0
OW14	10/05/09	373	0.22	**684**	681	3.3	28	6.7	1.8	40.2	17.41	9.1
OW14	04/13/10	344	0.37	**1100**	--	5.2	-2	6.94	2.06	35.2	9.47	10
OW14	10/19/10	293	--	**1500**	519	0.13	--	--	--	22.8	--	--
OW14	01/18/11	333	97	**1840**	--	1.4	96	7.07	1.164	17.8	6.31	36.2
OW14	03/16/11	98.2	0.55	**1340**	--	0.93	-21	6.82	4.59	17.5	8.2	88.1
OW15	07/24/07	--	1.16	--	--	--	-109	6.47	1.48	--	15.1	--
OW15	10/22/07	130	3.35	**22000**	260	< 0.096	-56	6.4	1.93	8.7	14.93	--
OW15	01/15/08	--	0.81	--	--	--	-34	6.96	1.5	--	10.75	--
OW15	04/29/08	128	0.24	**17100**	--	0.1	-72	6.78	1.434	5.7	7.56	--
OW15	08/12/08	91.1	1.73	**22100**	--	< 0.096	-70	6.48	1.89	12.4	14.48	55.7
OW15	10/30/08	148	1.2	**12200**	386	0.31	-161	8.73	1.8	8.4	14.14	50
OW15	04/13/09	166	1.1	**6640**	--	< 0.096	-60	7.09	1.031	3.7	8.68	74
OW15	10/05/09	116	0.46	**13400**	275	< 0.12	-60	6.77	1.75	6.6	15.1	18.4
OW15	04/13/10	134	1.89	**8780**	--	0.5	-78	7.02	1.543	10.2	9.29	87.6
OW15	10/19/10	193	1.26	16	< 0.93	4.2	243	7	2.47	24.3	15.9	15.5
OW15	01/19/11	237	2.97	30.5	--	0.3	10	7.5	1.271	9.1	9.43	19.1

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1111 Crosby Avenue, Stevens Point, Wisconsin
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		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
OW15	03/17/11	226	2.33	95.4	--	2.3	66	7.04	1.93	13.2	9.1	73.6
OW16	07/24/07	--	1.29	--	--	--	24	6.46	0.132	--	20.96	--
OW16	10/22/07	79	2.86	**8200**	3300	< 0.096	-43	6.67	0.212	7.4	15.12	--
OW16	01/14/08	--	--	--	--	--	-84	7.03	0.197	--	5.71	--
OW16	04/29/08	31.8	1.75	**10400**	--	< 0.096	-25	5.37	0.258	14.1	9.21	--
OW16	10/29/08	65.6	0.3	**17400**	4020	< 0.096	-97	6.48	0.3	71.6	13.98	8.5
OW16	04/13/09	68.8	0.47	**13400**	--	< 0.096	-103	6.83	0.255	8.7	4.04	7
OW16	10/05/09	41.1	0.18	**5780**	3170	< 0.12	-64	6.73	0.231	6.4	16.73	75.9
OW16	04/14/10	29.4	0.51	**5180**	--	< 0.12	-41	7.07	0.193	6.7	5.33	130
OW16	10/19/10	22.4	1	**4260**	4560	< 0.12	159	6.75	0.153	5.2	15.37	37
OW16	01/19/11	34.6	1	**10700**	--	< 0.25	-18	8.46	0.162	7	1.21	32
OW16	03/16/11	43.5	0.35	**12300**	--	< 0.25	-59	6.6	0.233	5	4.1	187
OW17	07/24/07	--	1.04	--	--	--	-79	6.43	0.184	--	15	--
OW17	10/22/07	81	2.42	**5000**	7400	< 0.096	-47	6.58	0.204	< 0.51	15.74	--
OW17	01/14/08	--	--	--	--	--	-77	7.02	0.207	--	6.52	--
OW17	04/29/08	71.2	0.66	**6380**	--	< 0.096	-150	8.43	0.209	2.2	5.82	--
OW17	10/29/08	74.9	1.26	**5260**	5810	< 0.096	-202	8.63	0.229	10	14.79	39.4
OW17	04/13/09	61.6	0.39	**4540**	--	< 0.096	-109	6.9	0.226	8.5	5.99	5.1
OW17	10/05/09	74.1	0.31	**4580**	11400	< 0.12	-40	6.6	0.238	< 2	15.57	12.3
OW17	04/14/10	73.6	0.5	**4530**	--	< 0.12	-66	6.86	0.21	4	5.59	19.4
OW17	10/19/10	73.1	0.35	**5170**	8720	< 0.12	139	6.93	0.207	< 2	15.39	60.1
OW17	01/19/11	61.3	1.45	**6000**	--	< 0.25	-35	8.25	0.156	2.9	7.53	11.7
OW17	03/16/11	66.3	0	**4240**	--	< 0.25	-62	6.29	0.204	3.9	6.6	56.9
OW18	01/20/11	135	0.51	**5740**	--	0.32	-61	7.44	1.159	7.4	9.96	10.8
OW18	03/16/11	154	1.12	**6180**	--	< 0.25	-110	7.31	0.943	3.4	10.2	88.7
OW19	01/20/11	145	0.79	**22000**	--	< 0.25	-44	8.3	1.55	8.2	6.21	39.1
OW19	03/17/11	188	0.57	**27400**	--	< 0.25	-100	6.91	2.07	10.5	8.6	134
OW20	01/20/11	216	0.84	11.5	--	4.9	25	7.75	1.358	14.2	6.37	23.2
OW20	03/17/11	194	0.3	40	--	0.39	-15	7.09	1.71	8.4	10.2	8.8
OW21	01/20/11	279	2.25	17	--	1.3	-10	7.83	1.358	23.4	6.82	26.4
OW21	03/16/11	222	0.05	< 100	--	2.9	70	6.7	1.9	19.6	10.8	24
P05B	06/23/99	100	2.43	**2300**	1200	0.07	84	8.95	0.199	5.4	12.92	--
P05B	01/31/00	--	--	--	--	--	--	--	--	--	--	--
P05B	02/01/00	107	--	**1900**	1140	< 0.069	--	--	--	8.3	--	--
P05B	05/31/00	118	2.98	32	62	< 0.069	107	7.27	0.282	0.8	11.18	--
P05B	08/31/00	119	1.84	**2700**	1430	< 0.069	175	7.28	0.306	1.9	15.05	--
P05B	11/21/00	121	3.8	**1200**	1210	< 0.069	174	7	0.329	2.2	12.33	--
P05B	04/01/02	--	--	--	--	--	--	--	--	--	--	--
P05B	04/02/02	--	3.81	**1100**	780	< 0.014	168	7.65	0.345	12	8.23	--
P05B	07/22/02	--	--	--	--	--	--	--	--	--	--	--
P05B	10/28/02	--	0.28	**4100**	610	< 0.022	367	7.81	0.235	< 1.1	13.46	--
P05B	06/16/03	--	1.28	**2900**	290	< 0.047	104	--	0.187	13	9.18	--
P05B	11/20/03	--	--	**4700**	750	< 0.047	--	--	--	< 1.1	--	--
P05B	04/20/04	150	1.6	**2500**	380	< 0.063	-83	6.98	0.355	0.71	9.6	--
P05B	07/20/04	150	0.83	**3500**	460	< 0.063	180	6.91	0.37	1.3	12.68	--
P05B	10/12/04	140	2.58	**3300**	640	< 0.063	245	7.64	0.37	0.77	10.08	--
P05B	01/25/05	150	1.81	**6400**	800	< 0.063	132.4	7.92	0.37	0.69	8.97	--
P05B	04/11/05	150	0.75	**1500**	160	< 0.061	94	6.94	1.23	< 0.83	6.89	--
P05B	07/11/05	140	0.77	**3600**	250	< 0.061	79	7.53	0.37	< 0.83	11.52	--

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
P05B	10/03/05	140	0.3	**3500**	560	< 0.061	-389	6.55	0.35	< 0.83	13.9	--
P05B	01/05/06	140	0.4	**880**	270	0.08	83	7.1	0.35	1.8	8.93	--
P05B	04/11/06	140	0.22	**1700**	230	< 0.11	84	6.74	0.361	1.9	10.01	--
P05B	07/21/06	130	0.24	**3800**	530	< 0.11	-10	6.02	0.371	< 0.77	11.72	--
P05B	10/04/06	130	1.39	**5100**	750	< 0.11	-62	6.15	0.37	< 0.77	11.56	--
P05B	02/21/07	--	0.39	--	--	--	-221	6.57	0.334	--	10.17	--
P05B	04/19/07	140	0.33	110	--	< 0.096	137	6.47	1.387	1.9	9.31	--
P05B	07/19/07	--	0.9	--	--	--	-80	6.86	0.309	--	11.03	--
P05B	10/22/07	120	--	**3800**	570	< 0.096	-115	7.35	0.316	< 0.51	11.46	--
P05B	01/14/08	--	2.07	--	--	--	165	7.14	0.326	--	9.45	--
P05B	04/28/08	129	0.63	**5200**	--	< 0.096	-133	7.96	0.339	2	9.74	--
P05B	08/12/08	140	0.28	**5180**	--	< 0.096	-37	6.37	0.351	< 0.51	11.67	1.6
P05B	10/29/08	123	1.04	**5990**	2020	< 0.096	-75	6.85	0.28	< 0.51	10.99	1.8
P05B	04/13/09	134	0.35	**812**	--	< 0.096	-37	6	0.33	1.9	9.25	26.5
P05B	10/05/09	106	0.46	**6440**	1130	< 0.12	-60	6.8	0.361	< 2	11.65	0
P05B	04/14/10	130	1.6	**4020**	--	< 0.12	-32	7.21	0.368	< 2	10.62	8.9
P05B	10/20/10	107	--	**7140**	495	< 0.12	--	--	--	< 2	--	--
P05B	01/25/11	129	3.3	**4460**	--	< 0.25	-26	8.81	0.305	< 4	7.56	8.5
P05B	04/13/09	134	0.35	**812**	--	< 0.096	-37	6	0.33	1.9	9.25	26.5
PZ03B	06/23/99	--	3.48	**2340**	--	--	214	7.59	0.17	--	15.12	--
PZ03B	01/31/00	--	--	--	--	--	--	--	--	--	--	--
PZ03B	02/01/00	63	--	**6000**	--	< 0.069	--	--	--	< 0.26	--	--
PZ03B	05/31/00	70	3.08	**10000**	--	< 0.069	198	7.16	0.162	< 0.38	12.02	--
PZ03B	08/31/00	61	1.83	**4000**	2200	< 0.069	151	7.28	0.246	< 0.38	15.89	--
PZ03B	11/21/00	--	--	--	--	--	--	--	--	--	--	--
PZ03B	04/01/02	--	--	--	--	--	--	--	--	--	--	--
PZ03B	04/02/02	--	3.19	**7200**	1400	0.017	246	7.41	0.171	3.3	8.27	--
PZ03B	07/22/02	--	--	--	--	--	--	--	--	--	--	--
PZ03B	10/28/02	--	2.8	**9100**	1400	< 0.022	265	7.45	0.131	< 1.1	15.04	--
PZ03B	06/16/03	--	2.16	**8500**	410	< 0.047	90	--	0.089	< 1.1	9.86	--
PZ03B	11/20/03	--	--	**7700**	1400	0.048	--	--	--	< 1.1	--	--
PZ03B	04/20/04	--	--	--	--	--	--	--	--	--	--	--
PZ03B	07/20/04	--	--	--	--	--	--	--	--	--	--	--
PZ03B	10/12/04	--	--	--	--	--	--	--	--	--	--	--
PZ03B	01/25/05	--	--	--	--	--	--	--	--	--	--	--
PZ03B	04/11/05	78	2.6	**5800**	190	0.12	267	7.09	0.19	< 0.83	9.53	--
PZ03B	07/11/05	--	--	--	--	--	--	--	--	--	--	--
PZ03B	10/03/05	--	--	--	--	--	--	--	--	--	--	--
PZ03B	01/05/06	--	--	--	--	--	--	--	--	--	--	--
PZ03B	04/11/06	45	0.38	< 50	14	0.26	-50	6.41	0.181	9.9	8.98	--
PZ03B	07/21/06	--	--	--	--	--	--	--	--	--	--	--
PZ03B	10/04/06	--	--	--	--	--	--	--	--	--	--	--
PZ03B	02/21/07	--	0.52	--	--	--	-223	6.41	0.229	--	10.67	--
PZ03B	04/19/07	64	5.31	**4700**	--	0.17	154	6.44	0.167	2	11.45	--
PZ03B	07/19/07	--	0.88	--	--	--	-86	6.93	0.183	--	13.15	--
PZ03B	10/22/07	67	3.38	**9600**	1900	< 0.096	-108	6.99	0.205	< 0.51	12.21	--
PZ03B	01/14/08	--	--	--	--	--	-97	7.04	0.221	--	10.24	--
PZ03B	04/28/08	--	--	--	--	--	--	--	--	--	--	--
PZ03B	10/29/08	81.2	0.52	130	27.1	0.12	67	6.85	0.153	1.9	12.6	8.7

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
PZ03B	04/13/09	68.5	1.3	**8090**	--	< 0.096	-55	6.97	0.216	1.8	9.66	6.9
PZ03B	10/05/09	73.6	0.29	**7290**	179	< 0.12	-70	6.75	0.231	< 2	13.09	6.7
PZ03B	04/13/10	75.8	5.19	253	--	0.41	-36	6.91	0.203	2.1	9.42	86
PZ03B	10/19/10	67.1	0.59	**10400**	132	< 0.12	170	7.25	0.209	< 2	13.4	15.5
PZ03B	01/25/11	63.6	0.68	**11100**	--	< 0.25	-36	7.8	0.198	< 4	6.75	6.8
PZ03B	03/17/11	66.8	0.9	**12500**	--	< 0.25	-109	6.94	0.257	2	9.9	9.6
PZ07B	06/23/99	130	1.97	220	1600	0.17	113	8.85	0.177	11	11.69	--
PZ07B	01/31/00	--	--	--	--	--	--	--	--	--	--	--
PZ07B	02/01/00	113	--	160	1530	< 0.069	--	--	--	< 0.26	--	--
PZ07B	05/31/00	125	3.2	65	1520	< 0.069	189	7.19	0.207	< 0.38	10.6	--
PZ07B	08/31/00	116	5.28	64	1820	< 0.069	172	7.35	0.298	< 0.38	9.8	--
PZ07B	11/21/00	120	4.18	91	1250	< 0.069	173	6.91	0.23	2.6	12.89	--
PZ07B	04/01/02	--	--	--	--	--	--	--	--	--	--	--
PZ07B	04/02/02	--	3.92	**630**	960	< 0.014	189	7.66	0.241	3.3	7.23	--
PZ07B	07/22/02	--	--	--	--	--	--	--	--	--	--	--
PZ07B	10/28/02	--	4.64	**1500**	850	< 0.022	281	7.35	0.15	< 1.1	14.8	--
PZ07B	06/16/03	--	1.11	**1700**	710	< 0.047	112	--	0.132	< 1.1	8.56	--
PZ07B	11/20/03	--	--	**2000**	1000	< 0.047	--	--	--	< 1.1	--	--
PZ07B	04/20/04	99	1.29	**2000**	1000	< 0.063	-109	7.25	0.227	0.72	9.63	--
PZ07B	07/20/04	97	2.73	**2900**	1100	< 0.063	188	7.05	0.236	< 0.37	11.79	--
PZ07B	10/12/04	47	0.55	**3100**	1500	< 0.063	222	7.58	0.24	53	12.3	--
PZ07B	01/25/05	120	2	**2200**	980	< 0.063	86.7	8.05	0.229	< 0.36	9.7	--
PZ07B	04/11/05	110	0.37	**1600**	1500	< 0.061	337	6.92	0.25	< 0.83	10.96	--
PZ07B	07/11/05	100	0.81	**3000**	1200	< 0.061	54	7.61	0.25	< 0.83	12.59	--
PZ07B	10/03/05	96	0.54	**3000**	1900	< 0.061	-83	7.31	0.26	< 0.83	16.57	--
PZ07B	01/05/06	95	0.4	**3000**	1200	< 0.061	63	7.33	0.25	< 0.83	10.01	--
PZ07B	04/11/06	94	0.17	**2000**	830	< 0.11	99	6.53	0.251	< 0.77	9.19	--
PZ07B	07/21/06	120	0.53	**1500**	1200	< 0.11	0.261	6.54	0.261	< 0.77	11.72	--
PZ07B	10/04/06	120	2.18	**1800**	1500	< 0.11	1	6.66	0.26	< 0.77	11.78	--
PZ07B	02/21/07	--	0.46	--	--	--	-224	6.94	0.228	--	9.72	--
PZ07B	04/19/07	110	0.34	**1800**	--	< 0.096	126	6.5	0.226	< 0.51	10.16	--
PZ07B	07/19/07	--	0.95	--	--	--	-68	6.87	0.205	--	11.85	--
PZ07B	10/22/07	150	2.3	**1300**	940	< 0.096	-89	6.93	0.249	< 0.51	11.94	--
PZ07B	01/14/08	--	0.64	--	--	--	26	7.06	0.222	--	10.54	--
PZ07B	04/28/08	93	1.63	**1900**	--	< 0.096	-66	7.88	0.222	< 0.51	7.67	--
PZ07B	08/12/08	108	0.29	**1700**	--	< 0.096	-78	6.95	0.275	< 0.51	11.92	7.5
PZ07B	10/29/08	121	2.26	**3040**	2780	< 0.096	-78	6.63	0.32	< 0.51	11.73	2.6
PZ07B	04/13/09	100	0.61	**2020**	--	< 0.096	-74	6.99	0.236	< 0.51	9.75	0
PZ07B	10/05/09	128	0.75	**2040**	1930	< 0.12	-50	6.76	0.268	< 2	11.82	0
PZ07B	04/13/10	96.8	0.82	**1330**	--	< 0.12	-5	6.95	0.254	2.6	9.22	11.7
PZ07B	10/19/10	129	--	**1860**	1150	< 0.12	--	--	--	< 2	--	--
PZ07B	01/19/11	129	1.27	**1930**	--	< 0.25	-43	8.54	0.23	< 4	7.32	0.3
PZ07B	03/17/11	96.3	1.29	**1210**	--	< 0.25	-49	6.81	0.261	< 4	9.6	8.2
PZ09B	06/23/99	110	3.55	< 24	--	< 0.017	181	7.78	0.424	10	12.07	--
PZ09B	01/31/00	--	--	--	--	--	--	--	--	--	--	--
PZ09B	02/01/00	108	--	120	--	< 0.069	--	--	--	10	--	--
PZ09B	05/31/00	107	5.48	41	--	< 0.069	179	7.45	0.533	9.4	11.41	--
PZ09B	08/31/00	106	2.38	**1000**	86	< 0.069	206	6.62	0.717	7.6	12.8	--
PZ09B	11/21/00	111	11.2	120	--	< 0.069	402	7.5	0.559	4.9	12.89	--

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
PZ09B	04/01/02	--	--	--	--	--	--	--	--	--	--	--
PZ09B	04/02/02	--	4.65	130	40	< 0.014	225	7.54	0.577	12	9.92	--
PZ09B	07/22/02	--	--	--	--	--	--	--	--	--	--	--
PZ09B	10/28/02	--	3.26	< 61000	< 10	< 0.022	267	7	0.381	19	13.59	--
PZ09B	06/16/03	--	0.81	100	13	< 0.047	131	--	0.328	18	10.18	--
PZ09B	11/20/03	--	--	200	120	< 0.047	--	--	--	--	--	--
PZ09B	04/20/04	--	--	--	--	--	--	--	--	--	--	--
PZ09B	07/20/04	110	2.73	**800**	< 10	< 0.063	356	6.91	0.532	9.1	13.46	--
PZ09B	10/12/04	--	--	--	--	--	--	--	--	--	--	--
PZ09B	01/25/05	--	--	--	--	--	--	--	--	--	--	--
PZ09B	04/12/05	120	7.77	**3300**	< 10	0.12	451	7.2	0.55	11	9.45	--
PZ09B	07/11/05	--	--	--	--	--	--	--	--	--	--	--
PZ09B	10/03/05	110	4.08	**3400**	< 10	0.066	33	7.28	0.57	11	15.15	--
PZ09B	01/05/06	--	--	--	--	--	--	--	--	--	--	--
PZ09B	04/11/06	110	4.64	**3200**	18	< 0.11	5	7.18	0.577	11	10.76	--
PZ09B	07/21/06	--	--	--	--	--	--	--	--	--	--	--
PZ09B	10/04/06	120	3.72	**4000**	77	< 0.11	-40	6.96	0.55	9.5	12.01	--
PZ09B	02/21/07	--	0.73	--	--	--	-225	6.59	0.462	--	10.88	--
PZ09B	04/19/07	130	1.45	**2700**	--	< 0.096	120	6.11	0.443	8.2	11.73	--
PZ09B	07/19/07	--	4.32	--	--	--	-27	7.29	0.423	--	11.91	--
PZ09B	10/22/07	110	4.1	**870**	< 10	< 0.096	-1	6.9	0.426	9	12.05	--
PZ09B	01/14/08	--	0.26	--	--	--	-2	6.95	0.447	--	10.57	--
PZ09B	04/28/08	121	6.74	**2090**	--	< 0.096	47	7.04	0.527	9	8.8	--
PZ09B	10/29/08	136	2.43	**1980**	35.7	< 0.096	-30	6.89	0.33	8.3	11.78	6.6
PZ09B	04/13/09	123	6.78	**1200**	--	< 0.096	22	7.47	0.441	7.6	9.98	0
PZ09B	10/05/09	109	3.57	**1310**	24.3	< 0.12	41	7.25	0.453	7	11.76	25.5
PZ09B	04/13/10	129	10.78	**931**	--	< 0.12	-45	7.3	0	6.9	11.41	271
PZ09B	10/19/10	138	0.52	**1100**	170	< 0.12	112	7.55	0.411	5.2	13.49	6.1
PZ09B	01/20/11	137	0.88	**989**	--	0.17	-30	7.29	0.342	6	9.22	3.3
PZ09B	03/17/11	136	8.73	**826**	--	< 0.25	-60	7.21	0.447	5.8	10.9	7.8
PZ10B	06/23/99	180	1.76	82	--	0.34	215	7.25	0.405	54	11.9	--
PZ10B	01/31/00	--	--	--	--	--	--	--	--	--	--	--
PZ10B	02/01/00	--	--	< 8.9	--	--	--	--	--	--	--	--
PZ10B	05/31/00	84	5.04	200	--	< 0.069	246	7.59	0.357	20	10.86	--
PZ10B	08/31/00	118	8.47	66	--	< 0.069	172	7.83	0.375	18	11.55	--
PZ10B	11/21/00	123	7.26	< 15	--	0.097	155	7.21	0.368	15	12.36	--
PZ10B	04/01/02	--	--	--	--	--	--	--	--	--	--	--
PZ10B	04/02/02	--	3.62	47	--	0.096	224	8.54	0.391	28	11.13	--
PZ10B	07/22/02	--	--	--	--	--	--	--	--	--	--	--
PZ10B	10/28/02	--	7.72	< 61	--	0.12	--	7.4	0.302	18	14.04	--
PZ10B	06/16/03	--	2.89	290	--	0.12	89	--	0.213	16	11.69	--
PZ10B	11/20/03	--	--	110	--	0.16	--	--	--	16	--	--
PZ10B	04/20/04	--	--	--	--	--	--	--	--	--	--	--
PZ10B	07/20/04	--	--	--	--	--	--	--	--	--	--	--
PZ10B	10/12/04	--	--	--	--	--	--	--	--	--	--	--
PZ10B	01/25/05	--	--	--	--	--	--	--	--	--	--	--
PZ10B	04/12/05	150	8.27	< 17	< 10	0.11	4.61	7.17	0.42	15	9.17	--
PZ10B	07/11/05	--	--	--	--	--	--	--	--	--	--	--
PZ10B	10/03/05	--	--	--	--	--	--	--	--	--	--	--

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Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
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		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
PZ10B	01/05/06	--	--	--	--	--	--	--	--	--	--	--
PZ10B	04/11/06	120	0.49	< 50	< 10	0.17	-18	7.62	0.442	16	10.32	--
PZ10B	07/21/06	--	--	--	--	--	--	--	--	--	--	--
PZ10B	10/04/06	130	7.03	< 50	< 10	0.16	-19	6.67	0.44	16	13.95	--
PZ10B	02/21/07	--	6.2	--	--	--	-244	7.11	0.4	--	10.84	--
PZ10B	04/19/07	140	6.57	< 50	--	0.15	118	6.92	0.387	16	11.69	--
PZ10B	07/19/07	--	5.22	--	--	--	-19	7.54	0.346	--	12.6	--
PZ10B	10/23/07	140	5.16	< 25	< 10	0.17	-47	7.32	0.357	16	11.8	--
PZ10B	01/14/08	--	--	--	--	--	-40	7.36	0.393	--	8.96	--
PZ10B	04/28/08	135	6.62	< 6.9	--	< 0.096	-48	8.68	0.379	15.2	8.5	--
PZ10B	10/29/08	139	6.99	< 6.9	< 2	< 0.096	-148	9.58	0.369	14.4	12.01	6.1
PZ10B	04/13/09	136	6.99	16.4	--	< 0.096	7	7.65	0.392	13.8	8.9	11
PZ10B	10/05/09	126	5.86	3.7	< 0.93	0.14	15	7.3	0.38	14.1	12.1	0
PZ10B	04/13/10	139	7.73	< 8.3	--	< 0.12	-25	7.75	0.399	13.8	10.94	100.1
PZ10B	10/19/10	139	4.4	< 8.3	< 0.93	< 0.12	132	8	0.382	12.2	13	4.2
PZ10B	01/18/11	140	6.57	< 100	--	< 0.25	-20	8.2	0.324	12.4	8.43	0
PZ10B	03/16/11	146	6.8	< 100	--	< 0.25	-57	7.79	0.451	12.2	10.5	46.5
PZ11B	06/22/99	--	--	--	--	--	--	--	--	--	--	--
PZ11B	01/31/00	--	--	--	--	--	--	--	--	--	--	--
PZ11B	02/01/00	116	--	220	243	0.094	--	--	--	0.81	--	--
PZ11B	05/31/00	145	4.46	**300**	141	< 0.069	205	7.38	0.286	< 0.38	10.84	--
PZ11B	08/31/00	< 5.8	3.64	**3000**	4250	< 0.069	165	7.56	0.318	**5920**	17.2	--
PZ11B	11/21/00	155	5.44	**2600**	1980	< 0.069	128	7.1	0.3	3.4	14.71	--
PZ11B	04/01/02	--	--	--	--	--	--	--	--	--	--	--
PZ11B	04/02/02	--	3.34	**1500**	5500	0.044	195	7.55	0.339	5.1	9.2	--
PZ11B	07/22/02	--	--	--	--	--	--	--	--	--	--	--
PZ11B	10/28/02	--	3.19	270	970	0.041	251	7.07	0.214	5.8	15.74	--
PZ11B	06/16/03	--	1.59	**1300**	490	< 0.047	72	--	0.156	3.8	10.85	--
PZ11B	11/20/03	--	--	**4000**	590	< 0.047	--	--	--	5.4	--	--
PZ11B	04/20/04	--	--	--	--	--	--	--	--	--	--	--
PZ11B	07/20/04	150	3.22	< 17	< 10	0.091	48	7.76	0.332	7.8	17.25	--
PZ11B	10/12/04	--	--	--	--	--	--	--	--	--	--	--
PZ11B	01/25/05	--	--	--	--	--	--	--	--	--	--	--
PZ11B	04/11/05	160	6.41	< 17	< 10	0.11	352	6.86	0.33	7.9	7.28	--
PZ11B	07/11/05	--	--	--	--	--	--	--	--	--	--	--
PZ11B	10/03/05	140	3.87	54	< 10	0.17	278	7.15	0.34	8.3	16.51	--
PZ11B	01/05/06	--	--	--	--	--	--	--	--	--	--	--
PZ11B	04/11/06	--	0.82	< 50	< 10	0.17	4	7.47	0.353	--	8.98	--
PZ11B	07/21/06	--	--	--	--	--	--	--	--	--	--	--
PZ11B	10/04/06	140	4.89	< 50	< 10	0.14	-32	7.03	0.34	9.5	12.26	--
PZ11B	02/21/07	--	5.72	--	--	--	-226	6.86	0.316	--	9.45	--
PZ11B	04/19/07	160	3.98	< 50	--	< 0.096	112	6.54	0.313	9.5	9.93	--
PZ11B	07/19/07	--	0.94	--	--	--	-50	7.41	0.282	--	12.87	--
PZ11B	10/22/07	140	1.38	54	< 10	< 0.096	-46	7.2	0.29	8.4	14.81	--
PZ11B	01/14/08	--	--	--	--	--	-74	7.36	0.32	--	9.91	--
PZ11B	04/28/08	--	--	--	--	--	--	--	--	--	--	--
PZ11B	10/29/08	151	2	12.6	< 2	< 0.096	45	7.37	0.254	7.7	14.33	38
PZ11B	04/13/09	149	4.9	8.5	--	< 0.096	43	7.48	0.322	8.9	7.05	14.5
PZ11B	10/05/09	132	5.52	22.7	< 0.93	< 0.12	-1	7.21	0.327	6.6	15.25	8.4

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)
Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
PZ11B	04/13/10	154	5.06	63.1	--	< 0.12	-67	8.14	0.324	6.8	9.41	40.2
PZ11B	10/19/10	156	2.5	< 8.3	< 0.93	< 0.12	142	7.6	0.312	5.9	14.13	13.6
PZ11B	01/25/11	156	0.73	**1400**	--	< 0.25	-79	9.21	0.27	6.5	4.45	18.5
PZ11B	03/17/11	152	5.75	< 100	--	< 0.25	-66	7.3	0.346	6.4	9.9	4.2
PZ12B	07/20/04	--	--	--	--	--	--	--	--	--	--	--
PZ12B	10/12/04	110	0.36	**330**	330	< 0.063	139	8	0.31	6.2	13.62	--
PZ12B	01/25/05	140	--	**510**	930	< 0.063	125.6	7.78	0.358	< 0.36	10.96	--
PZ12B	04/11/05	--	--	--	--	--	--	--	--	--	--	--
PZ12B	04/12/05	150	1.09	**490**	120	< 0.061	400	7.08	0.36	1.8	10.56	--
PZ12B	07/11/05	--	--	--	--	--	--	--	--	--	--	--
PZ12B	10/03/05	27	0.26	9	< 10	0.24	-403	6.46	0.07	1.6	15.7	--
PZ12B	01/05/06	14	4.83	41	< 10	0.42	140	7.5	0.09	3.5	10.89	--
PZ12B	04/11/06	140	0.49	**16000**	590	< 0.11	-147	6.46	3.01	10	8.85	--
PZ12B	07/21/06	130	0.22	**1200**	820	< 0.11	6	6.58	0.314	1.6	12.44	--
PZ12B	10/04/06	130	0.67	**1400**	1000	< 0.11	-37	6.67	0.32	1.5	12.98	--
PZ12B	02/21/07	--	2.9	--	--	--	-158	6.6	0.271	--	11.11	--
PZ12B	04/19/07	150	0.75	**730**	--	< 0.096	151	6.61	0.301	1.5	12.1	--
PZ12B	07/19/07	--	1.26	--	--	--	-123	7.35	0.277	--	13.39	--
PZ12B	10/22/07	150	3.03	**800**	4500	< 0.096	-100	7.02	0.287	< 0.51	12.67	--
PZ12B	01/15/08	--	--	--	--	--	-105	7.04	0.841	--	11.41	--
PZ12B	04/28/08	149	0.66	**659**	--	< 0.096	-62	7	0.375	2	9.75	--
PZ12B	08/12/08	145	--	**788**	--	< 0.096	-81	7.21	0.321	3.1	12.86	7.3
PZ12B	10/30/08	163	1.46	**969**	1320	< 0.096	-228	9.32	0.31	< 0.51	12.77	5.4
PZ12B	04/13/09	153	1.23	**386**	--	< 0.096	-69	7.35	0.437	2.3	10.14	0
PZ12B	10/05/09	132	0.41	**1370**	1460	< 0.12	-93	7.42	0.371	< 2	13.38	6.5
PZ12B	04/14/10	162	4.03	**608**	--	< 0.12	-93	7.75	0.367	2.1	10.75	0.2
PZ12B	10/20/10	150	0.3	**791**	1470	< 0.12	73	7.72	0.329	< 2	12.7	131
PZ12B	01/19/11	160	0.73	**746**	--	< 0.25	-56	7.96	0.411	2.5	8.15	1.1
PZ12B	03/17/11	157	0.02	**750**	--	< 0.25	-68	7.08	0.454	2.1	11	9
PZ13B	10/12/04	--	--	--	--	--	--	--	--	--	--	--
PZ13B	01/25/05	--	--	--	--	--	--	--	--	--	--	--
PZ13B	04/11/05	--	--	--	--	--	--	--	--	--	--	--
PZ13B	07/11/05	--	--	--	--	--	--	--	--	--	--	--
PZ13B	10/03/05	180	0.88	210	36	< 0.061	-96	7.47	0.54	13	18.18	--
PZ13B	01/05/06	--	--	--	--	--	--	--	--	--	--	--
PZ13B	04/11/06	170	1.21	< 50	< 10	< 0.11	157	6.91	0.569	17	8.21	--
PZ13B	07/21/06	--	--	--	--	--	--	--	--	--	--	--
PZ13B	10/04/06	190	0.6	**430**	40	< 0.11	-8	7.14	0.58	27	14.49	--
PZ13B	02/22/07	--	2.7	--	--	--	-189	6.77	0.544	--	9.73	--
PZ13B	04/20/07	200	3	< 50	--	< 0.096	238	7.05	0.565	39	11.82	--
PZ13B	07/19/07	--	0.9	--	--	--	-15	7.41	0.526	--	13.95	--
PZ13B	10/22/07	220	3.57	< 25	< 10	0.12	-21	7.04	0.536	46	16.75	--
PZ13B	01/14/08	--	--	--	--	--	1	7.46	0.586	--	11.25	--
PZ13B	04/28/08	199	5.97	< 6.9	--	< 0.096	15	8.38	0.592	46.6	9.17	--
PZ13B	10/29/08	206	2.13	< 6.9	< 2	0.1	64	7.16	0.5	54.1	15.91	5.8
PZ13B	04/13/09	198	5.96	14.1	--	< 0.096	57	7.49	0.678	54.9	9.18	21.3
PZ13B	10/05/09	176	5.84	14	< 0.93	< 0.12	-3	7.23	0.663	61.4	17.12	0
PZ13B	04/14/10	210	7	< 8.3	--	< 0.12	38	7.57	0.701	61	10.62	7.6
PZ13B	10/19/10	205	0.45	< 8.3	6	< 0.12	190	7.62	0.707	63.4	14.65	6.3

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
PZ13B	01/19/11	199	1.69	< 100	--	< 0.25	13	8.18	0.571	55.2	7.33	1.9
PZ13B	03/16/11	193	5.67	9.4	--	< 0.25	80	7.18	0.737	47.5	11.2	7.5
PZ14B	07/25/07	--	--	--	--	--	--	--	--	--	--	--
PZ14B	10/22/07	130	--	**330**	< 10	5.8	--	--	--	20	--	--
PZ14B	04/28/08	159	5.87	**353**	--	< 0.096	14	6.92	0.625	16.4	9.88	--
PZ14B	08/12/08	136	4.26	34.6	--	0.24	10	6.53	0.368	16.4	21.25	53.5
PZ14B	10/30/08	141	3.55	39.3	< 2	0.23	110	6.72	0.32	16	11.12	15.7
PZ14B	04/13/09	148	2.77	99.4	--	< 0.096	2	7	0.547	15.4	11.56	118
PZ14B	10/05/09	128	5.27	**310**	9.1	< 0.12	2	6.76	0.474	15.4	13.19	42.6
PZ14B	04/13/10	141	2.48	< 8.3	--	< 0.12	81	6.92	0.192	16.6	16.13	138
PZ14B	10/19/10	139	3.83	< 8.3	< 0.93	< 0.12	209	7.28	0.432	15.1	13.89	18.7
PZ14B	01/18/11	116	2.46	80	--	< 0.25	159	6.75	0.574	17.3	7.03	16
PZ14B	03/16/11	134	2.28	< 100	--	< 0.25	70	7.28	0.91	17.6	9.9	109
PZ15B	07/24/07	--	1.13	--	--	--	-117	6.81	0.218	--	13.02	--
PZ15B	10/22/07	63	5.95	**15000**	2400	< 0.096	-99	6.78	0.235	< 0.51	12.58	--
PZ15B	01/15/08	--	--	--	--	--	-135	7.22	0.228	--	11.95	--
PZ15B	04/29/08	51.5	0.94	**11000**	--	< 0.096	-31	7.74	0.189	< 0.51	10.38	--
PZ15B	08/12/08	68.8	--	**20500**	--	< 0.096	-104	6.79	0.29	2.1	11.99	9.8
PZ15B	10/30/08	68.4	0.52	**20600**	4310	< 0.096	-122	7.05	0.232	< 0.51	12.22	2.7
PZ15B	04/13/09	25.4	0.29	**3860**	--	< 0.096	3	6.79	0.191	2	10.26	99.1
PZ15B	10/05/09	44.1	0.32	**20500**	1390	< 0.12	-108	6.86	0.258	< 2	14.55	1.1
PZ15B	04/13/10	39.1	0.67	236	--	0.27	40	7.59	0.191	2	11.81	150
PZ15B	10/19/10	52.7	0.4	**18600**	1180	< 0.12	48	7.6	0.256	< 2	12.93	13.6
PZ15B	01/19/11	48.6	0.6	**16800**	--	< 0.25	-51	7.41	0.206	2.6	9.18	1.4
PZ15B	03/17/11	57.6	1.48	**3500**	--	< 0.25	55	7.07	0.282	2.2	11.5	89.7
PZ16B	07/24/07	--	1	--	--	--	-122	6.94	0.194	--	12.29	--
PZ16B	10/22/07	81	1.9	**1200**	1900	< 0.096	-42	6.96	0.195	< 0.51	11.23	--
PZ16B	01/14/08	--	--	--	--	--	-81	7.32	0.22	--	9.03	--
PZ16B	04/29/08	101	0.47	**2440**	--	< 0.096	-180	8.66	0.205	2.2	9.6	--
PZ16B	10/29/08	102	1.6	**747**	3070	< 0.096	-159	8.56	0.233	< 0.51	10.9	5
PZ16B	04/13/09	76.2	0.39	81.1	--	0.16	75	6.58	0.207	4.2	8.88	6.9
PZ16B	10/05/09	72.2	1.06	**3160**	2590	< 0.12	-21	6.83	0.249	< 2	11.36	0
PZ16B	04/14/10	93.6	0.43	240	--	< 0.12	-35	7.46	0.256	2	10.34	11.1
PZ16B	10/20/10	91	0.46	**5340**	1880	< 0.12	94	7.52	0.258	< 2	12.01	6.8
PZ16B	01/19/11	71	0.97	**4860**	--	< 0.25	-26	8.61	0.211	< 4	4.5	1.1
PZ16B	03/16/11	96.2	1	**2600**	--	< 0.25	-15	6.87	0.259	2	11	10.7
TW01	10/30/08	203	1.28	< 6.9	2.2	0.45	-66	9.1	1.88	19	15.19	56.9
TW01	04/14/09	208	2.16	14.3	--	2.4	79	7.76	2.13	38	8.9	90
TW01	10/05/09	168	3.28	11.5	< 0.93	6.1	23	7.02	2.51	31.7	15.06	12.2
TW01	04/14/10	217	1.07	< 8.3	--	1	78	7.23	1.75	16.8	9.85	23.5
TW01	10/20/10	207	0.67	< 8.3	2.8	2.6	277	6.91	2.1	23.1	14.98	147
TW01	01/20/11	226	0.66	< 100	--	0.92	57	7.65	1.65	18.4	8.8	20.1
TW01	03/17/11	229	0.2	< 100	--	< 0.25	57	7.02	1.89	18.2	9.9	55

Table 10. Groundwater Results - Laboratory and Field MNA Parameters (After 1998)

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

		Laboratory and Field Monitored Natural Attenuation (MNA) Parameters										
Sample ID	**Sample Date**	**Alkalinity, Total (mg/l)**	**Dissolved Oxygen (mg/l)**	**Iron, Dissolved [2] (µg/l)**	**Methane (µg/l)**	**Nitrogen, NO3 + NO2, Total (mg/l)**	**Oxidation Reduction Potential (mV)**	**PH, Field (Standard Units)**	**Specific Conductance, Field (mmhos/cm)**	**Sulfate, Total (mg/l)**	**Temperature, Water (Degrees Centigrade)**	**Turbidity, Quantitative (NTU)**
Quality Standard[1]		NS	NS	300	NS	10	NS	NS	NS	250	NS	NS
TW02	10/30/08	215	1.39	40.9	< 2	0.2	-50	8.64	1.83	19	14.35	43.1
TW02	04/14/09	237	0.45	48	--	0.12	73	7.28	1.76	17.7	6.95	10.5
TW02	10/05/09	173	0.23	179	25.8	0.28	26	6.68	2.33	22.6	15.63	13.8
TW02	04/13/10	198	0.2	8.6	--	< 0.12	10	7.19	1.459	17.6	8.83	17.1
TW02	10/19/10	145	0.23	17.8	16.4	1.1	211	7.03	0.397	15.1	15.16	19.2
TW02	01/19/11	95.3	1.21	23.4	--	0.12	16	7.8	0.79	15.6	4	6.4
TW02	03/16/11	201	0.03	17.4	--	< 0.25	8	6.7	1.4	20	9.6	132

NOTES:
1) Parameters that attain or exceed the EPA Groundwater Quality Standards (MCL) are shown in bold.
2) If no MCL standard has been established, then the parameters that attain or exceed the NR 140 Wisconsin Groundwater Quality Enforcement Standard (ES) are identified in bold.
3) Reference the laboratory analytical report for a full list of compounds analyzed.

< 2.0: Parameter not detected above the limit of detection indicated.
NS: No standard established for this compound.
--: Analysis not performed.

Table 11. Groundwater Concentration Trends and Relationships

Wisconsin Public Service - Former Stevens Point Manufactured Gas Plant Site
1111 Crosby Avenue, Stevens Point, Wisconsin
USEPA WIN000509983 / BRRTS # 02-50-000079 / FID # 750081200

Location	Benzene Relationships	R^2	Trend/Relationship	Naphthalene Relationships	R^2	Trend/Relationship
OW-3	Time	0.2%	None	Time	13.3%	Decreasing/Slight
	GW Elevation	0.2%	None	GW Elevation	0.4%	None
OW-5	Time	6.5%	None	Time	26.4%	Decreasing/Moderate
	GW Elevation	37.2%	Inverse/Modrate	GW Elevation	27.1%	Inverse/Modrate
P-5B	Time	29.8%	Decreasing/Moderate	Time	4.4%	None
	GW Elevation	2.4%	None	GW Elevation	4.8%	None
OW-6	Time	16.9%	None	Time	4.9%	None
	GW Elevation	14.4%	None	GW Elevation	6.9%	None
OW-7	Time	<0.1%	None	Time	<0.1%	None
	GW Elevation	6.7%	None	GW Elevation	<0.1%	None
PZ-7B	Time	2.6%	None	Time	5.4%	None
	GW Elevation	1.0%	None	GW Elevation	8.6%	None
OW-9	Time	13.6%	None	Time	10.6%	Increasing/Slight
	GW Elevation	14.6%	None	GW Elevation	2.7%	None
OW-10	Time	31.3%	Increasing/Moderate	Time	32.7%	Increasing/Moderate
	GW Elevation	7.9%	None	GW Elevation	29.2%	Inverse/Moderate
PZ-11B	Time	50.9%	Decreasing/Strong	Time	40.2%	Decreasing/Strong
	GW Elevation	0.2%	None	GW Elevation	0.2%	None
OW-12	Time	0.3%	None	Time	<0.1%	None
	GW Elevation	<0.1%	None	GW Elevation	2.3%	None
PZ-12	Time	7.2%	None	Time	19.6%	Decreasing/Moderate
	GW Elevation	2.6%	None	GW Elevation	0.1%	None
OW-14	Time	72.2%	Decreasing/Strong	Time	34.3%	Decreasing/Moderate
	GW Elevation	0.4%	None	GW Elevation	22.4%	None

Notes:

1) "Decreasing" or "Increasing" trends indicate that concentrations show this particular trend at this location for the representative parameter. "Variable" indicates that concentrations fluctuate too much for a definite trend to have been observed.

2) "Direct" or "Inverse" indicate the relationship between concentrations and groundwater elevations at this location for the representative parameter. "Inconclusive" indicates that no definite relationship has been established based on the plotted data.

Table 12. Comparison of Benzene and Naphthalene Concentrations with MNA Indicator Parameters
Former Stevens Point MGP Site

Well	Benzene Concentration Range (µg/l)	Average Dissolved Oxygen (mg/l) (# of samples)	Average Oxidation Reduction Potential (millivolts) (# of samples)	Average Specific Conductance (mhos/cm) (# of samples)	Average Nitrogen, NO3 + NO2, Total (mg/l) (# of samples)	Average Dissolved Iron (µg/l) (# of samples)	Average Sulfate (mg/l) (# of samples)
OW01	< 0.5	0.71 (5)	58.80 (5)	0.84 (5)	0.32 (5)	12,604 (5)	75.0 (5)
	< 5	0.93 (8)	-58.25 (8)	0.95 (8)	1.34 (5)	12,616 (5)	195.8 (5)
	> 5	0.92 (2)	-56.50 (2)	0.89 (2)	0.08 (2)	15,600 (2)	180.5 (2)
OW02	< 0.5	0.84 (17)	12.06 (17)	0.41 (17)	0.05 (13)	11,127 (13)	4.8 (13)
	< 5	---	---	---	---	---	---
	> 5	---	---	---	---	---	---
OW03R	< 0.5	0.87 (10)	53.20 (10)	1.93 (10)	0.10 (10)	24,370 (10)	257.6 (10)
	< 5	1.49 (10)	37.10 (10)	1.66 (10)	0.32 (9)	33,122 (9)	232.9 (9)
	> 5	0.23 (1)	-81.00 (1)	0.58 (1)	0.06 (1)	53,000 (1)	5.7 (1)
OW04	< 0.5	1.18 (12)	23.50 (12)	0.59 (12)	0.05 (9)	12,433 (9)	2.7 (9)
	< 5	1.12 (5)	-44.80 (5)	0.55 (5)	0.06 (5)	23,740 (5)	2.9 (5)
	> 5	---	---	---	---	---	---
OW05R	< 0.5	---	---	---	---	---	---
	< 5	1.26 (12)	22.75 (12)	1.02 (12)	0.31 (11)	13,520 (11)	288.5 (11)
	> 5	1.36 (18)	55.18 (18)	1.53 (18)	0.08 (19)	37,932 (19)	638.5 (19)
OW06	< 0.5	---	---	---	---	---	---
	< 5	0.50 (15)	-76.33 (15)	0.63 (15)	0.05 (12)	8,009 (12)	6.3 (12)
	> 5	1.24 (4)	-18.50 (4)	0.44 (4)	0.05 (4)	8,068 (4)	5.3 (4)
OW07A	< 0.5	---	---	---	---	---	---
	< 5	---	---	---	---	---	---
	> 5	1.54 (31)	17.81 (31)	0.75 (31)	0.04 (30)	13,813 (30)	2.6 (30)
OW08	< 0.5	1.01 (7)	-22.57 (7)	0.51 (7)	0.04 (5)	28,600 (5)	0.4 (5)
	< 5	1.44 (2)	12.00 (2)	0.64 (2)	0.03 (1)	15,000 (1)	0.1 (1)
	> 5	---	---	---	---	---	---
OW09	< 0.5	---	---	---	---	---	---
	< 5	---	---	---	---	---	---
	> 5	1.17 (25)	3.24 (25)	0.68 (25)	0.06 (24)	16,213 (24)	62.9 (24)
OW10	< 0.5	2.75 (5)	190.20 (5)	4.93 (5)	0.08 (6)	8,080 (6)	54.9 (6)
	< 5	0.69 (7)	25.86 (7)	8.44 (7)	0.15 (8)	8,621 (8)	101.2 (8)
	> 5	0.98 (11)	-96.91 (11)	5.04 (11)	0.05 (8)	13,704 (8)	17.7 (8)
OW11	< 0.5	1.10 (19)	-15.70 (19)	0.89 (19)	0.07 (17)	19,924 (17)	4.0 (17)
	< 5	1.77 (2)	173.00 (2)	0.51 (2)	0.03 (3)	17,967 (3)	5.4 (3)
	> 5	---	---	---	---	---	---
OW12	< 0.5	4.04 (1)	114.00 (1)	1.64 (1)	0.20 (1)	25 (1)	7.0 (1)
	< 5	0.64 (14)	-17.79 (14)	1.74 (14)	0.07 (13)	15,976 (13)	8.4 (13)
	> 5	1.54 (8)	8.34 (8)	18.98 (8)	0.05 (6)	18,417 (6)	2.5 (6)
OW14	< 0.5	---	---	---	---	---	---
	< 5	---	---	---	---	---	---
	> 5	1.20 (10)	-24.50 (10)	1.71 (10)	1.24 (10)	3,966 (10)	19.8 (10)
OW15	< 0.5	1.54 (12)	-31.75 (12)	1.67 (12)	0.79 (10)	10,236 (10)	10.2 (10)
	< 5	---	---	---	---	---	---
	> 5	---	---	---	---	---	---
OW16	< 0.5	0.97 (11)	-31.91 (11)	0.21 (11)	0.05 (9)	9,736 (9)	14.7 (9)
	< 5	---	---	---	---	---	---
	> 5	---	---	---	---	---	---
OW17	< 0.5	0.84 (11)	-66.18 (11)	0.21 (11)	0.05 (9)	5,078 (9)	3.8 (9)
	< 5	---	---	---	---	---	---
	> 5	---	---	---	---	---	---

Table 12. Comparison of Benzene and Naphthalene Concentrations with MNA Indicator Parameters
Former Stevens Point MGP Site

Well	Benzene Concentration Range (µg/l)	Average Dissolved Oxygen (mg/l) (# of samples)	Average Oxidation Reduction Potential (millivolts) (# of samples)	Average Specific Conductance (mhos/cm) (# of samples)	Average Nitrogen, NO3 + NO2, Total (mg/l) (# of samples)	Average Dissolved Iron (µg/l) (# of samples)	Average Sulfate (mg/l) (# of samples)
P05B	< 0.5	1.51 (5)	43.00 (5)	0.55 (5)	0.05 (4)	1,393 (4)	1.7 (4)
	< 5	1.22 (5)	32.40 (5)	0.33 (5)	0.05 (4)	1,283 (4)	1.7 (4)
	> 5	1.27 (20)	26.67 (20)	0.38 (20)	0.04 (22)	3,889 (22)	2.2 (22)
PZ03B	< 0.5	1.94 (17)	18.94 (17)	0.19 (17)	0.11 (14)	6,542 (14)	2.0 (14)
	< 5	---	---	---	---	---	---
	> 5	---	---	---	---	---	---
PZ07B	< 0.5	2.73 (2)	138.00 (2)	0.20 (2)	0.04 (2)	1,415 (2)	1.6 (2)
	< 5	1.42 (23)	36.17 (23)	0.24 (23)	0.04 (23)	1,756 (23)	2.9 (23)
	> 5	1.90 (5)	39.00 (5)	0.26 (5)	0.04 (5)	1,846 (5)	0.8 (5)
PZ09B	< 0.5	4.54 (18)	87.72 (18)	0.46 (18)	0.05 (16)	3,477 (16)	10.1 (16)
	< 5	3.38 (6)	93.00 (6)	0.46 (6)	0.06 (7)	753 (7)	7.3 (7)
	> 5	---	---	---	---	---	---
PZ10B	< 0.5	6.00 (22)	22.74 (22)	0.38 (22)	0.10 (20)	45 (20)	15.9 (20)
	< 5	---	---	---	---	---	---
	> 5	---	---	---	---	---	---
PZ11B	< 0.5	3.84 (15)	27.60 (15)	0.32 (15)	0.09 (12)	26 (12)	7.8 (12)
	< 5	3.22 (1)	48.00 (1)	0.33 (1)	0.09 (1)	9 (1)	7.8 (1)
	> 5	3.20 (7)	133.86 (7)	0.27 (7)	0.04 (9)	1,621 (9)	4.1 (9)
PZ12B	< 0.5	2.55 (2)	-131.50 (2)	0.08 (2)	0.33 (2)	25 (2)	2.6 (2)
	< 5	1.70 (2)	-152.50 (2)	1.64 (2)	0.06 (1)	16,000 (1)	10.0 (1)
	> 5	1.08 (18)	-12.24 (18)	0.37 (18)	0.05 (16)	783 (16)	1.8 (16)
PZ13B	< 0.5	3.17 (16)	32.56 (16)	0.60 (16)	0.06 (13)	58 (13)	45.1 (13)
	< 5	---	---	---	---	---	---
	> 5	---	---	---	---	---	---
PZ14B	< 0.5	3.79 (8)	62.25 (8)	0.48 (8)	0.10 (8)	106 (8)	16.1 (8)
	< 5	2.46 (1)	159.00 (1)	0.57 (1)	2.93 (2)	205 (2)	18.7 (2)
	> 5	---	---	---	---	---	---
PZ15B	< 0.5	1.23 (12)	-51.75 (12)	0.23 (12)	0.08 (10)	13,060 (10)	1.4 (10)
	< 5	---	---	---	---	---	---
	> 5	---	---	---	---	---	---
PZ16B	< 0.5	0.93 (11)	-46.55 (11)	0.23 (11)	0.07 (9)	2,296 (9)	1.5 (9)
	< 5	---	---	---	---	---	---
	> 5	---	---	---	---	---	---
TW01	< 0.5	1.33 (7)	72.14 (7)	1.99 (7)	1.93 (7)	7 (7)	23.6 (7)
	< 5	---	---	---	---	---	---
	> 5	---	---	---	---	---	---
TW02	< 0.5	0.53 (7)	42.00 (7)	1.42 (7)	0.28 (7)	48 (7)	18.2 (7)
	< 5	---	---	---	---	---	---
	> 5	---	---	---	---	---	---

Table 12. Comparison of Benzene and Naphthalene Concentrations with MNA Indicator Parameters
Former Stevens Point MGP Site

Well	Naphthalene Concentration Range (µg/l)	Average Dissolved Oxygen (mg/l) (# of samples)	Average Oxidation Reduction Potential (millivolts) (# of samples)	Average Specific Conductance (mhos/cm) (# of samples)	Average Nitrogen, NO3 + NO2, Total (mg/l) (# of samples)	Average Dissolved Iron (µg/l) (# of samples)	Average Sulfate (mg/l) (# of samples)
OW01	< 1	0.85 (12)	-5.50 (12)	0.95 (12)	0.83 (10)	13,400 (10)	147.8 (10)
	< 100	0.88 (3)	-73.00 (3)	0.72 (3)	0.08 (2)	11,650 (2)	118.5 (2)
	> 100	---	---	---	---	---	---
OW02	< 1	0.61 (15)	-21.53 (15)	0.43 (15)	0.05 (12)	11,054 (12)	4.4 (12)
	< 100	2.54 (2)	264.00 (2)	0.28 (2)	0.03 (1)	12,000 (1)	9.4 (1)
	> 100	---	---	---	---	---	---
OW03R	< 1	0.38 (3)	51.33 (3)	1.13 (3)	0.05 (3)	22,333 (3)	138.7 (3)
	< 100	0.86 (9)	39.00 (9)	2.05 (9)	0.37 (9)	22,300 (9)	267.6 (9)
	> 100	1.66 (9)	35.22 (9)	1.62 (9)	0.05 (8)	40,888 (8)	231.6 (8)
OW04	< 1	1.31 (12)	7.75 (12)	0.45 (12)	0.05 (9)	13,989 (9)	3.2 (9)
	< 100	0.83 (5)	-7.00 (5)	0.90 (5)	0.06 (5)	20,940 (5)	2.0 (5)
	> 100	---	---	---	---	---	---
OW05R	< 1	1.22 (9)	42.33 (9)	0.99 (9)	0.25 (9)	13,114 (9)	220.1 (9)
	< 100	1.07 (9)	17.00 (9)	1.17 (9)	0.21 (9)	20,556 (9)	415.9 (9)
	> 100	1.64 (12)	61.03 (12)	1.70 (12)	0.07 (12)	47,200 (12)	798.4 (12)
OW06	< 1	0.36 (2)	-50.00 (2)	0.39 (2)	0.06 (2)	8,410 (2)	5.1 (2)
	< 100	0.36 (6)	-53.83 (6)	0.51 (6)	0.05 (4)	10,045 (4)	6.9 (4)
	> 100	0.91 (11)	-72.36 (11)	0.67 (11)	0.05 (10)	7,138 (10)	5.9 (10)
OW07A	< 1	0.48 (1)	-250.00 (1)	0.34 (1)	---	---	---
	< 100	1.61 (8)	40.88 (8)	0.50 (8)	0.04 (8)	8,653 (8)	3.5 (8)
	> 100	1.57 (22)	21.59 (22)	0.86 (22)	0.04 (22)	15,690 (22)	2.3 (22)
OW08	< 1	1.69 (4)	-0.25 (4)	0.49 (4)	0.04 (3)	21,667 (3)	0.3 (3)
	< 100	0.54 (5)	-26.60 (5)	0.57 (5)	0.04 (2)	32,000 (2)	0.4 (2)
	> 100	---	---	---	---	---	---
OW09	< 1	---	---	---	---	---	---
	< 100	2.02 (2)	162.50 (2)	0.63 (2)	0.13 (3)	16,333 (3)	233.3 (3)
	> 100	1.09 (23)	-10.61 (23)	0.68 (23)	0.05 (21)	16,195 (21)	38.6 (21)
OW10	< 1	1.38 (3)	160.67 (3)	3.80 (3)	0.07 (4)	11,852 (4)	75.4 (4)
	< 100	1.46 (10)	58.30 (10)	7.30 (10)	0.13 (11)	7,130 (11)	78.1 (11)
	> 100	1.06 (10)	-99.90 (10)	5.48 (10)	0.05 (7)	14,463 (7)	17.2 (7)
OW11	< 1	1.18 (19)	-9.23 (19)	0.85 (19)	0.07 (18)	19,478 (18)	4.4 (18)
	< 100	1.02 (2)	111.50 (2)	0.96 (2)	0.04 (2)	21,000 (2)	3.1 (2)
	> 100	---	---	---	---	---	---
OW12	< 1	0.87 (8)	-54.13 (8)	1.82 (8)	0.11 (6)	13,286 (6)	10.8 (6)
	< 100	1.23 (15)	24.31 (15)	10.89 (15)	0.05 (14)	17,036 (14)	4.7 (14)
	> 100	---	---	---	---	---	---
OW14	< 1	0.55 (1)	-21.00 (1)	4.59 (1)	0.93 (1)	1,340 (1)	17.5 (1)
	< 100	0.78 (4)	-42.50 (4)	1.74 (4)	2.85 (3)	4,461 (3)	30.6 (3)
	> 100	0.50 (5)	-10.80 (5)	1.12 (5)	0.49 (6)	4,157 (6)	14.7 (6)
OW15	< 1	1.54 (12)	-31.75 (12)	1.67 (12)	0.79 (10)	10,236 (10)	10.2 (10)
	< 100	---	---	---	---	---	---
	> 100	---	---	---	---	---	---
OW16	< 1	0.97 (11)	-31.91 (11)	0.21 (11)	0.05 (9)	9,736 (9)	14.7 (9)
	< 100	---	---	---	---	---	---
	> 100	---	---	---	---	---	---
OW17	< 1	0.84 (11)	-66.18 (11)	0.21 (11)	0.05 (9)	5,078 (9)	3.8 (9)
	< 100	---	---	---	---	---	---
	> 100	---	---	---	---	---	---

Table 12. Comparison of Benzene and Naphthalene Concentrations with MNA Indicator Parameters
Former Stevens Point MGP Site

Well	Naphthalene Concentration Range (µg/l)	Average Dissolved Oxygen (mg/l) (# of samples)	Average Oxidation Reduction Potential (millivolts) (# of samples)	Average Specific Conductance (mhos/cm) (# of samples)	Average Nitrogen, NO3 + NO2, Total (mg/l) (# of samples)	Average Dissolved Iron (µg/l) (# of samples)	Average Sulfate (mg/l) (# of samples)
P05B	< 1	1.32 (7)	57.00 (7)	0.49 (7)	0.05 (7)	1,135 (7)	2.5 (7)
	< 100	1.28 (4)	83.00 (4)	0.57 (4)	0.04 (4)	2,790 (4)	1.2 (4)
	> 100	1.30 (19)	9.44 (19)	0.33 (19)	0.04 (19)	4,139 (19)	2.0 (19)
PZ03B	< 1	1.94 (17)	18.94 (17)	0.19 (17)	0.11 (14)	6,542 (14)	2.0 (14)
	< 100	---	---	---	---	---	---
	> 100	---	---	---	---	---	---
PZ07B	< 1	0.95 (1)	-68.00 (1)	0.21 (1)	---	---	---
	< 100	1.35 (7)	-0.43 (7)	0.22 (7)	0.04 (7)	1,866 (7)	0.8 (7)
	> 100	1.69 (22)	62.45 (22)	0.25 (22)	0.04 (23)	1,712 (23)	2.9 (23)
PZ09B	< 1	4.22 (20)	80.60 (20)	0.46 (20)	0.05 (18)	2,972 (18)	9.7 (18)
	< 100	4.40 (4)	131.25 (4)	0.48 (4)	0.07 (5)	1,482 (5)	7.5 (5)
	> 100	---	---	---	---	---	---
PZ10B	< 1	5.97 (21)	17.98 (21)	0.38 (21)	0.09 (19)	46 (19)	15.9 (19)
	< 100	6.57 (1)	118.00 (1)	0.39 (1)	0.15 (1)	25 (1)	16.0 (1)
	> 100	---	---	---	---	---	---
PZ11B	< 1	3.65 (17)	29.71 (17)	0.31 (17)	0.08 (16)	202 (16)	7.0 (16)
	< 100	3.19 (3)	109.67 (3)	0.27 (3)	0.03 (3)	2,290 (3)	4.9 (3)
	> 100	3.81 (3)	188.33 (3)	0.31 (3)	0.04 (3)	1,600 (3)	3.7 (3)
PZ12B	< 1	1.61 (11)	-89.55 (11)	0.55 (11)	0.12 (9)	2,235 (9)	3.1 (9)
	< 100	0.77 (6)	-9.50 (6)	0.42 (6)	0.05 (5)	1,086 (5)	1.2 (5)
	> 100	1.20 (5)	50.72 (5)	0.33 (5)	0.04 (5)	606 (5)	2.0 (5)
PZ13B	< 1	2.98 (15)	34.93 (15)	0.60 (15)	0.06 (12)	62 (12)	43.7 (12)
	< 100	5.84 (1)	-3.00 (1)	0.66 (1)	0.06 (1)	14 (1)	61.4 (1)
	> 100	---	---	---	---	---	---
PZ14B	< 1	3.64 (9)	73.00 (9)	0.49 (9)	0.67 (10)	126 (10)	16.6 (10)
	< 100	---	---	---	---	---	---
	> 100	---	---	---	---	---	---
PZ15B	< 1	1.23 (12)	-51.75 (12)	0.23 (12)	0.08 (10)	13,060 (10)	1.4 (10)
	< 100	---	---	---	---	---	---
	> 100	---	---	---	---	---	---
PZ16B	< 1	0.93 (11)	-46.55 (11)	0.23 (11)	0.07 (9)	2,296 (9)	1.5 (9)
	< 100	---	---	---	---	---	---
	> 100	---	---	---	---	---	---
TW01	< 1	1.33 (7)	72.14 (7)	1.99 (7)	1.93 (7)	7 (7)	23.6 (7)
	< 100	---	---	---	---	---	---
	> 100	---	---	---	---	---	---
TW02	< 1	0.53 (7)	42.00 (7)	1.42 (7)	0.28 (7)	48 (7)	18.2 (7)
	< 100	---	---	---	---	---	---
	> 100	---	---	---	---	---	---

Attachment 2

Stevens Point RI Report Revision 1

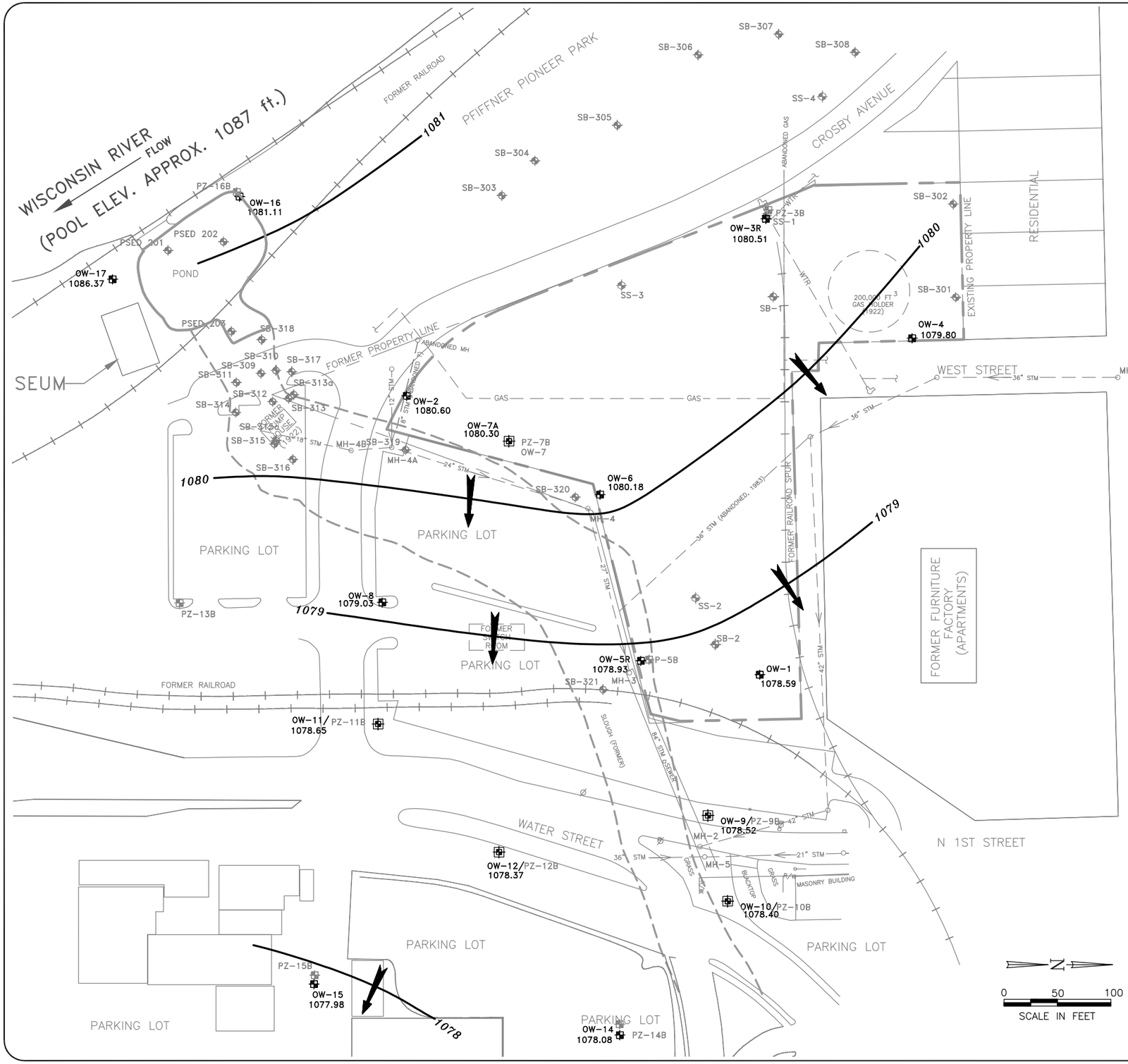
(Figures 12-25, 28, 29, and 30-35)

WATER TABLE CONTOURS–JULY 2007

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

DRAWN BY: KNW	CHECKED BY: EPK	APPROVED BY: EPK
DATE: 05/10/11	DATE: 05/23/11	DATE: 05/23/11

DRAWING NO: 1177-1412C-B12
REFERENCE: NONE



LEGEND

- WATER TABLE ELEVATION CONTOURS, FT.
- GROUNDWATER FLOW DIRECTION
- OW–1 1078.59 — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT.
- OW–9 1078.52 /PZ–9B — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- SB–308 — SOIL BORING (2007)
- P–5B — PIEZOMETER
- SS–4 — EDI SURFACE SAMPLE (1986)
- MH–1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
- STM — STORM SEWER
- MGP — MANUFACTURED GAS PLANT
- FORMER BUILDINGS
- FORMER MGP PROCESS STRUCTURES
- FORMER RAILROAD

SOURCE NOTE:
THIS MAP WAS DEVELOPED FROM DRAWINGS BY SIMON HYDRO–SEARCH, DATED 02/11/94, DRAWING NO. 3075–d8 AND DRAWING NO. 3075–d2, DATED 11/15/93, PROJECT 304533075, A MAP FROM THE CITY OF STEVENS POINT, DRAWING E2 M–1461, DATE UNKNOWN, A MAP FROM THE CITY OF STEVENS POINT, DRAWING A–3 M–1456, DATED 1986, AND DRAWINGS FROM WISCONSIN PUBLIC SERVICE CORP., WSK509.DWG AND STPTGAS.DWG. GAS LINE TAKEN FROM WSK509.DWG AND ABANDONED GAS LINE TAKEN FROM WPSC W.O. 0013098081, STEVENS POINT AREA MAP NO. 2106–252. ALL LOCATIONS INCLUDING UTILITIES ARE APPROXIMATE.
A SURVEY FROM WPSC DATED JANUARY 31, 2000 LOCATED WELLS AND BORINGS SB–207 THROUGH SB–216 INSTALLED JANUARY 2000.
A SURVEY FROM WPSC DATED 6/2/00 LOCATED MH–1, SG–1 AT BRIDGE AND RIVERS NORTH EDGE.
POND SEDIMENT SAMPLINGS FIELD MEASURED BY NRT.
UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603–433–8500.
A SURVEY BY WPSC DATED AUGUST 15, 2007 LOCATED WELLS OW–14 THROUGH OW–17 AND BORINGS SB–309 THROUGH SB–321.
BORINGS SB–301 THROUGH SB–308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND–HELD DGPS UNIT.

NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

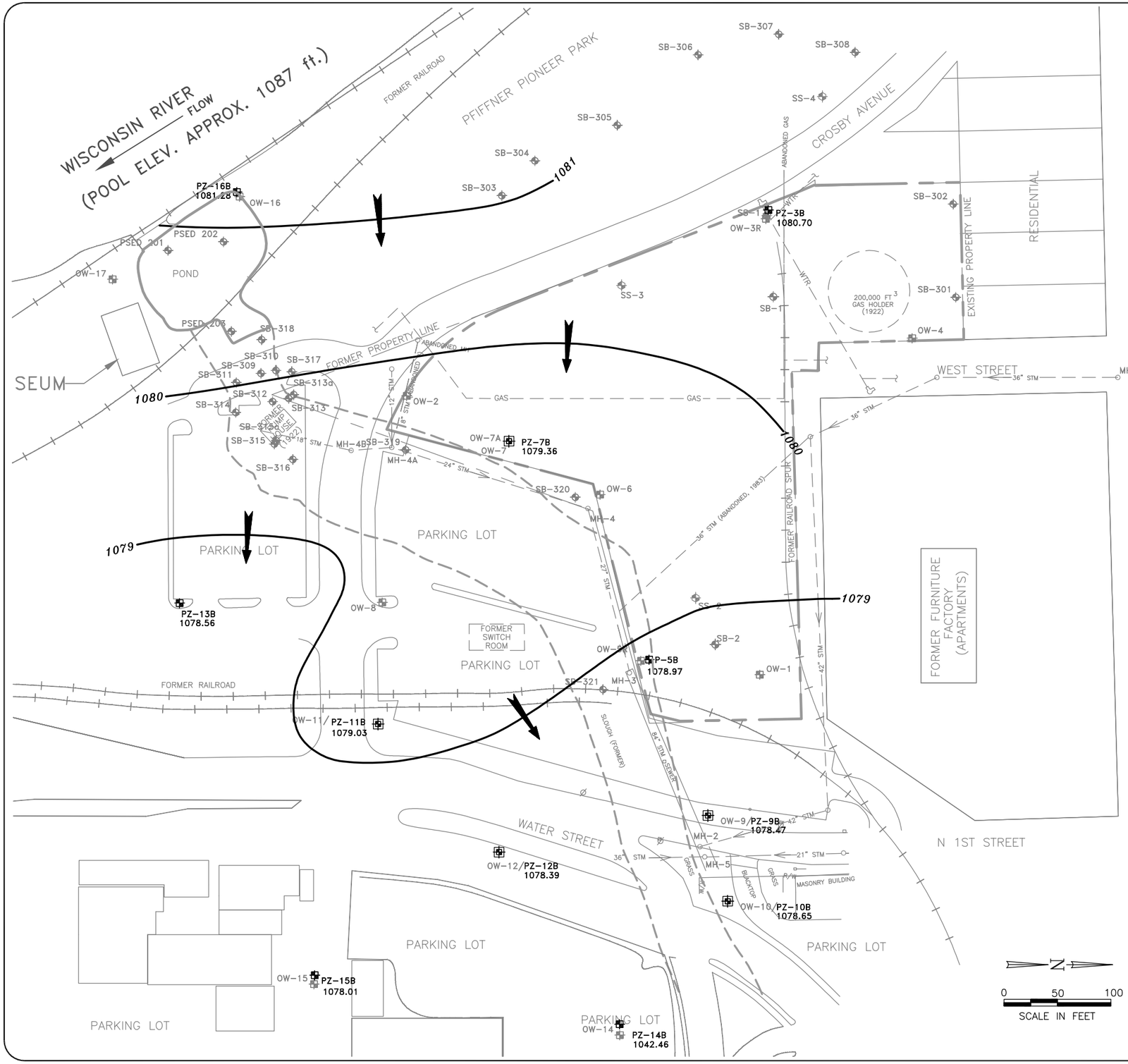
FIGURE NO.
12

PIEZOMETRIC SURFACE–JULY 2007

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

DRAWN BY: KNW	CHECKED BY: EPK	APPROVED BY: EPK
DATE: 05/10/11	DATE: 05/23/11	DATE: 05/23/11

DRAWING NO: 1177–1412C–B13
REFERENCE: NONE



LEGEND

- PIEZOMETER ELEVATION CONTOURS, FT.
- GROUNDWATER FLOW DIRECTION
- OW–1 — WATER TABLE OBSERVATION WELL
- OW–9/PZ–9B 1078.47 — PIEZOMETER AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- PZ–14B OW–17 — WELL LOCATION (2007)
- SB–308 — SOIL BORING (2007)
- P–5B — PIEZOMETER
- SS–4 — EDI SURFACE SAMPLE (1986)
- MH–1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
- STM — STORM SEWER
- MGP — MANUFACTURED GAS PLANT
- FORMER BUILDINGS
- FORMER MGP PROCESS STRUCTURES
- FORMER RAILROAD

SOURCE NOTE:
THIS MAP WAS DEVELOPED FROM DRAWINGS BY SIMON HYDRO–SEARCH, DATED 02/11/94, DRAWING NO. 3075–d8 AND DRAWING NO. 3075–d2, DATED 11/15/93, PROJECT 304533075, A MAP FROM THE CITY OF STEVENS POINT, DRAWING E2 M–1461, DATE UNKNOWN, A MAP FROM THE CITY OF STEVENS POINT, DRAWING A–3 M–1456, DATED 1986, AND DRAWINGS FROM WISCONSIN PUBLIC SERVICE CORP., WSK509.DWG AND STPTGAS.DWG. GAS LINE TAKEN FROM WSK509.DWG AND ABANDONED GAS LINE TAKEN FROM WPSC W.O. 0013098081, STEVENS POINT AREA MAP NO. 2106–252. ALL LOCATIONS INCLUDING UTILITIES ARE APPROXIMATE.
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A SURVEY FROM WPSC DATED 6/2/00 LOCATED MH–1, SG–1 AT BRIDGE AND RIVERS NORTH EDGE.
POND SEDIMENT SAMPLINGS FIELD MEASURED BY NRT.
UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603–433–8500.
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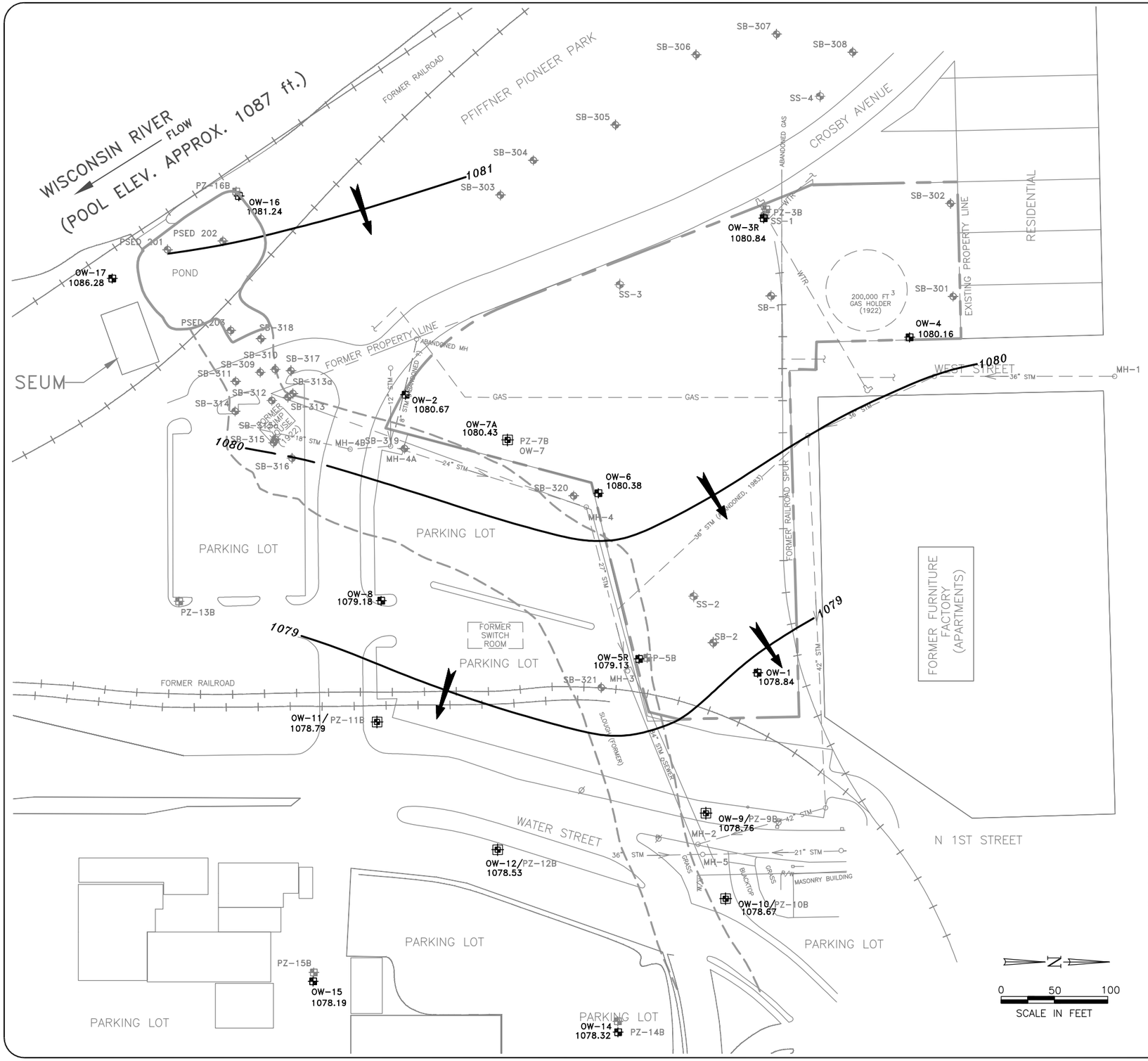
BORINGS SB–301 THROUGH SB–308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND–HELD DGPS UNIT.

NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
13



LEGEND

- WATER TABLE ELEVATION CONTOURS, FT., DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- OW-1 1078.84 — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT.
- OW-9 1078.76 /PZ-9B — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- PZ-14B OW-17 — WELL LOCATION (2007)
- SB-308 — SOIL BORING (2007)
- P-5B — PIEZOMETER
- SS-4 — EDI SURFACE SAMPLE (1986)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
- STM — STORM SEWER
- MGP — MANUFACTURED GAS PLANT
- FORMER BUILDINGS
- FORMER MGP PROCESS STRUCTURES
- FORMER RAILROAD

SOURCE NOTE:
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A SURVEY FROM WPSC DATED 6/2/00 LOCATED MH-1, SG-1 AT BRIDGE AND RIVERS NORTH EDGE.
POND SEDIMENT SAMPLINGS FIELD MEASURED BY NRT.
UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603-433-8500.
A SURVEY BY WPSC DATED AUGUST 15, 2007 LOCATED WELLS OW-14 THROUGH OW-17 AND BORINGS SB-309 THROUGH SB-321.
BORINGS SB-301 THROUGH SB-308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND-HELD DGPS UNIT.

NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

DRAWN BY: KNW	CHECKED BY: EPK	APPROVED BY: EPK
DATE: 05/10/11	DATE: 05/23/11	DATE: 05/23/11

DRAWING NO: 1177-1412C-B14
REFERENCE: NONE

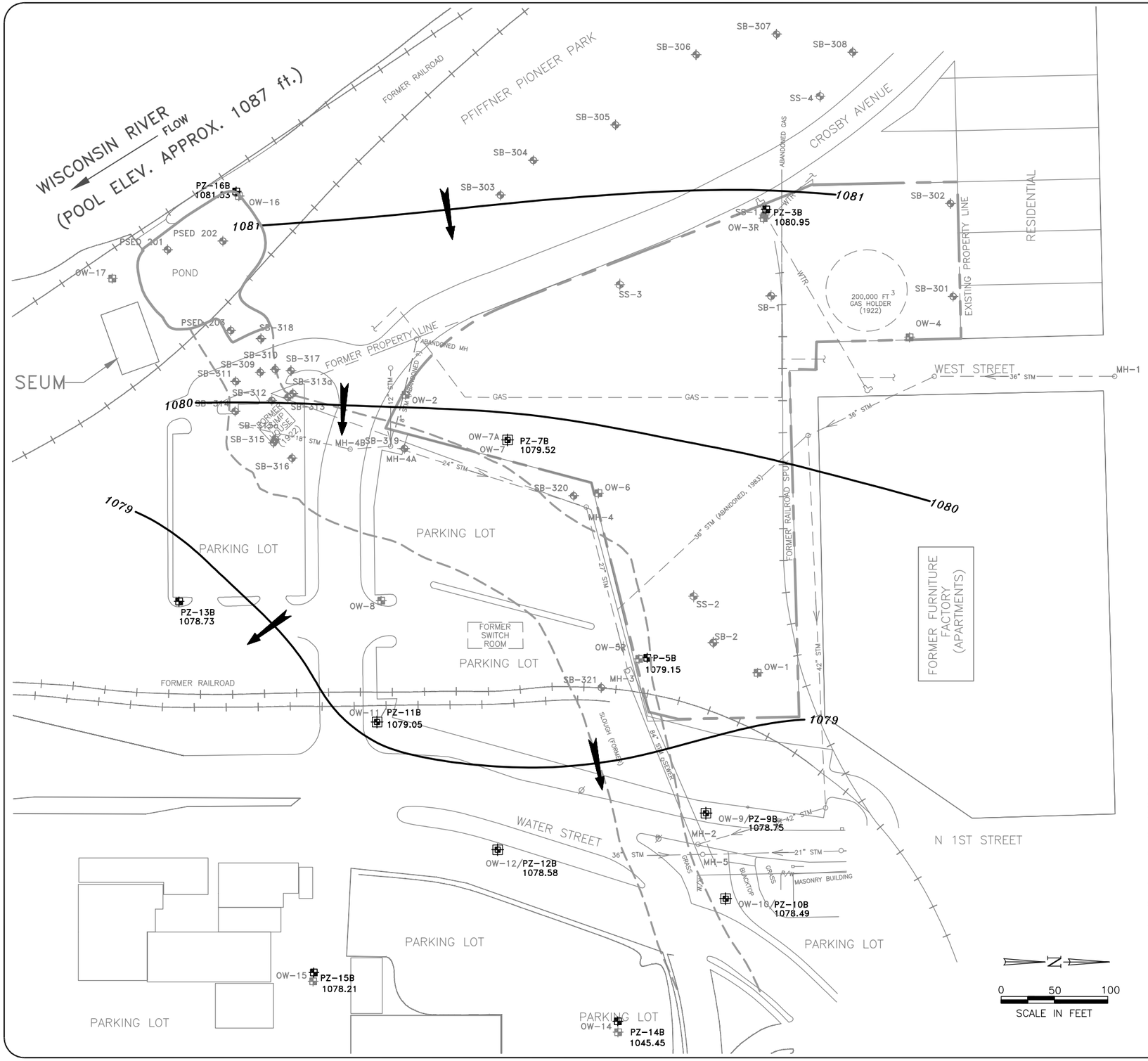
WATER TABLE CONTOURS-OCTOBER 2007

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
14



LEGEND

- PIEZOMETER ELEVATION CONTOURS, FT.
- GROUNDWATER FLOW DIRECTION
- OW-1 — WATER TABLE OBSERVATION WELL
- OW-9/PZ-9B 1078.75 — PIEZOMETER AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- PZ-14B OW-17 — WELL LOCATION (2007)
- SB-308 — SOIL BORING (2007)
- P-5B — PIEZOMETER
- SS-4 — EDI SURFACE SAMPLE (1986)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
- STM — STORM SEWER
- MGP — MANUFACTURED GAS PLANT
- FORMER BUILDINGS
- FORMER MGP PROCESS STRUCTURES
- FORMER RAILROAD

SOURCE NOTE:
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A SURVEY FROM WPSC DATED JANUARY 31, 2000 LOCATED WELLS AND BORINGS SB-207 THROUGH SB-216 INSTALLED JANUARY 2000.
A SURVEY FROM WPSC DATED 6/2/00 LOCATED MH-1, SG-1 AT BRIDGE AND RIVERS NORTH EDGE.
POND SEDIMENT SAMPLINGS FIELD MEASURED BY NRT.
UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603-433-8500.
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BORINGS SB-301 THROUGH SB-308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND-HELD DGPS UNIT.

NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

DRAWN BY: KNW DATE: 05/10/11
CHECKED BY: EPK DATE: 05/24/11
APPROVED BY: EPK DATE: 05/24/11
DRAWING NO: 1177-1412C-B15
REFERENCE: NONE

PIEZOMETRIC SURFACE-OCTOBER 2007

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
15

WATER TABLE CONTOURS – JANUARY 2008

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

DRAWN BY: KNW	CHECKED BY: EPK	APPROVED BY: EPK
DATE: 05/10/11	DATE: 05/24/11	DATE: 05/24/11

DRAWING NO: 1177-1412C-B16
REFERENCE: NONE

WISCONSIN RIVER
FLOW
(POOL ELEV. APPROX. 1087 ft.)

FORMER RAILROAD
PFIFFNER PIONEER PARK
CROSBY AVENUE
ABANDONED GAS
WTR
EXISTING PROPERTY LINE
RESIDENTIAL
FORMER PROPERTY LINE
ABANDONED MH
GAS
WEST STREET
36" STM
MH-1
12" STM
18" STM
24" STM
27" STM
42" STM
21" STM
36" STM (ABANDONED, 1985)
FORMER RAILROAD SPUR
POND
PSED 201
PSED 202
PSED 203
SEUM
FORMER PUMP HOUSE (1922)
200,000 FT³ GAS HOLDER (1922)
FORMER SWITCH ROOM
PARKING LOT
FORMER FURNITURE FACTORY (APARTMENTS)
FORMER RAILROAD
SLOUGH (FORMER)
84" STM SEWER
WATER STREET
N 1ST STREET
GRASS
BLACKTOP
MASONRY BUILDING

SB-301 SB-302 SB-303 SB-304 SB-305 SB-306 SB-307 SB-308
SB-309 SB-310 SB-311 SB-312 SB-313 SB-313a SB-314 SB-315 SB-316 SB-317 SB-318 SB-319 SB-320 SB-321
SB-1 SB-2 SB-3
SS-1 SS-2 SS-3 SS-4
MH-1 MH-2 MH-3 MH-4 MH-4A MH-5

PZ-16B OW-16 1080.82
OW-17 1086.14
OW-3R 1080.55
PZ-3B
OW-4 1080.05
OW-2 1080.43
OW-7A 1080.22
PZ-7B OW-7
OW-6 1080.06
OW-8 1078.83
PZ-13B
OW-5R NM
P-5B
OW-1 1078.54
OW-11 / PZ-11B 1078.41
OW-9 / PZ-9B 1078.52
OW-12 / PZ-12B 1078.37
OW-10 / PZ-10B 1078.37
PZ-15B
OW-15 1077.81
OW-14 NM
PZ-14B

1081 1080 1079 1078

LEGEND

- WATER TABLE ELEVATION CONTOURS, FT., DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- OW-1 1078.54 — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT.
- OW-9 1078.52 /PZ-9B — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- PZ-14B OW-17 — WELL LOCATION (2007)
- SB-308 — SOIL BORING (2007)
- P-5B — PIEZOMETER
- SS-4 — EDI SURFACE SAMPLE (1986)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
- STM — STORM SEWER
- MGP — MANUFACTURED GAS PLANT
- FORMER BUILDINGS
- FORMER MGP PROCESS STRUCTURES
- FORMER RAILROAD

SOURCE NOTES:

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A SURVEY FROM WPSC DATED JANUARY 31, 2000 LOCATED WELLS AND BORINGS SB-207 THROUGH SB-216 INSTALLED JANUARY 2000.

A SURVEY FROM WPSC DATED 6/2/00 LOCATED MH-1, SG-1 AT BRIDGE AND RIVERS NORTH EDGE.

POND SEDIMENT SAMPLINGS FIELD MEASURED BY NRT.

UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603-433-8500.

A SURVEY BY WPSC DATED AUGUST 15, 2007 LOCATED WELLS OW-14 THROUGH OW-17 AND BORINGS SB-309 THROUGH SB-321.

BORINGS SB-301 THROUGH SB-308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND-HELD DGPS UNIT.

NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

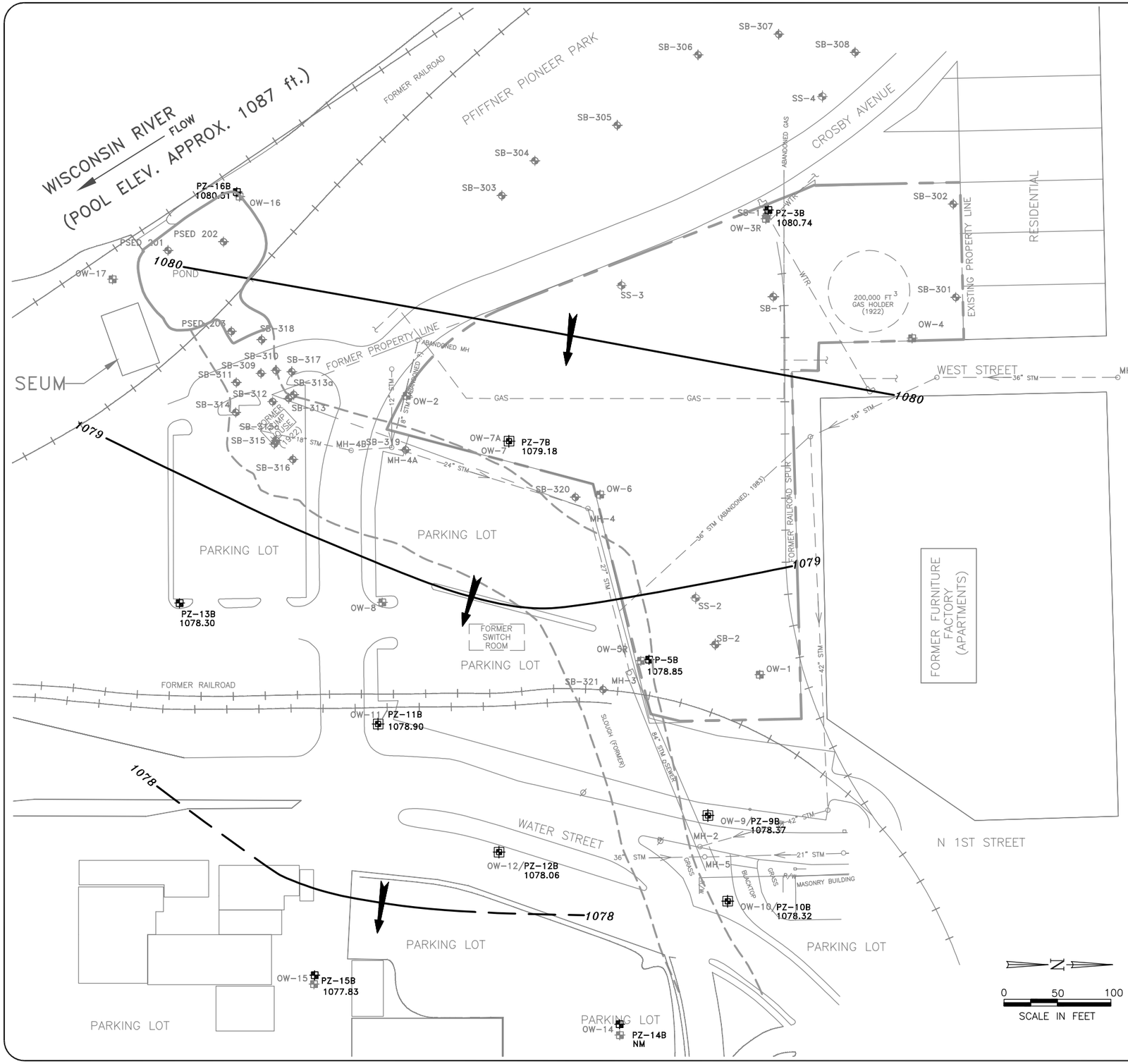
N

0 50 100
SCALE IN FEET

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
16



LEGEND

- PIEZOMETRIC CONTOURS, FT., DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- OW-1 — WATER TABLE OBSERVATION WELL
- OW-9/PZ-9B 1078.37 — PIEZOMETER AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- PZ-14B OW-17 — WELL LOCATION (2007)
- SB-308 — SOIL BORING (2007)
- P-5B — PIEZOMETER
- SS-4 — EDI SURFACE SAMPLE (1986)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
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- FORMER BUILDINGS
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NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

N

0 50 100
SCALE IN FEET

DRAWN BY: KNW DATE: 05/10/11
CHECKED BY: EPK DATE: 05/24/11
APPROVED BY: EPK DATE: 05/24/11
DRAWING NO: 1177-1412C-B17
REFERENCE: NONE

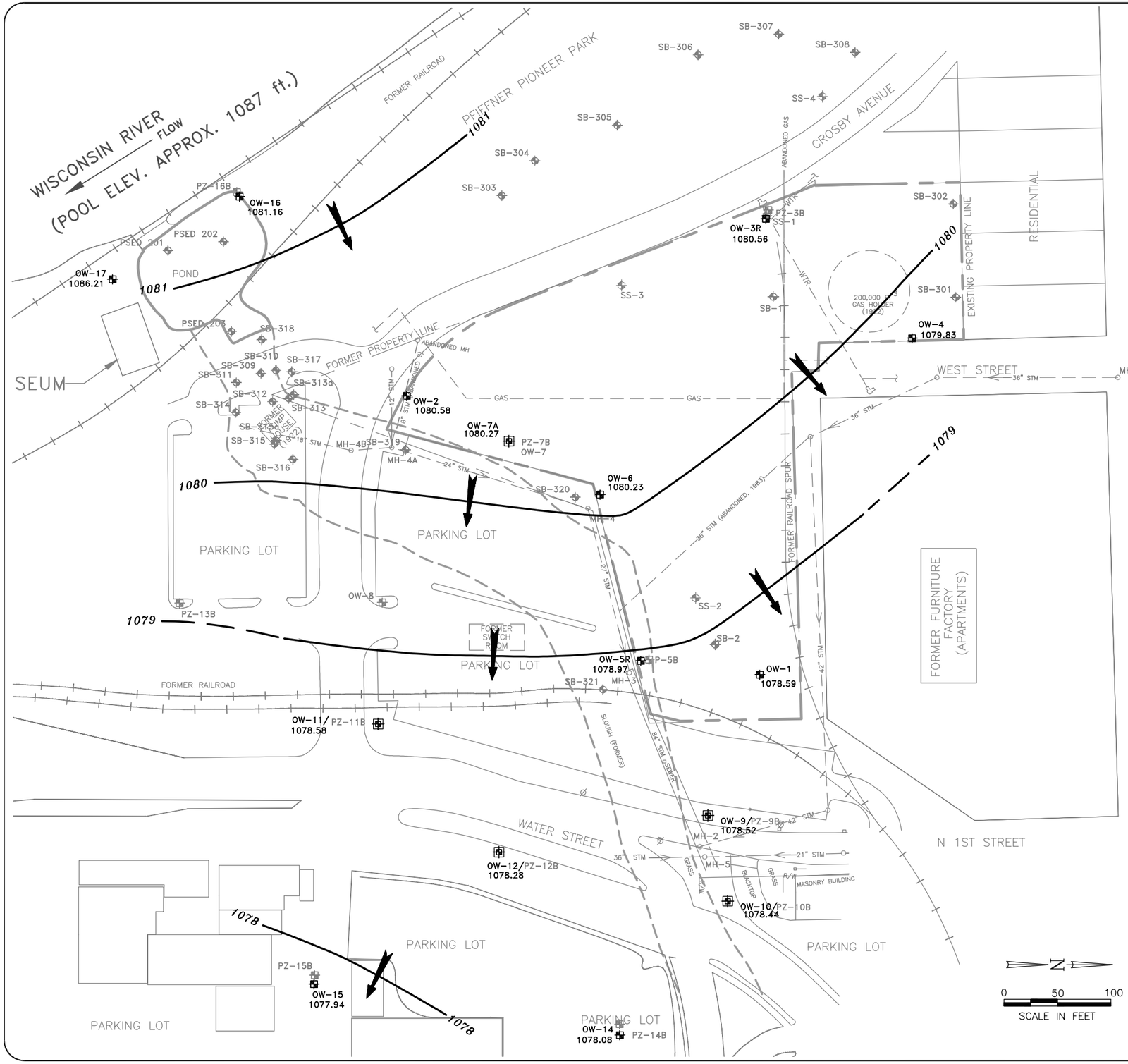
PIEZOMETRIC SURFACE-JANUARY 2008

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
17



LEGEND

- WATER TABLE ELEVATION CONTOURS, FT.
- GROUNDWATER FLOW DIRECTION
- OW-1 1078.59 — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT.
- OW-9 1078.52 /PZ-9B — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- SB-308 — SOIL BORING (2007)
- P-5B — PIEZOMETER
- SS-4 — EDI SURFACE SAMPLE (1986)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
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- MGP — MANUFACTURED GAS PLANT
- FORMER BUILDINGS
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- FORMER RAILROAD

SOURCE NOTE:
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BORINGS SB-301 THROUGH SB-308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND-HELD DGPS UNIT.

NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

WATER TABLE CONTOURS-OCTOBER 2009

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

DRAWN BY: KNW	CHECKED BY: EPK	APPROVED BY: EPK
DATE: 05/10/11	DATE: 05/24/11	DATE: 05/24/11

DRAWING NO: 1177-1412C-B18
REFERENCE: NONE

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
18

PIEZOMETRIC SURFACE–OCTOBER 2009

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

DRAWN BY: KNW	CHECKED BY: EPK	APPROVED BY: EPK
DATE: 05/10/11	DATE: 05/24/11	DATE: 05/24/11

DRAWING NO: 1177-1412C-B19
REFERENCE: NONE

LEGEND

- PIEZOMETER ELEVATION CONTOURS, FT.
- GROUNDWATER FLOW DIRECTION
- OW-1 — WATER TABLE OBSERVATION WELL
- OW-9/PZ-9B 1078.49 — PIEZOMETER AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- PZ-14B OW-17 — WELL LOCATION (2007)
- SB-308 — SOIL BORING (2007)
- P-5B — PIEZOMETER
- SS-4 — EDI SURFACE SAMPLE (1986)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
- STM — STORM SEWER
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A SURVEY FROM WPSC DATED 6/2/00 LOCATED MH-1, SG-1 AT BRIDGE AND RIVERS NORTH EDGE.
POND SEDIMENT SAMPLINGS FIELD MEASURED BY NRT.
UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603-433-8500.
A SURVEY BY WPSC DATED AUGUST 15, 2007 LOCATED WELLS OW-14 THROUGH OW-17 AND BORINGS SB-309 THROUGH SB-321.
BORINGS SB-301 THROUGH SB-308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND-HELD DGPS UNIT.

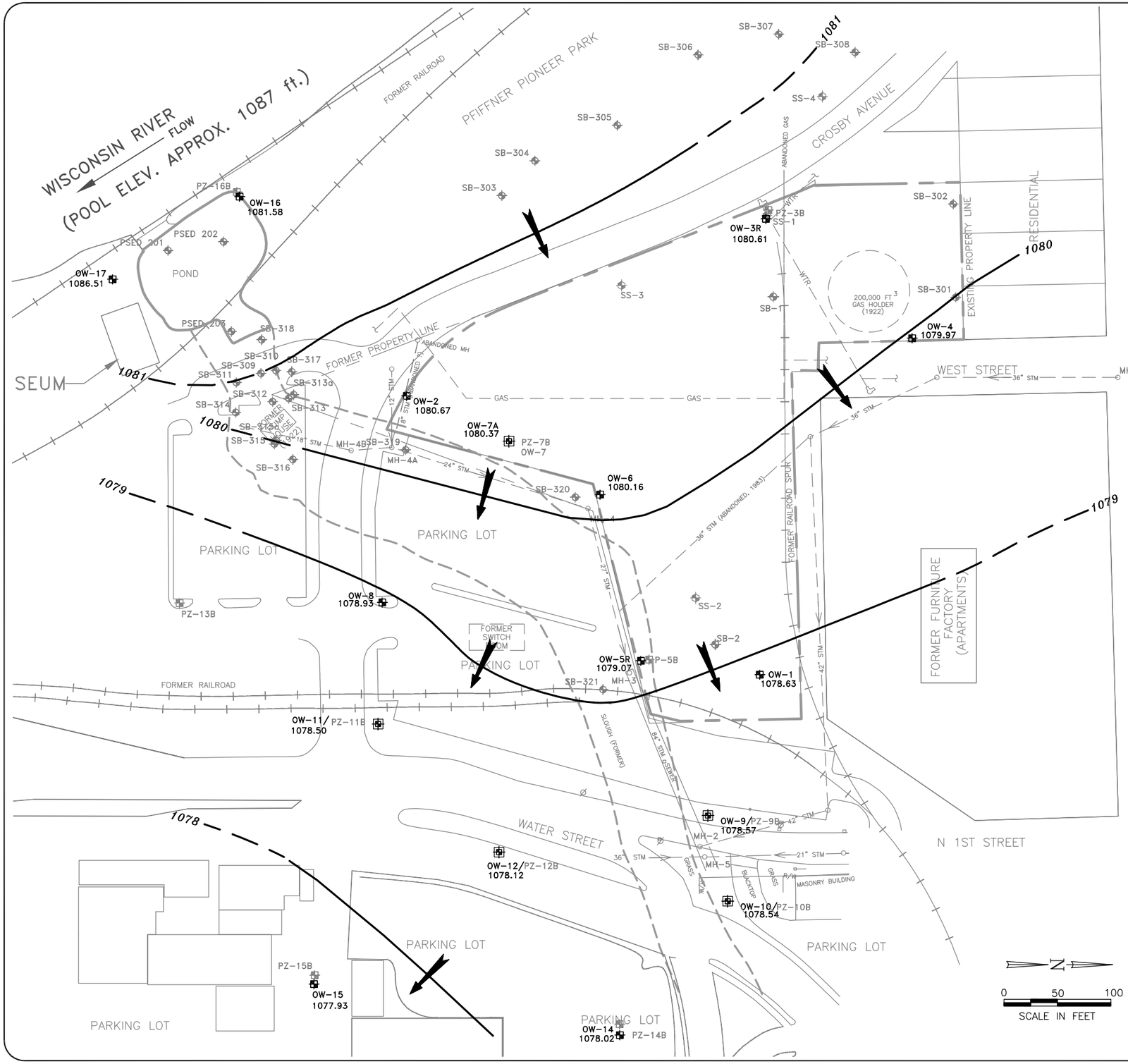
NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

0 50 100
SCALE IN FEET

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
19



LEGEND

- WATER TABLE ELEVATION CONTOURS, FT., DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- OW-1 1078.63 — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT.
- OW-9 1078.57 /PZ-9B — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- PZ-14B OW-17 — WELL LOCATION (2007)
- SB-308 — SOIL BORING (2007)
- P-5B — PIEZOMETER
- SS-4 — EDI SURFACE SAMPLE (1986)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
- STM — STORM SEWER
- MGP — MANUFACTURED GAS PLANT
- FORMER BUILDINGS
- FORMER MGP PROCESS STRUCTURES
- FORMER RAILROAD

SOURCE NOTES:

THIS MAP WAS DEVELOPED FROM DRAWINGS BY SIMON HYDRO-SEARCH, DATED 02/11/94, DRAWING NO. 3075-d8 AND DRAWING NO. 3075-d2, DATED 11/15/93, PROJECT 304533075, A MAP FROM THE CITY OF STEVENS POINT, DRAWING E2 M-1461, DATE UNKNOWN, A MAP FROM THE CITY OF STEVENS POINT, DRAWING A-3 M-1456, DATED 1986, AND DRAWINGS FROM WISCONSIN PUBLIC SERVICE CORP., WSK509.DWG AND STPTGAS.DWG. GAS LINE TAKEN FROM WSK509.DWG AND ABANDONED GAS LINE TAKEN FROM WPSC W.O. 0013098081, STEVENS POINT AREA MAP NO. 2106-252. ALL LOCATIONS INCLUDING UTILITIES ARE APPROXIMATE.

A SURVEY FROM WPSC DATED JANUARY 31, 2000 LOCATED WELLS AND BORINGS SB-207 THROUGH SB-216 INSTALLED JANUARY 2000.

A SURVEY FROM WPSC DATED 6/2/00 LOCATED MH-1, SG-1 AT BRIDGE AND RIVERS NORTH EDGE.

POND SEDIMENT SAMPLINGS FIELD MEASURED BY NRT.

UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603-433-8500.

A SURVEY BY WPSC DATED AUGUST 15, 2007 LOCATED WELLS OW-14 THROUGH OW-17 AND BORINGS SB-309 THROUGH SB-321.

BORINGS SB-301 THROUGH SB-308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND-HELD DGPS UNIT.

NOTES:

SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

WATER TABLE CONTOURS-APRIL 2010

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

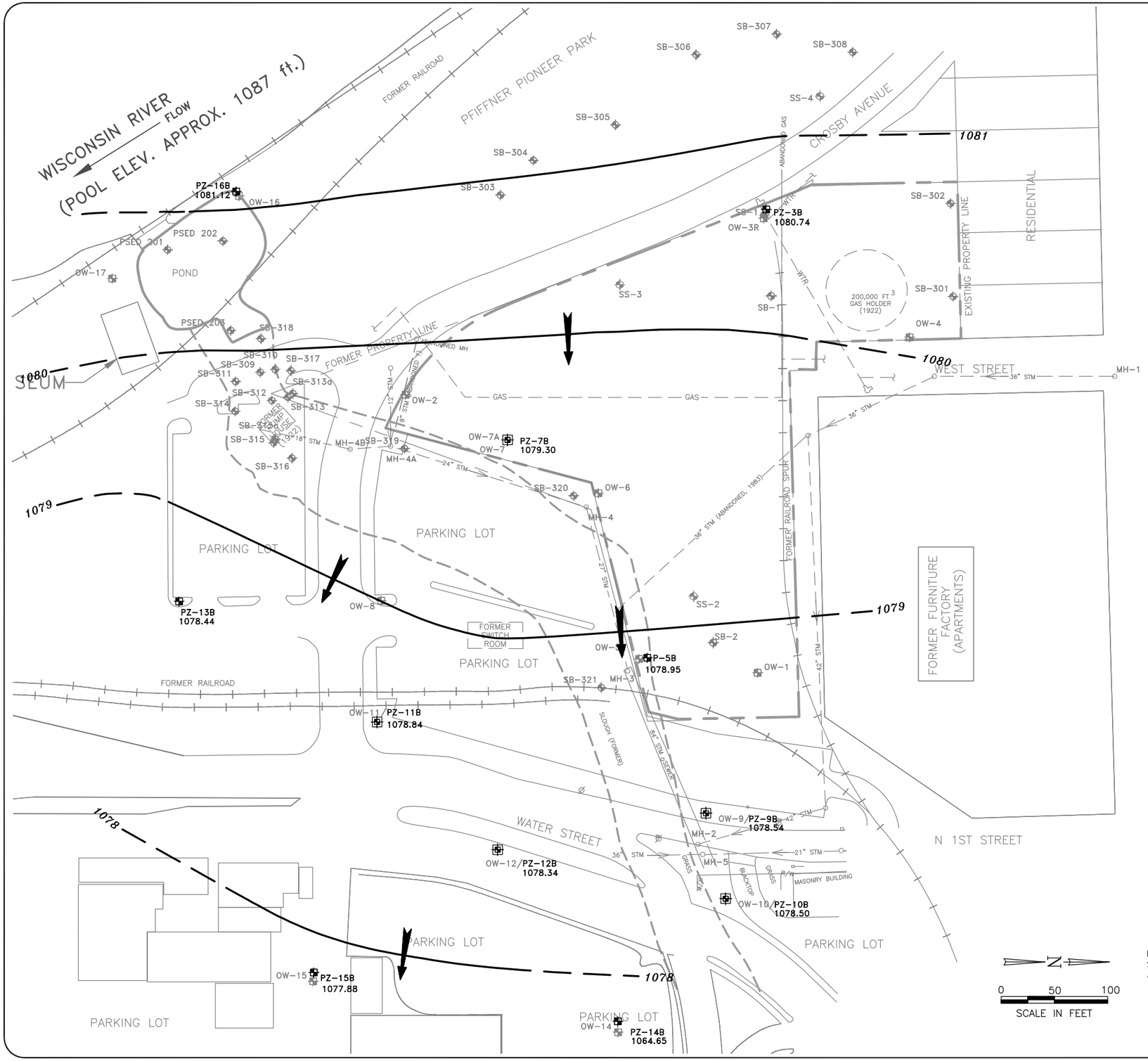
DRAWN BY: KNW	CHECKED BY: EPK	APPROVED BY: EPK
DATE: 05/10/11	DATE: 05/24/11	DATE: 05/24/11

DRAWING NO: 1177-1412C-B20
REFERENCE: NONE

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
20



LEGEND

- PIEZOMETRIC CONTOURS, FT., DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- OW-1 — WATER TABLE OBSERVATION WELL
- OW-9/PZ-9B 1078.54 — PIEZOMETER AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- PZ-14B OW-17 — WELL LOCATION (2007)
- SB-308 — SOIL BORING (2007)
- P-5B — PIEZOMETER
- SS-4 — EDI SURFACE SAMPLE (1986)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
- STM — STORM SEWER
- MGP — MANUFACTURED GAS PLANT
- FORMER BUILDINGS
- FORMER MGP PROCESS STRUCTURES
- FORMER RAILROAD

SOURCE NOTES:

THIS MAP WAS DEVELOPED FROM DRAWINGS BY SIMON HYDRO-SEARCH, DATED 02/11/94, DRAWING NO. 3075-d8 AND DRAWING NO. 3075-d2, DATED 11/15/93, PROJECT 304533075, A MAP FROM THE CITY OF STEVENS POINT, DRAWING E2 M-1461, DATE UNKNOWN, A MAP FROM THE CITY OF STEVENS POINT, DRAWING A-3 M-1456, DATED 1986, AND DRAWINGS FROM WISCONSIN PUBLIC SERVICE CORP., WSK509.DWG AND STPTGAS.DWG. GAS LINE TAKEN FROM WSK509.DWG AND ABANDONED GAS LINE TAKEN FROM WPSC W.O. 0013098081, STEVENS POINT AREA MAP NO. 2106-252. ALL LOCATIONS INCLUDING UTILITIES ARE APPROXIMATE.

A SURVEY FROM WPSC DATED JANUARY 31, 2000 LOCATED WELLS AND BORINGS SB-207 THROUGH SB-216 INSTALLED JANUARY 2000.

A SURVEY FROM WPSC DATED 6/2/00 LOCATED MH-1, SG-1 AT BRIDGE AND RIVERS NORTH EDGE.

POND SEDIMENT SAMPLINGS FIELD MEASURED BY NRT.

UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603-433-8500.

A SURVEY BY WPSC DATED AUGUST 15, 2007 LOCATED WELLS OW-14 THROUGH OW-17 AND BORINGS SB-309 THROUGH SB-321.

BORINGS SB-301 THROUGH SB-308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND-HELD DGPS UNIT.

NOTES:

SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

PIEZOMETRIC SURFACE-APRIL 2010

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

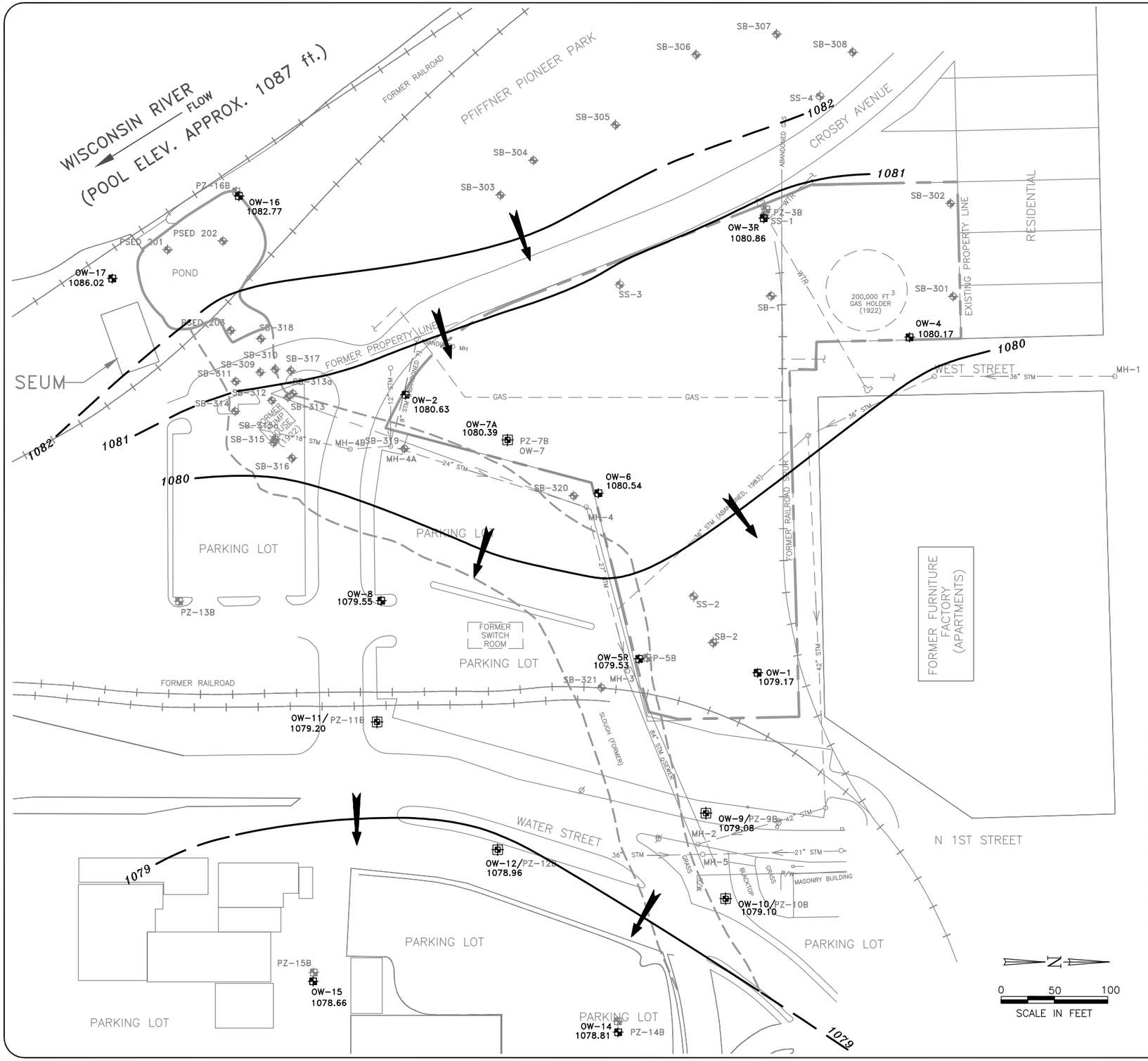
DRAWN BY: KNW	CHECKED BY: EPK	APPROVED BY: EPK
DATE: 05/10/11	DATE: 05/24/11	DATE: 05/24/11

DRAWING NO: 1177-1412C-B21
REFERENCE: NONE

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
21



LEGEND

- WATER TABLE ELEVATION CONTOURS, FT., DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- OW-1 1079.17 — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT.
- OW-9 1079.08 /PZ-9B — WATER TABLE OBSERVATION WELL AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- PZ-14B OW-17 — WELL LOCATION (2007)
- SB-308 — SOIL BORING (2007)
- P-5B — PIEZOMETER
- SS-4 — EDI SURFACE SAMPLE (1986)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
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UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603-433-8500.
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NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

WATER TABLE CONTOURS-OCTOBER 2010

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

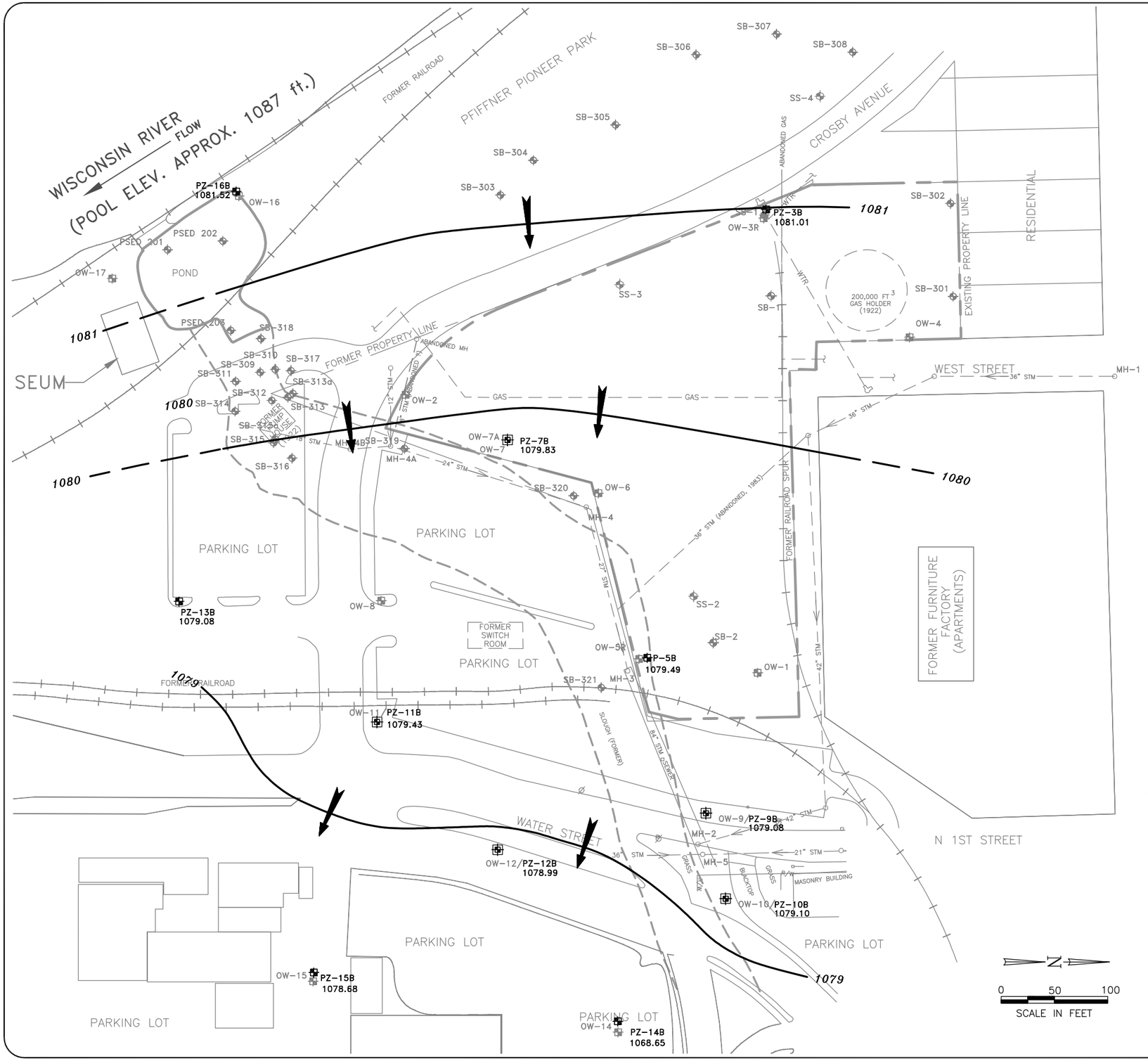
DRAWN BY: KNW	CHECKED BY: EPK	APPROVED BY: EPK
DATE: 05/10/11	DATE: 05/24/11	DATE: 05/24/11

DRAWING NO: 1177-1412C-B22
REFERENCE: NONE

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
22



LEGEND

- PIEZOMETER ELEVATION CONTOURS, FT.
- GROUNDWATER FLOW DIRECTION
- OW-1 — WATER TABLE OBSERVATION WELL
- OW-9/PZ-9B 1079.08 — PIEZOMETER AND GROUNDWATER ELEVATION, FT./NESTED MONITORING WELL
- PZ-14B OW-17 — WELL LOCATION (2007)
- SB-308 — SOIL BORING (2007)
- P-5B — PIEZOMETER
- SS-4 — EDI SURFACE SAMPLE (1986)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
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- MGP — MANUFACTURED GAS PLANT
- FORMER BUILDINGS
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SOURCE NOTE:
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POND SEDIMENT SAMPLINGS FIELD MEASURED BY NRT.
UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603-433-8500.
A SURVEY BY WPSC DATED AUGUST 15, 2007 LOCATED WELLS OW-14 THROUGH OW-17 AND BORINGS SB-309 THROUGH SB-321.
BORINGS SB-301 THROUGH SB-308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND-HELD DGPS UNIT.

NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

PIEZOMETRIC SURFACE-OCTOBER 2010

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

DRAWN BY: KNW	CHECKED BY: EPK	APPROVED BY: EPK
DATE: 05/10/11	DATE: 05/24/11	DATE: 05/24/11

DRAWING NO: 1177-1412C-B23
REFERENCE: NONE

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
23

Monitoring Well Location
Groundwater Elevation Contours
Groundwater Flow Direction
Property Boundary

N
W
E
S

OW4
1080.19 ft
OW3R
1080.79 ft
OW1
1078.89 ft
OW9
1078.78 ft
OW10
1078.7 ft
OW5R
1079.55 ft
OW6
1080.22 ft
OW7A
1080.42 ft
OW2
1080.65 ft
OW8
1078.93 ft
OW11
1078.5 ft
OW12
1078.27 ft
TW2
1078.08 ft
OW14
1078.13 ft
OW15
1077.92 ft
OW18
1076.507 ft
OW21
1077.289 ft
OW16
1080.92 ft
OW17
1086.27 ft
OW19
1077.627 ft
OW20
1077.352 ft
TW1
1076.53 ft

1079
1081
1080
1078
1077

Pool Elevation ≈ 1087 ft

Portage County
WI

0 100 200 300 400 500 Feet

Water Table Contours
March 2011
Wisconsin Public Service Corporation
Former Manufactured Gas Plant, Stevens Point, Wisconsin

NATURAL RESOURCE TECHNOLOGY

Project No. 1177
Figure No. 24

5/16/2011

Y:\GIS\Projects\1111177\MXD\GW\Shallow_GW_Elev_Contours_1103.mxd

Piezometer Location
Groundwater Elevation Contours
Groundwater Flow Direction
Property Boundary

N
W
E
S

PZ3B
1080.77 ft

P5B
1078.99 ft

PZ10B
1078.36 ft

PZ9B
1078.7 ft

PZ14B
1067.57 ft

PZ7B
1079.39 ft

PZ12B
1078.36 ft

PZ11B
1079.1 ft

PZ15B
1077.94 ft

PZ16B
1080.99 ft

PZ13
1078.43 ft

1081
1080
1079
1078
1077
1076
1075
1074
1073

Pool Elevation ≈ 1087 ft

Portage County
WI

0 100 200 300 400 500
Feet

Piezometric Surface
March 2011

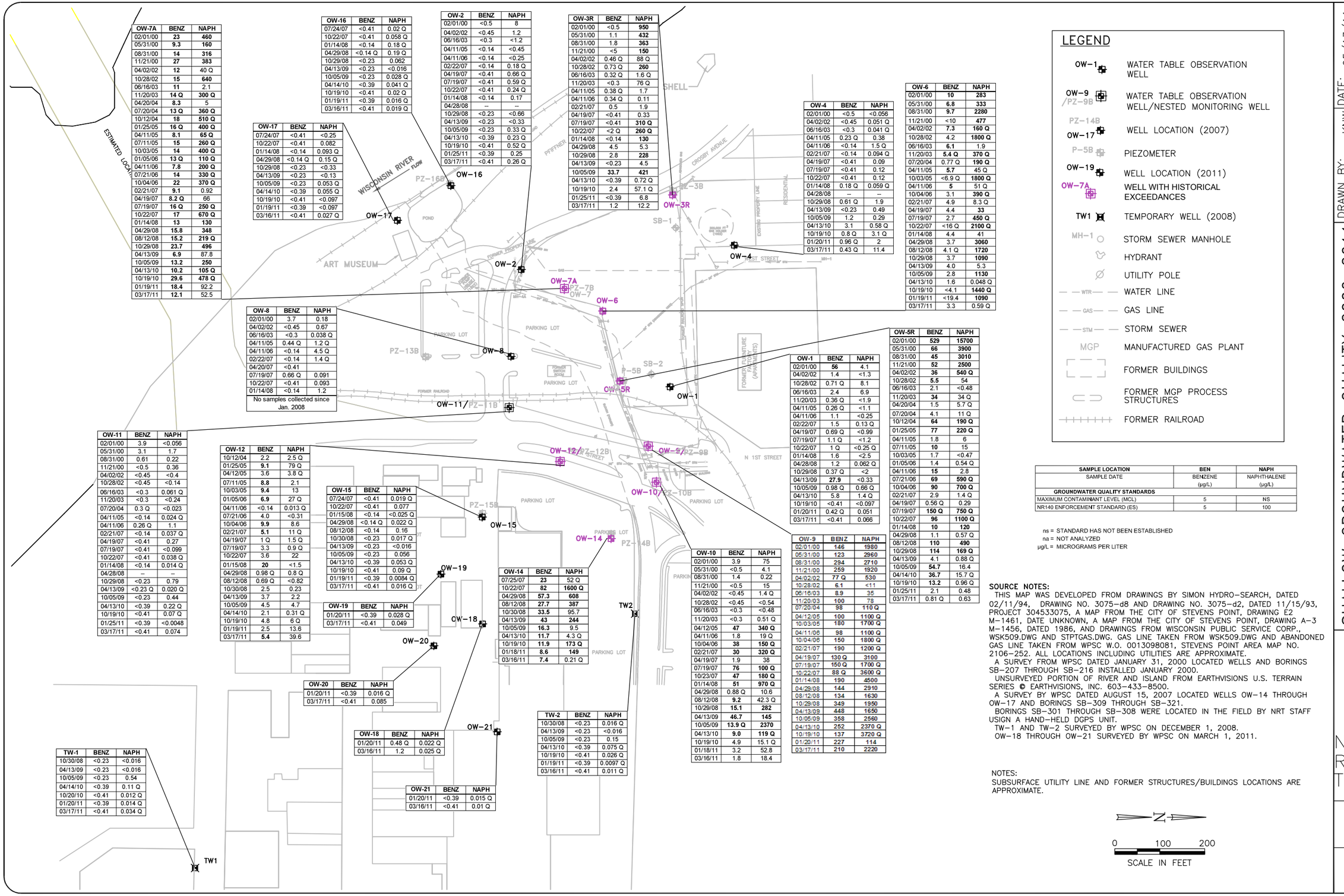
Wisconsin Public Service Corporation
Former Manufactured Gas Plant, Stevens Point, Wisconsin

NATURAL RESOURCE TECHNOLOGY

Project No. 1177
Figure No. 25

5/16/2011

Y:\GIS\Projects\111\177\MXD\GW\Deep_GW_Elev_Contours_1103.mxd



OW-7A	BENZ	NAPH
02/01/00	23	460
05/31/00	9.3	160
08/31/00	14	316
11/21/00	27	383
04/02/02	12	40 Q
10/28/02	15	640
06/16/03	11	2.1
11/20/03	14 Q	300 Q
04/20/04	8.3	5
07/20/04	13 Q	360 Q
10/12/04	18	510 Q
01/25/05	16 Q	400 Q
04/11/05	8.1	65 Q
07/11/05	15	260 Q
10/03/05	14	400 Q
01/05/06	13 Q	110 Q
04/11/06	7.8	200 Q
07/21/06	14	330 Q
10/04/06	22	370 Q
02/21/07	9.1	0.92
04/19/07	8.2 Q	66
07/19/07	16 Q	250 Q
10/22/07	17	670 Q
01/14/08	13	130
04/29/08	15.8	348
08/12/08	15.2	219 Q
10/29/08	23.7	496
04/13/09	6.9	87.8
10/05/09	13.2	250
04/13/10	10.2	105 Q
10/19/10	29.6	478 Q
01/19/11	18.4	92.2
03/17/11	12.1	52.5

OW-16	BENZ	NAPH
07/24/07	<0.41	0.02 Q
10/22/07	<0.41	0.058 Q
01/14/08	<0.14	0.18 Q
04/29/08	<0.14 Q	0.19 Q
10/29/08	<0.23	0.062
04/13/09	<0.23	<0.016
10/05/09	<0.23	0.028 Q
04/14/10	<0.39	0.041 Q
10/19/10	<0.41	0.02 Q
01/19/11	<0.39	0.016 Q
03/16/11	<0.41	0.019 Q

OW-17	BENZ	NAPH
07/24/07	<0.41	<0.25
10/22/07	<0.41	0.082
01/14/08	<0.14	0.093 Q
04/29/08	<0.14 Q	0.15 Q
10/29/08	<0.23	<0.33
04/13/09	<0.23	<0.13
10/05/09	<0.23	0.053 Q
04/14/10	<0.39	0.055 Q
10/19/10	<0.41	<0.097
01/19/11	<0.39	<0.097
03/16/11	<0.41	0.027 Q

OW-2	BENZ	NAPH
02/01/00	<0.5	8
04/02/02	<0.45	1.2
06/16/03	<0.3	<1.2
04/11/05	<0.14	<0.45
04/11/06	<0.14	<0.25
02/22/07	<0.14	0.18 Q
04/19/07	<0.41	0.66 Q
07/19/07	<0.41	0.59 Q
10/22/07	<0.41	0.24 Q
01/14/08	<0.14	0.17
04/28/08	–	–
10/29/08	<0.23	<0.66
04/13/09	<0.23	<0.33
10/05/09	<0.23	0.33 Q
04/13/10	<0.39	0.23 Q
10/19/10	<0.41	0.52 Q
01/25/11	<0.39	0.25
03/17/11	<0.41	0.26 Q

OW-3R	BENZ	NAPH
02/01/00	<0.5	950
05/31/00	1.1	432
08/31/00	1.8	363
11/21/00	<5	150
04/02/02	0.46 Q	88 Q
10/28/02	0.73 Q	260
06/16/03	0.32 Q	1.6 Q
11/20/03	<0.3	76 Q
04/11/05	0.38 Q	1.7
04/11/06	0.34 Q	0.11
02/21/07	0.5	1.9
04/19/07	<0.41	0.33
07/19/07	<0.41	310 Q
10/22/07	<2 Q	260 Q
01/14/08	<0.14	130
04/29/08	4.5	5.3
10/29/08	2.8	228
04/13/09	<0.23	4.5
10/05/09	33.7	421
04/13/10	<0.39	0.72 Q
10/19/10	2.4	57.1 Q
01/25/11	<0.39	6.8
03/17/11	1.2	12.2

OW-4	BENZ	NAPH
02/01/00	<0.5	<0.056
04/02/02	<0.45	0.051 Q
06/16/03	<0.3	0.041 Q
04/11/05	0.23 Q	0.38
04/11/06	<0.14	1.5 Q
02/21/07	<0.14	0.094 Q
04/19/07	<0.41	0.09
07/19/07	<0.41	0.12
10/22/07	<0.41	0.12
01/14/08	0.18 Q	0.059 Q
04/28/08	–	–
10/29/08	0.61 Q	1.9
04/13/09	<0.23	0.49
10/05/09	1.2	0.29
04/13/10	3.1	0.58 Q
10/19/10	0.8 Q	3.1 Q
01/20/11	0.96 Q	2
03/17/11	0.43 Q	11.4

OW-6	BENZ	NAPH
02/01/00	10	283
05/31/00	6.8	333
08/31/00	9.7	2280
11/21/00	<10	477
04/02/02	7.3	160 Q
10/28/02	4.2	1800 Q
06/16/03	6.1	1.9
11/20/03	5.4 Q	370 Q
07/20/04	0.77 Q	190 Q
04/11/05	5.7	45 Q
10/03/05	<6.9 Q	1800 Q
04/11/06	5	51 Q
10/04/06	3.1	390 Q
02/21/07	4.9	8.3 Q
04/19/07	4.4	33
07/19/07	2.7	450 Q
10/22/07	<16 Q	2100 Q
01/14/08	4.4	41
04/29/08	3.7	3060
08/12/08	4.1 Q	1720
10/29/08	3.7	1090
04/13/09	4.0	5.3
10/05/09	2.8	1130
04/13/10	1.6	0.048 Q
10/19/10	<4.1	1440 Q
01/19/11	<19.4	1090
03/17/11	3.3	0.59 Q

OW-8	BENZ	NAPH
02/01/00	3.7	0.18
04/02/02	<0.45	0.67
06/16/03	<0.3	0.038 Q
04/11/05	0.44 Q	1.2 Q
04/11/06	<0.14	4.5 Q
02/22/07	<0.14	1.4 Q
04/20/07	<0.41	
07/19/07	0.66 Q	0.091
10/22/07	<0.41	0.093
01/14/08	<0.14	1.2
No samples collected since Jan. 2008		

OW-1	BENZ	NAPH
02/01/00	56	4.1
04/02/02	1.4	<1.3
10/28/02	0.71 Q	8.1
06/16/03	2.4	6.9
11/20/03	0.36 Q	<1.9
04/11/05	0.26 Q	<1.1
04/11/06	1.1	<0.25
02/22/07	1.5	0.13 Q
04/19/07	0.69 Q	<0.99
07/19/07	1.1 Q	<1.2
10/22/07	1 Q	<0.25 Q
01/14/08	1.6	<2.5
04/28/08	1.2	0.062 Q
10/29/08	0.37 Q	<2
04/13/09	27.9	<0.33
10/05/09	0.98 Q	0.66 Q
04/13/10	5.8	1.4 Q
10/19/10	<0.41	<0.097
01/20/11	0.42 Q	0.051
03/17/11	<0.41	0.066

OW-5R	BENZ	NAPH
02/01/00	529	15700
05/31/00	66	3900
08/31/00	45	3010
11/21/00	52	2500
04/02/02	36	540 Q
10/28/02	5.5	54
06/16/03	2.1	<0.48
11/20/03	34	34 Q
04/20/04	1.5	5.7 Q
07/20/04	4.1	11 Q
10/12/04	64	190 Q
01/25/05	77	220 Q
04/11/05	1.8	6
07/11/05	10	15
10/03/05	1.7	<0.47
01/05/06	1.4	0.54 Q
04/11/06	15	2.8
07/21/06	69	590 Q
10/04/06	90	700 Q
02/21/07	2.9	1.4 Q
04/19/07	0.56 Q	0.29
07/19/07	150 Q	750 Q
10/22/07	96	1100 Q
01/14/08	10	120
04/29/08	1.1	0.57 Q
08/12/08	110	490
10/29/08	114	169 Q
04/13/09	4.1	0.88 Q
10/05/09	54.7	16.4
04/14/10	36.7	15.7 Q
10/19/10	13.2	0.96 Q
01/25/11	2.1	0.48
03/17/11	0.81 Q	0.63

OW-11	BENZ	NAPH
02/01/00	3.9	<0.056
05/31/00	3.1	1.7
08/31/00	0.61	0.22
11/21/00	<0.5	0.36
04/02/02	<0.45	<0.4
10/28/02	<0.45	<0.14
06/16/03	<0.3	0.061 Q
11/20/03	<0.3	<0.24
07/20/04	0.3 Q	<0.023
04/11/05	<0.14	0.024 Q
04/11/06	0.26 Q	1.1
02/21/07	<0.14	0.037 Q
04/19/07	<0.41	0.27
07/19/07	<0.41	<0.099
10/22/07	<0.41	0.038 Q
01/14/08	<0.14	0.014 Q
04/28/08	–	–
10/29/08	<0.23	0.79
04/13/09	<0.23 Q	0.020 Q
10/05/09	<0.23	0.44
04/13/10	<0.39	0.22 Q
10/19/10	<0.41	0.07 Q
01/25/11	<0.39	<0.0048
03/17/11	<0.41	0.074

OW-12	BENZ	NAPH
10/12/04	2.2	2.5 Q
01/25/05	9.1	79 Q
04/12/05	3.6	3.8 Q
07/11/05	8.8	2.1
10/03/05	9.4	13
01/05/06	6.9	27 Q
04/11/06	<0.14	0.013 Q
07/21/06	4.0	<0.31
10/04/06	9.9	8.6
02/21/07	5.1	11 Q
04/19/07	1 Q	1.5 Q
07/19/07	3.3	0.9 Q
10/22/07	3.6	22
01/15/08	20	<1.5
04/29/08	0.98 Q	0.8 Q
08/12/08	0.69 Q	<0.82
10/30/08	2.5	0.23
04/13/09	3.7	2.2
10/05/09	4.5	4.7
04/14/10	2.1	0.31 Q
10/19/10	4.8	6 Q
01/19/11	2.5	13.6
03/17/11	5.4	39.6

OW-15	BENZ	NAPH
07/24/07	<0.41	0.019 Q
10/22/07	<0.41	0.077
01/15/08	<0.14	<0.025 Q
04/29/08	<0.14 Q	0.022 Q
08/12/08	<0.14	0.16
10/30/08	<0.23	0.017 Q
04/13/09	<0.23	<0.016
10/05/09	<0.23	0.056
04/13/10	<0.39	0.053 Q
10/19/10	<0.41	0.09 Q
01/19/11	<0.39	0.0084 Q
03/17/11	<0.41	0.016 Q

OW-19	BENZ	NAPH
01/20/11	<0.39	0.028 Q
03/17/11	<0.41	0.049

OW-14	BENZ	NAPH
07/25/07	23	52 Q
10/22/07	82	1600 Q
04/29/08	57.3	608
08/12/08	27.7	387
10/30/08	33.5	95.7
04/13/09	43	244
10/05/09	16.3	9.5
04/13/10	11.7	4.3 Q
10/19/10	11.9	173 Q
01/18/11	8.6	149
03/16/11	7.4	0.21 Q

OW-10	BENZ	NAPH
02/01/00	3.9	75
05/31/00	<0.5	4.1
08/31/00	1.4	0.22
11/21/00	<0.5	15
04/02/02	<0.45	1.4 Q
10/28/02	<0.45	<0.54
06/16/03	<0.3	<0.48
11/20/03	<0.3	0.51 Q
04/12/05	47	340 Q
04/11/06	1.8	19 Q
10/04/06	38	150 Q
02/21/07	30	320 Q
04/19/07	1.9	38
07/19/07	76	100 Q
10/23/07	47	180 Q
01/14/08	51	970 Q
04/29/08	0.88 Q	10.6
08/12/08	9.2	42.3 Q
10/29/08	15.1	282
04/13/09	46.7	145
10/05/09	13.9 Q	2370
04/13/10	9.0	119 Q
10/19/10	4.9	15.1 Q
01/18/11	3.2	52.8
03/16/11	1.8	18.4

OW-9	BENZ	NAPH
02/01/00	146	1980
05/31/00	123	2960
08/31/00	294	2710
11/21/00	259	1920
04/02/02	77 Q	530
10/28/02	6.1	<11
06/16/03	8.9	35
11/20/03	100	78
07/20/04	98	110 Q
04/12/05	100	1100 Q
10/03/05	180	1700 Q
04/11/06	98	1100 Q
10/04/06	150	1800 Q
02/21/07	190	1200 Q
04/19/07	130 Q	3100
07/19/07	150 Q	1700 Q
10/22/07	88 Q	3600 Q
01/14/08	190	4500
04/29/08	144	2910
08/12/08	134	1630
10/29/08	349	1950
04/13/09	448	1650
10/05/09	358	2560
04/13/10	252	2370 Q
10/19/10	137	3720 Q
01/20/11	227	114
03/17/11	210	2220

OW-20	BENZ	NAPH
01/20/11	<0.39	0.016 Q
03/17/11	<0.41	0.085

OW-18	BENZ	NAPH
01/20/11	0.48 Q	0.022 Q
03/16/11	1.2	0.025 Q

TW-2	BENZ	NAPH
10/30/08	<0.23	0.016 Q
04/13/09	<0.23	<0.016
10/05/09	<0.23	0.15
04/13/10	<0.39	0.075 Q
10/19/10	<0.41	0.026 Q
01/19/11	<0.39	0.0097 Q
03/16/11	<0.41	0.011 Q

OW-21	BENZ	NAPH
01/20/11	<0.39	0.015 Q
03/16/11	<0.41	0.01 Q

TW-1	BENZ	NAPH
10/30/08	<0.23	<0.016
04/13/09	<0.23	<0.016
10/05/09	<0.23	0.54
04/14/10	<0.39	0.11 Q
10/20/10	<0.41	0.012 Q
01/20/11	<0.39	0.014 Q
03/17/11	<0.41	0.034 Q

LEGEND

- OW-1 — WATER TABLE OBSERVATION WELL
- OW-9 /PZ-9B — WATER TABLE OBSERVATION WELL/NESTED MONITORING WELL
- PZ-14B
- OW-17 — WELL LOCATION (2007)
- P-5B — PIEZOMETER
- OW-19 — WELL LOCATION (2011)
- OW-7A — WELL WITH HISTORICAL EXCEEDANCES
- TW1 — TEMPORARY WELL (2008)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
- STM — STORM SEWER
- MGP — MANUFACTURED GAS PLANT
- FORMER BUILDINGS
- FORMER MGP PROCESS STRUCTURES
- FORMER RAILROAD

SAMPLE LOCATION	BEN	NAPH
SAMPLE DATE	BENZENE (µg/L)	NAPHTHALENE (µg/L)
GROUNDWATER QUALITY STANDARDS		
MAXIMUM CONTAMINANT LEVEL (MCL)	5	NS
NR140 ENFORCEMENT STANDARD (ES)	5	100

ns = STANDARD HAS NOT BEEN ESTABLISHED
na = NOT ANALYZED
µg/L = MICROGRAMS PER LITER

SOURCE NOTES:

THIS MAP WAS DEVELOPED FROM DRAWINGS BY SIMON HYDRO-SEARCH, DATED 02/11/94, DRAWING NO. 3075-d8 AND DRAWING NO. 3075-d2, DATED 11/15/93, PROJECT 304533075, A MAP FROM THE CITY OF STEVENS POINT, DRAWING E2 M-1461, DATE UNKNOWN, A MAP FROM THE CITY OF STEVENS POINT, DRAWING A-3 M-1456, DATED 1986, AND DRAWINGS FROM WISCONSIN PUBLIC SERVICE CORP., WSK509.DWG AND STPTGAS.DWG. GAS LINE TAKEN FROM WSK509.DWG AND ABANDONED GAS LINE TAKEN FROM WPSC W.O. 0013098081, STEVENS POINT AREA MAP NO. 2106-252. ALL LOCATIONS INCLUDING UTILITIES ARE APPROXIMATE.

A SURVEY FROM WPSC DATED JANUARY 31, 2000 LOCATED WELLS AND BORINGS SB-207 THROUGH SB-216 INSTALLED JANUARY 2000.

UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603-433-8500.

A SURVEY BY WPSC DATED AUGUST 15, 2007 LOCATED WELLS OW-14 THROUGH OW-17 AND BORINGS SB-309 THROUGH SB-321.

BORINGS SB-301 THROUGH SB-308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND-HELD DGPS UNIT.

TW-1 AND TW-2 SURVEYED BY WPSC ON DECEMBER 1, 2008.

OW-18 THROUGH OW-21 SURVEYED BY WPSC ON MARCH 1, 2011.

NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

N

0 100 200

SCALE IN FEET

SHALLOW GROUNDWATER QUALITY 2000-2011

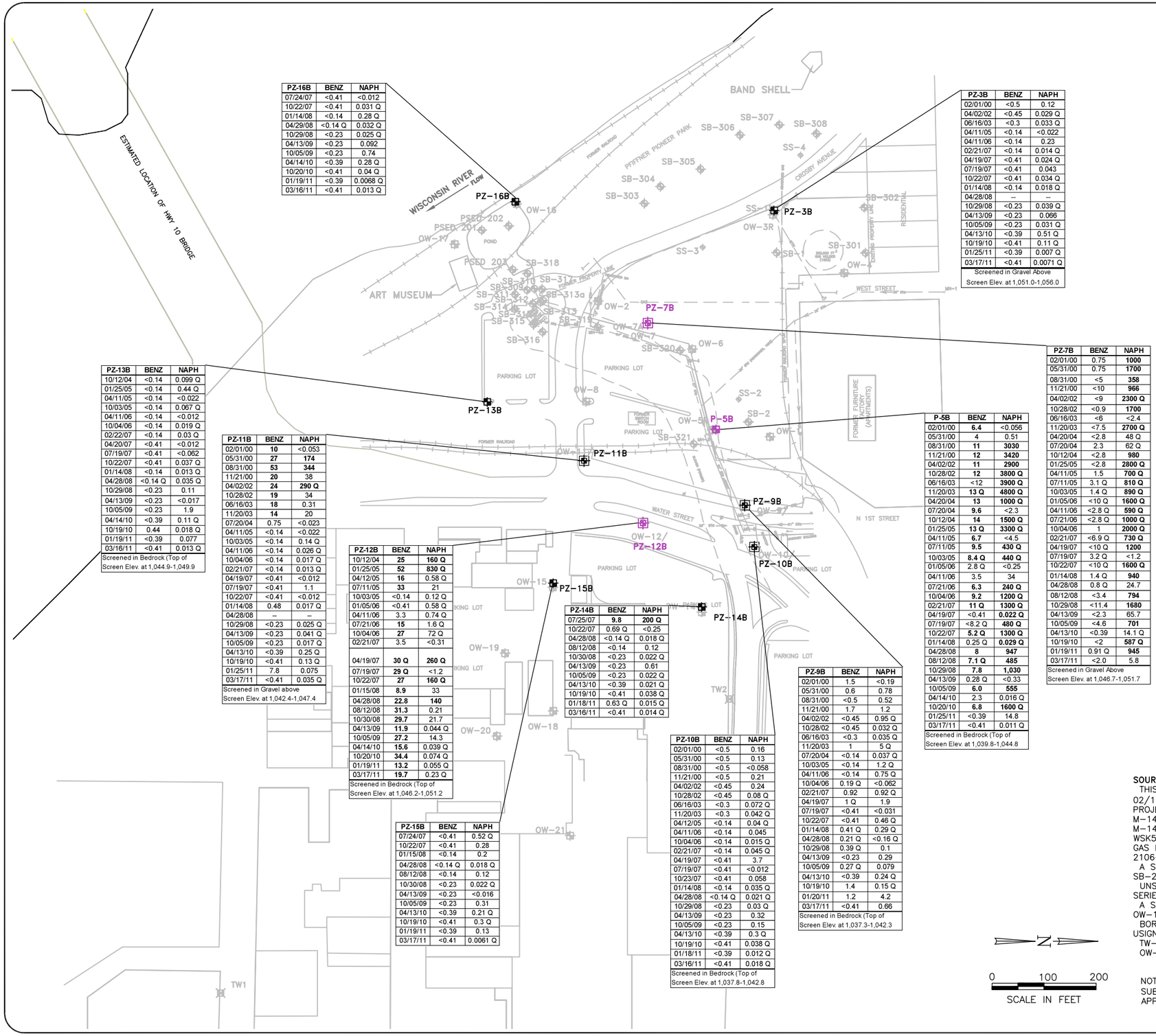
REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

DRAWN BY: KNW DATE: 05/13/11
CHECKED BY: EPK DATE: 05/24/11
APPROVED BY: EPK DATE: 05/24/11
DRAWING NO: 1177-1412C-B31C
REFERENCE: NONE

NATURAL RESOURCE TECHNOLOGY

PROJECT NO. 1177/14.12C

FIGURE NO. 28



PZ-16B	BENZ	NAPH
07/24/07	<0.41	<0.012
10/22/07	<0.41	0.031 Q
01/14/08	<0.14	0.28 Q
04/29/08	<0.14 Q	0.032 Q
10/29/08	<0.23	0.025 Q
04/13/09	<0.23	0.092
10/05/09	<0.23	0.74
04/14/10	<0.39	0.28 Q
10/20/10	<0.41	0.04 Q
01/19/11	<0.39	0.0068 Q
03/16/11	<0.41	0.013 Q

PZ-3B	BENZ	NAPH
02/01/00	<0.5	0.12
04/02/02	<0.45	0.029 Q
06/16/03	<0.3	0.033 Q
04/11/05	<0.14	<0.022
04/11/06	<0.14	0.23
02/21/07	<0.14	0.014 Q
04/19/07	<0.41	0.024 Q
07/19/07	<0.41	0.043
10/22/07	<0.41	0.034 Q
01/14/08	<0.14	0.018 Q
04/28/08	–	–
10/29/08	<0.23	0.039 Q
04/13/09	<0.23	0.086
10/05/09	<0.23	0.031 Q
04/13/10	<0.39	0.51 Q
10/19/10	<0.41	0.11 Q
01/25/11	<0.39	0.007 Q
03/17/11	<0.41	0.0071 Q
Screened in Gravel Above		
Screen Elev. at 1,051.0-1,056.0		

PZ-13B	BENZ	NAPH
10/12/04	<0.14	0.099 Q
01/25/05	<0.14	0.44 Q
04/11/05	<0.14	<0.022
10/03/05	<0.14	0.067 Q
04/11/06	<0.14	<0.012
10/04/06	<0.14	0.019 Q
02/22/07	<0.14	0.03 Q
04/20/07	<0.41	<0.012
07/19/07	<0.41	<0.062
10/22/07	<0.41	0.037 Q
01/14/08	<0.14	0.013 Q
04/28/08	<0.14 Q	0.035 Q
10/29/08	<0.23	0.11
04/13/09	<0.23	<0.017
10/05/09	<0.23	1.9
04/14/10	<0.39	0.11 Q
10/19/10	0.44	0.018 Q
01/19/11	<0.39	0.077
03/16/11	<0.41	0.013 Q
Screened in Bedrock (Top of		
Screen Elev. at 1,044.9-1,049.9		

PZ-11B	BENZ	NAPH
02/01/00	**10**	<0.053
05/31/00	**27**	**174**
08/31/00	**53**	**344**
11/21/00	**20**	38
04/02/02	**24**	**290 Q**
10/28/02	**19**	34
06/16/03	**18**	0.31
11/20/03	**14**	20
07/20/04	0.75	<0.023
04/11/05	<0.14	<0.022
10/03/05	<0.14	0.14 Q
04/11/06	<0.14	0.026 Q
10/04/06	<0.14	0.017 Q
02/21/07	<0.14	0.013 Q
04/19/07	<0.41	<0.012
07/19/07	<0.41	1.1
10/22/07	<0.41	<0.012
01/14/08	0.48	0.017 Q
04/28/08	–	–
10/29/08	<0.23	0.025 Q
04/13/09	<0.23	0.041 Q
10/05/09	<0.23	0.017 Q
04/13/10	<0.39	0.25 Q
10/19/10	<0.41	0.13 Q
01/25/11	7.8	0.075
03/17/11	<0.41	0.035 Q
Screened in Gravel above		
Screen Elev. at 1,042.4-1,047.4		

PZ-12B	BENZ	NAPH
10/12/04	**25**	**160 Q**
01/25/05	**52**	**830 Q**
04/12/05	**16**	0.58 Q
07/11/05	**33**	21
10/03/05	<0.14	0.12 Q
01/05/06	<0.41	0.58 Q
04/11/06	3.3	0.74 Q
07/21/06	**15**	1.6 Q
10/04/06	**27**	72 Q
02/21/07	3.5	<0.31
04/19/07	**30 Q**	**260 Q**
07/19/07	**29 Q**	<1.2
10/22/07	**27**	**160 Q**
01/15/08	**8.9**	33
04/28/08	**22.8**	**140**
08/12/08	**31.3**	0.21
10/30/08	**29.7**	21.7
04/13/09	**11.9**	0.044 Q
10/05/09	**27.2**	14.3
04/14/10	**15.6**	0.039 Q
10/20/10	**34.4**	0.074 Q
01/19/11	**13.2**	0.055 Q
03/17/11	**19.7**	0.23 Q
Screened in Bedrock (Top of		
Screen Elev. at 1,046.2-1,051.2		

PZ-14B	BENZ	NAPH
07/25/07	**9.8**	**200 Q**
10/22/07	0.69 Q	<0.25
04/28/08	<0.14 Q	0.018 Q
08/12/08	<0.14	0.12
10/30/08	<0.23	0.022 Q
04/13/09	<0.23	0.61
10/05/09	<0.23	0.022 Q
04/13/10	<0.39	0.021 Q
10/19/10	<0.41	0.038 Q
01/18/11	0.63 Q	0.015 Q
03/16/11	<0.41	0.014 Q

PZ-15B	BENZ	NAPH
07/24/07	<0.41	0.52 Q
10/22/07	<0.41	0.28
01/15/08	<0.14	0.2
04/28/08	<0.14 Q	0.018 Q
08/12/08	<0.14	0.12
10/30/08	<0.23	0.022 Q
04/13/09	<0.23	<0.016
10/05/09	<0.23	0.31
04/13/10	<0.39	0.21 Q
10/19/10	<0.41	0.3 Q
01/19/11	<0.39	0.13
03/17/11	<0.41	0.0061 Q

PZ-10B	BENZ	NAPH
02/01/00	<0.5	0.16
05/31/00	<0.5	0.13
08/31/00	<0.5	<0.058
11/21/00	<0.5	0.21
04/02/02	<0.45	0.24
10/28/02	<0.45	0.08 Q
06/16/03	<0.3	0.072 Q
11/20/03	<0.3	0.042 Q
04/12/05	<0.14	0.04 Q
04/11/06	<0.14	0.045
10/04/06	<0.14	0.015 Q
02/21/07	<0.14	0.045 Q
04/19/07	<0.41	3.7
07/19/07	<0.41	<0.012
10/23/07	<0.41	0.058
01/14/08	<0.14	0.035 Q
04/28/08	<0.14 Q	0.021 Q
10/29/08	<0.23	0.03 Q
04/13/09	<0.23	0.32
10/05/09	<0.23	0.15
04/13/10	<0.39	0.3 Q
10/19/10	<0.41	0.038 Q
01/18/11	<0.39	0.012 Q
03/16/11	<0.41	0.018 Q
Screened in Bedrock (Top of		
Screen Elev. at 1,037.8-1,042.8		

P-5B	BENZ	NAPH
02/01/00	**6.4**	<0.056
05/31/00	**4**	0.51
08/31/00	**11**	**3030**
11/21/00	**12**	**3420**
04/02/02	**11**	**2900**
10/28/02	**12**	**3800 Q**
06/16/03	<12	**3900 Q**
11/20/03	**13 Q**	**4800 Q**
04/20/04	**13**	**1000 Q**
07/20/04	**9.6**	<2.3
10/12/04	**14**	**1500 Q**
01/25/05	**13 Q**	**3300 Q**
04/11/05	**6.7**	<4.5
07/11/05	**9.5**	**430 Q**
10/03/05	**8.4 Q**	**440 Q**
01/05/06	2.8 Q	<0.25
04/11/06	3.5	34
07/21/06	**6.3**	**240 Q**
10/04/06	**9.2**	**1200 Q**
02/21/07	**11 Q**	**1300 Q**
04/19/07	<0.41	**0.022 Q**
07/19/07	<8.2 Q	**480 Q**
10/22/07	**5.2 Q**	**1300 Q**
01/14/08	0.25 Q	**0.029 Q**
04/28/08	**8**	**947**
08/12/08	**7.1 Q**	**485**
10/29/08	**7.8**	**1,030**
04/13/09	0.28 Q	<0.33
10/05/09	**6.0**	**555**
04/14/10	2.3	0.016 Q
10/20/10	**6.8**	**1600 Q**
01/25/11	<0.39	14.8
03/17/11	<0.41	0.011 Q
Screened in Bedrock (Top of		
Screen Elev. at 1,039.8-1,044.8		

PZ-9B	BENZ	NAPH
02/01/00	1.5	<0.19
05/31/00	0.6	0.78
08/31/00	<0.5	0.52
11/21/00	1.7	1.2
04/02/02	<0.45	0.95 Q
10/28/02	<0.45	0.032 Q
06/16/03	<0.3	0.035 Q
11/20/03	1	5 Q
07/20/04	<0.14	0.037 Q
10/03/05	<0.14	1.2 Q
04/11/06	<0.14	0.75 Q
10/04/06	0.19 Q	<0.062
02/21/07	0.92	0.92 Q
04/19/07	1 Q	1.9
07/19/07	<0.41	<0.031
10/22/07	<0.41	0.46 Q
01/14/08	0.41 Q	0.29 Q
04/28/08	0.21 Q	<0.16 Q
10/29/08	0.39 Q	0.1
04/13/09	<0.23	0.29
10/05/09	0.27 Q	0.079
04/13/10	<0.39	0.24 Q
10/19/10	1.4	0.15 Q
01/20/11	1.2	4.2
03/17/11	<0.41	0.66
Screened in Bedrock (Top of		
Screen Elev. at 1,037.3-1,042.3		

PZ-7B	BENZ	NAPH
02/01/00	0.75	**1000**
05/31/00	0.75	**1700**
08/31/00	<5	**358**
11/21/00	<10	**966**
04/02/02	<9	**2300 Q**
10/28/02	<0.9	**1700**
06/16/03	<6	<2.4
11/20/03	<7.5	**2700 Q**
04/20/04	<2.8	**48 Q**
07/20/04	2.3	62 Q
10/12/04	<2.8	**980**
01/25/05	<2.8	**2800 Q**
04/11/05	1.5	**700 Q**
07/11/05	3.1 Q	**810 Q**
10/03/05	1.4 Q	**890 Q**
01/05/06	<10 Q	**1600 Q**
04/11/06	<2.8 Q	**590 Q**
07/21/06	<2.8 Q	**1000 Q**
10/04/06	1	**2000 Q**
02/21/07	<6.9 Q	**730 Q**
04/19/07	<10 Q	**1200**
07/19/07	3.2 Q	<1.2
10/22/07	<10 Q	**1600 Q**
01/14/08	1.4 Q	**940**
04/28/08	0.8 Q	24.7
08/12/08	<3.4	**794**
10/29/08	<11.4	**1680**
04/13/09	<2.3	65.7
10/05/09	<4.6	**701**
04/13/10	<0.39	14.1 Q
10/19/10	<2	**587 Q**
01/19/11	0.91 Q	**945**
03/17/11	<2.0	5.8
Screened in Gravel Above		
Screen Elev. at 1,046.7-1,051.7		

LEGEND

- OW-1 — WATER TABLE OBSERVATION WELL
- OW-9/PZ-9B — PIEZOMETER/NESTED MONITORING WELL
- SB-308 — SOIL BORING (2007)
- PZ-13B — PIEZOMETER
- PZ-7B — WELL WITH HISTORICAL EXCEEDANCES
- SS-4 — EDI SURFACE SAMPLE (1986)
- OW-19 — WELL LOCATION (2011)
- TW1 — TEMPORARY WELL (2008)
- MH-1 — STORM SEWER MANHOLE
- HYDRANT
- UTILITY POLE
- WTR — WATER LINE
- GAS — GAS LINE
- STM — STORM SEWER
- MGP — MANUFACTURED GAS PLANT
- FORMER BUILDINGS
- FORMER MGP PROCESS STRUCTURES
- FORMER RAILROAD

SAMPLE LOCATION	BEN	NAPH
SAMPLE DATE	BENZENE (µg/L)	NAPHTHALENE (µg/L)
GROUNDWATER QUALITY STANDARDS		
MAXIMUM CONTAMINANT LEVEL (MCL)	5	NS
NR140 ENFORCEMENT STANDARD (ES)	5	100

ns = STANDARD HAS NOT BEEN ESTABLISHED
na = NOT ANALYZED
µg/L = MICROGRAMS PER LITER

0 100 200
SCALE IN FEET

SOURCE NOTES:
THIS MAP WAS DEVELOPED FROM DRAWINGS BY SIMON HYDRO-SEARCH, DATED 02/11/94, DRAWING NO. 3075-d8 AND DRAWING NO. 3075-d2, DATED 11/15/93, PROJECT 304533075, A MAP FROM THE CITY OF STEVENS POINT, DRAWING E2 M-1461, DATE UNKNOWN, A MAP FROM THE CITY OF STEVENS POINT, DRAWING A-3 M-1456, DATED 1986, AND DRAWINGS FROM WISCONSIN PUBLIC SERVICE CORP., WSK509.DWG AND STPTGAS.DWG. GAS LINE TAKEN FROM WSK509.DWG AND ABANDONED GAS LINE TAKEN FROM WPSC W.O. 0013098081, STEVENS POINT AREA MAP NO. 2106-252. ALL LOCATIONS INCLUDING UTILITIES ARE APPROXIMATE.
A SURVEY FROM WPSC DATED JANUARY 31, 2000 LOCATED WELLS AND BORINGS SB-207 THROUGH SB-216 INSTALLED JANUARY 2000.
UNSURVEYED PORTION OF RIVER AND ISLAND FROM EARTHVISIONS U.S. TERRAIN SERIES © EARTHVISIONS, INC. 603-433-8500.
A SURVEY BY WPSC DATED AUGUST 15, 2007 LOCATED WELLS OW-14 THROUGH OW-17 AND BORINGS SB-309 THROUGH SB-321.
BORINGS SB-301 THROUGH SB-308 WERE LOCATED IN THE FIELD BY NRT STAFF USIGN A HAND-HELD DGPS UNIT.
TW-1 AND TW-2 SURVEYED BY WPSC ON DECEMBER 1, 2008.
OW-18 THROUGH OW-21 SURVEYED BY WPSC ON MARCH 1, 2011.

NOTES:
SUBSURFACE UTILITY LINE AND FORMER STRUCTURES/BUILDINGS LOCATIONS ARE APPROXIMATE.

DRAWN BY: KNW DATE: 05/13/11
CHECKED BY: EPK DATE: 05/24/11
APPROVED BY: EPK DATE: 05/24/11
DRAWING NO: 1177-1412C-B30C
REFERENCE: NONE

DEEP GROUNDWATER QAULITY 2000-2011

REMEDIAL INVESTIGATION REPORT
STEVENS POINT MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
STEVENS POINT, WISCONSIN

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1177/14.12C

FIGURE NO.
29

N
W E
S

West St
1St St
2Nd St
3Rd St
Meadow St
Portage St
Centerpoint Dr
Crosby Ave
Water St
Main St
Clark St

OW4 0.43 µg/L
OW3R 1.2 µg/L
OW1 0.205 µg/L
OW10 1.8 µg/L
OW5R 0.81 µg/L
TW2 0.205 µg/L
OW9 210 µg/L
OW6 3.3 µg/L
OW14 7.4 µg/L
OW7A 12.1 µg/L
OW12 5.4 µg/L
OW2 0.205 µg/L
OW8
OW11 0.205 µg/L
OW21 0.205 µg/L
OW15 0.205 µg/L
OW18 1.2 µg/L
OW16 0.205 µg/L
OW19 0.205 µg/L
OW20 0.205 µg/L
OW17 0.205 µg/L
TW1 0.205 µg/L

Monitoring Well Location
Property Boundary
River
Benzene in GW (5 µg/L)

Note: The estimated extent of concentrations exceeding the risk screening level was plotted using linear interpolation of the base 10 logarithm of the observed concentrations.

0 100 200 300 400 500 Feet

Portage County
WI

Benzene Concentration in Water Table Monitoring Wells
March 2011

Wisconsin Public Service Corporation
Former Manufactured Gas Plant, Stevens Point, Wisconsin

Natural Resource Technology

Project No. 1177
Figure No. 30

5/25/2011

Y:\GIS\Projects\1111177\MXD\GW\Shallow_GW_Quality_1103.mxd

N
W E
S

West St
1St St
2Nd St
3Rd St
Portage St
Centerpoint Dr
Crosby Ave
Water St
Main St
Clark St

OW4 11.4 µg/L
OW3R 12.2 µg/L
OW1 0.066 µg/L
OW9 2,220 µg/L
OW10 18.4 µg/L
TW2 0.011 µg/L
OW5R 0.63 µg/L
OW6 0.59 µg/L
OW14 0.21 µg/L
OW7A 52.5 µg/L
OW12 39.6 µg/L
OW11 0.074 µg/L
OW8
OW2 0.26 µg/L
OW21 0.01 µg/L
OW15 0.016 µg/L
OW18 0.025 µg/L
OW16 0.019 µg/L
OW19 0.049 µg/L
OW20 0.085 µg/L
OW17 0.027 µg/L
TW1 0.034 µg/L

Monitoring Well Location
Naphthalene in GW (100 µg/L)
Property Boundary
River

Note: The estimated extent of concentrations exceeding the risk screening level was plotted using linear interpolation of the base 10 logarithm of the observed concentrations.

0 100 200 300 400 500 Feet

Portage County
WI

Naphthalene Concentration in Water Table Monitoring Wells
March 2011

Wisconsin Public Service Corporation
Former Manufactured Gas Plant, Stevens Point, Wisconsin

Natural Resource Technology

Project No. 1177
Figure No. 31

5/25/2011

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N
W E
S

West St
1St St
2Nd St
3Rd St
Portage St
Centerpoint Dr
Water St
Main St
Clark St

Monitoring Well Location
Property Boundary
River
Benzene in GW (5 µg/L)
Naphthalene in GW (100 µg/L)

OW4
Dissolved Iron 15,800 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 2.3 mg/L

OW1
Dissolved Iron 11,800 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 101 mg/L

OW9
Dissolved Iron 17,500 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 4.6 mg/L

OW5R
Dissolved Iron 21,700 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 108 mg/L

OW3R
Dissolved Iron 14,500 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 38.2 mg/L

OW10
Dissolved Iron 10,500 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 192 mg/L

TW2
Dissolved Iron 17.4 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 20 mg/L

OW6
Dissolved Iron 8,210 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 2.3 mg/L

OW14
Dissolved Iron 1,340 µg/L
NO2 plus NO3 0.93 mg/L
Total Sulfate 17.5 mg/L

OW7A
Dissolved Iron 8,890 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 2.1 mg/L

OW12
Dissolved Iron 15,500 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 2 mg/L

OW2
Dissolved Iron 10,600 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 2.6 mg/L

OW8

OW15
Dissolved Iron 95.4 µg/L
NO2 plus NO3 2.3 mg/L
Total Sulfate 13.2 mg/L

OW18
Dissolved Iron 6,180 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 3.4 mg/L

OW21
Dissolved Iron 4.15 µg/L
NO2 plus NO3 2.9 mg/L
Total Sulfate 19.6 mg/L

OW16
Dissolved Iron 12,300 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 5 mg/L

OW11
Dissolved Iron 16,700 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 6.7 mg/L

OW17
Dissolved Iron 4,240 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 3.9 mg/L

OW19
Dissolved Iron 27,400 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 10.5 mg/L

OW20
Dissolved Iron 40 µg/L
NO2 plus NO3 0.39 mg/L
Total Sulfate 8.4 mg/L

TW1
Dissolved Iron 4.15 µg/L
NO2 plus NO3 0.06 mg/L
Total Sulfate 18.2 mg/L

0 100 200 300 400 500 Feet

Iron, Nitrate, and Sulfate in Water Table Wells
March 2011

Wisconsin Public Service Corporation
Former Manufactured Gas Plant, Stevens Point, Wisconsin

NATURAL RESOURCE TECHNOLOGY

Project No. 1177
Figure No. 32

5/25/2011

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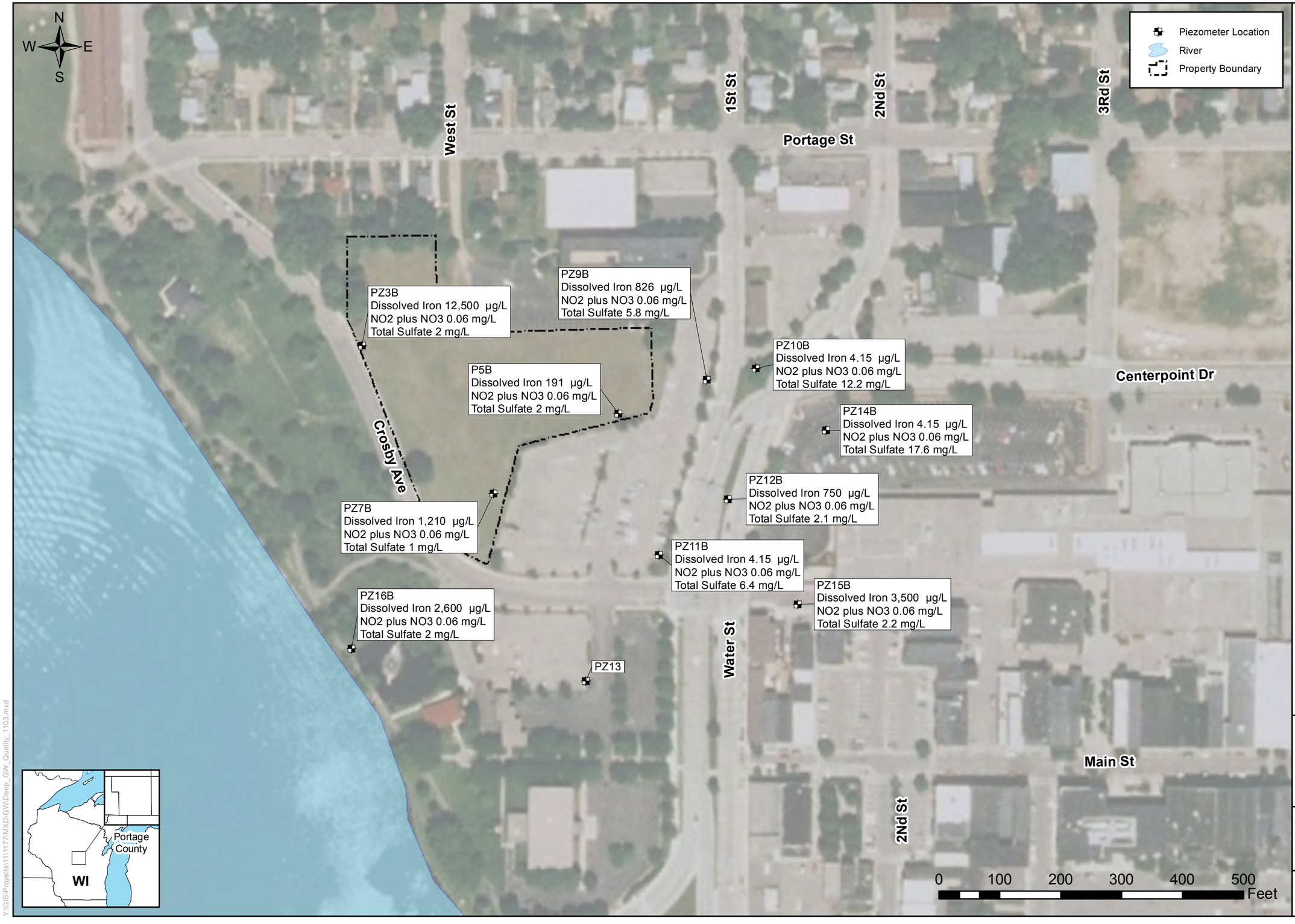
Iron, Nitrate, and Sulfate in Piezometers
March 2011
Wisconsin Public Service Corporation
Former Manufactured Gas Plant, Stevens Point, Wisconsin



NATURAL RESOURCE TECHNOLOGY

Project No. 1177
Figure No. 33

5/25/2011

Y:\GIS\Projects\1\1177\MXD\GWDeep_GW_Quality_1103.mxd

N
W E
S

West St
1St St
2Nd St
3Rd St
Portage St
Centerpoint Dr
Crosby St
Water St
2Nd St
Main St
Clark St
Clark St

OW4
DO 0.55 mg/L
ORP -70 mV

OW1
DO 0.26 mg/L
ORP -41 mV

OW3R
DO 0.01 mg/L
ORP -60 mV

OW5R
DO 0.88 mg/L
ORP -43 mV

OW6
DO 0.07 mg/L
ORP -19 mV

OW7A
DO 0 mg/L
ORP -29 mV

OW2
DO 0.22 mg/L
ORP -39 mV

OW8

OW11
DO 0.18 mg/L
ORP -98 mV

OW16
DO 0.35 mg/L
ORP -59 mV

OW17
DO 0 mg/L
ORP -62 mV

OW9
DO 0.09 mg/L
ORP -60 mV

OW10
DO 0.21 mg/L
ORP -98 mV

TW2
DO 0.03 mg/L
ORP 8 mV

OW14
DO 0.55 mg/L
ORP -21 mV

OW12
DO 5.43 mg/L
ORP -87 mV

OW15
DO 2.33 mg/L
ORP 66 mV

OW18
DO 1.12 mg/L
ORP -110 mV

OW21
DO 0.05 mg/L
ORP 70 mV

OW20
DO 0.3 mg/L
ORP -15 mV

OW19
DO 0.57 mg/L
ORP -100 mV

TW1
DO 0.2 mg/L
ORP 57 mV

Monitoring Well Location
Property Boundary
River
Benzene in GW (5 µg/L)
Naphthalene in GW (100 µg/L)

0 100 200 300 400 500 Feet

Portage County
WI

Y:\GIS\Projects\11\1177\MXD\GWShallow_GW_Quality_1103.mxd

Dissolved Oxygen and Oxidation Reduction Potential in Water Table Wells - March 2011

Wisconsin Public Service Corporation
Former Manufactured Gas Plant, Stevens Point, Wisconsin

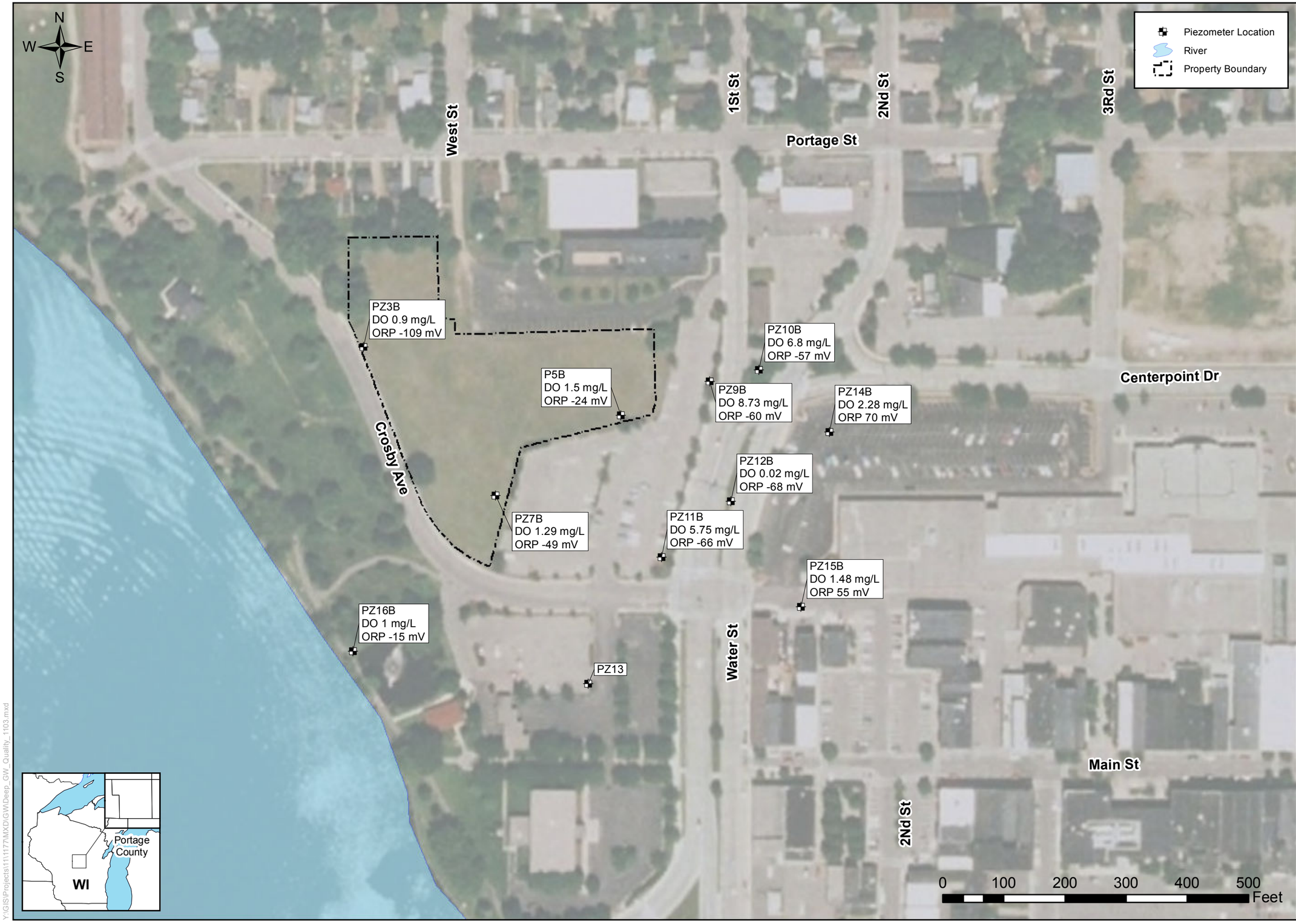
NATURAL RESOURCE TECHNOLOGY

Project No. 1177
Figure No. 34

5/25/2011

Dissolved Oxygen and Oxidation Reduction Potential in Piezometers - March 2011

Wisconsin Public Service Corporation
Former Manufactured Gas Plant, Stevens Point, Wisconsin



NATURAL RESOURCE TECHNOLOGY

Project No. 1177
Figure No. 35

5/25/2011

Y:\GIS\Projects\1111177\MXD\GW\Deep_GW_Quality_1103.mxd

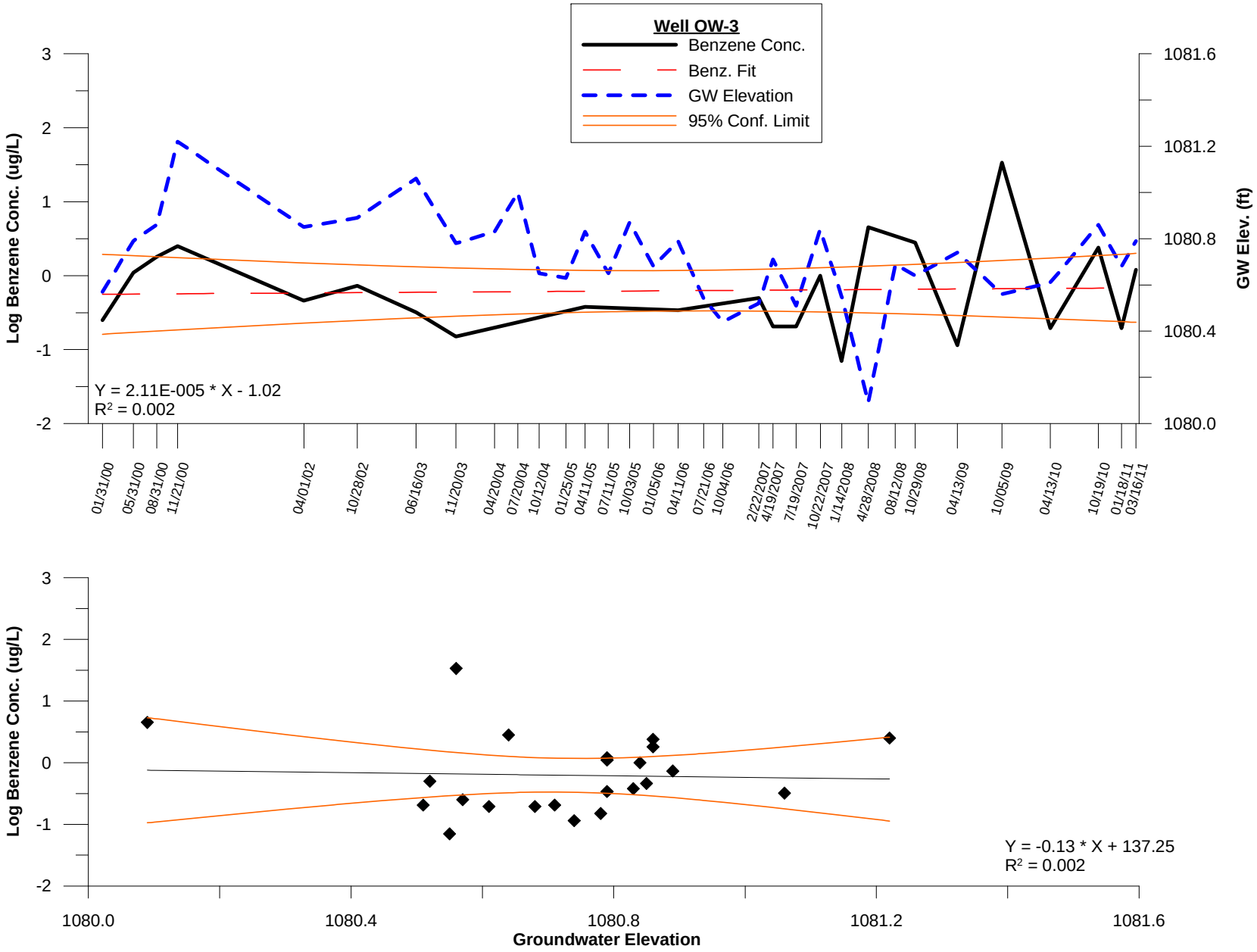
Attachment 3

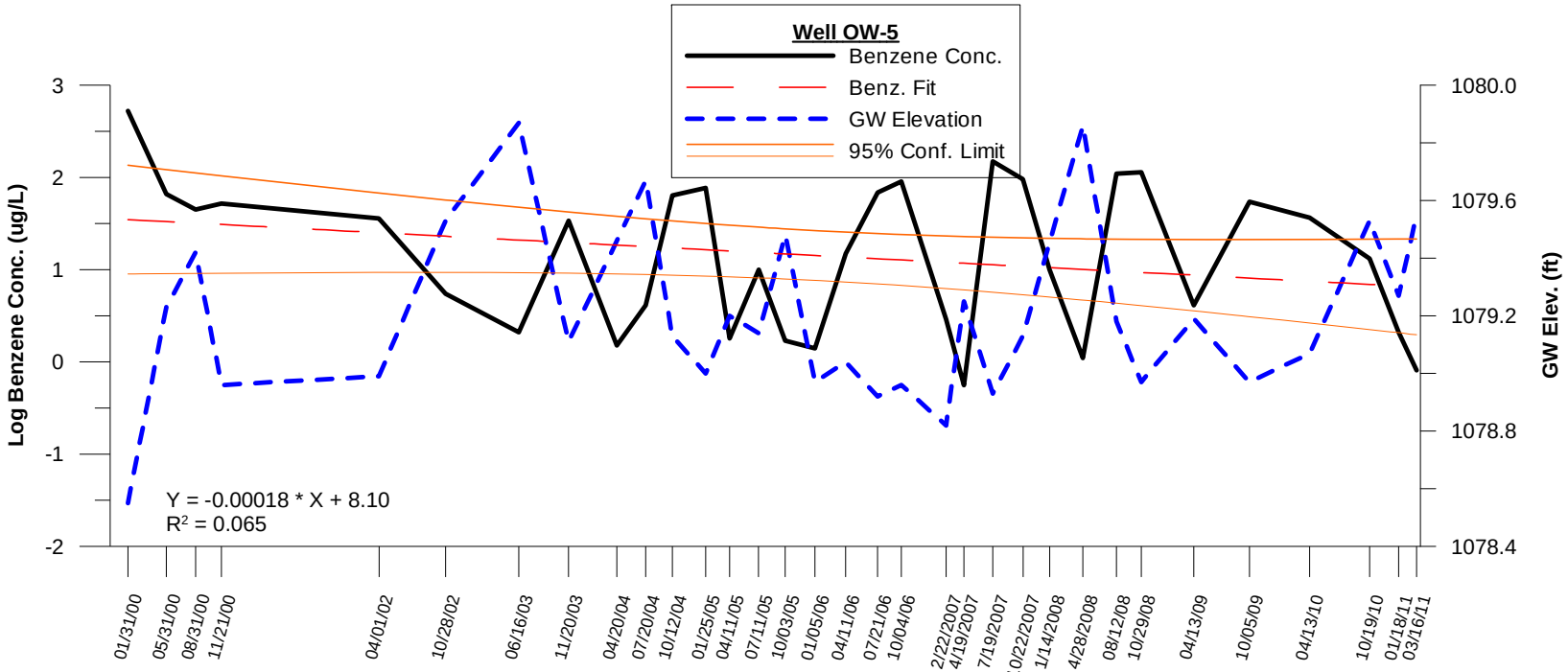
Stevens Point RI Report Revision 1

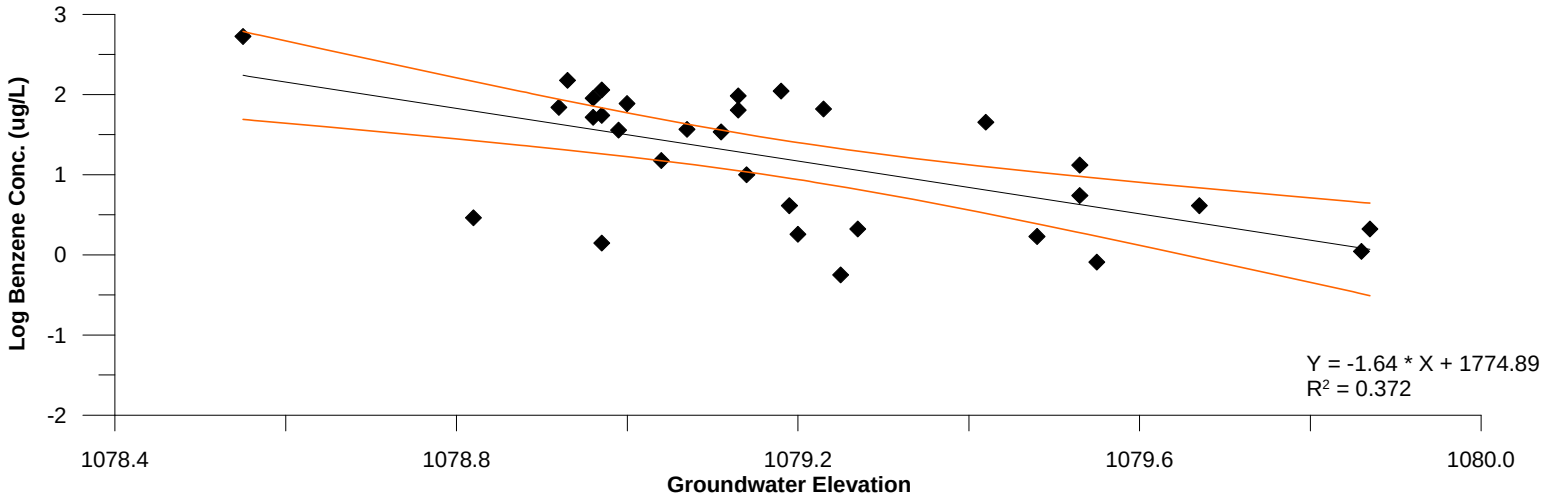
(Appendix N)

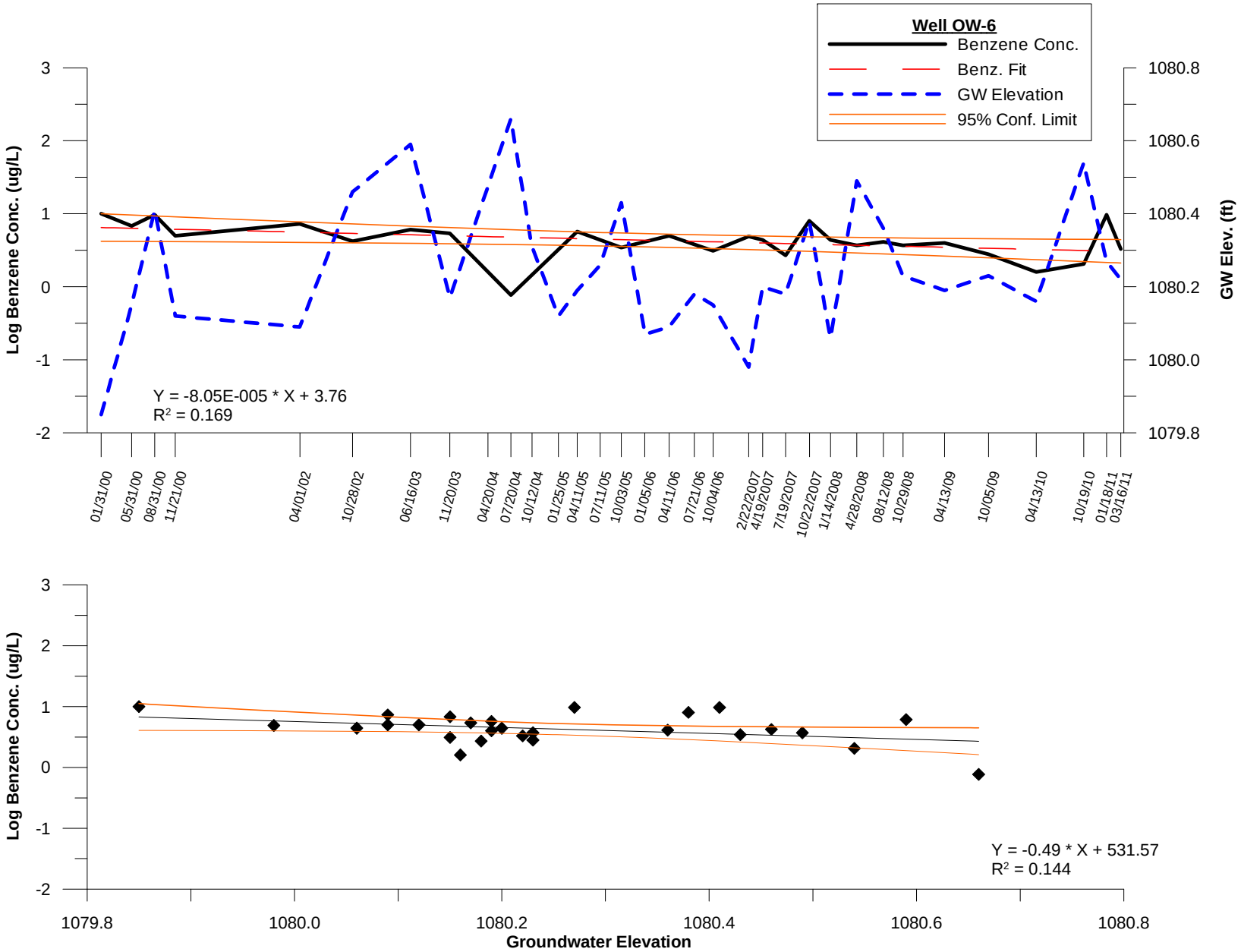
APPENDIX N

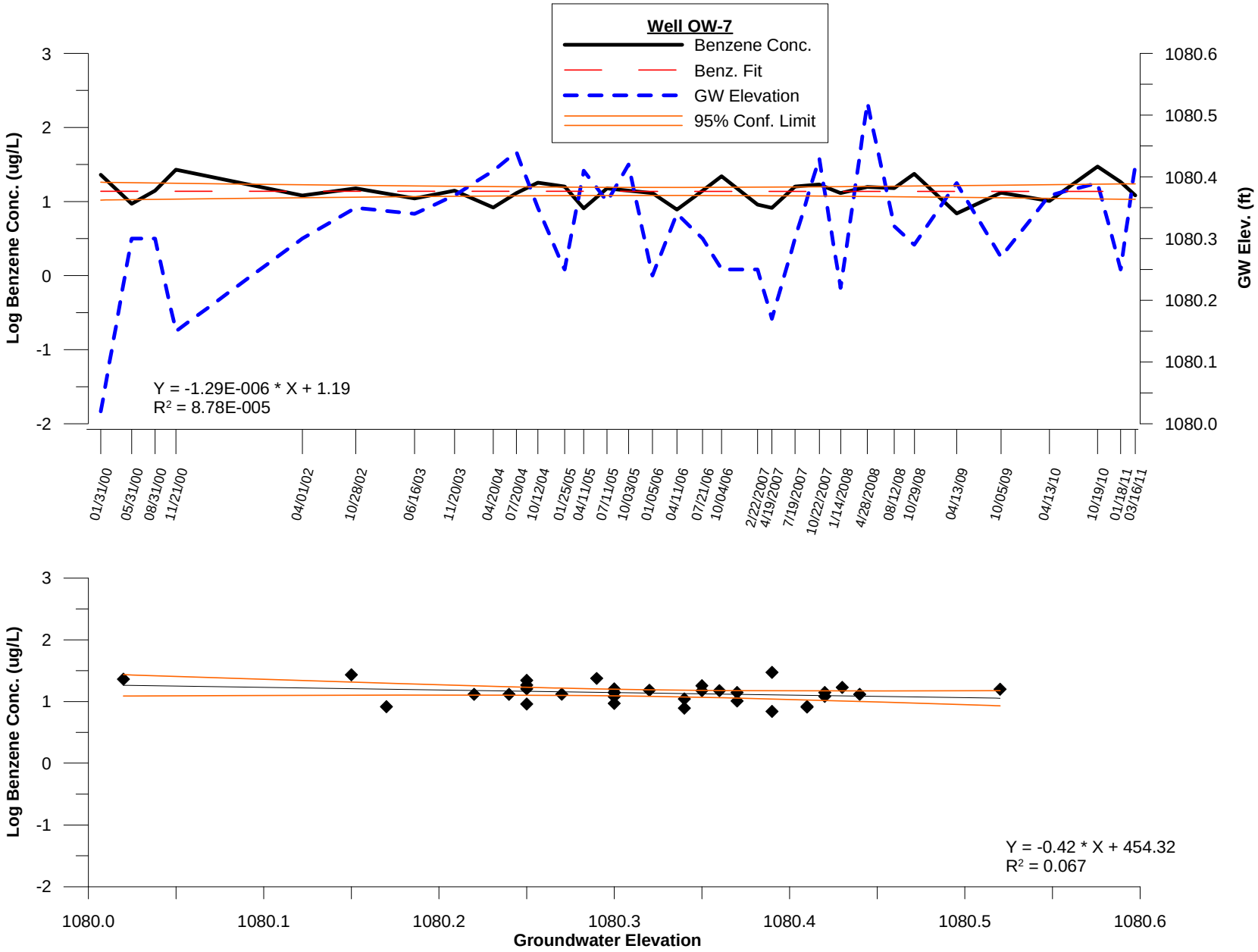
BENZENE AND NAPHTHALENE GROUNDWATER CONCENTRATION TREND PLOTS/REGRESSION ANALYSES, MANN-KENDALL RESULTS, AND MNA PLOTS

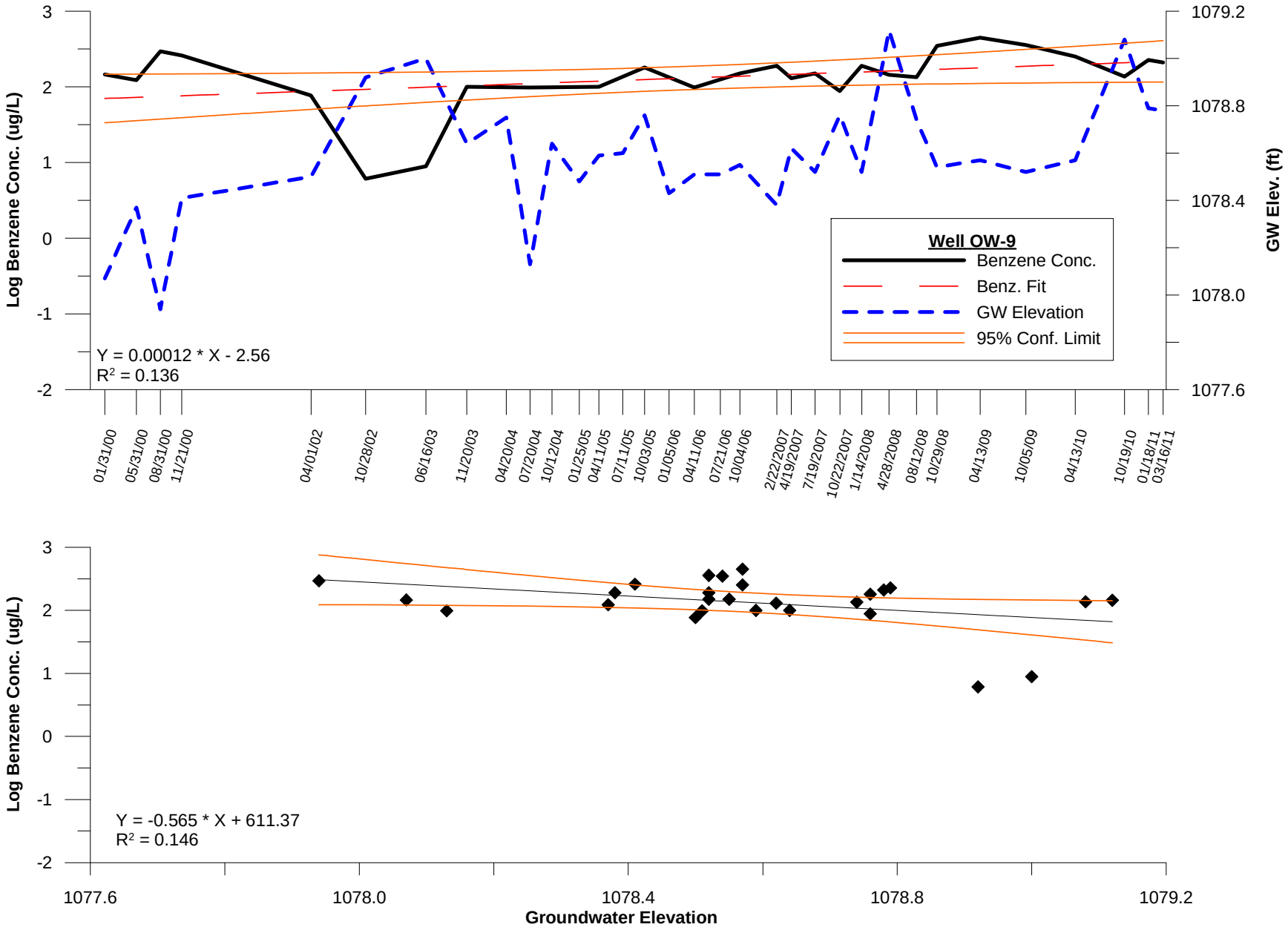

Well OW-3
Benzene Conc.
Benz. Fit
GW Elevation
95% Conf. Limit
Log Benzene Conc. (ug/L)
GW Elev. (ft)
Y = 2.11E-005 * X - 1.02
R² = 0.002
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Y = -0.13 * X + 137.25
R² = 0.002
Groundwater Elevation

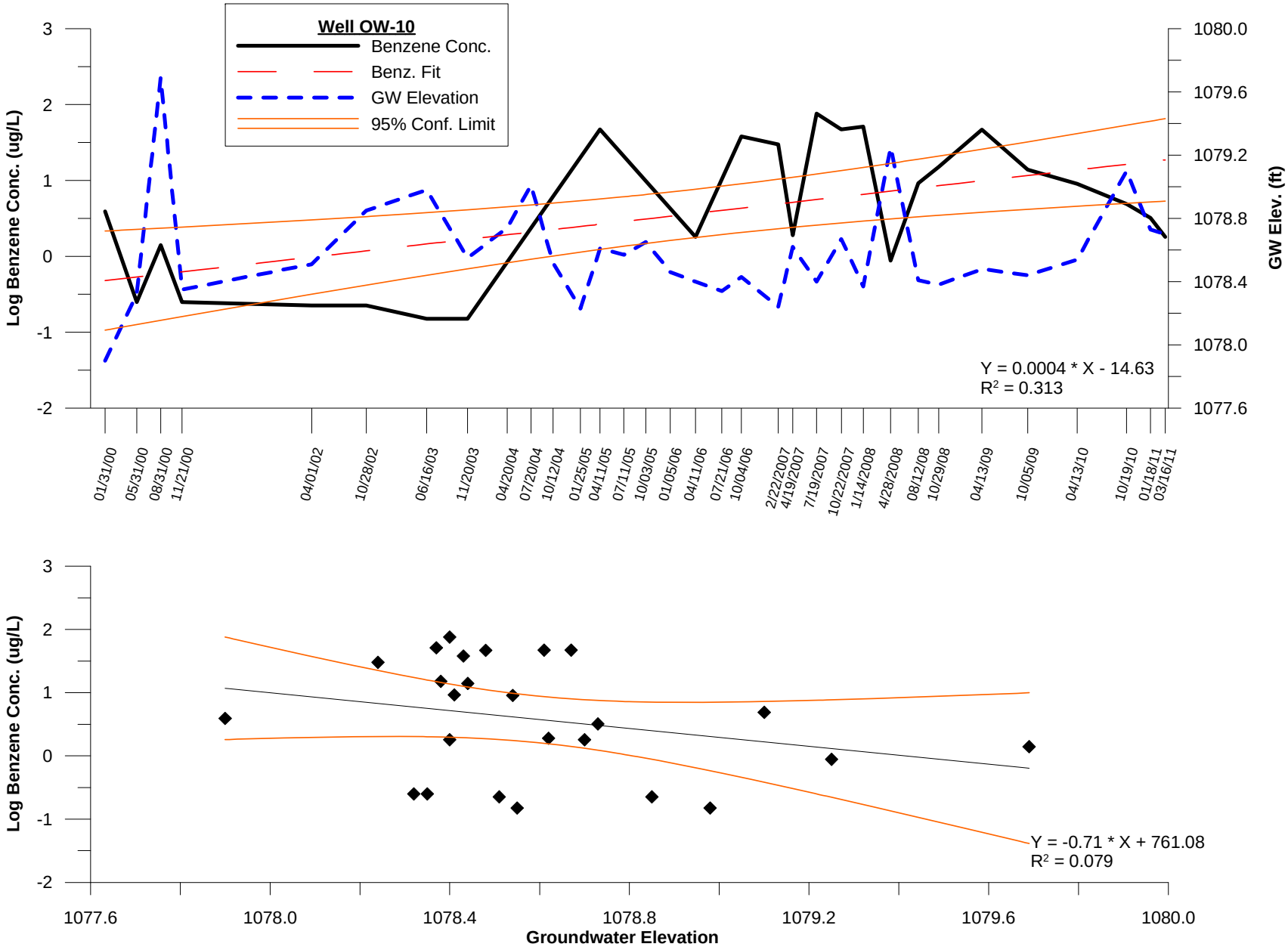

Well OW-5
Benzene Conc.
Benz. Fit
GW Elevation
95% Conf. Limit
Log Benzene Conc. (ug/L)
GW Elev. (ft)
Y = -0.00018 * X + 8.10
R² = 0.065
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11

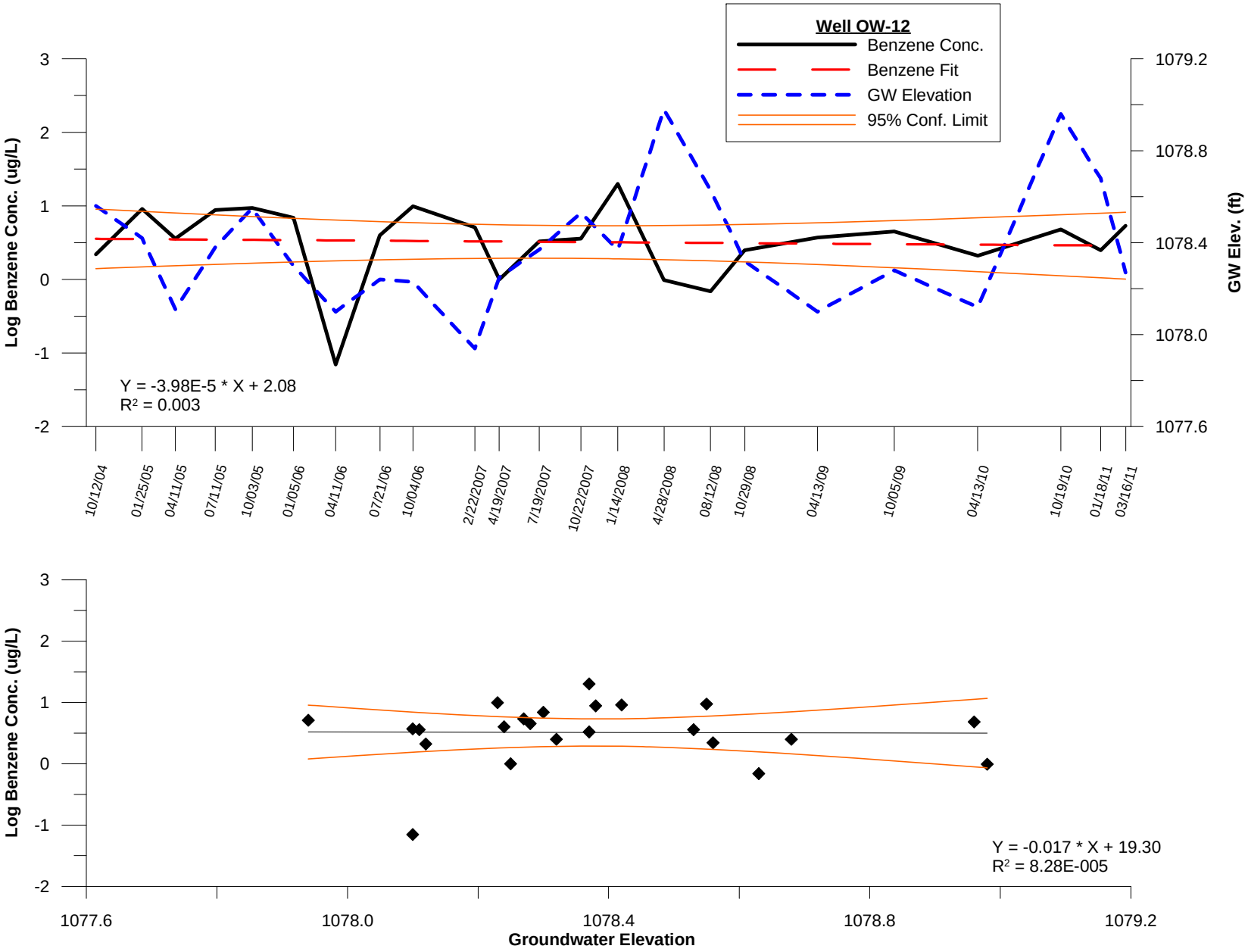

Log Benzene Conc. (ug/L)
Y = -1.64 * X + 1774.89
R² = 0.372
Groundwater Elevation

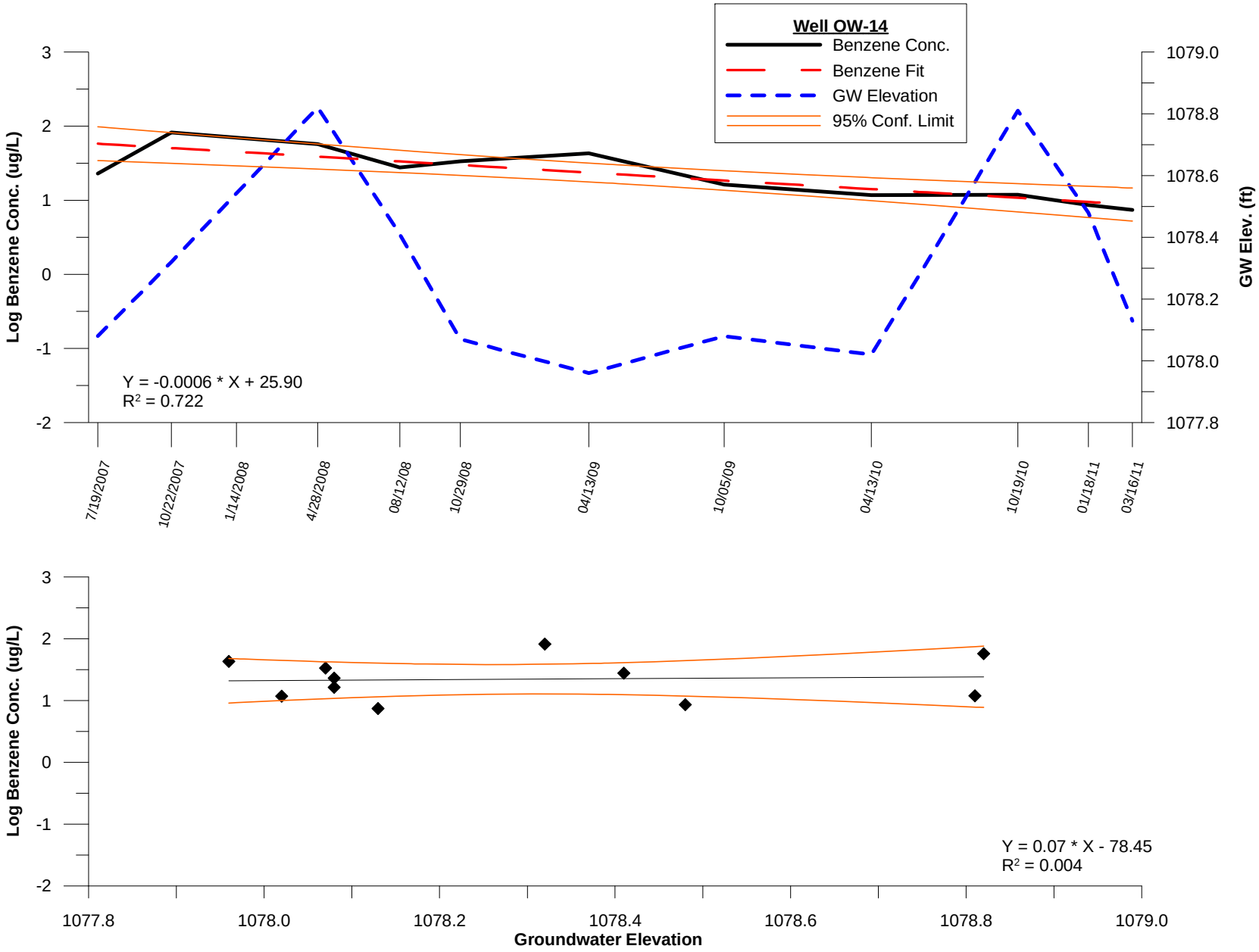

Well OW-6
Benzene Conc.
Benz. Fit
GW Elevation
95% Conf. Limit
Log Benzene Conc. (ug/L)
GW Elev. (ft)
Y = -8.05E-005 * X + 3.76
R² = 0.169
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Log Benzene Conc. (ug/L)
Y = -0.49 * X + 531.57
R² = 0.144
Groundwater Elevation

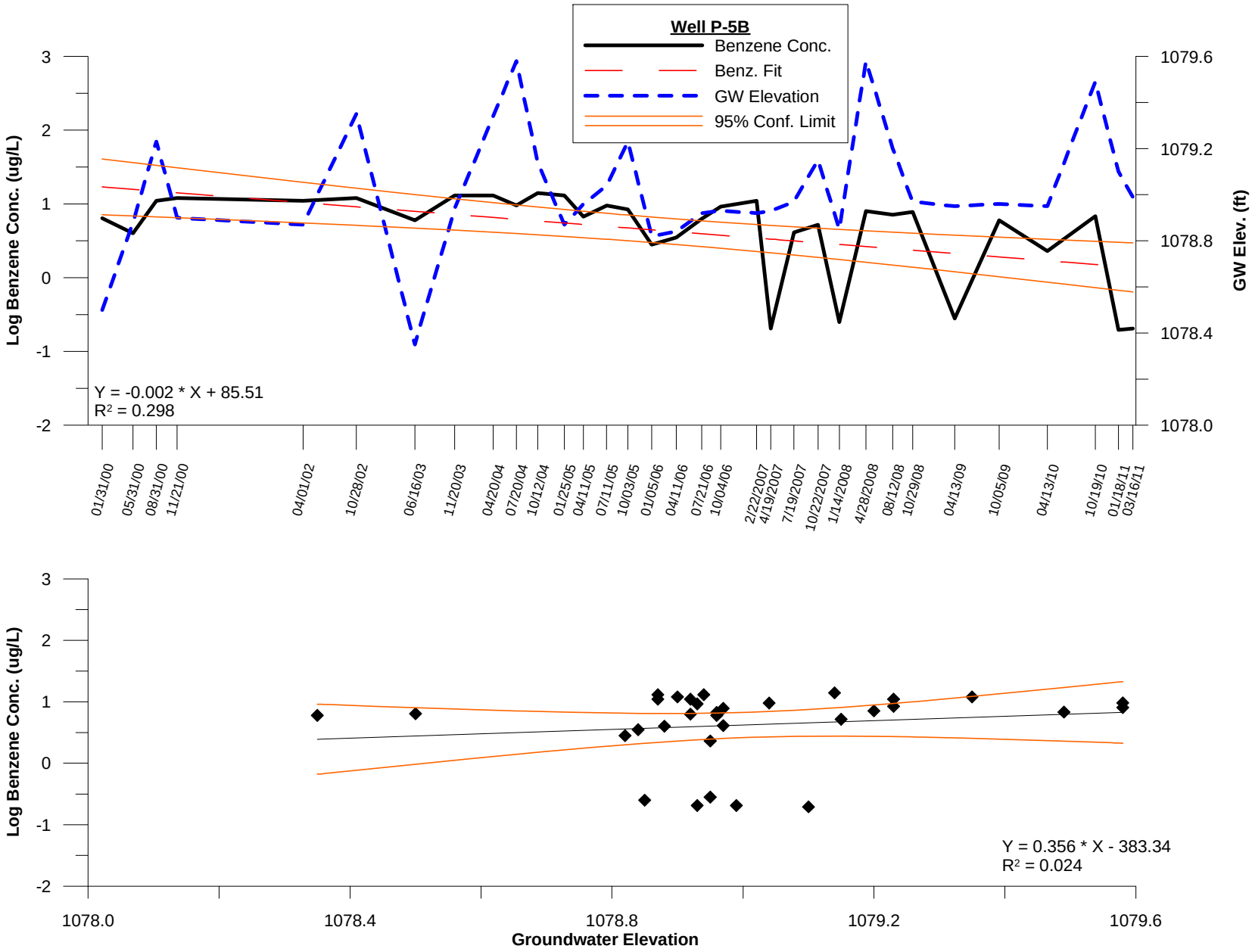

Well OW-7
Benzene Conc.
Benz. Fit
GW Elevation
95% Conf. Limit
Log Benzene Conc. (ug/L)
GW Elev. (ft)
Y = -1.29E-006 * X + 1.19
R² = 8.78E-005
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Log Benzene Conc. (ug/L)
Y = -0.42 * X + 454.32
R² = 0.067
Groundwater Elevation

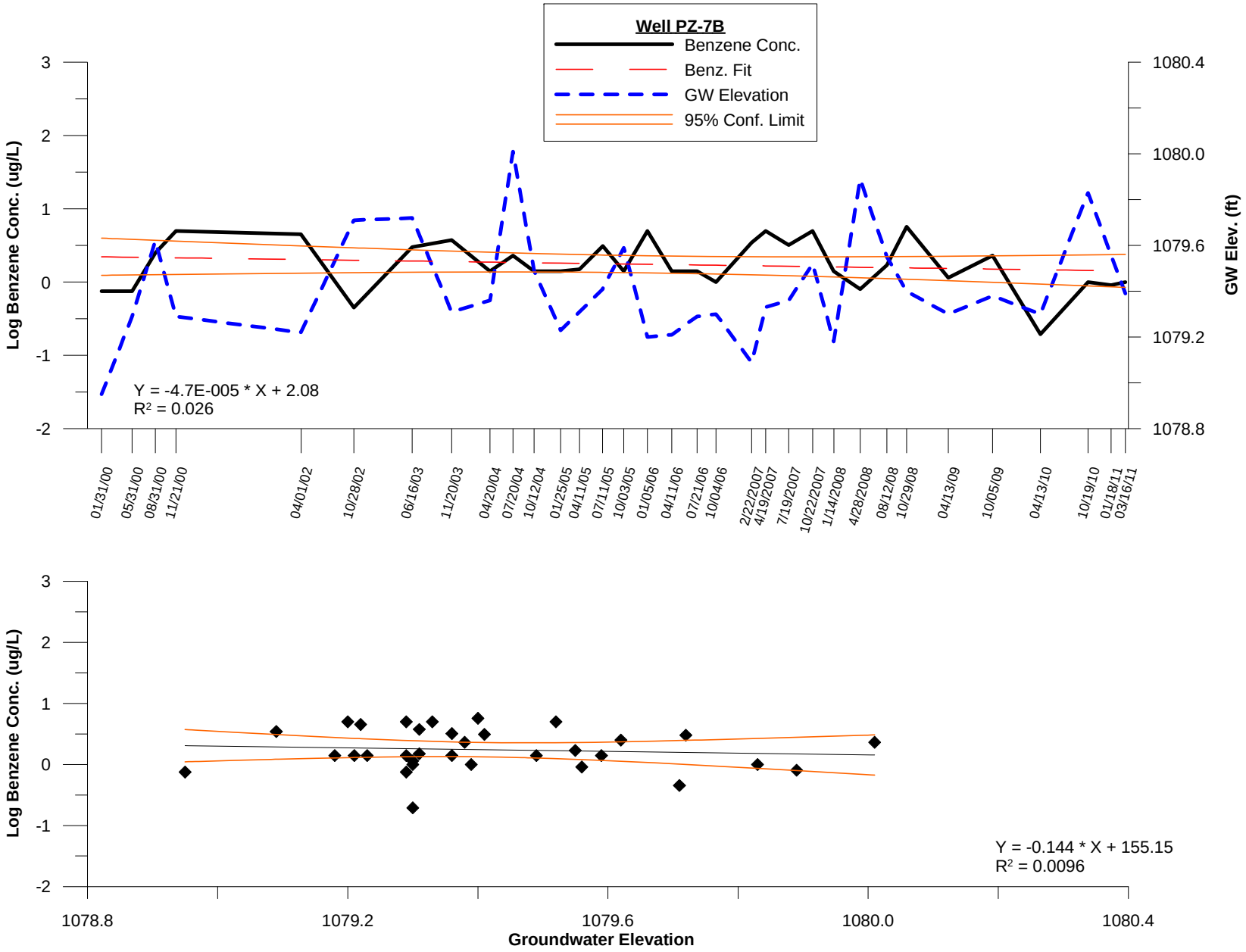

Log Benzene Conc. (ug/L)
GW Elev. (ft)
Well OW-9
Benzene Conc.
Benz. Fit
GW Elevation
95% Conf. Limit
Y = 0.00012 * X - 2.56
R² = 0.136
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Log Benzene Conc. (ug/L)
Y = -0.565 * X + 611.37
R² = 0.146
Groundwater Elevation

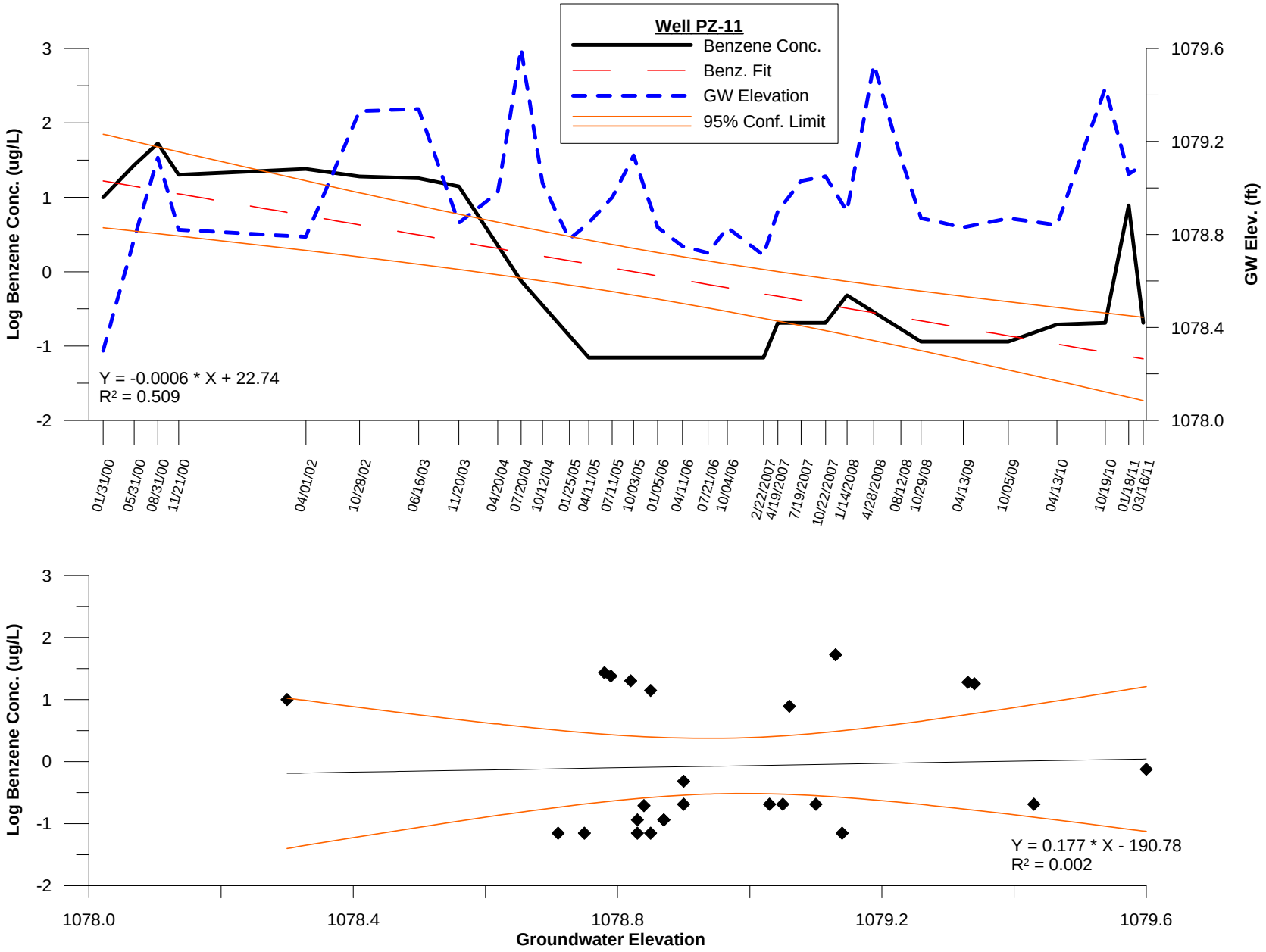

Well OW-10
Benzene Conc.
Benz. Fit
GW Elevation
95% Conf. Limit
Log Benzene Conc. (ug/L)
GW Elev. (ft)
Y = 0.0004 * X - 14.63
R² = 0.313
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Log Benzene Conc. (ug/L)
Y = -0.71 * X + 761.08
R² = 0.079
Groundwater Elevation

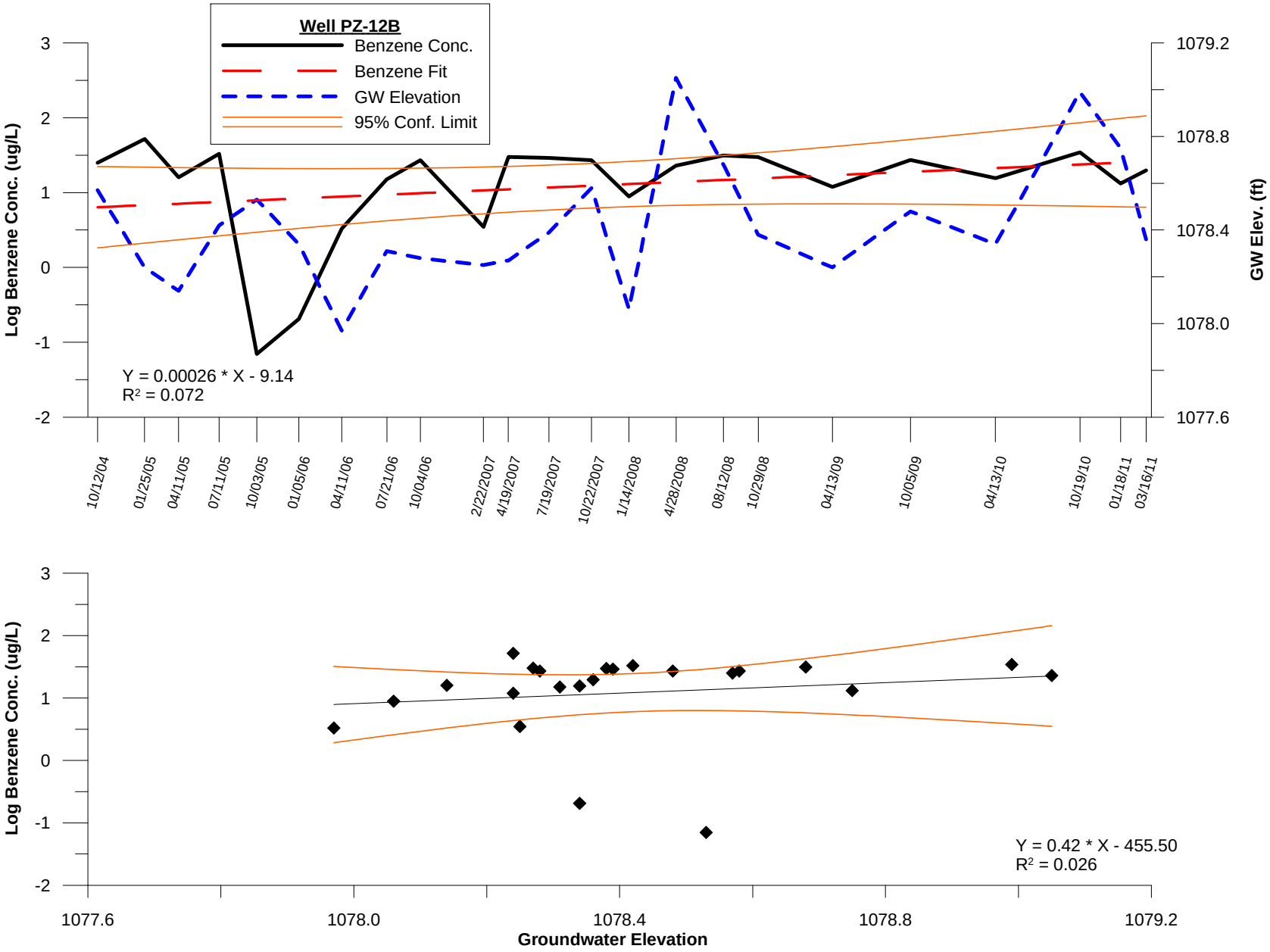

Well OW-12
Benzene Conc.
Benzene Fit
GW Elevation
95% Conf. Limit
Log Benzene Conc. (ug/L)
GW Elev. (ft)
Y = -3.98E-5 * X + 2.08
R² = 0.003
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Y = -0.017 * X + 19.30
R² = 8.28E-005
Groundwater Elevation

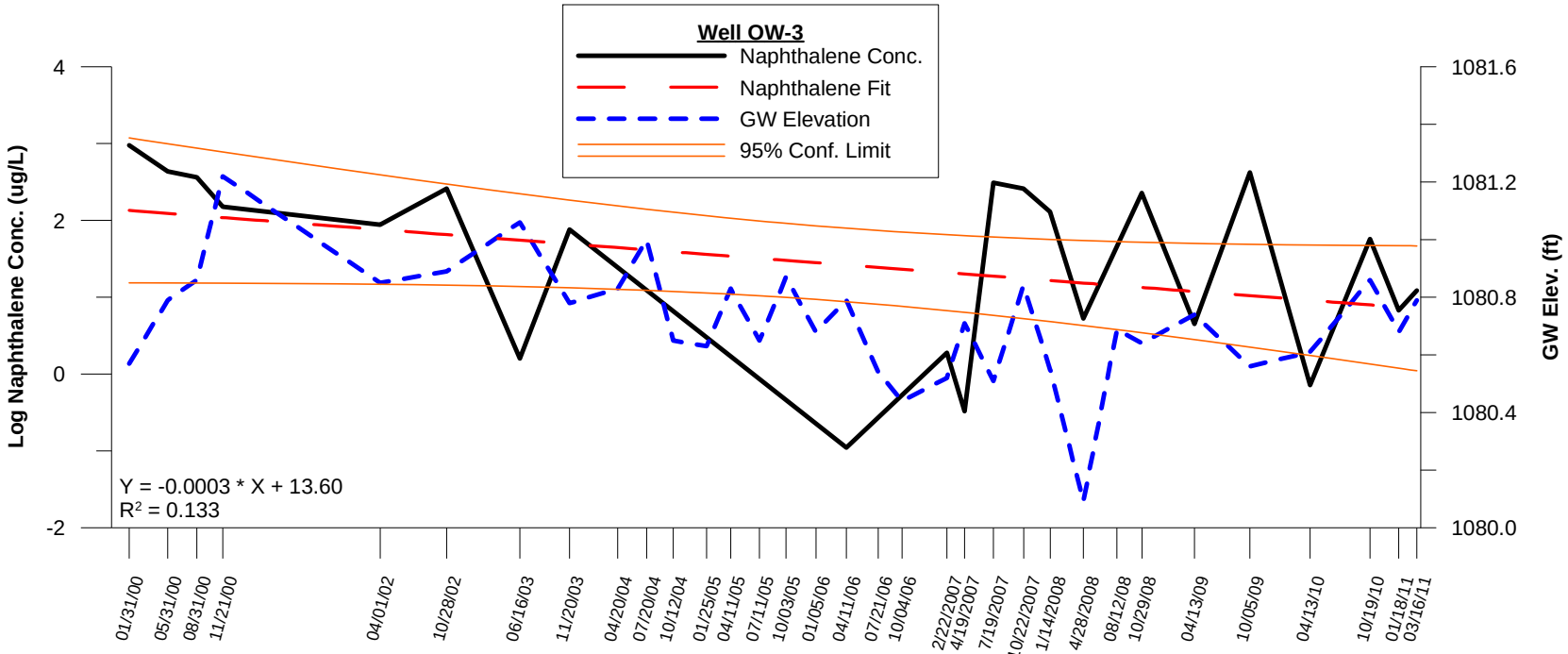

Well OW-14
Benzene Conc.
Benzene Fit
GW Elevation
95% Conf. Limit
Log Benzene Conc. (ug/L)
GW Elev. (ft)
Y = -0.0006 * X + 25.90
R² = 0.722
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Y = 0.07 * X - 78.45
R² = 0.004
Groundwater Elevation

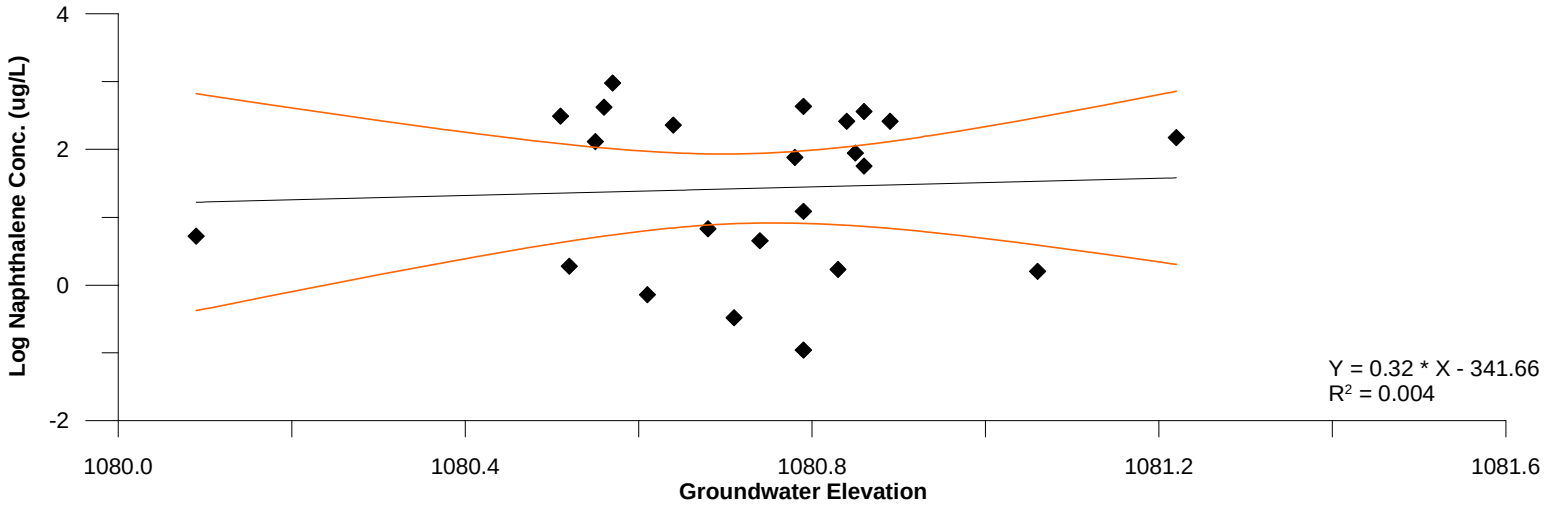

Well P-5B
Benzene Conc.
Benz. Fit
GW Elevation
95% Conf. Limit
Log Benzene Conc. (ug/L)
GW Elev. (ft)
Y = -0.002 * X + 85.51
R² = 0.298
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Y = 0.356 * X - 383.34
R² = 0.024
Groundwater Elevation

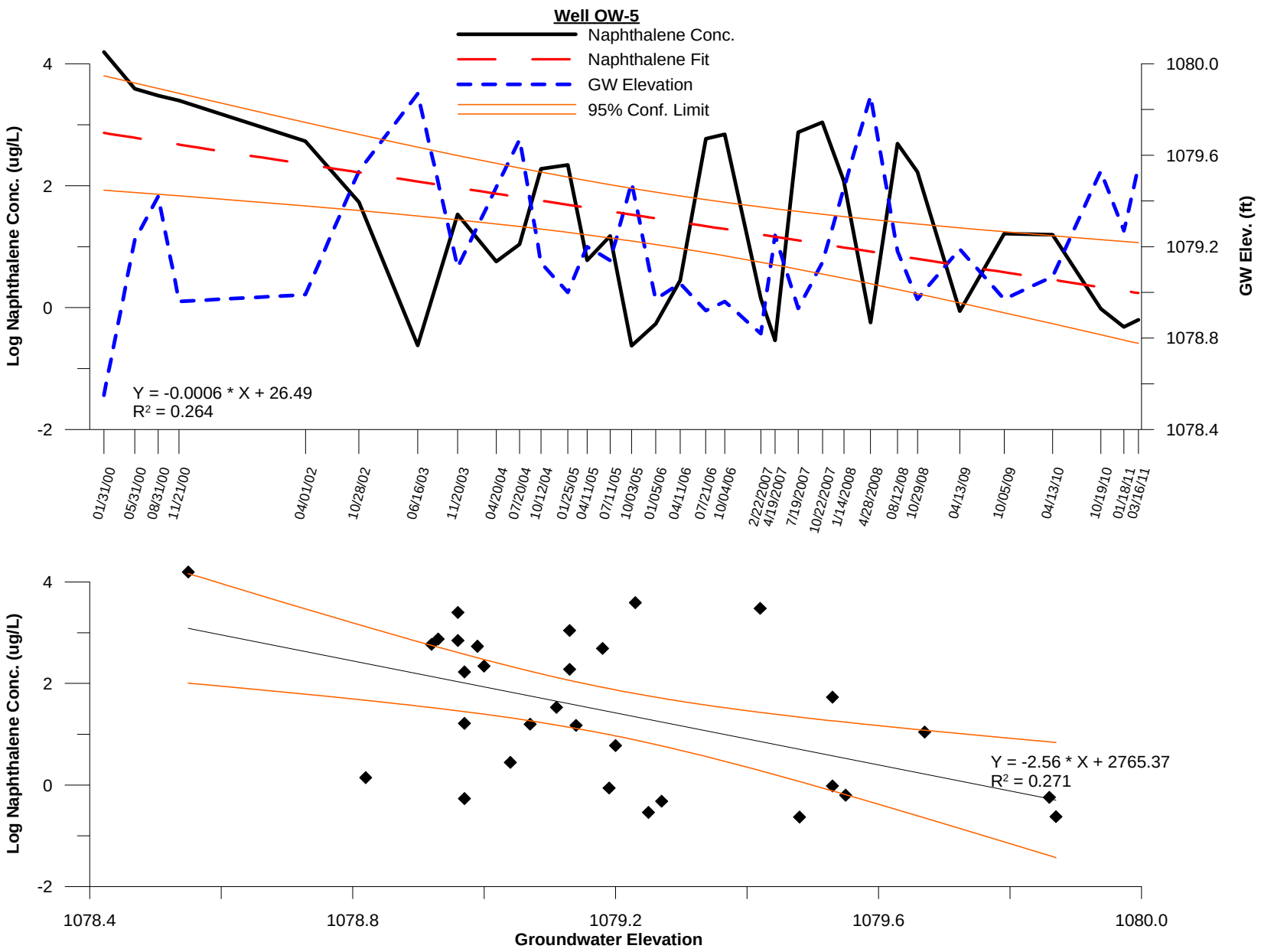

Well PZ-7B
Benzene Conc.
Benz. Fit
GW Elevation
95% Conf. Limit
Log Benzene Conc. (ug/L)
GW Elev. (ft)
Y = -4.7E-005 * X + 2.08
R² = 0.026
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Log Benzene Conc. (ug/L)
Y = -0.144 * X + 155.15
R² = 0.0096
Groundwater Elevation

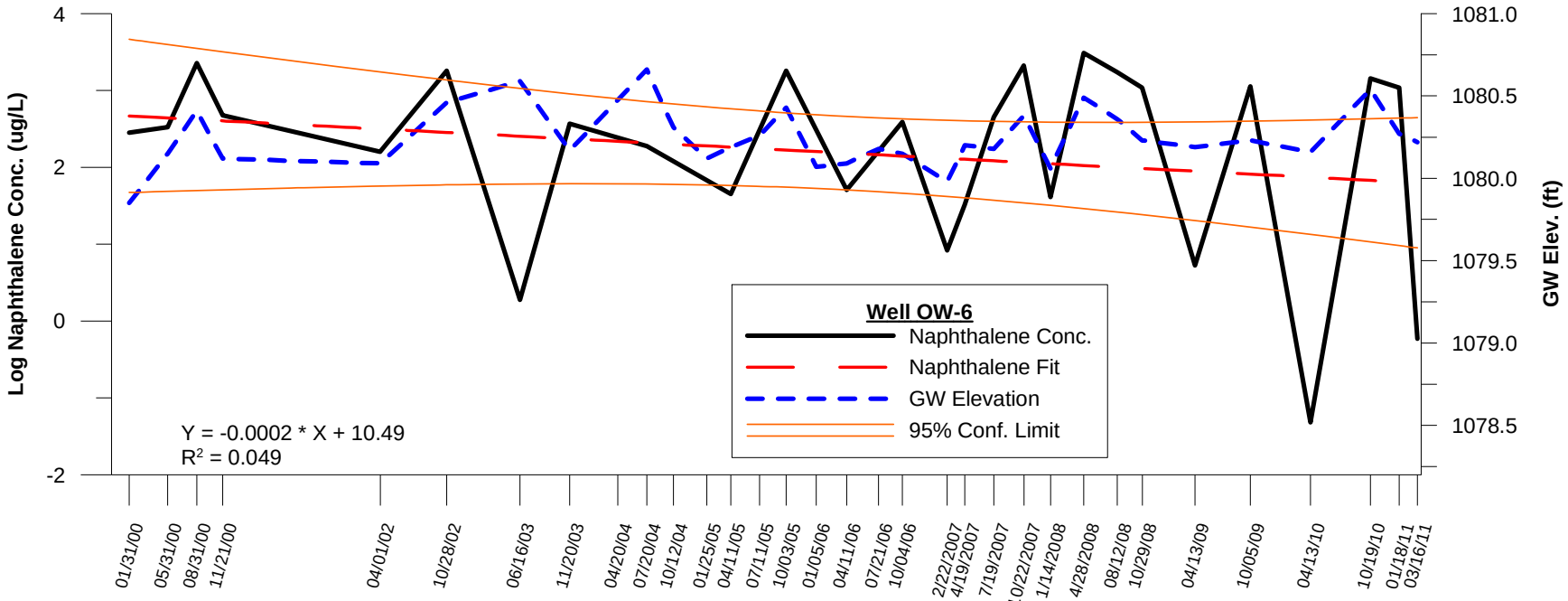

Well PZ-11
Benzene Conc.
Benz. Fit
GW Elevation
95% Conf. Limit
Log Benzene Conc. (ug/L)
GW Elev. (ft)
Y = -0.0006 * X + 22.74
R² = 0.509
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Y = 0.177 * X - 190.78
R² = 0.002
Groundwater Elevation

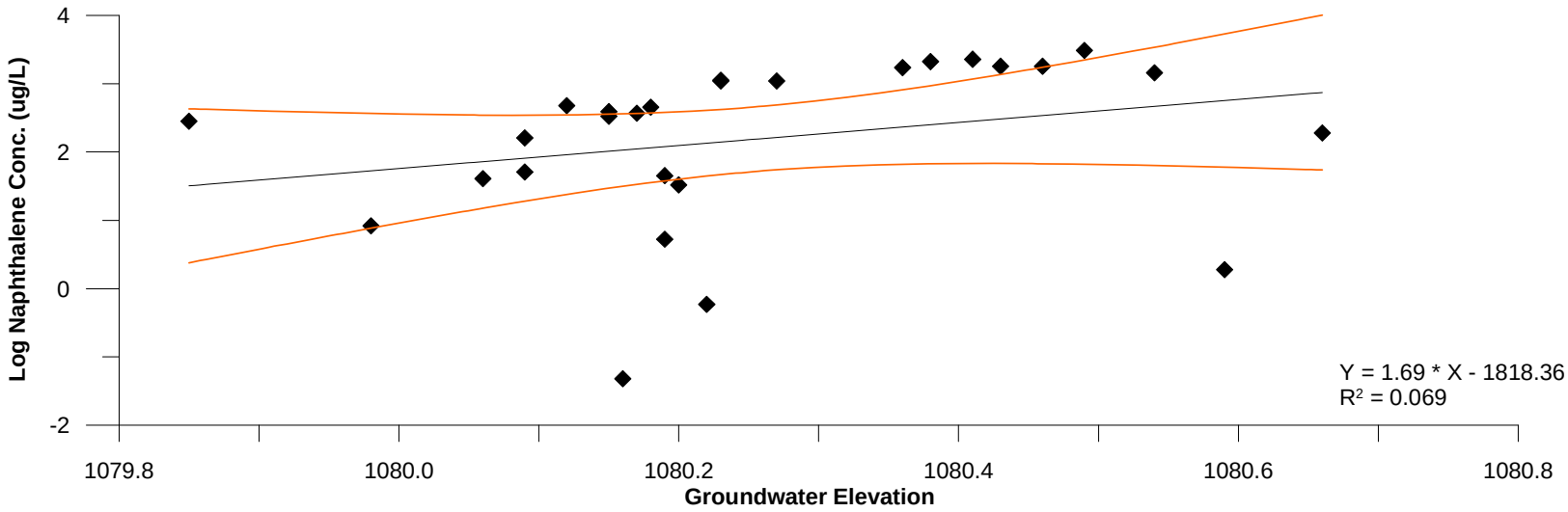

Well PZ-12B
Benzene Conc.
Benzene Fit
GW Elevation
95% Conf. Limit
Log Benzene Conc. (ug/L)
GW Elev. (ft)
Y = 0.00026 * X - 9.14
R² = 0.072
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Y = 0.42 * X - 455.50
R² = 0.026
Groundwater Elevation

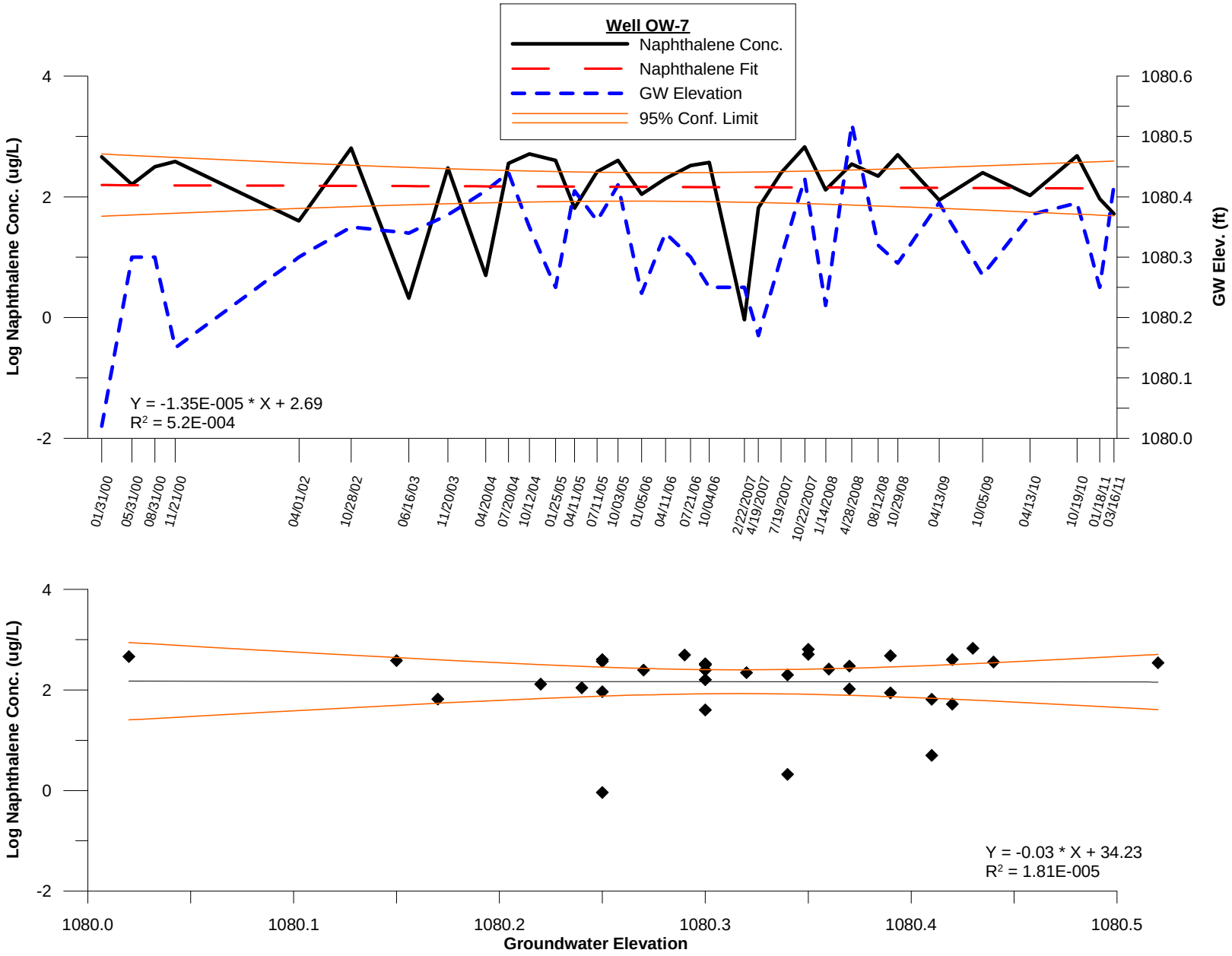

Well OW-3
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
Y = -0.0003 * X + 13.60
R² = 0.133
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11

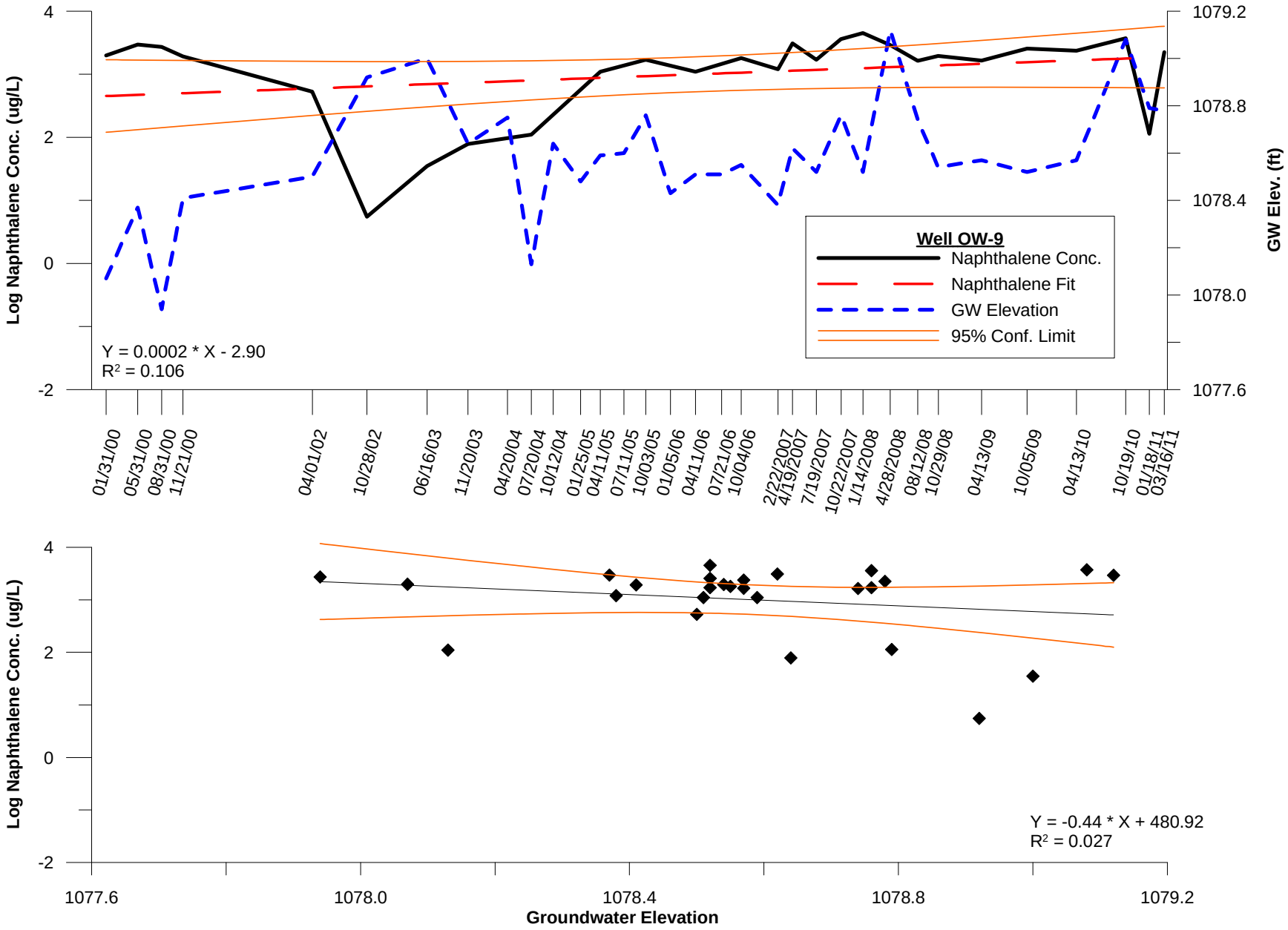

Log Naphthalene Conc. (ug/L)
Y = 0.32 * X - 341.66
R² = 0.004
Groundwater Elevation

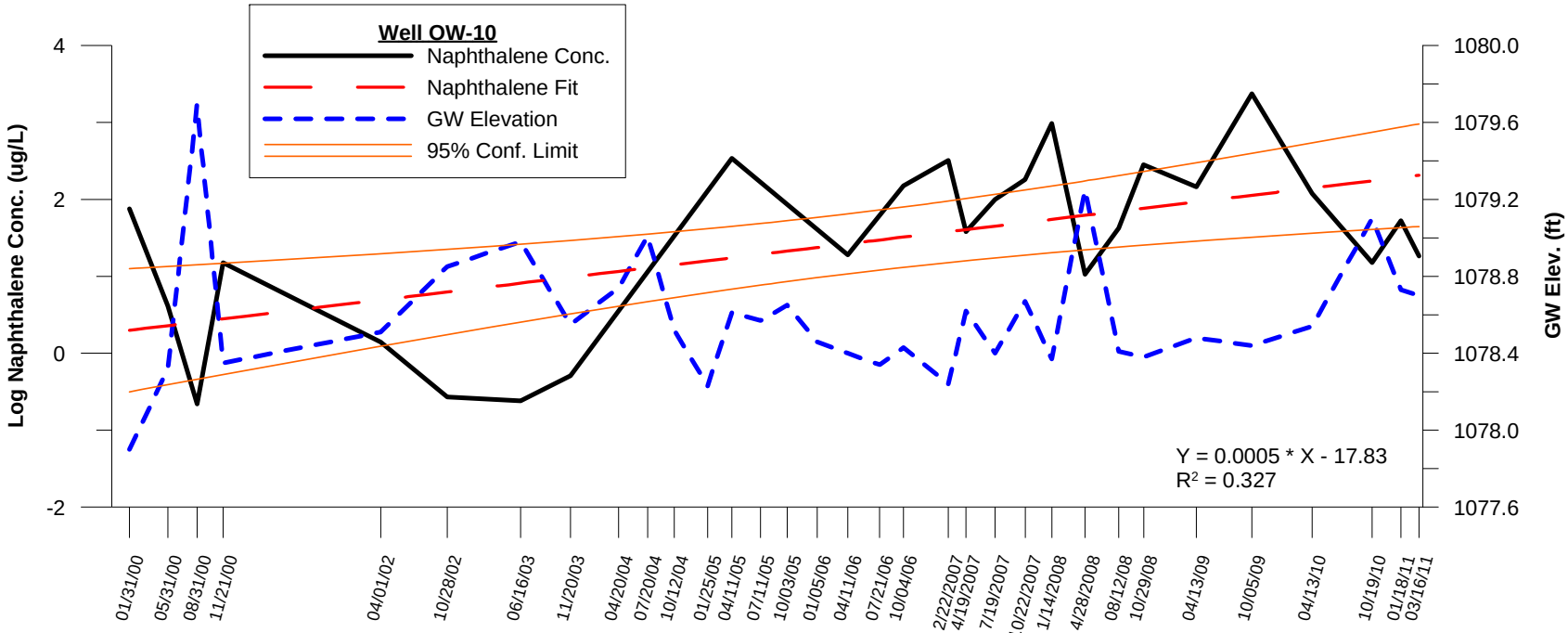

Well OW-5
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
Y = -0.0006 * X + 26.49
R² = 0.264
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Y = -2.56 * X + 2765.37
R² = 0.271
Groundwater Elevation

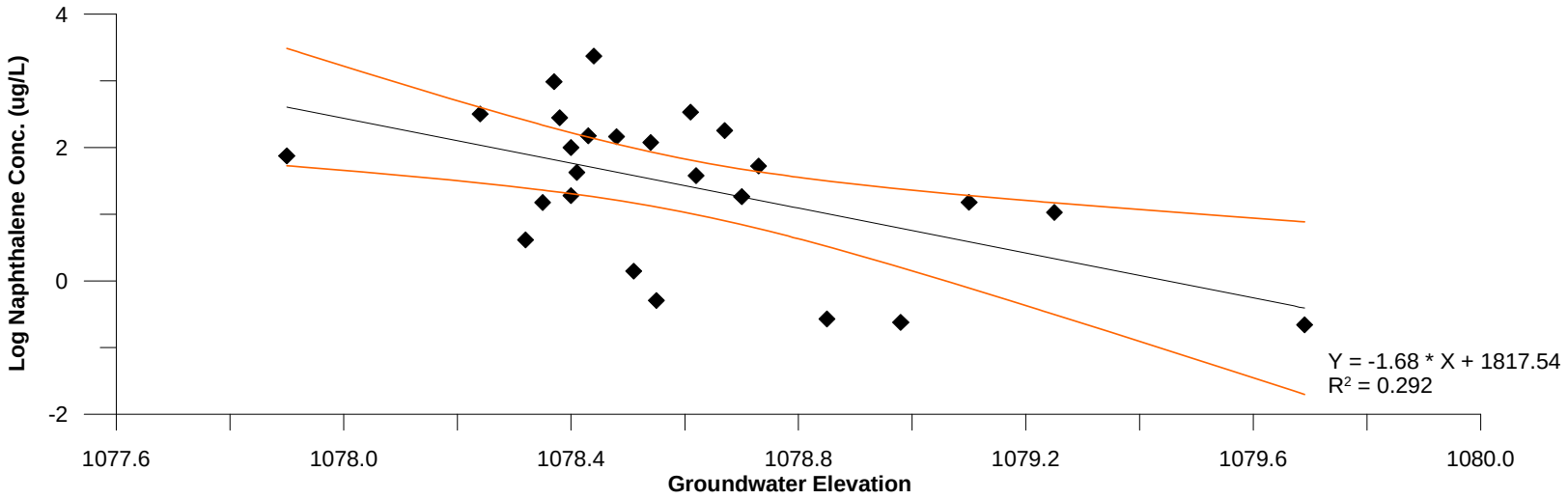

Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
4
2
0
-2
1081.0
1080.5
1080.0
1079.5
1079.0
1078.5
Well OW-6
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Y = -0.0002 * X + 10.49
R² = 0.049
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11

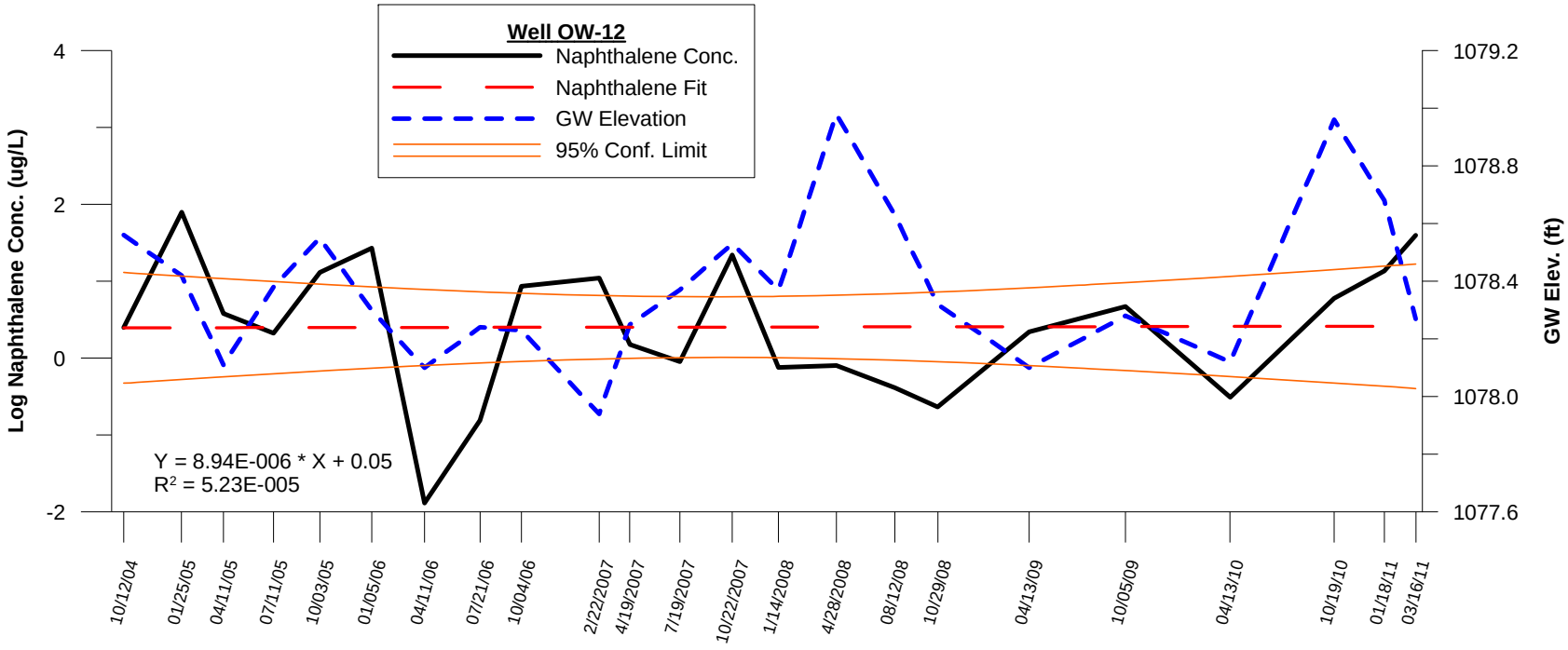

Log Naphthalene Conc. (ug/L)
4
2
0
-2
1079.8
1080.0
1080.2
1080.4
1080.6
1080.8
Groundwater Elevation
Y = 1.69 * X - 1818.36
R² = 0.069

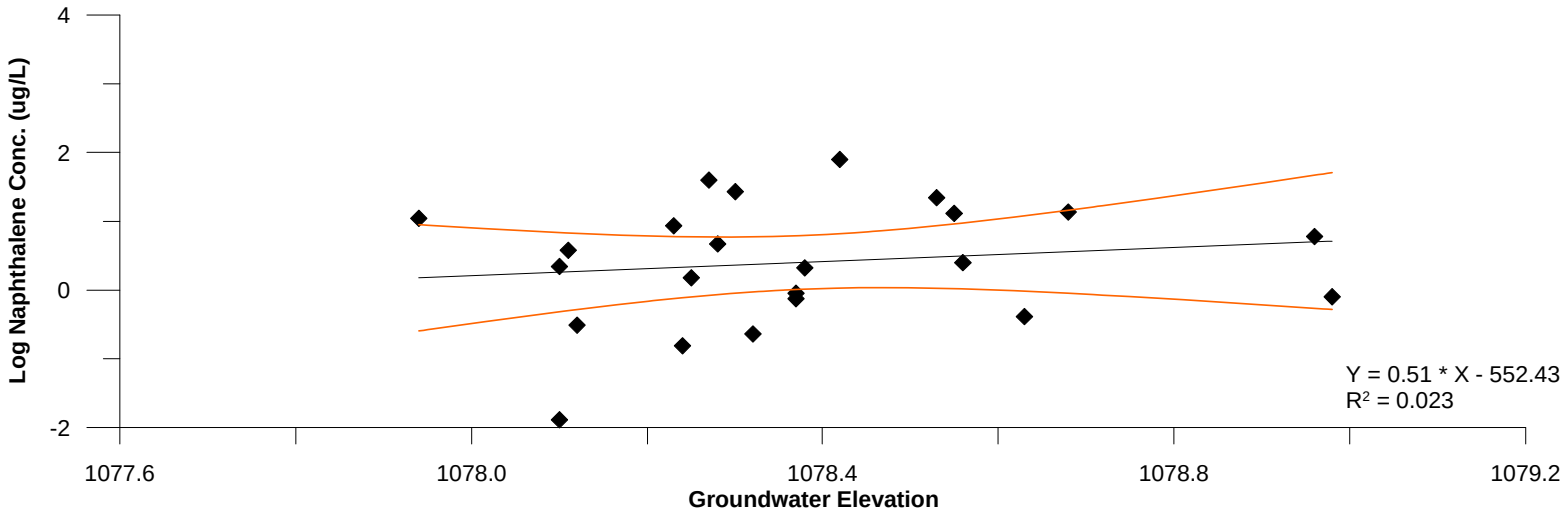

Well OW-7
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
Y = -1.35E-005 * X + 2.69
R² = 5.2E-004
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Log Naphthalene Conc. (ug/L)
Y = -0.03 * X + 34.23
R² = 1.81E-005
Groundwater Elevation

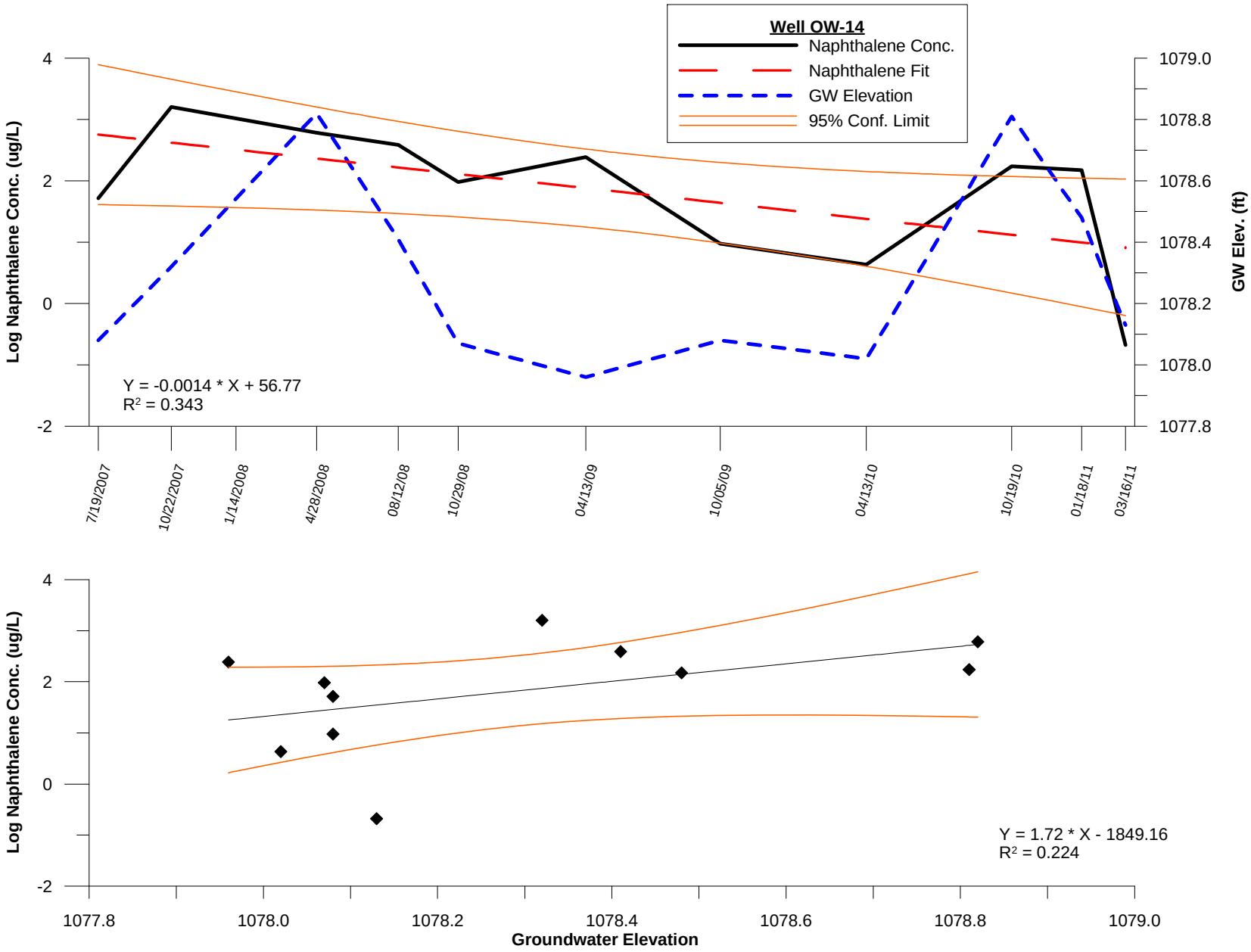

Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
Well OW-9
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Y = 0.0002 * X - 2.90
R² = 0.106
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Log Naphthalene Conc. (ug/L)
Y = -0.44 * X + 480.92
R² = 0.027
Groundwater Elevation

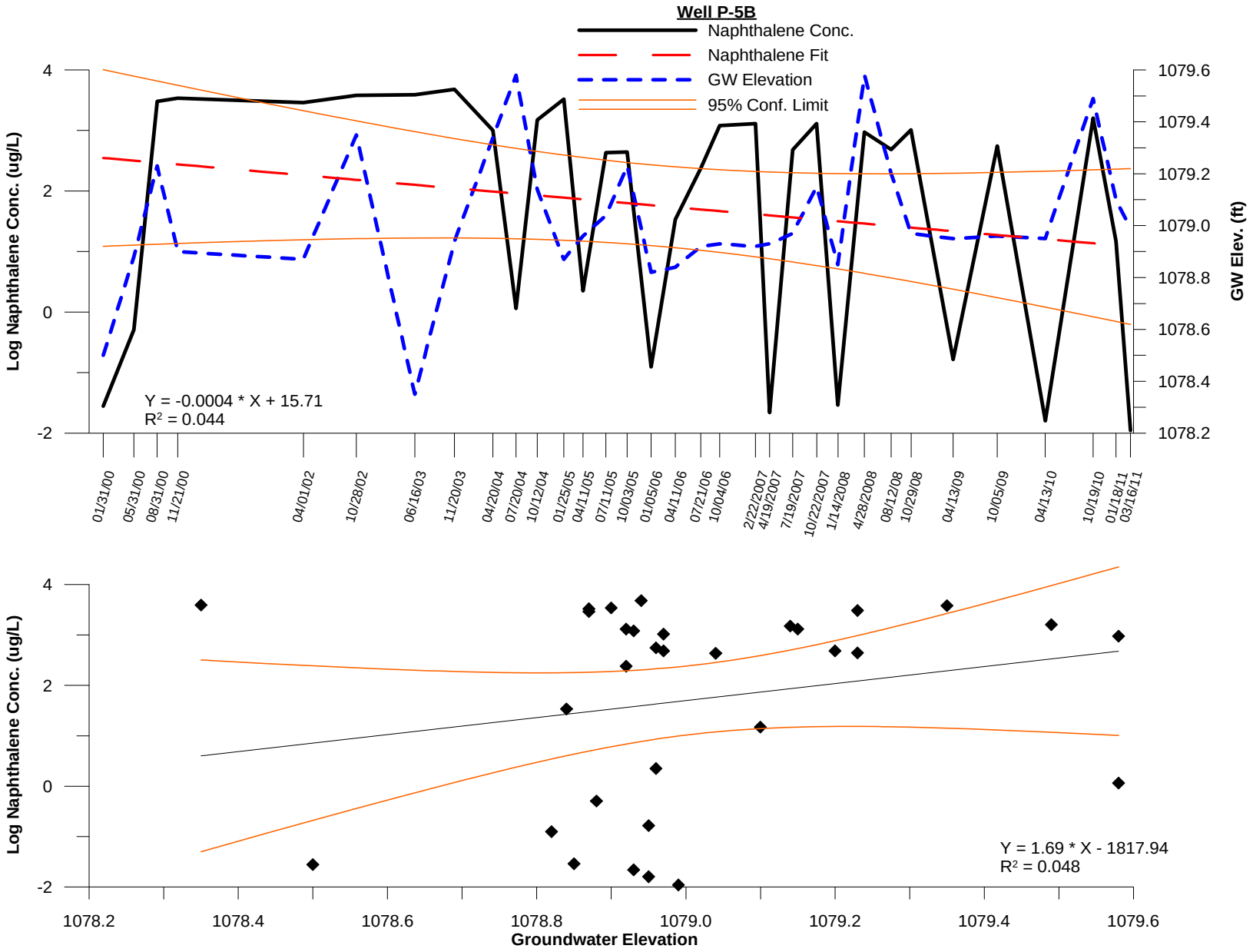

Well OW-10
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
Y = 0.0005 * X - 17.83
R² = 0.327
4
2
0
-2
1080.0
1079.6
1079.2
1078.8
1078.4
1078.0
1077.6
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11

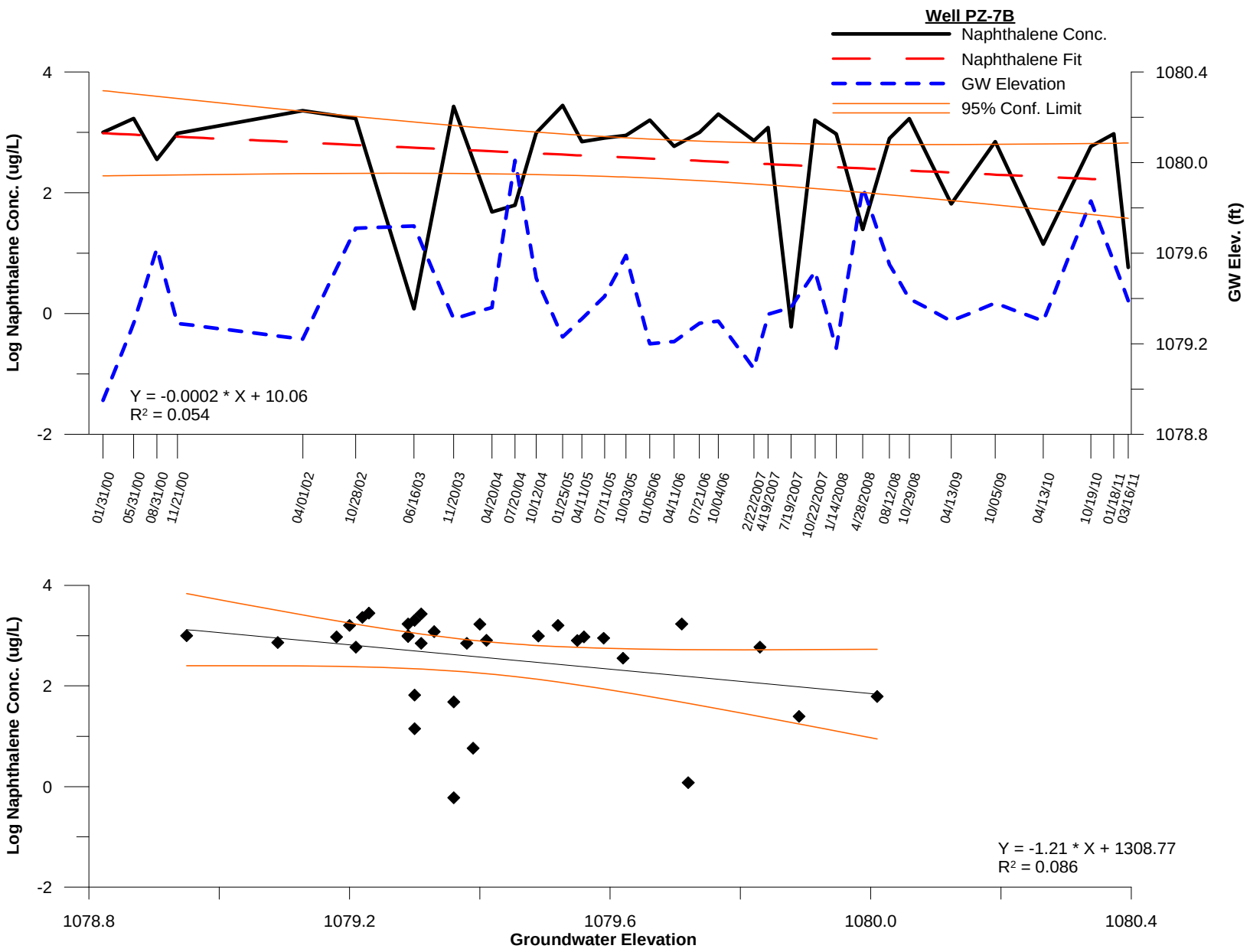

Log Naphthalene Conc. (ug/L)
Y = -1.68 * X + 1817.54
R² = 0.292
4
2
0
-2
1077.6
1078.0
1078.4
1078.8
1079.2
1079.6
1080.0
Groundwater Elevation

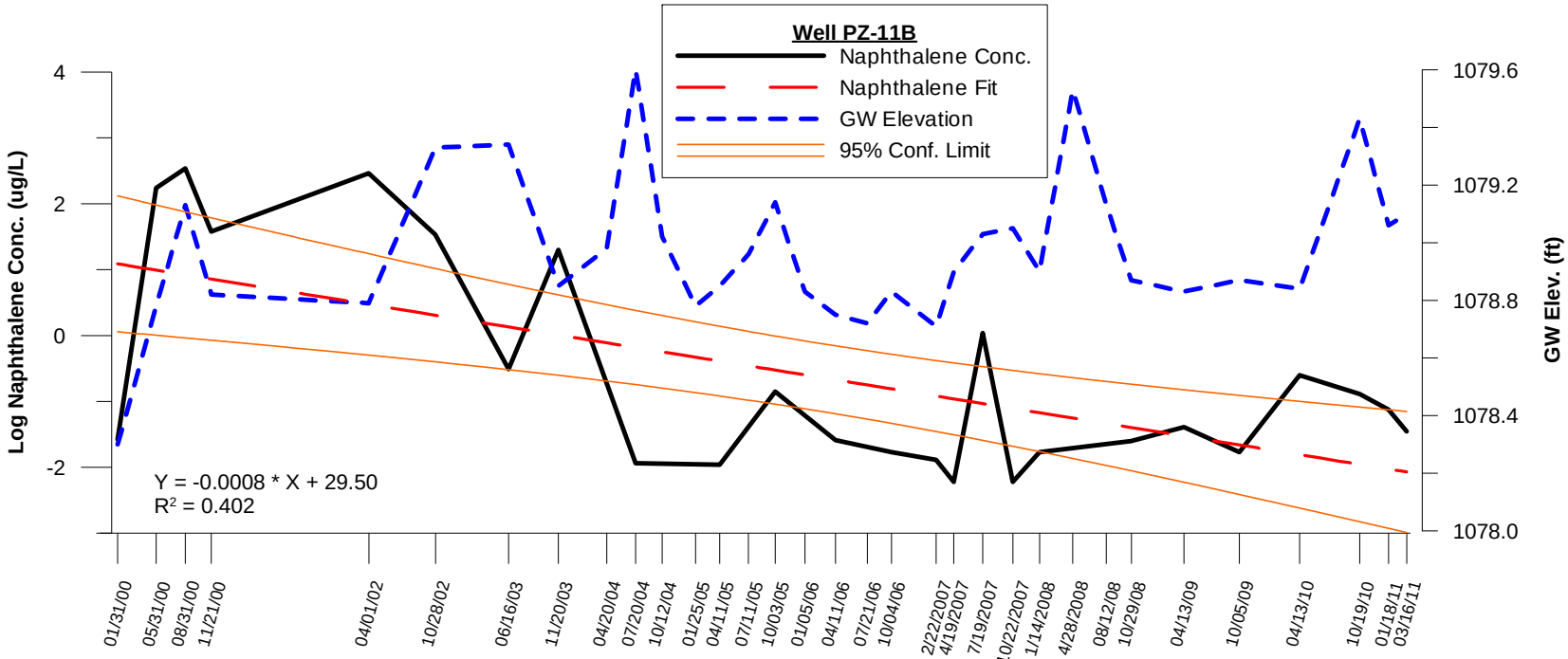

Well OW-12
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
Y = 8.94E-006 * X + 0.05
R² = 5.23E-005
4
2
0
-2
1079.2
1078.8
1078.4
1078.0
1077.6
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11

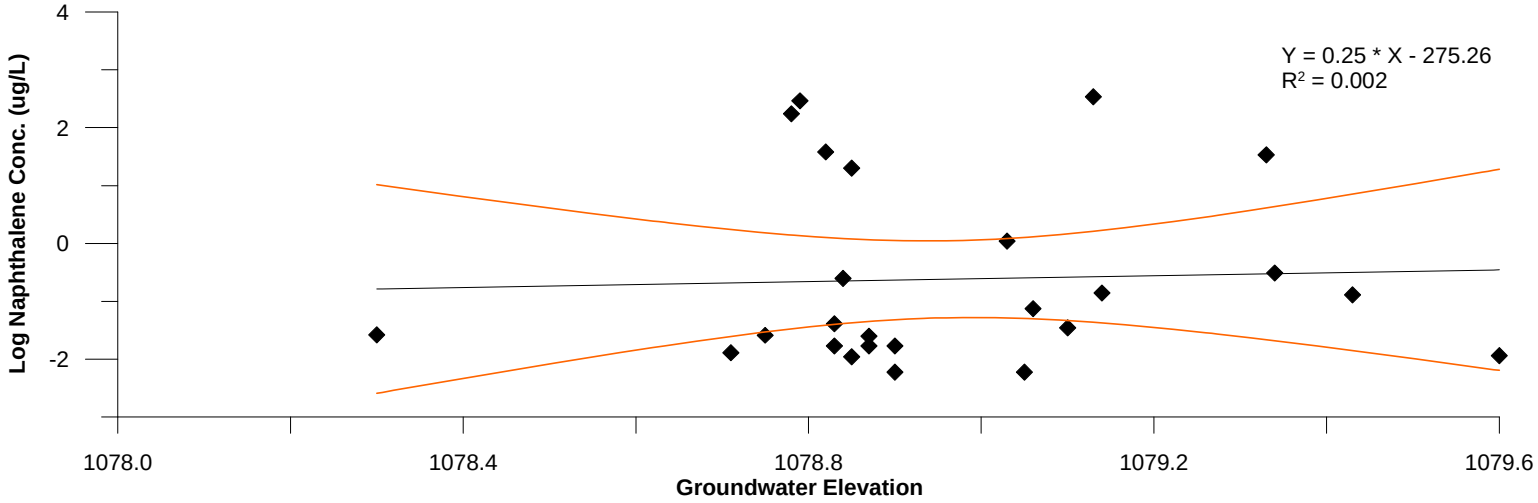

Log Naphthalene Conc. (ug/L)
Y = 0.51 * X - 552.43
R² = 0.023
4
2
0
-2
1077.6
1078.0
1078.4
1078.8
1079.2
Groundwater Elevation

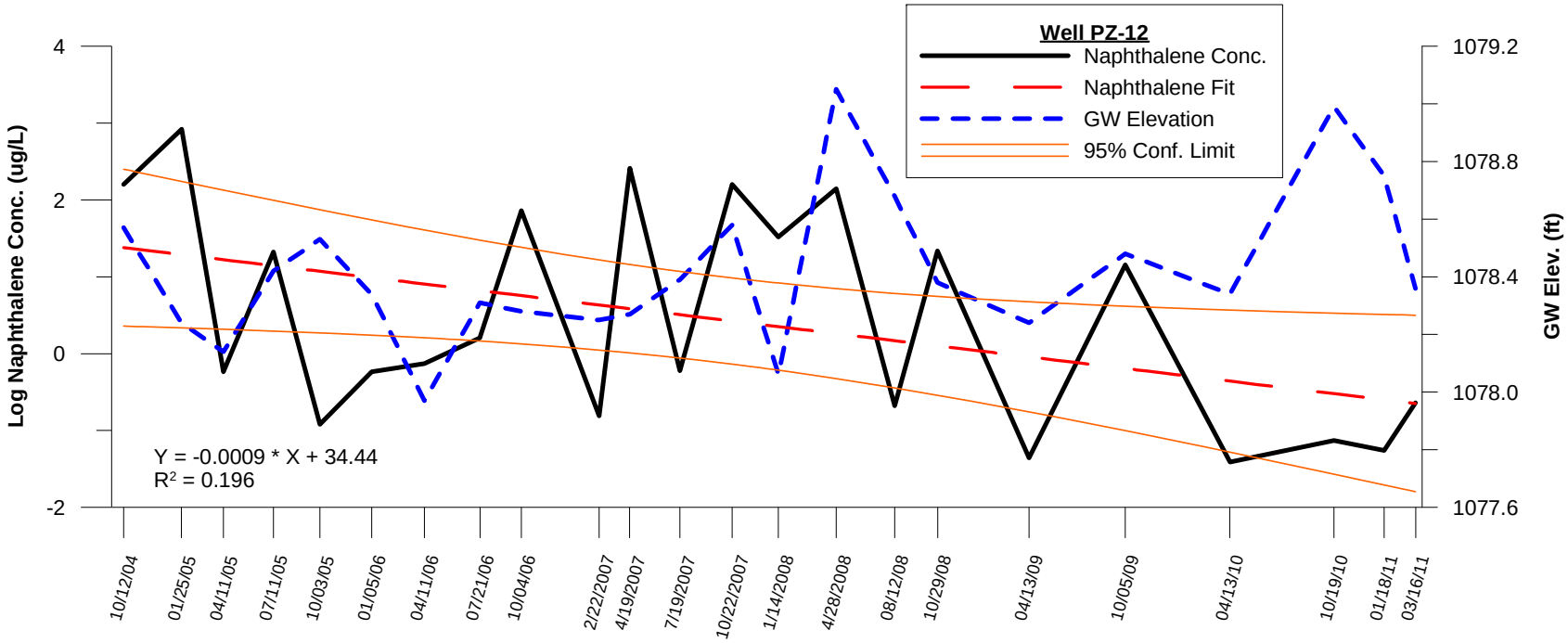

Well OW-14
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
Y = -0.0014 * X + 56.77
R² = 0.343
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Log Naphthalene Conc. (ug/L)
Y = 1.72 * X - 1849.16
R² = 0.224
Groundwater Elevation

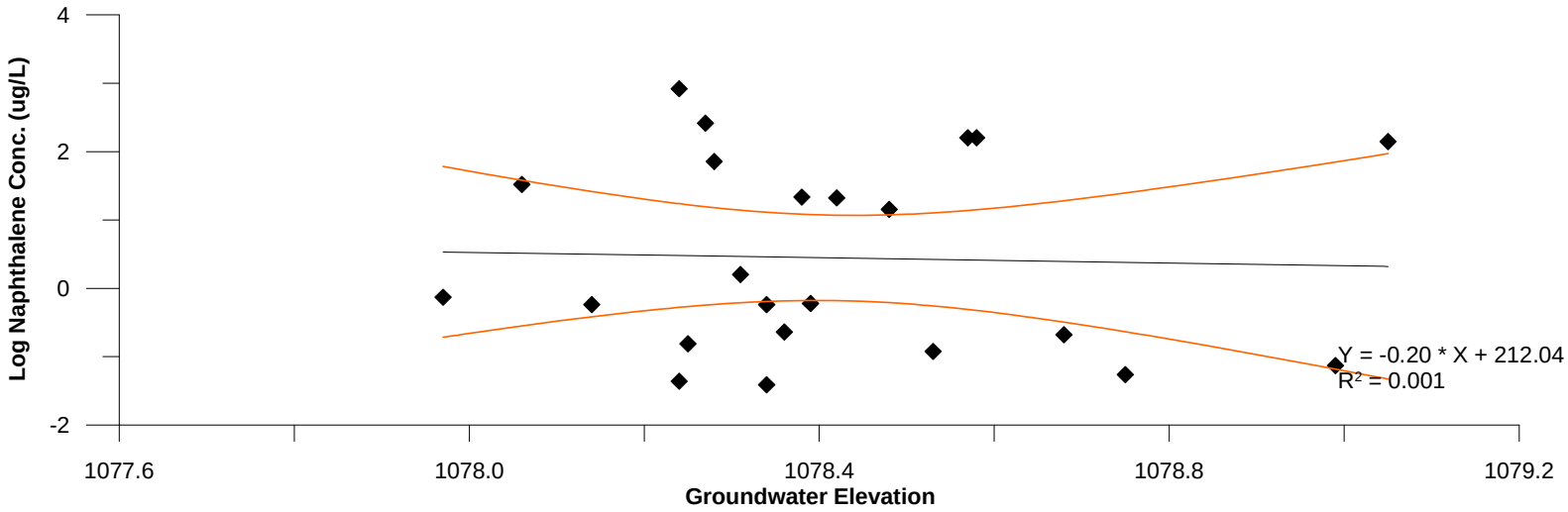

Well P-5B
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
Y = -0.0004 * X + 15.71
R² = 0.044
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Log Naphthalene Conc. (ug/L)
Y = 1.69 * X - 1817.94
R² = 0.048
Groundwater Elevation

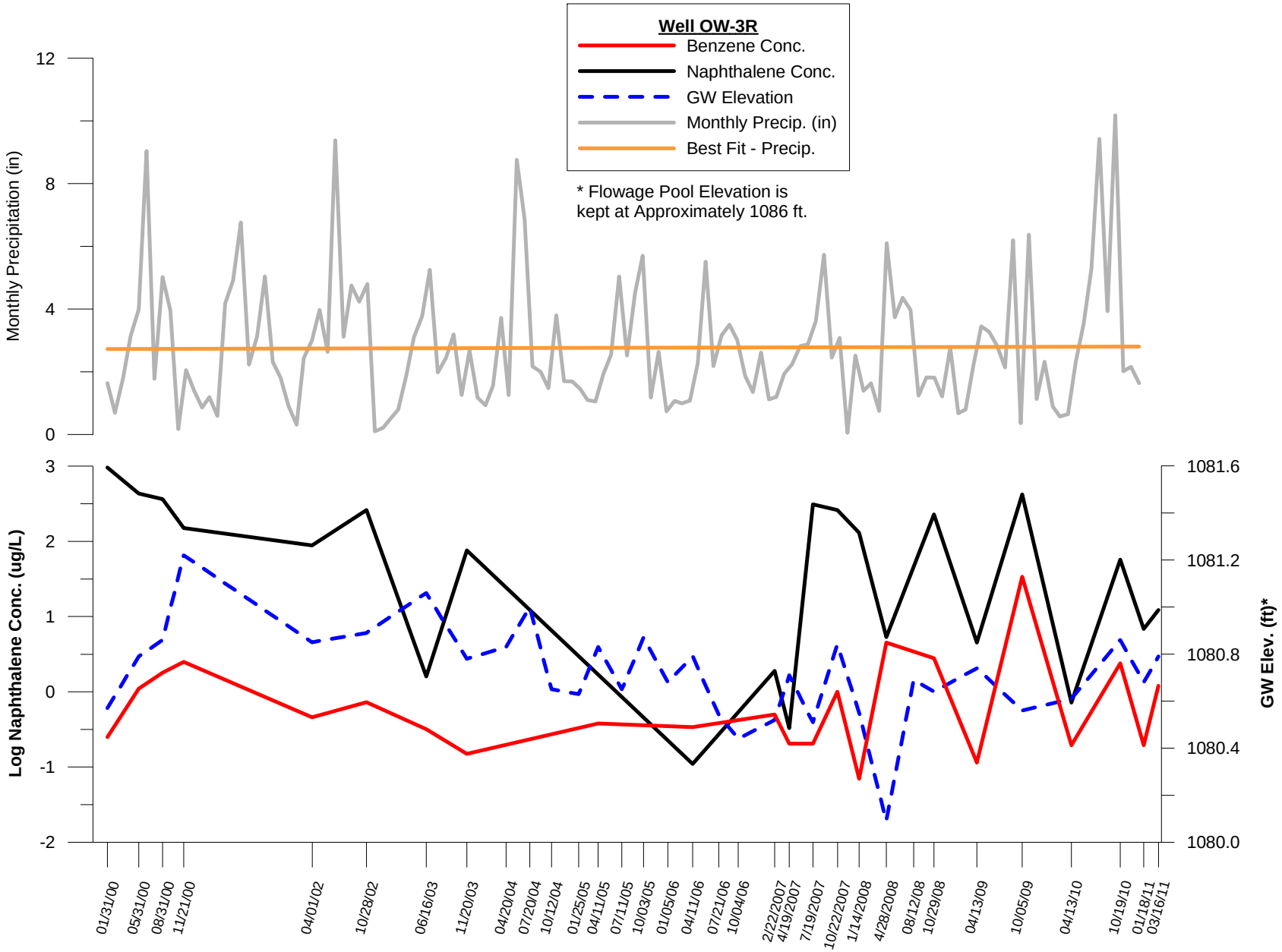

Well PZ-7B
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
Y = -0.0002 * X + 10.06
R² = 0.054
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11
Y = -1.21 * X + 1308.77
R² = 0.086
Groundwater Elevation

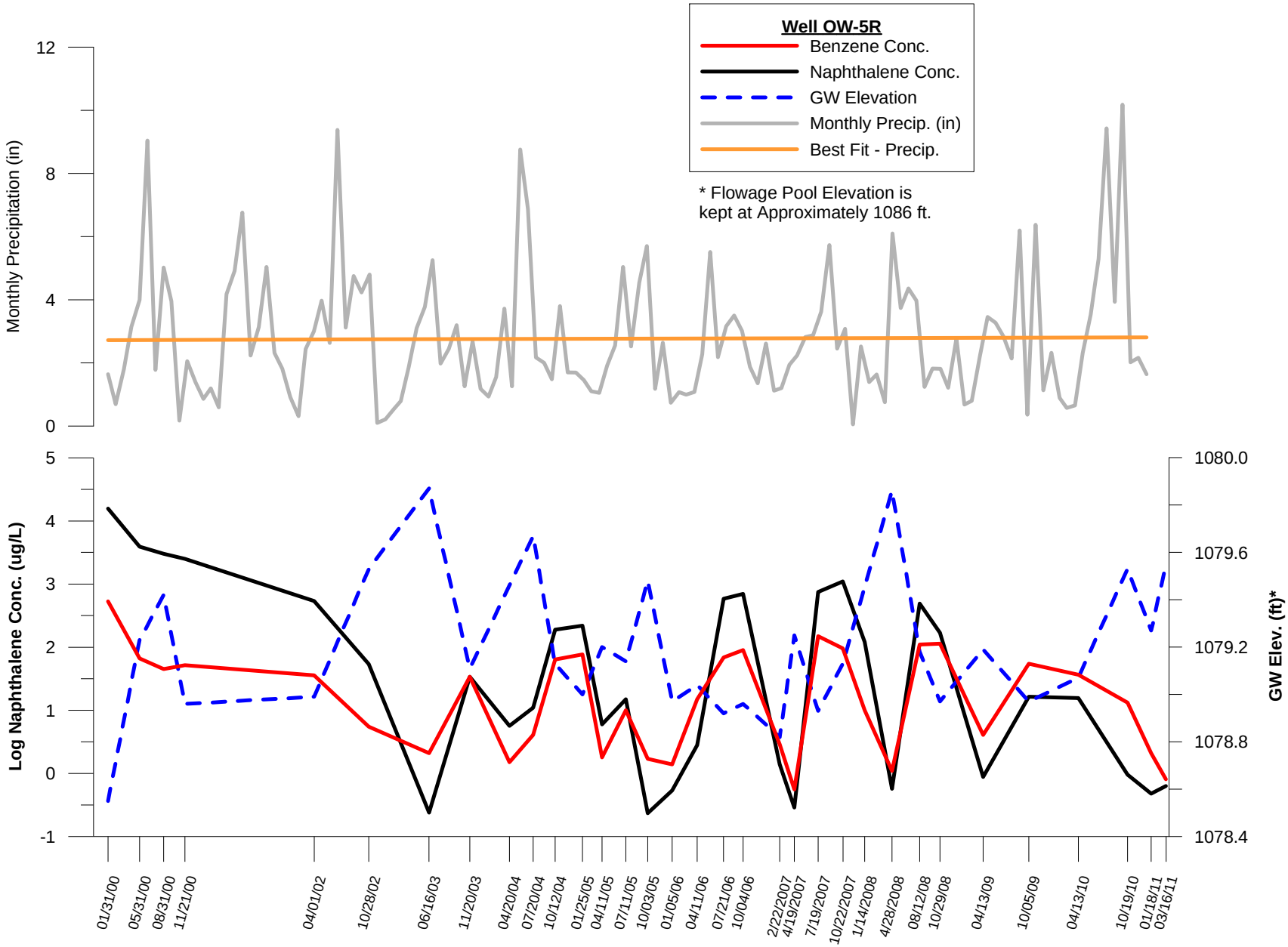

Well PZ-11B
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
Y = -0.0008 * X + 29.50
R² = 0.402
4
2
0
-2
1079.6
1079.2
1078.8
1078.4
1078.0
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11

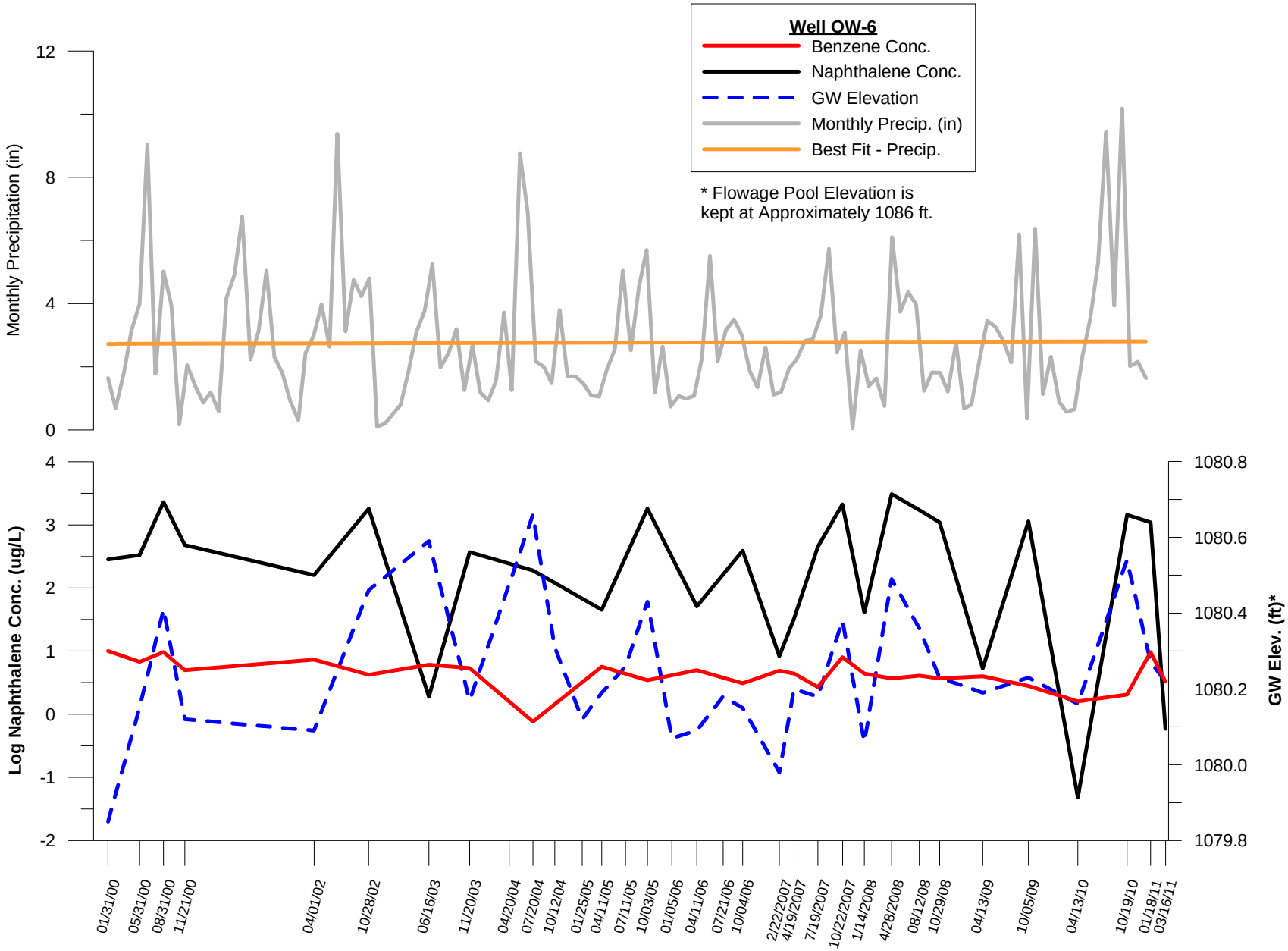

Log Naphthalene Conc. (ug/L)
Y = 0.25 * X - 275.26
R² = 0.002
4
2
0
-2
1078.0
1078.4
1078.8
1079.2
1079.6
Groundwater Elevation

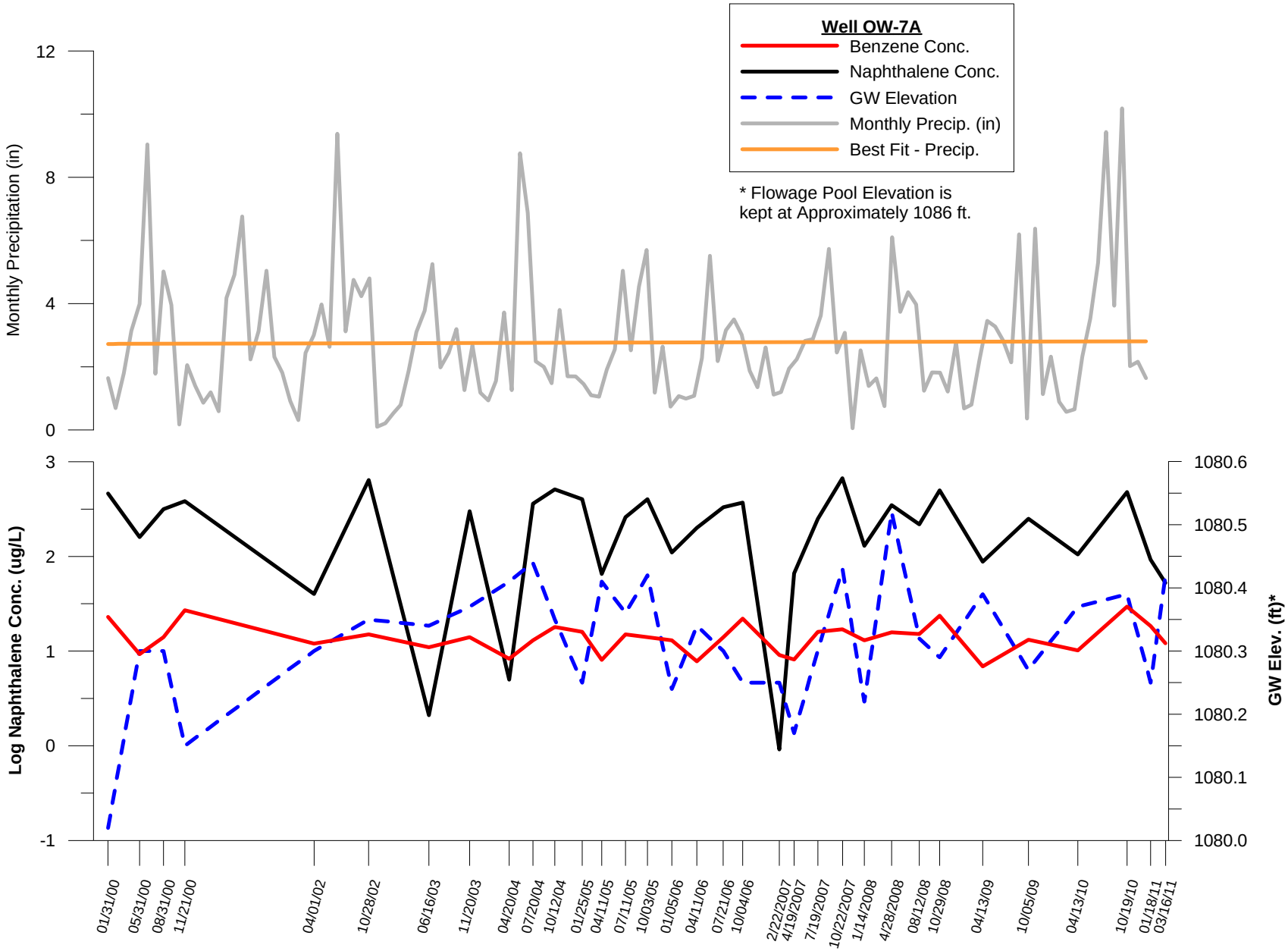

Well PZ-12
Naphthalene Conc.
Naphthalene Fit
GW Elevation
95% Conf. Limit
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)
Y = -0.0009 * X + 34.44
R² = 0.196
4
2
0
-2
1079.2
1078.8
1078.4
1078.0
1077.6
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11

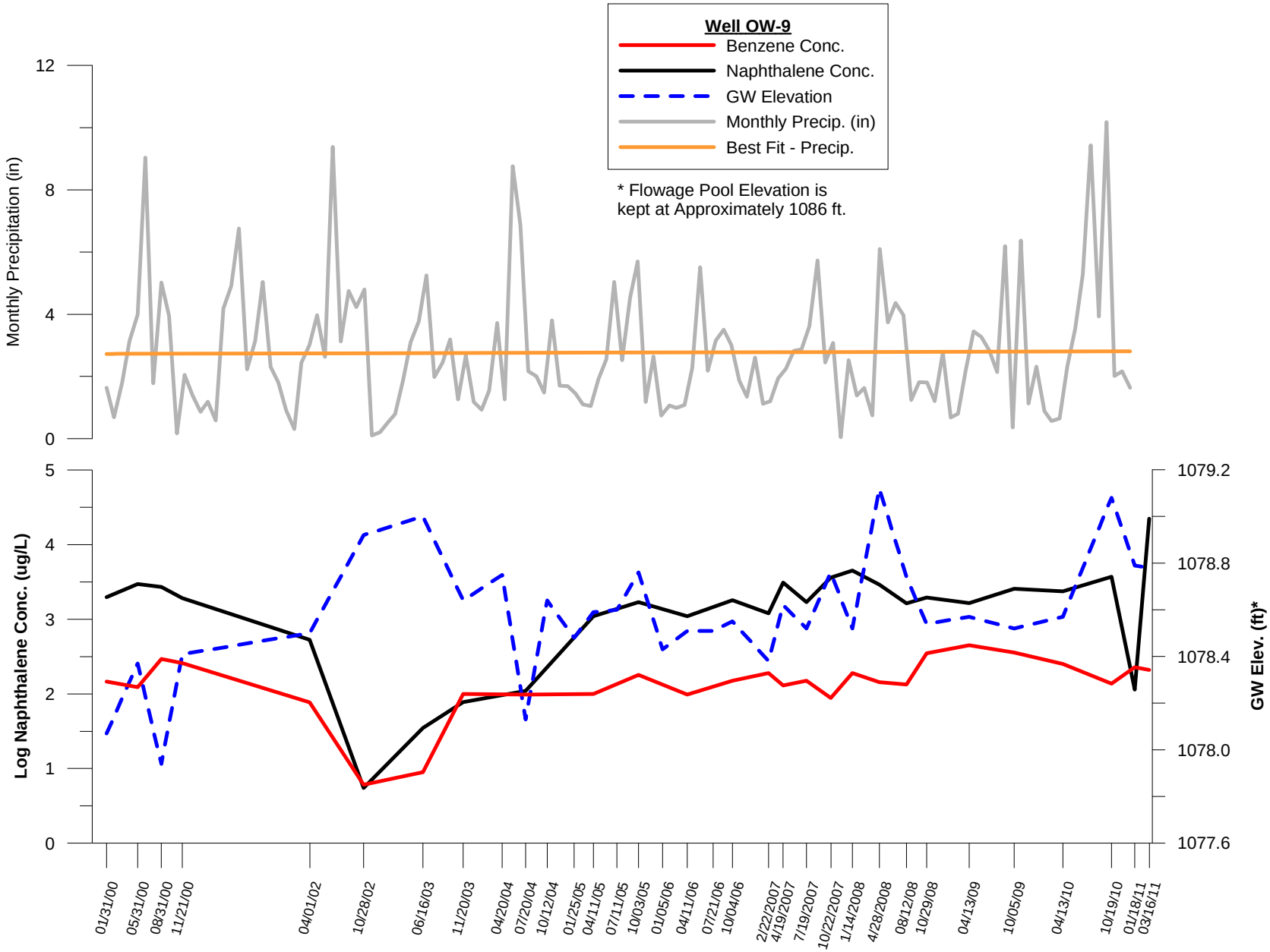

Log Naphthalene Conc. (ug/L)
Y = -0.20 * X + 212.04
R² = 0.001
4
2
0
-2
1077.6
1078.0
1078.4
1078.8
1079.2
Groundwater Elevation

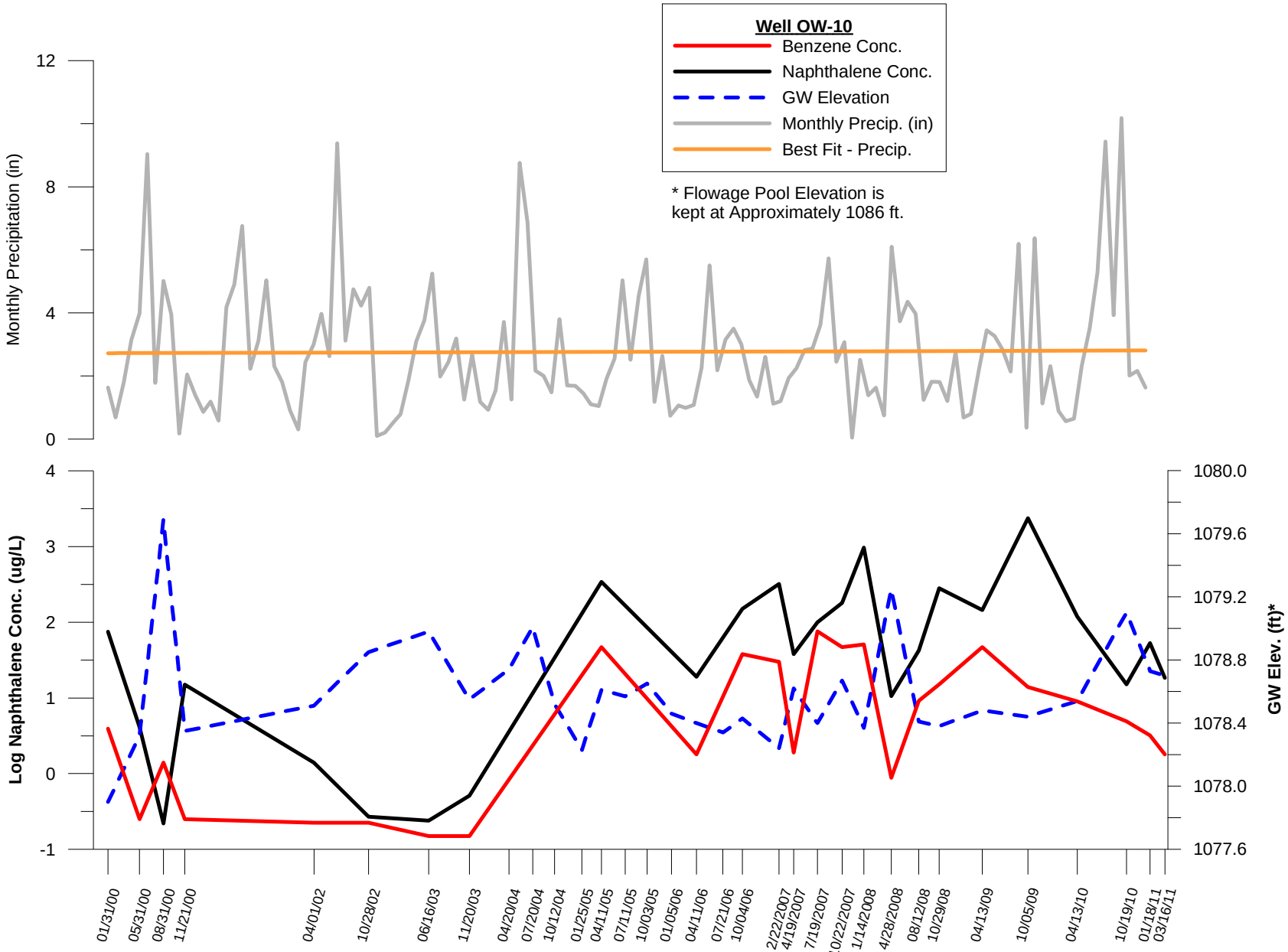

Well OW-3R
Benzene Conc.
Naphthalene Conc.
GW Elevation
Monthly Precip. (in)
Best Fit - Precip.
* Flowage Pool Elevation is kept at Approximately 1086 ft.
Monthly Precipitation (in)
12
8
4
0
Log Naphthalene Conc. (ug/L)
3
2
1
0
-1
-2
GW Elev. (ft)*
1081.6
1081.2
1080.8
1080.4
1080.0
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11

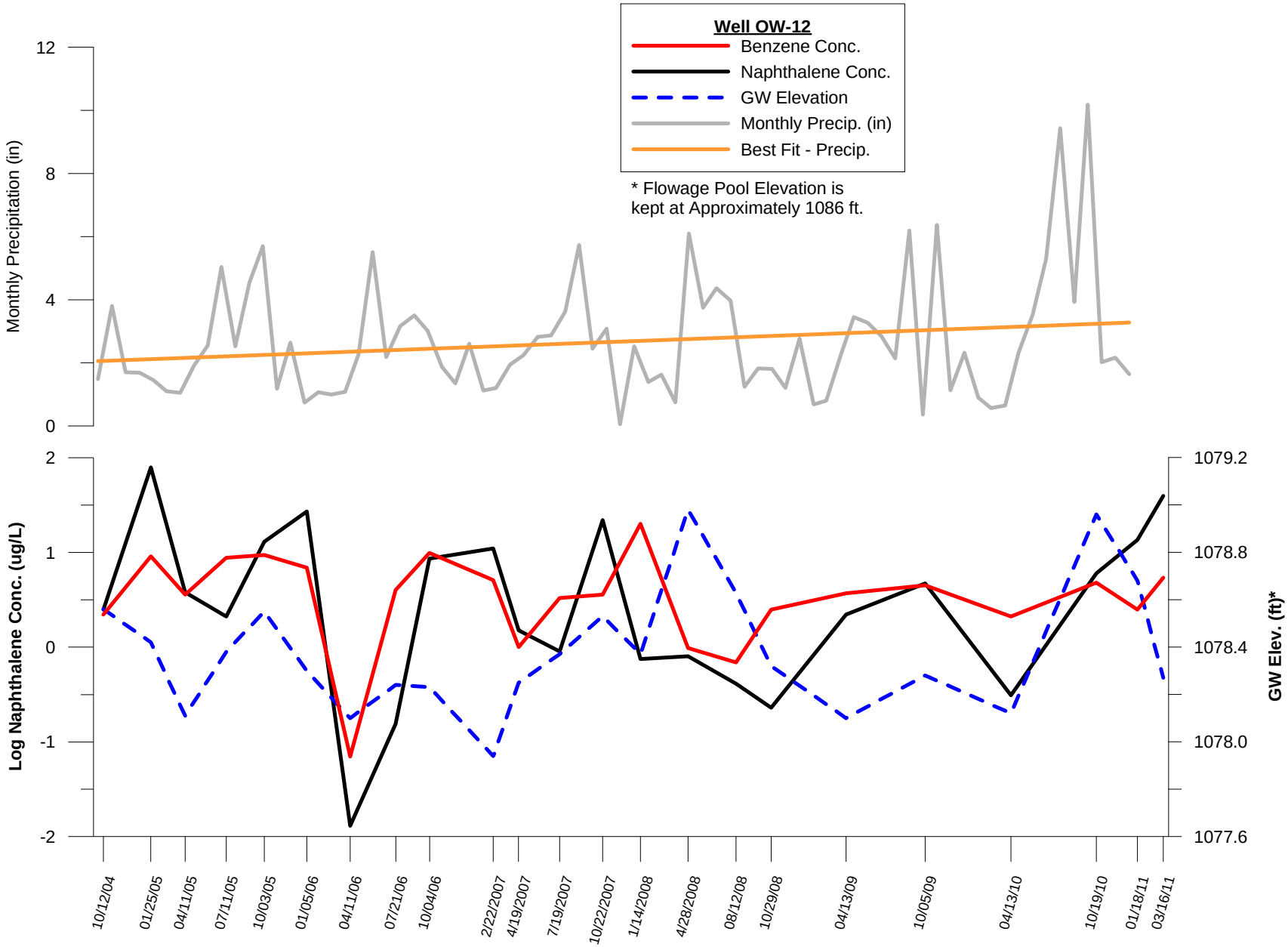

Well OW-5R
Benzene Conc.
Naphthalene Conc.
GW Elevation
Monthly Precip. (in)
Best Fit - Precip.
* Flowage Pool Elevation is kept at Approximately 1086 ft.
Monthly Precipitation (in)
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)*
12
8
4
0
5
4
3
2
1
0
-1
1080.0
1079.6
1079.2
1078.8
1078.4
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11


Well OW-6
Benzene Conc.
Naphthalene Conc.
GW Elevation
Monthly Precip. (in)
Best Fit - Precip.
* Flowage Pool Elevation is kept at Approximately 1086 ft.
Monthly Precipitation (in)
12
8
4
0
Log Naphthalene Conc. (ug/L)
4
3
2
1
0
-1
-2
GW Elev. (ft)*
1080.8
1080.6
1080.4
1080.2
1080.0
1079.8
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11


Well OW-7A
Benzene Conc.
Naphthalene Conc.
GW Elevation
Monthly Precip. (in)
Best Fit - Precip.
* Flowage Pool Elevation is kept at Approximately 1086 ft.
Monthly Precipitation (in)
Log Naphthalene Conc. (ug/L)
GW Elev. (ft)*
12
8
4
0
3
2
1
0
-1
1080.6
1080.5
1080.4
1080.3
1080.2
1080.1
1080.0
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11


Well OW-9
Benzene Conc.
Naphthalene Conc.
GW Elevation
Monthly Precip. (in)
Best Fit - Precip.
* Flowage Pool Elevation is kept at Approximately 1086 ft.
Monthly Precipitation (in)
12
8
4
0
Log Naphthalene Conc. (ug/L)
5
4
3
2
1
0
GW Elev. (ft)*
1079.2
1078.8
1078.4
1078.0
1077.6
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11


Well OW-10
Benzene Conc.
Naphthalene Conc.
GW Elevation
Monthly Precip. (in)
Best Fit - Precip.
* Flowage Pool Elevation is kept at Approximately 1086 ft.
Monthly Precipitation (in)
12
8
4
0
Log Naphthalene Conc. (ug/L)
4
3
2
1
0
-1
GW Elev. (ft)*
1080.0
1079.6
1079.2
1078.8
1078.4
1078.0
1077.6
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11


Well OW-12
Benzene Conc.
Naphthalene Conc.
GW Elevation
Monthly Precip. (in)
Best Fit - Precip.
* Flowage Pool Elevation is kept at Approximately 1086 ft.
Monthly Precipitation (in)
12
8
4
0
Log Naphthalene Conc. (ug/L)
2
1
0
-1
-2
GW Elev. (ft)*
1079.2
1078.8
1078.4
1078.0
1077.6
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
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04/13/09
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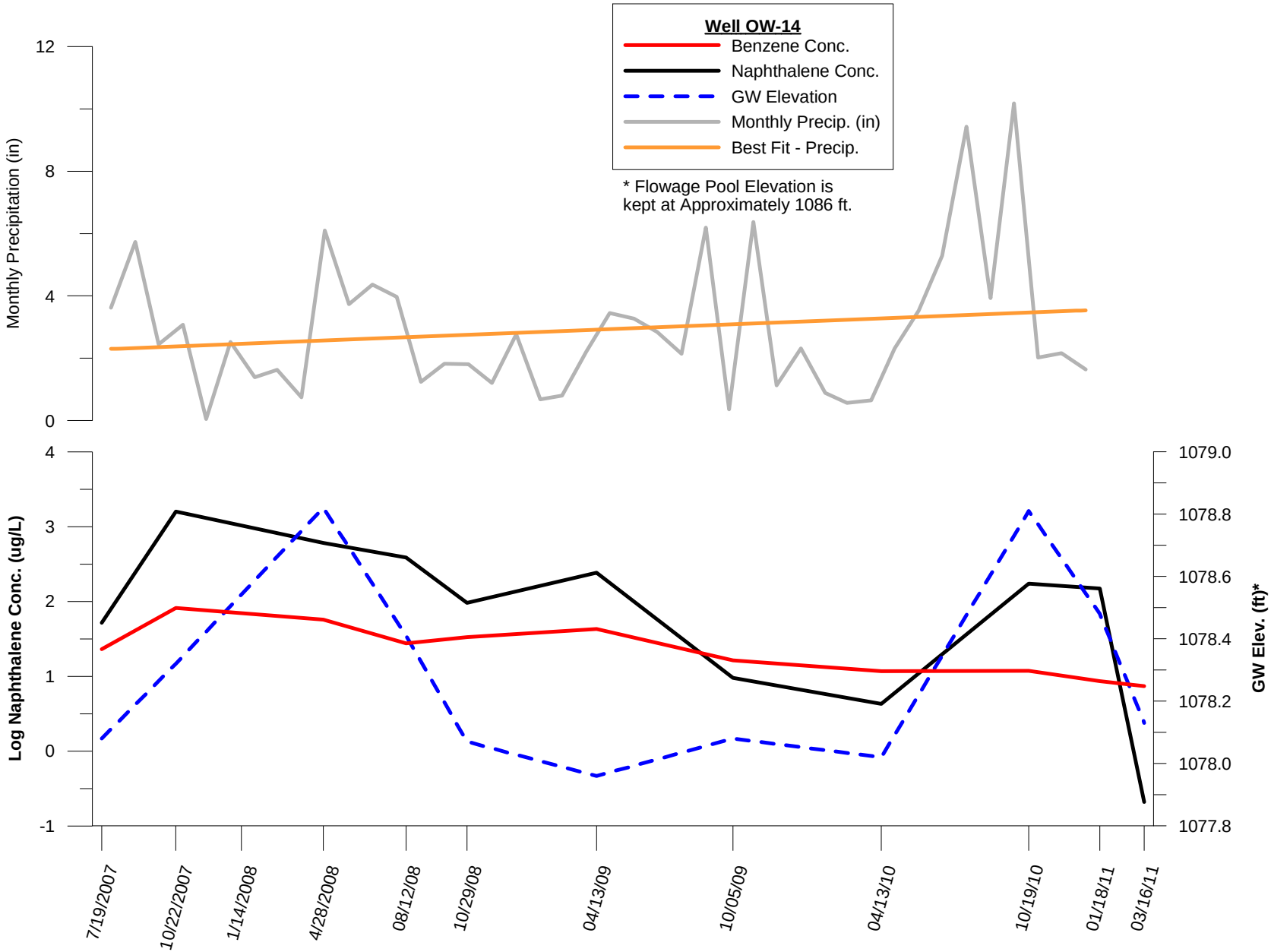
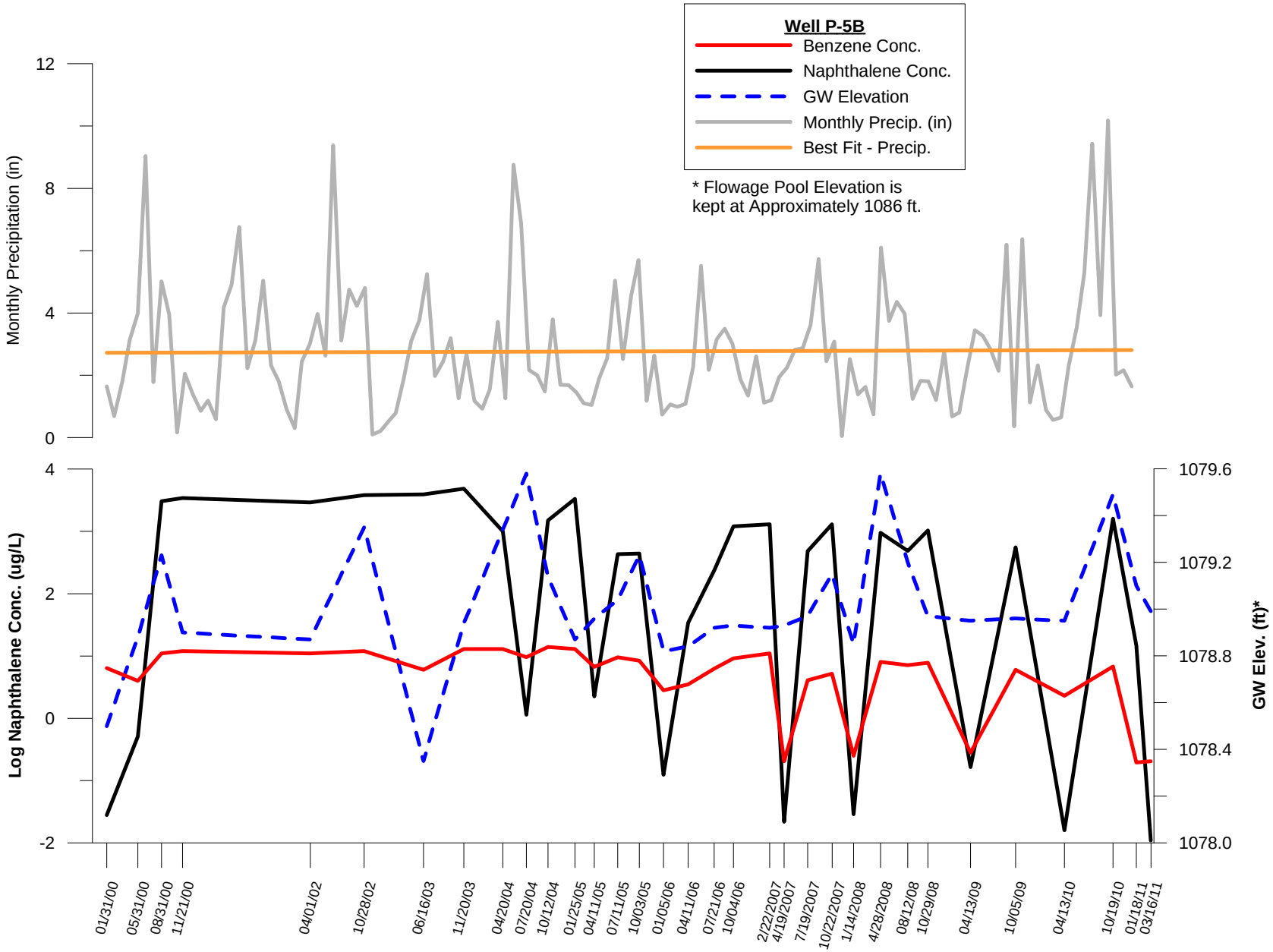
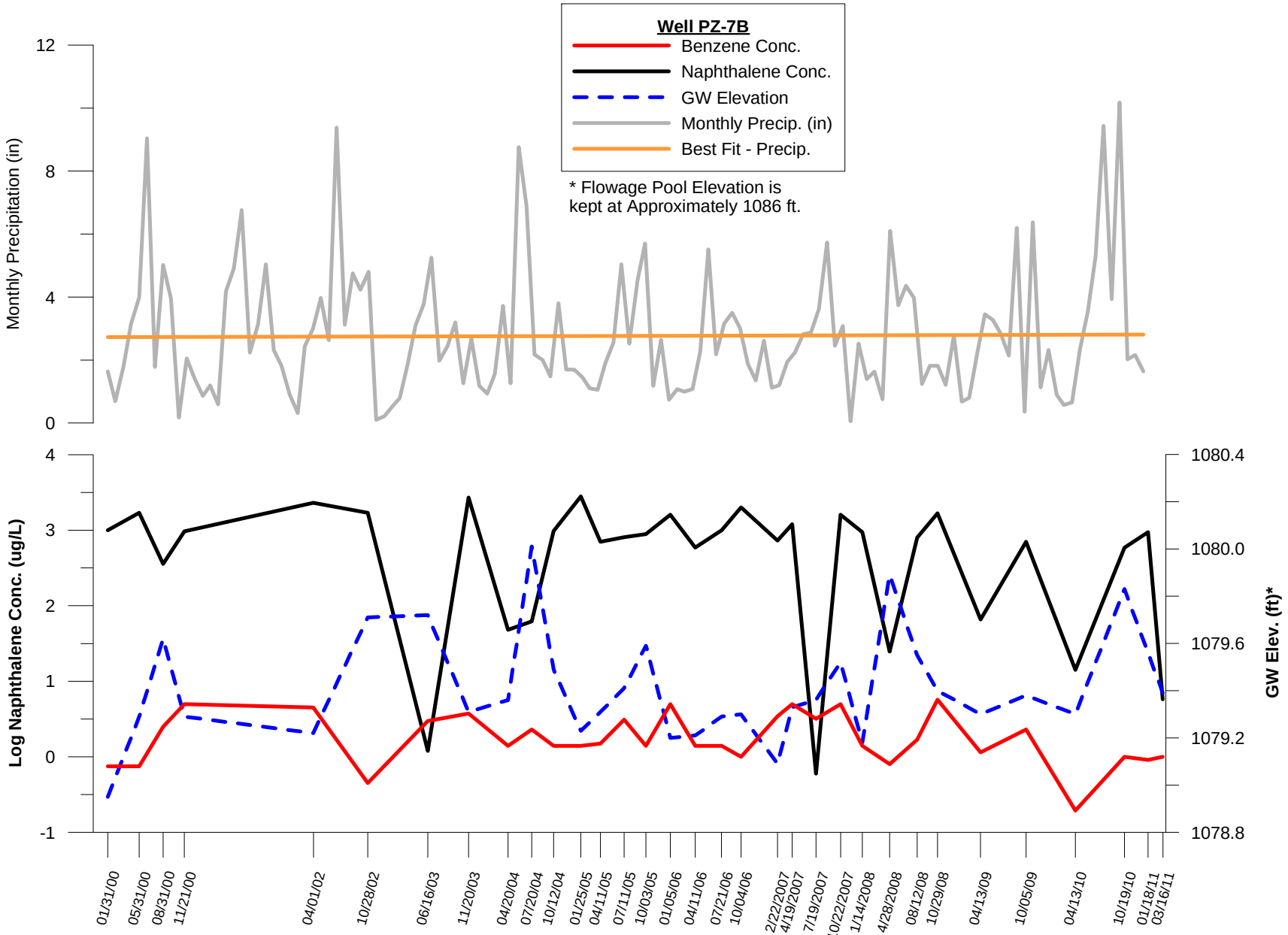
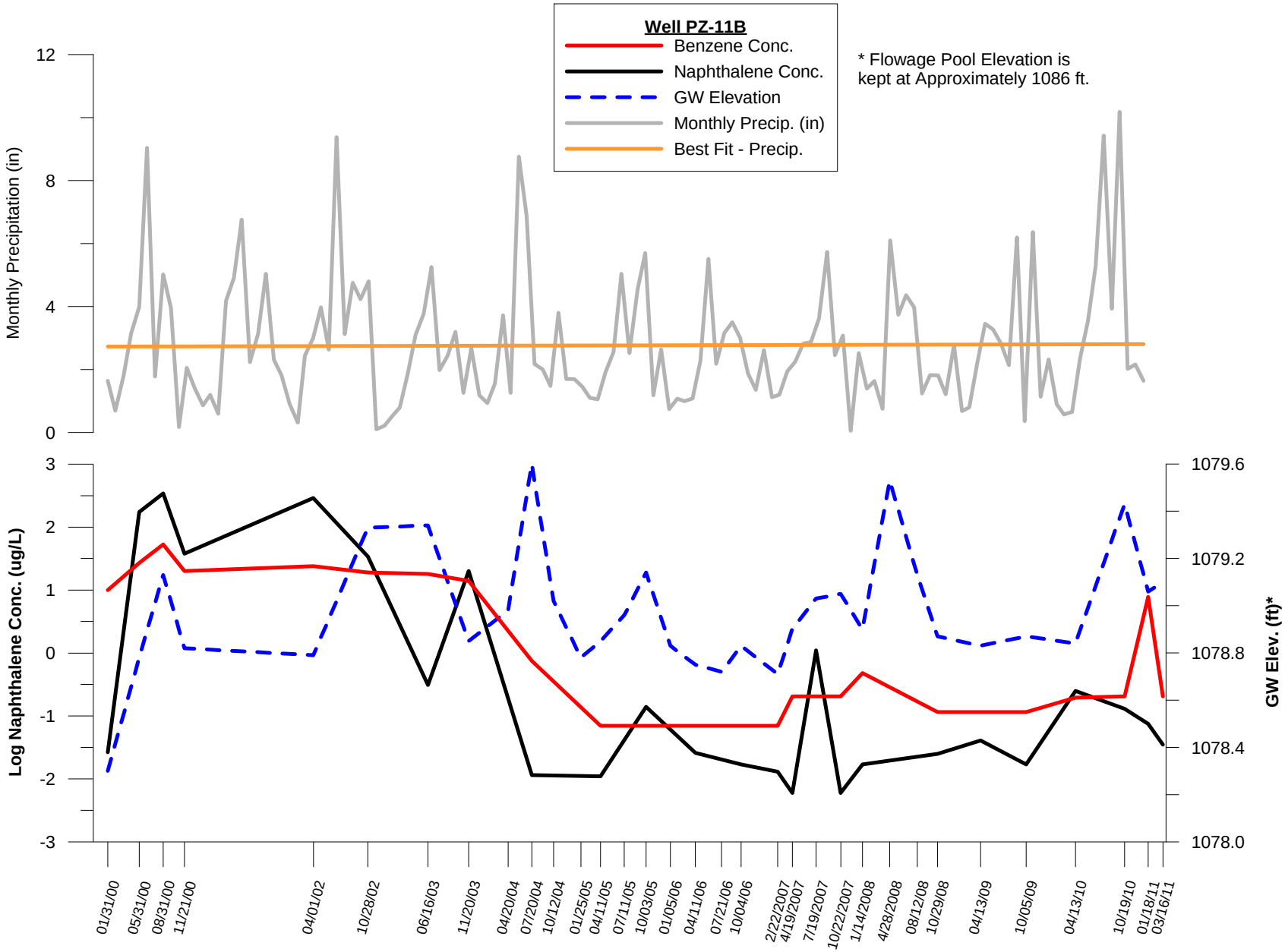
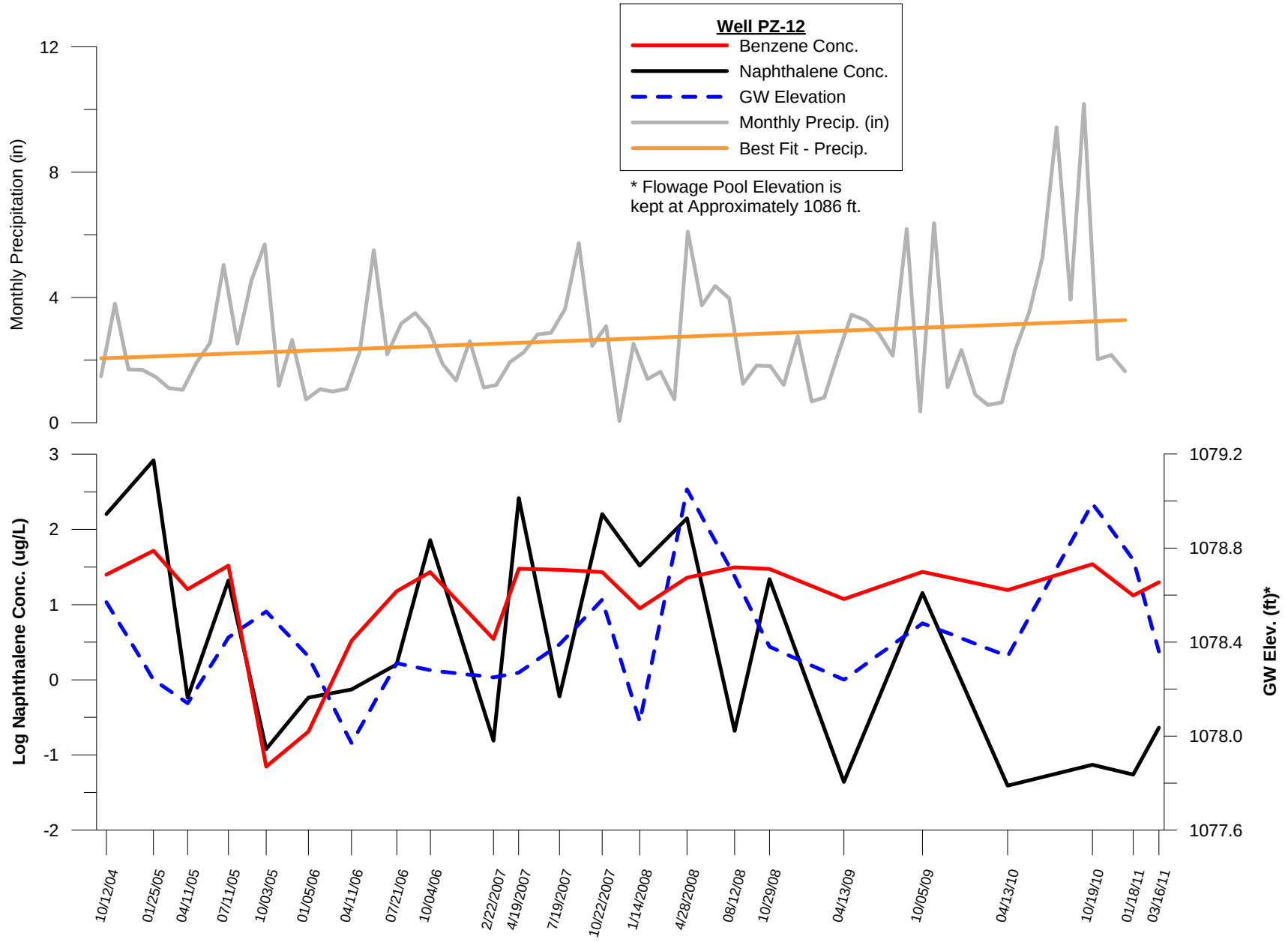
04/13/10
10/19/10
01/18/11
03/16/11


Well OW-14
Benzene Conc.
Naphthalene Conc.
GW Elevation
Monthly Precip. (in)
Best Fit - Precip.
* Flowage Pool Elevation is kept at Approximately 1086 ft.
Monthly Precipitation (in)
12
8
4
0
Log Naphthalene Conc. (ug/L)
4
3
2
1
0
-1
GW Elev. (ft)*
1079.0
1078.8
1078.6
1078.4
1078.2
1078.0
1077.8
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11


Well P-5B
Benzene Conc.
Naphthalene Conc.
GW Elevation
Monthly Precip. (in)
Best Fit - Precip.
* Flowage Pool Elevation is kept at Approximately 1086 ft.
Monthly Precipitation (in)
12
8
4
0
Log Naphthalene Conc. (ug/L)
4
2
0
-2
GW Elev. (ft)*
1079.6
1079.2
1078.8
1078.4
1078.0
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11


Well PZ-7B
Benzene Conc.
Naphthalene Conc.
GW Elevation
Monthly Precip. (in)
Best Fit - Precip.
* Flowage Pool Elevation is kept at Approximately 1086 ft.
Monthly Precipitation (in)
12
8
4
0
Log Naphthalene Conc. (ug/L)
4
3
2
1
0
-1
GW Elev. (ft)*
1080.4
1080.0
1079.6
1079.2
1078.8
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11


Well PZ-11B
Benzene Conc.
Naphthalene Conc.
GW Elevation
Monthly Precip. (in)
Best Fit - Precip.
* Flowage Pool Elevation is kept at Approximately 1086 ft.
Monthly Precipitation (in)
12
8
4
0
Log Naphthalene Conc. (ug/L)
3
2
1
0
-1
-2
-3
GW Elev. (ft)*
1079.6
1079.2
1078.8
1078.4
1078.0
01/31/00
05/31/00
08/31/00
11/21/00
04/01/02
10/28/02
06/16/03
11/20/03
04/20/04
07/20/04
10/12/04
01/25/05
04/11/05
07/11/05
10/03/05
01/05/06
04/11/06
07/21/06
10/04/06
2/22/2007
4/19/2007
7/19/2007
10/22/2007
1/14/2008
4/28/2008
08/12/08
10/29/08
04/13/09
10/05/09
04/13/10
10/19/10
01/18/11
03/16/11



File:\1177_GW-Plots_Rev1.docx

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (2/2001)

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name = WPSC - Steven Point Former MGP Site	BRRTS No. = 02-50-000079	Well Number = Benzene

	Compound ->	OW-5R	OW-6	OW-7A	OW-9	OW-10	OW-14
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	1-Jan-08	10.00	4.40	13.00	190.00	51.00	
2	28-Apr-08	1.10	3.70	15.80	144.00	0.88	57.30
3	12-Aug-08	110.00	4.10	15.20	134.00	9.20	27.70
4	29-Oct-08	114.00	3.70	23.70	349.00	15.10	33.50
5	13-Apr-09	4.10	4.00	6.90	448.00	46.70	43.00
6	5-Oct-09	54.70	2.80	13.20	358.00	13.90	16.30
7	13-Apr-10	36.70	1.60	10.20	252.00	9.00	11.70
8	19-Oct-10	13.20	2.05	29.60	137.00	4.90	11.90
9	18-Jan-11	2.10	25.00	18.40	227.00	3.20	8.60
10	16-Mar-11	0.81	3.30	12.10	210.00	1.80	7.40
	Mann Kendall Statistic (S) =	-13.0	-14.0	1.0	1.0	-21.0	-28.0
	Number of Rounds (n) =	10	10	10	10	10	9
	Average =	34.67	5.47	15.81	244.90	15.57	24.16
	Standard Deviation =	44.362	6.923	6.657	107.291	18.207	17.476
	Coefficient of Variation(CV)=	1.280	1.267	0.421	0.438	1.170	0.723
Error Check, Blank if No Errors Detected							
Trend ≥ 80% Confidence Level		**DECREASING**	**DECREASING**	No Trend	No Trend	**DECREASING**	**DECREASING**
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	**DECREASING**	**DECREASING**
Stability Test, If No Trend Exists at 80% Confidence Level		NA	NA	**CV <= 1 STABLE**	**CV <= 1 STABLE**	NA	NA

Data Entry By = EPK	Date = 20-May-11	Checked By = JJW

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (2/2001)

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name = WPSC - Steven Point Former MGP Site	BRRTS No. = 02-50-000079	Well Number = Naphthalene

	Compound ->	OW-5R	OW-6	OW-7A	OW-9	OW-10	OW-14
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	1-Jan-08	120.00	41.00	130.00	4,500.00	970.00	
2	28-Apr-08	0.57	3,060.00	348.00	2,910.00	10.60	608.00
3	12-Aug-08	490.00	1,720.00	219.00	1,630.00	42.30	387.00
4	29-Oct-08	169.00	1,090.00	496.00	1,950.00	282.00	95.70
5	13-Apr-09	0.88	5.30	87.80	1,650.00	145.00	244.00
6	5-Oct-09	16.40	1,130.00	250.00	2,560.00	2,370.00	9.50
7	13-Apr-10	15.70	0.05	105.00	2,370.00	119.00	4.30
8	19-Oct-10	0.96	1,440.00	478.00	3,720.00	15.10	173.00
9	18-Jan-11	0.48	1,090.00	92.20	114.00	52.80	149.00
10	16-Mar-11	0.63	0.59	52.50	2,220.00	18.40	0.47
	Mann Kendall Statistic (S) =	-19.0	-14.0	-13.0	-9.0	-9.0	-22.0
	Number of Rounds (n) =	10	10	10	10	10	9
	Average =	81.46	957.69	225.85	2362.40	402.52	185.66
	Standard Deviation =	155.356	993.235	164.274	1203.742	749.633	203.141
	Coefficient of Variation(CV)=	1.907	1.037	0.727	0.510	1.862	1.094
Error Check, Blank if No Errors Detected							
Trend ≥ 80% Confidence Level		DECREASING	DECREASING	DECREASING	No Trend	No Trend	DECREASING
Trend ≥ 90% Confidence Level		DECREASING	No Trend	No Trend	No Trend	No Trend	DECREASING
Stability Test, If No Trend Exists at 80% Confidence Level		NA	NA	NA	CV <= 1 STABLE	CV > 1 NON-STABLE	NA

Data Entry By = EPK	Date = 20-May-11	Checked By = JJW

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (2/2001)

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =	WPSC - Steven Point Former MGP Site	BRRTS No. =	02-50-000079	Well Number =	Benz/Napth

	Compound ->	P-5B (Benz)	P-5B (Naph)	PZ-7B (Benz)	PZ-7B (Naph)	PZ-12B (Benz)	PZ-12B (Naph)
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	1-Jan-08	0.25	0.29	1.40	940.00	8.90	33.00
2	28-Apr-08	8.00	947.00	0.80	24.70	22.80	140.00
3	12-Aug-08	7.10	485.00	1.70	794.00	31.30	0.21
4	29-Oct-08	7.80	1,030.00	5.70	1,680.00	29.70	21.70
5	13-Apr-09	0.28	0.17	1.15	65.70	11.90	0.04
6	5-Oct-09	6.00	555.00	2.30	701.00	27.20	14.30
7	13-Apr-10	2.30	0.02	0.20	14.10	15.60	0.04
8	19-Oct-10	6.80	1,600.00	1.00	587.00	34.40	0.07
9	18-Jan-11	0.50	14.80	0.91	945.00	13.20	0.10
10	16-Mar-11	0.50	0.02	2.50	5.80	19.70	0.23
	Mann Kendall Statistic (S) =	-10.0	-7.0	-1.0	-11.0	3.0	-17.0
	Number of Rounds (n) =	10	10	10	10	10	10
	Average =	3.95	463.23	1.77	575.73	21.47	20.97
	Standard Deviation =	3.451	569.147	1.547	553.367	8.955	43.420
	Coefficient of Variation(CV)=	0.873	1.229	0.876	0.961	0.417	2.071
Error Check, Blank if No Errors Detected							
Trend ≥ 80% Confidence Level		No Trend	No Trend	No Trend	DECREASING	No Trend	DECREASING
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	DECREASING
Stability Test, If No Trend Exists at 80% Confidence Level		CV <= 1 STABLE	CV > 1 NON-STABLE	CV <= 1 STABLE	NA	CV <= 1 STABLE	NA

Data Entry By =	EPK	Date =	20-May-11	Checked By =	JJW

Table N-1: Contaminant Transport Velocity
WPSC - Stevens Point Former MGP

Groundwater Velocity (Vgw)		
	Vgw (ft/year)	Vgw (cm/sec)
Lower End	40	3.87E-05
Upper End	140	1.35E-04

Calculation of Contaminant Travel Distance (Xc)												
									60 year travel dist.		20 year travel dist.	
Parameter	K_{oc} (L/kg)	f_{oc} (-)	D_b (pcf)	D_b (g/cm^3)	n_e (-)	Rd (-)	Vc (cm/sec)	Vc (ft/yr)	t (yrs)	Xc (ft)	t (yrs)	Xc (ft)
Benzene (lower)	59	0.00028	111.2	1.78	0.30	1.10	3.52E-05	36	60	**2,186**	20	729
Benzene (upper)	59	0.00028	111.2	1.78	0.30	1.10	1.23E-04	127	60	**7,650**	20	2,550
Naphthalene (lower)	2,000	0.00028	111.2	1.78	0.30	4.32	8.94E-06	9	60	**555**	20	185
Naphthalene (upper)	2,000	0.00028	111.2	1.78	0.30	4.32	3.13E-05	32	60	**1,942**	20	647

Table Notes

Groundwater Velocity (Vgw) was reported in Section 4.2 of the Stevens Point RI report revision 1.

Organic carbon partition coefficients (K_{oc}) from WDNR Natural Attenuation Guidance (RR-614; 4/03)

Fraction organic carbon (f_{oc}) reported in Table 16.5.3 for Borden aquifer sand in the *Handbook of Hydrology* (1992, Maidment)

Bulk density (D_b) value was taken from 2011 geotechnical report of wet bulk density for native fine to coarse sand at SV7(11-12) and converted to g/cm3 (multiply pounds per cubic foot by 0.016018 to get grams per cubic centimeter)

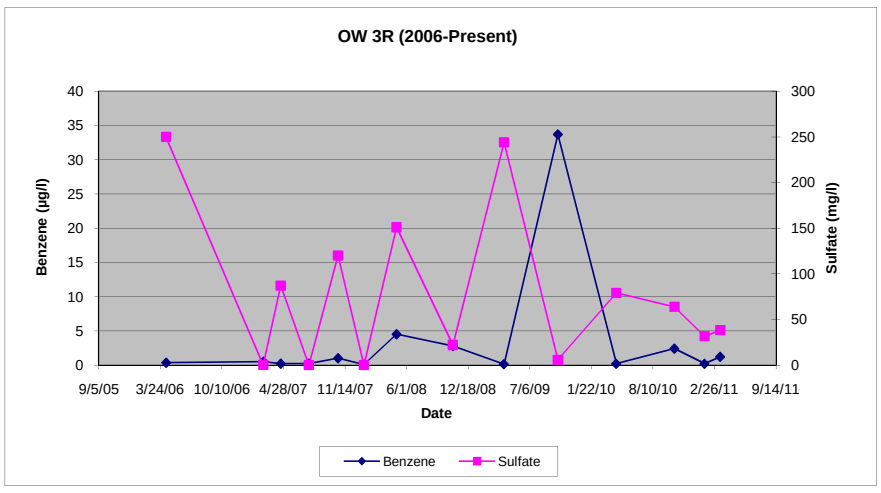
Retardation (Rd) = $1+(K_{oc}*f_{oc}*Db / n_e)$

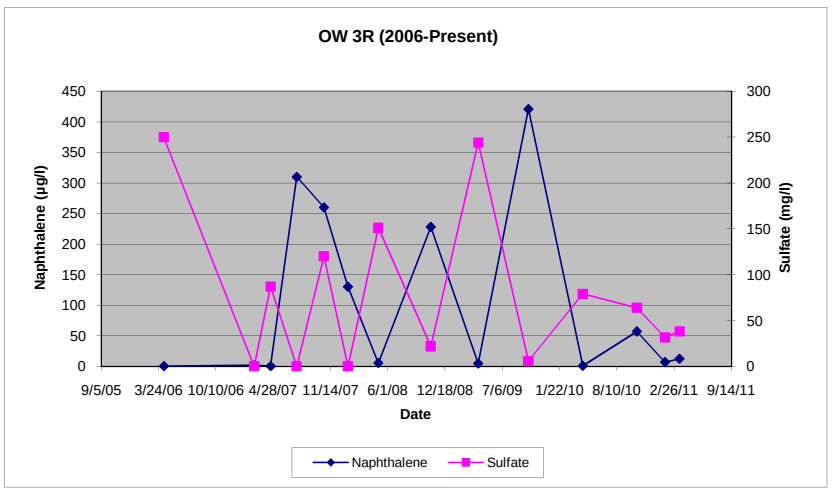
Effective porosity (n_e) was selected to be consistent with the flow model presented in the Stevens Point FS report revision 1.

Contaminant velocity (Vc) = Vgw / Rd

Travel time (t) = Approximately 60 years has passed since the closure of the former MGP facility.

Contaminant travel distance (Xc) = Vc * t


OW 3R (2006-Present)
Benzene (µg/l)
Sulfate (mg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Benzene
Sulfate


OW 3R (2006-Present)
Naphthalene (µg/l)
Sulfate (mg/l)
Date
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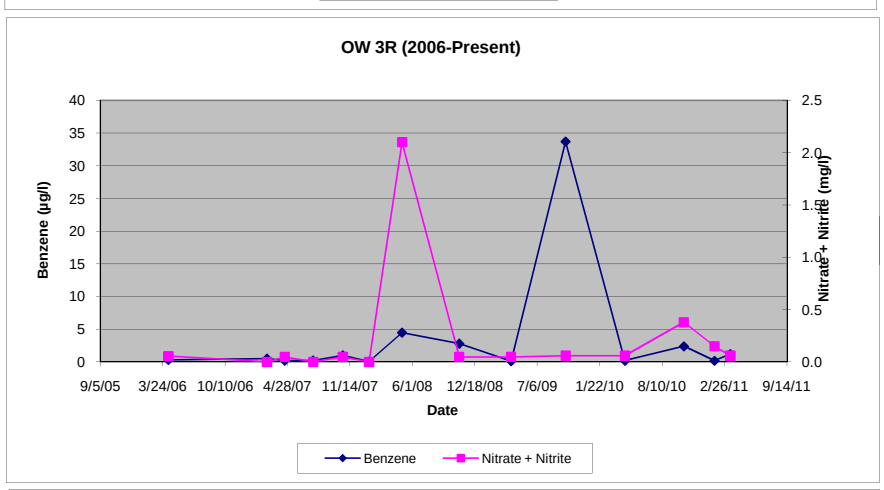
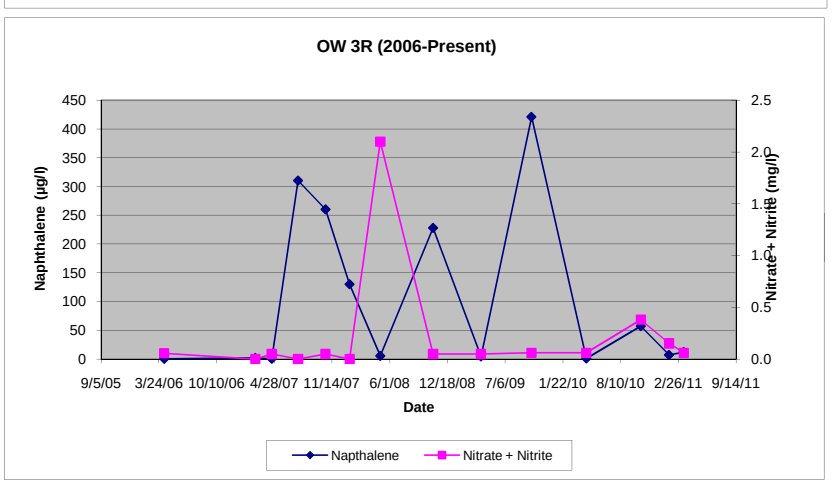
Naphthalene
Sulfate


OW 3R (2006-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Benzene
Nitrate + Nitrite


OW 3R (2006-Present)
Naphthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
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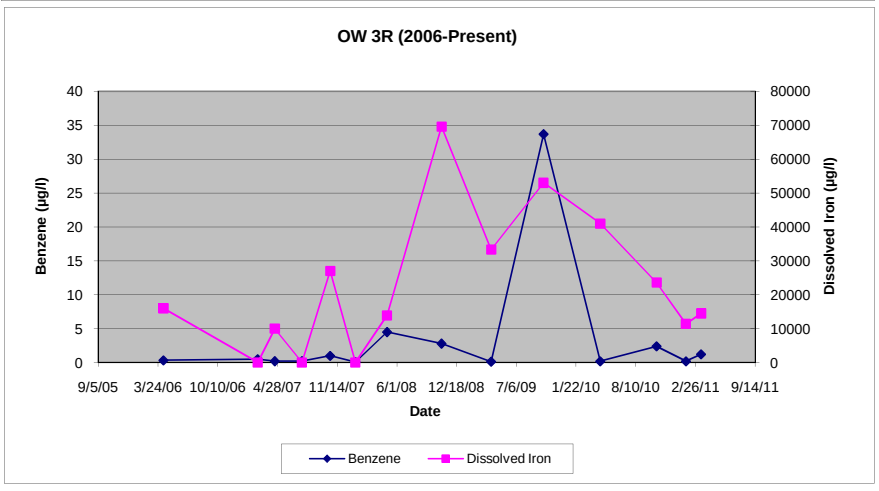
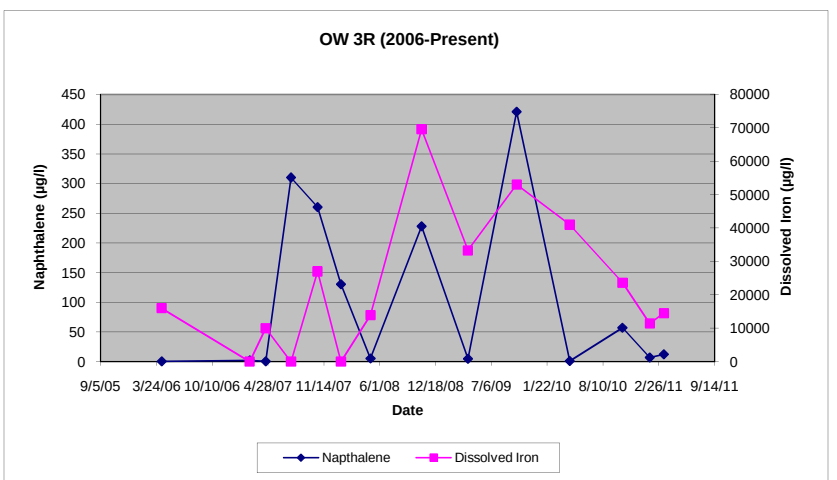
Napthalene
Nitrate + Nitrite


OW 3R (2006-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Benzene
Dissolved Iron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Naphthalene (µg/l)
Dissolved Iron (µg/l)
Date
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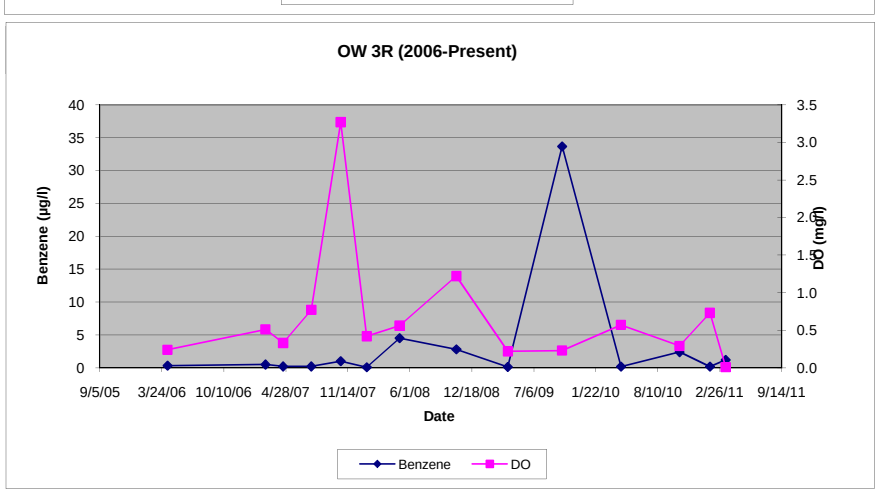
Napthalene
Dissolved Iron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Benzene (µg/l)
DO (mg/l)
Date
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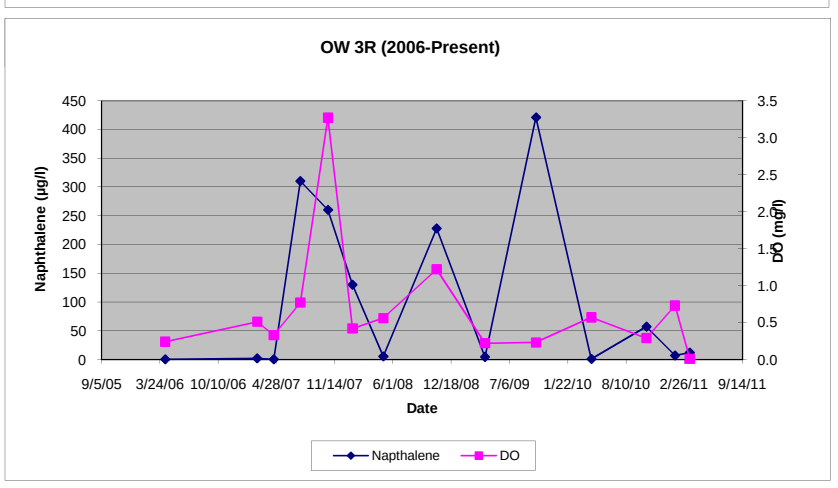
Benzene
DO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Naphthalene (µg/l)
DO (mg/l)
Date
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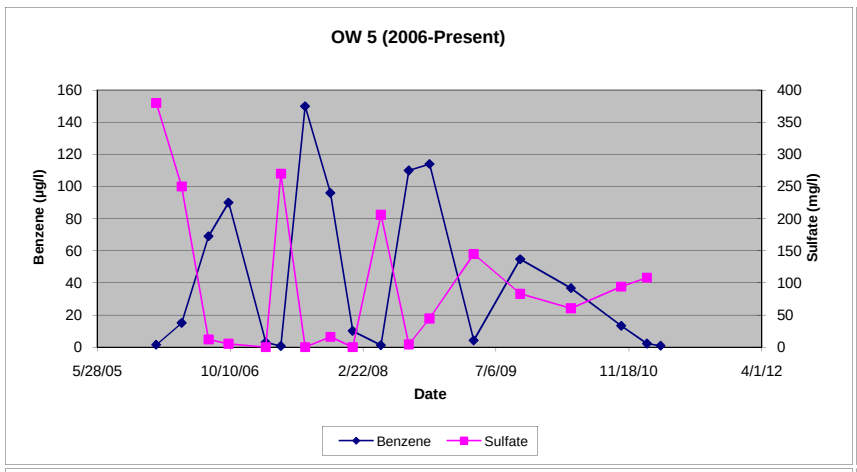
Napthalene
DO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Benzene (µg/l)
Sulfate (mg/l)
Date
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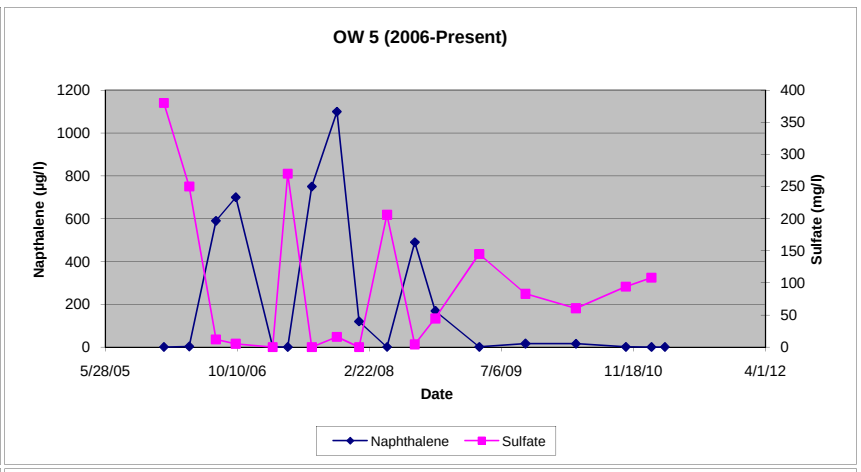
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Sulfate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Napthalene (µg/l)
Sulfate (mg/l)
Date
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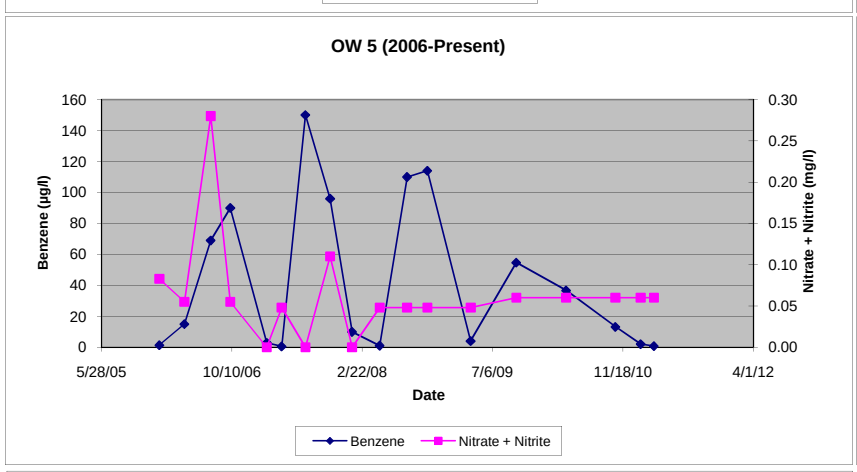
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Sulfate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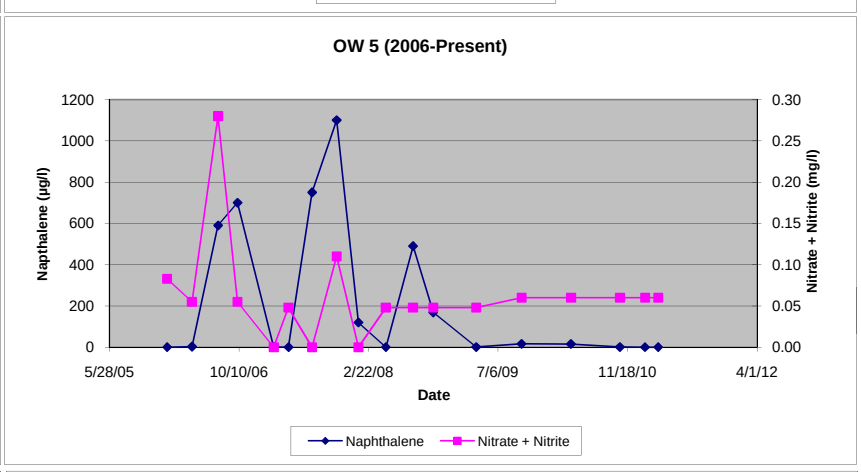
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Nitrate + Nitrite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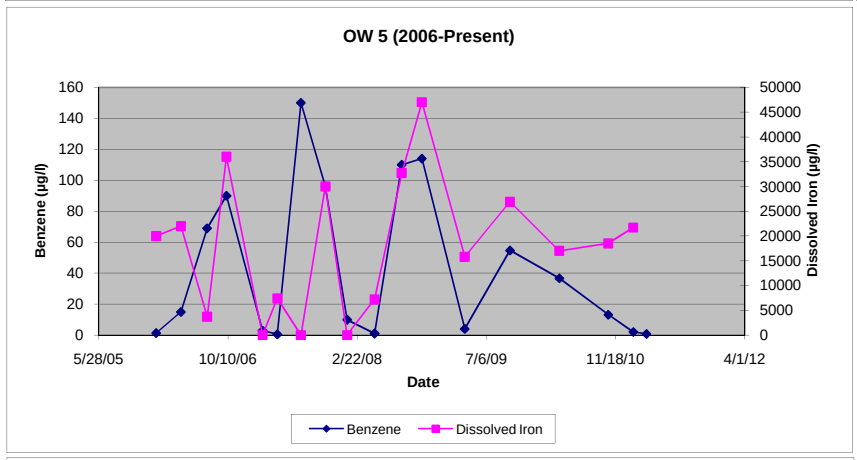
Napthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Nitrate + Nitrite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Benzene (µg/l)
Dissolved Iron (µg/l)
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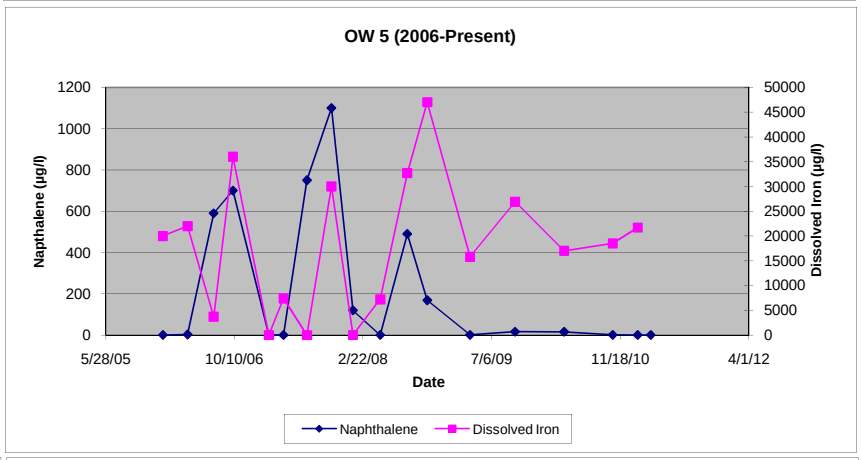
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Dissolved Iron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Napthalene (µg/l)
Dissolved Iron (µg/l)
Date
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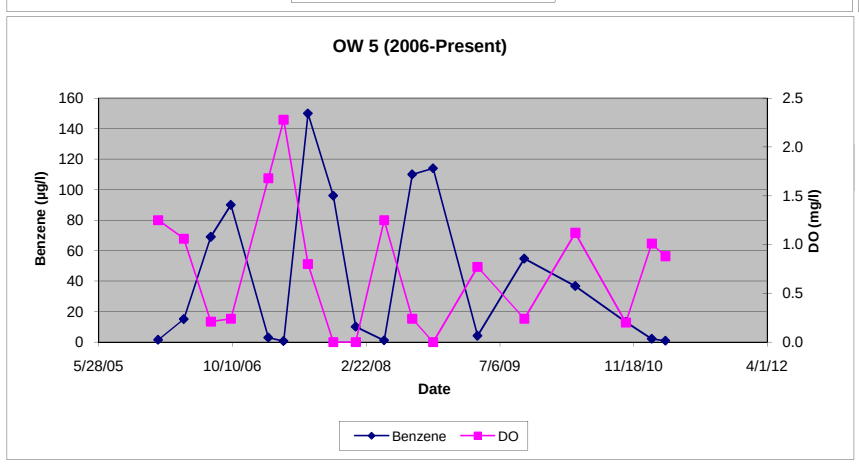
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Dissolved Iron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Benzene (µg/l)
DO (mg/l)
Date
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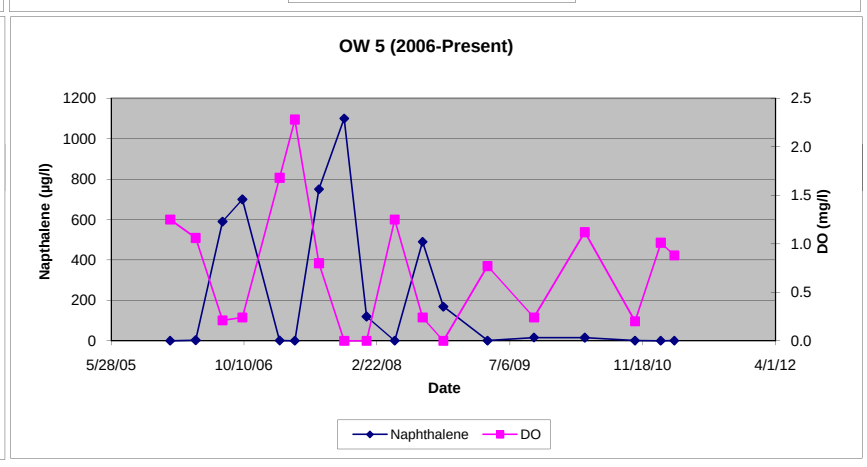
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
DO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Napthalene (µg/l)
DO (mg/l)
Date
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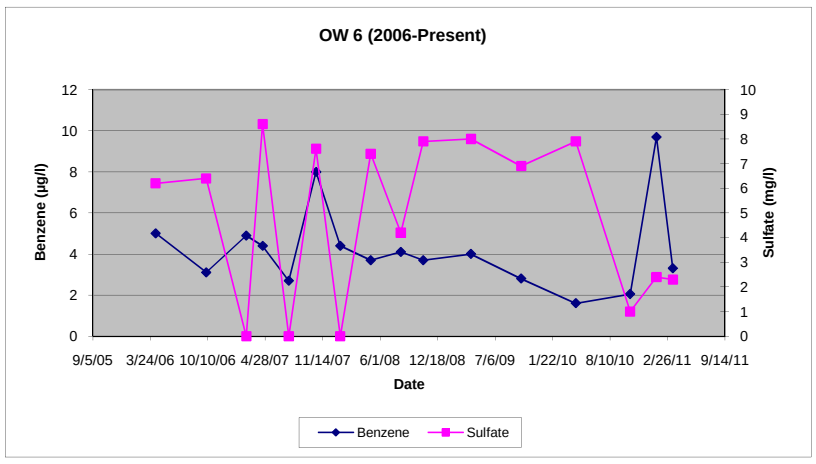
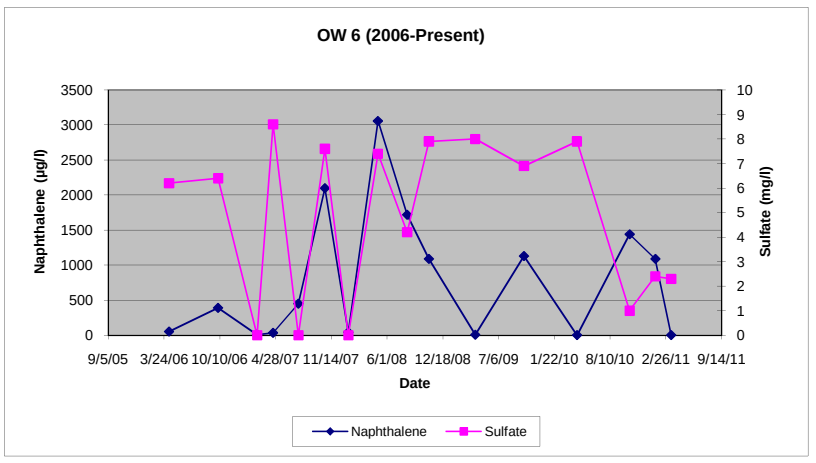
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
DO


OW 6 (2006-Present)
Benzene (µg/l)
Sulfate (mg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Benzene
Sulfate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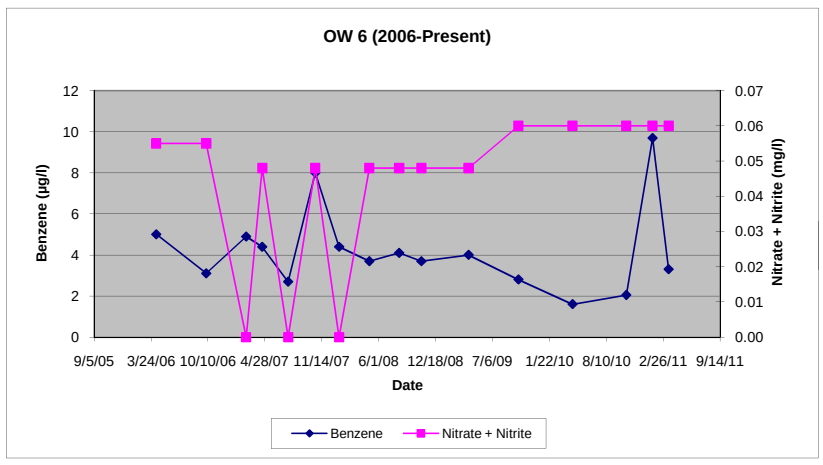
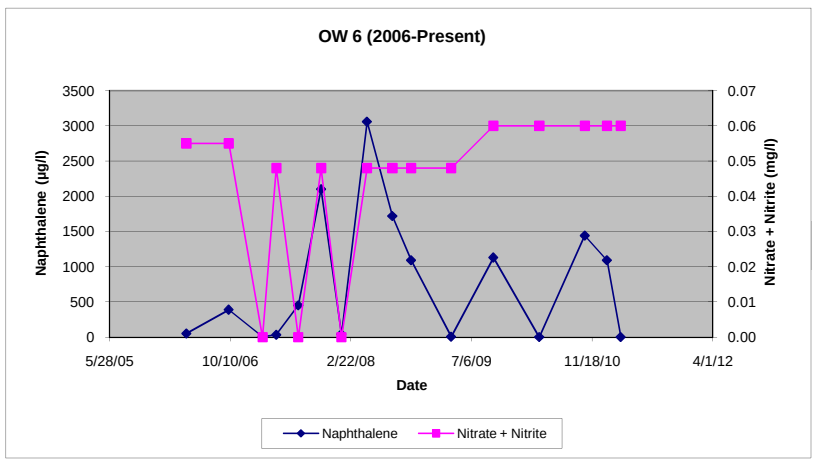
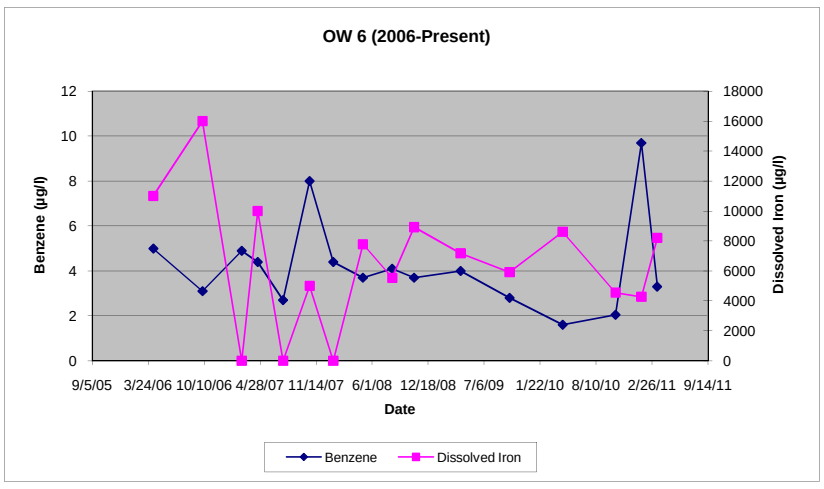
Naphthalene (µg/l)
Sulfate (mg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Naphthalene
Sulfate


OW 6 (2006-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Benzene
Nitrate + Nitrite


OW 6 (2006-Present)
Naphthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05 10/10/06 2/22/08 7/6/09 11/18/10 4/1/12
Naphthalene
Nitrate + Nitrite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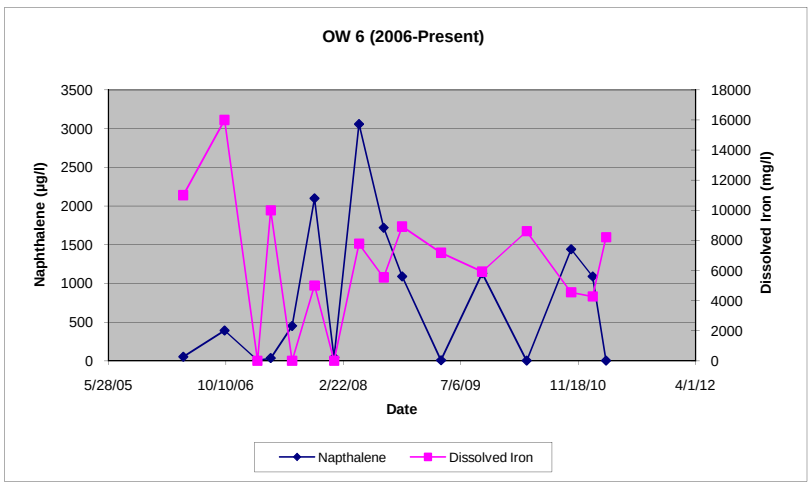
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Benzene
Dissolved Iron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Naphthalene (µg/l)
Dissolved Iron (mg/l)
Date
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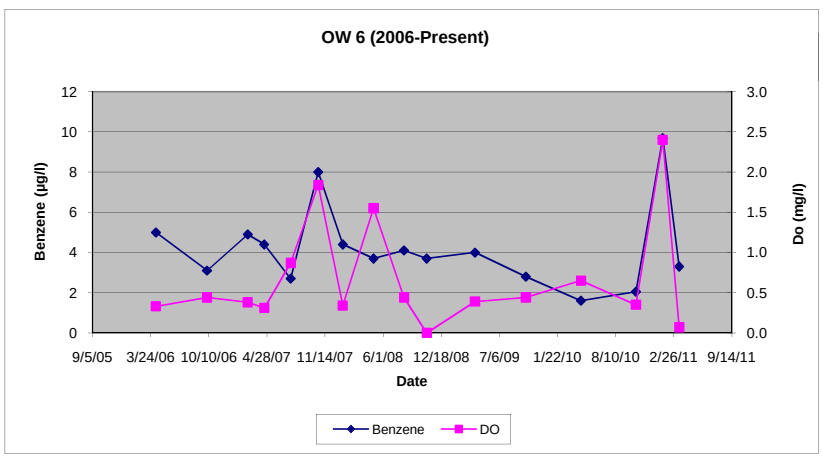
Napthalene
Dissolved Iron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Benzene (µg/l)
Do (mg/l)
Date
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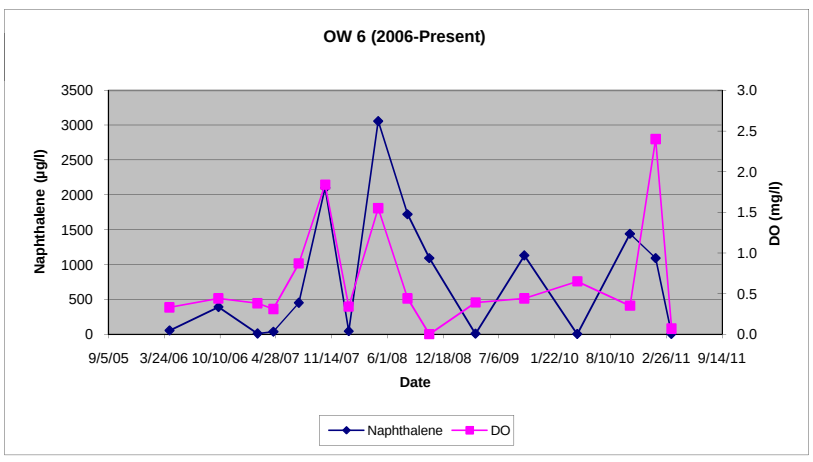
Benzene
DO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Naphthalene (µg/l)
DO (mg/l)
Date
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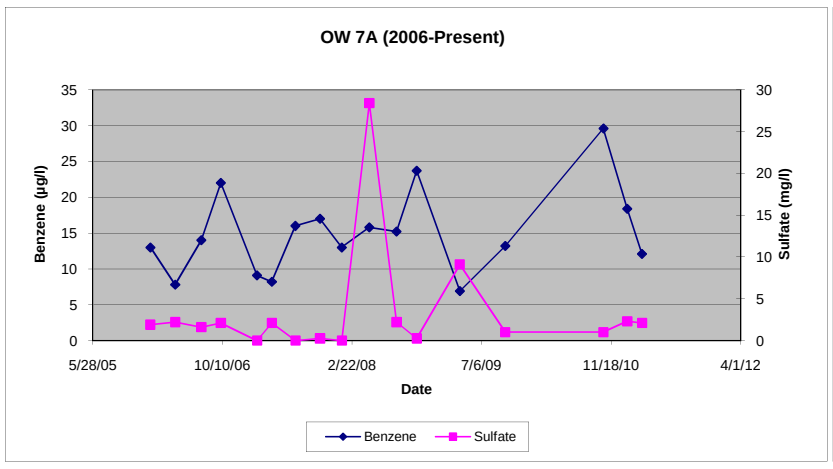
Naphthalene
DO


OW 7A (2006-Present)
Benzene (µg/l)
Sulfate (mg/l)
Date
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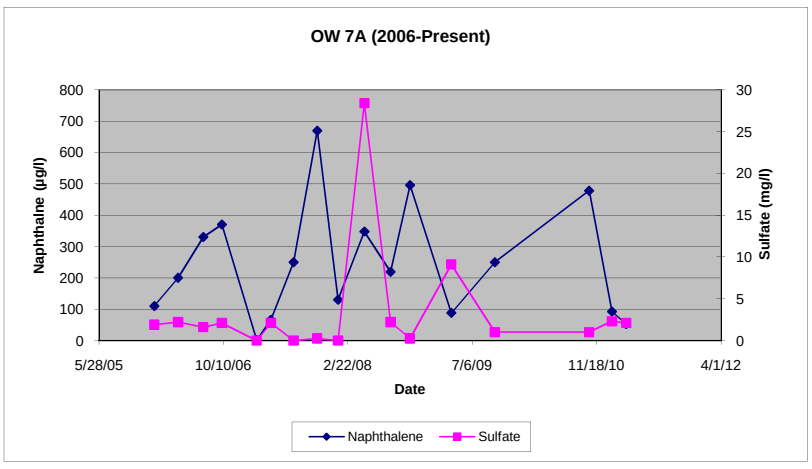
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Sulfate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Naphthalne (µg/l)
Sulfate (mg/l)
Date
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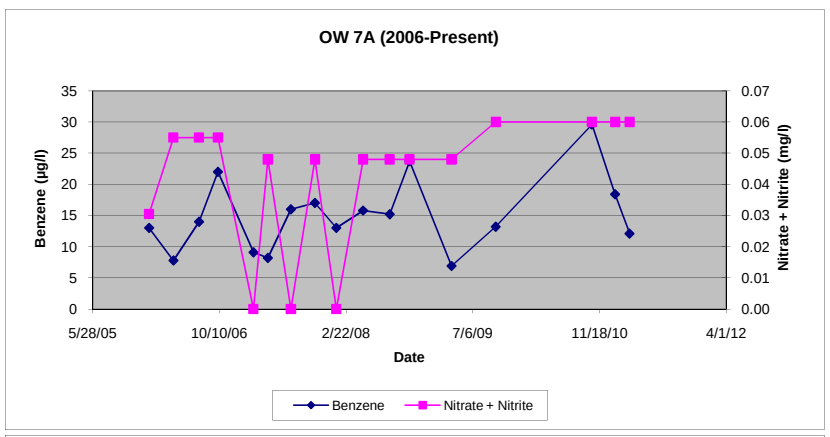
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Sulfate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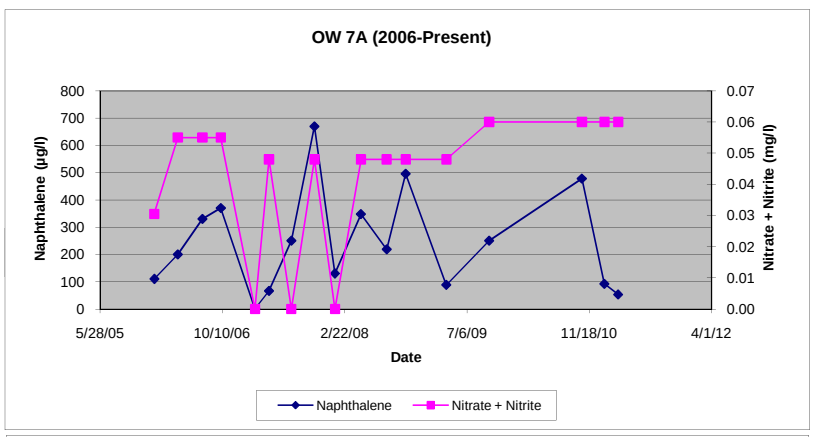
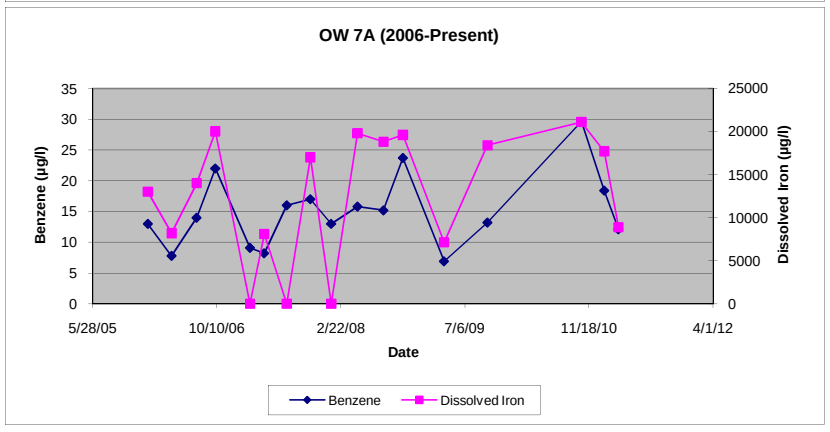
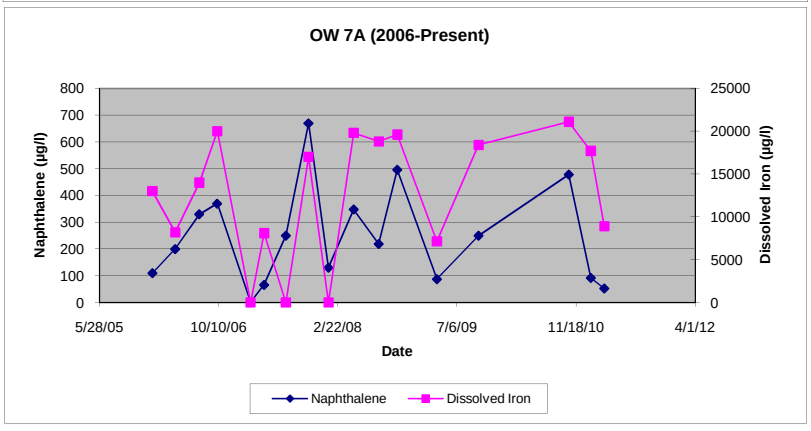
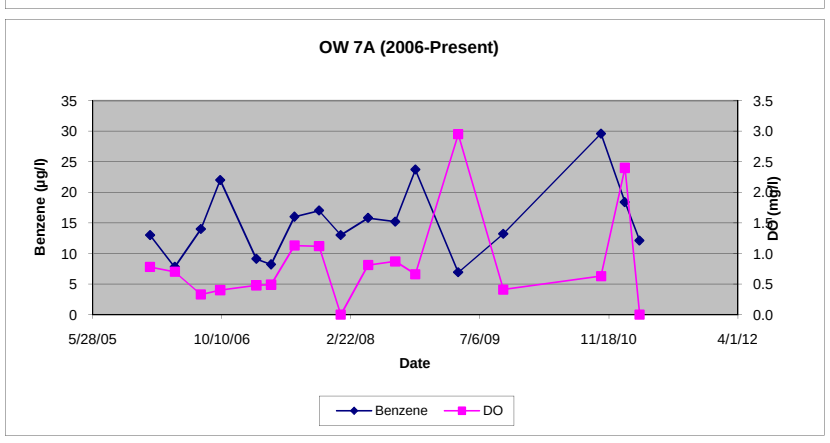
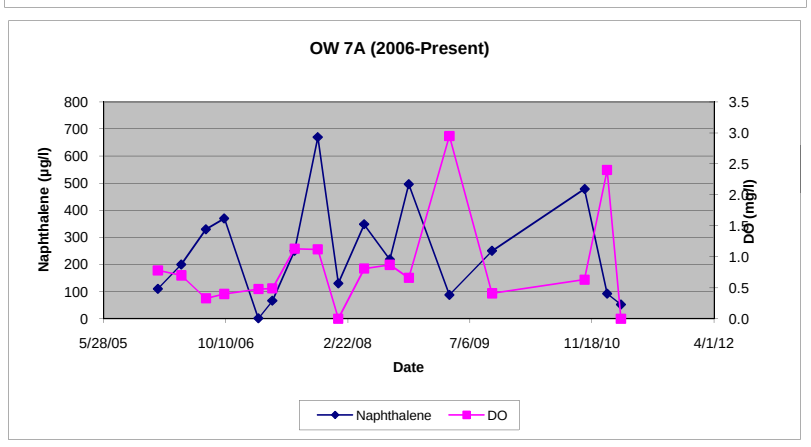
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Nitrate + Nitrite

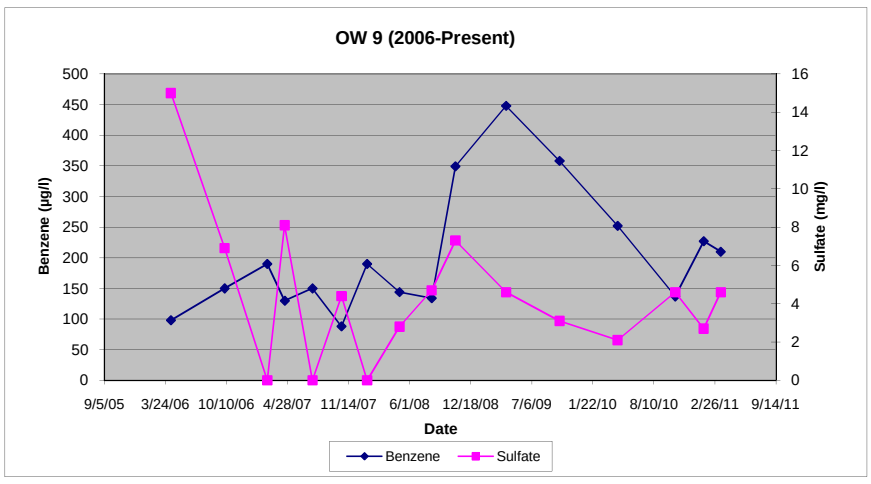

OW 7A (2006-Present)
Naphthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Nitrate + Nitrite

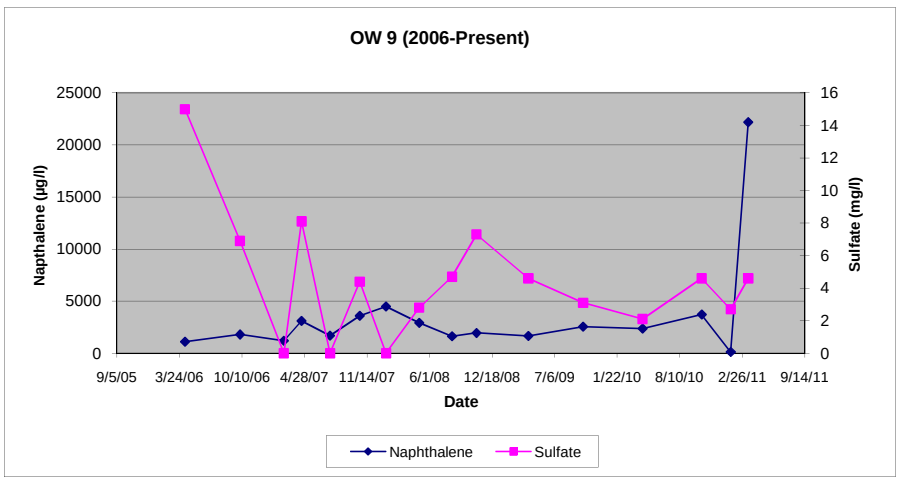

OW 7A (2006-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Dissolved Iron

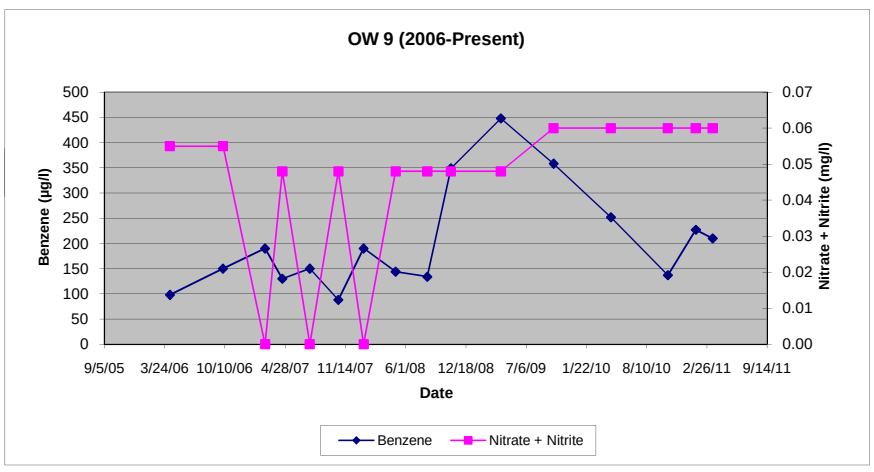

OW 7A (2006-Present)
Naphthalene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Dissolved Iron

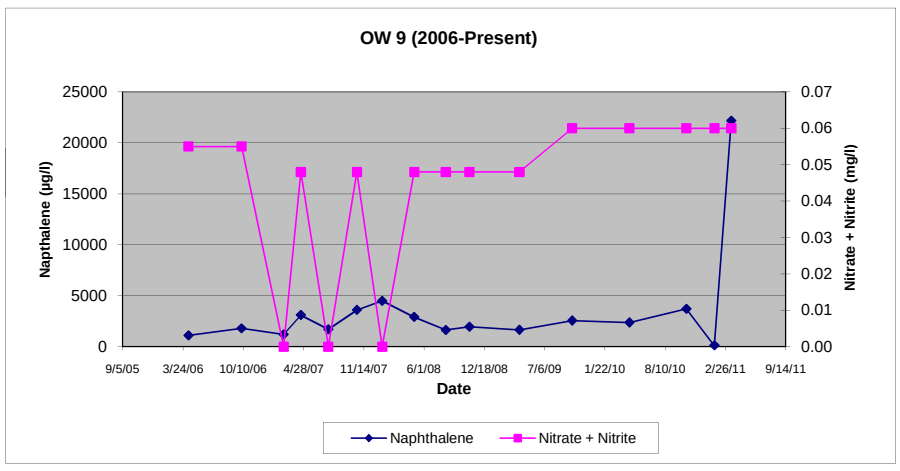

OW 7A (2006-Present)
Benzene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
DO

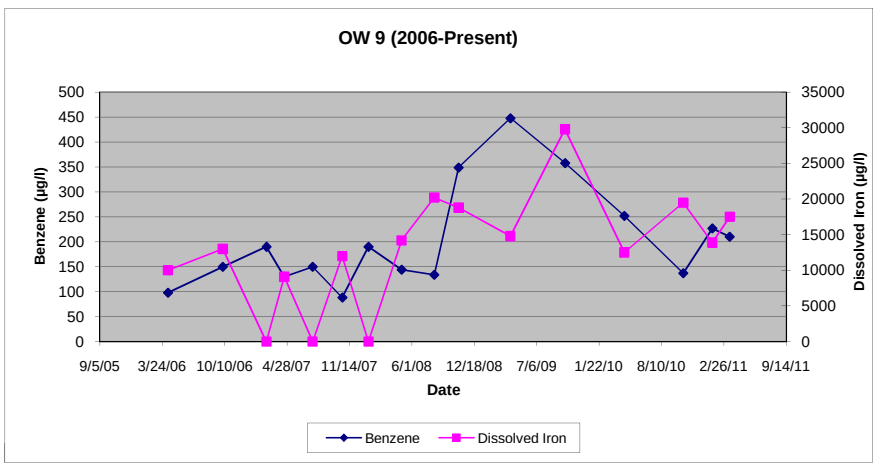

OW 7A (2006-Present)
Naphthalene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
DO

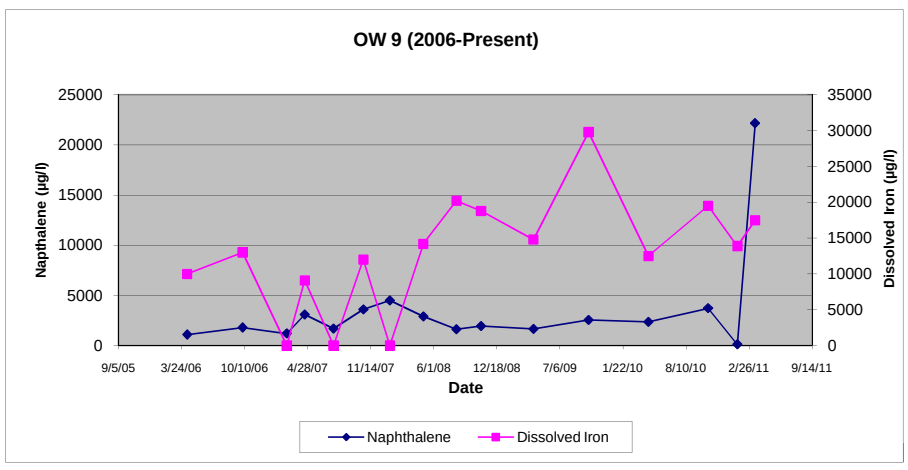

OW 9 (2006-Present)
Benzene (µg/l)
Sulfate (mg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Benzene
Sulfate

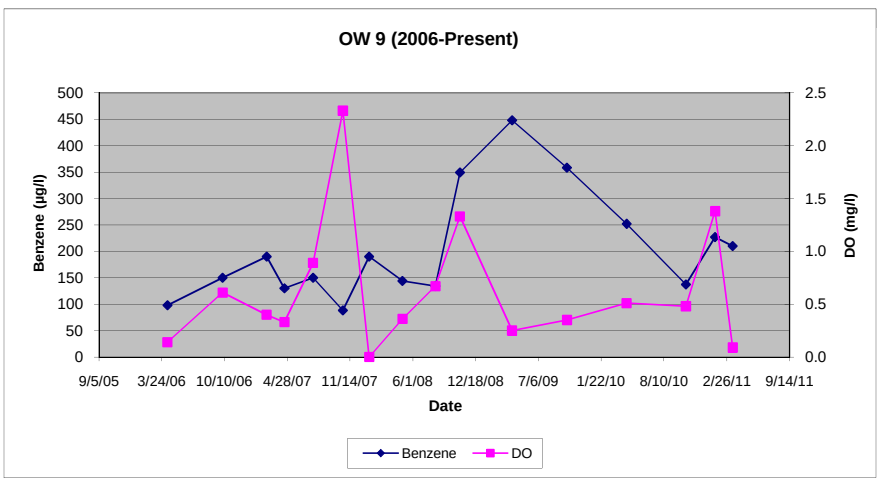

OW 9 (2006-Present)
Napthalene (µg/l)
Sulfate (mg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Naphthalene
Sulfate

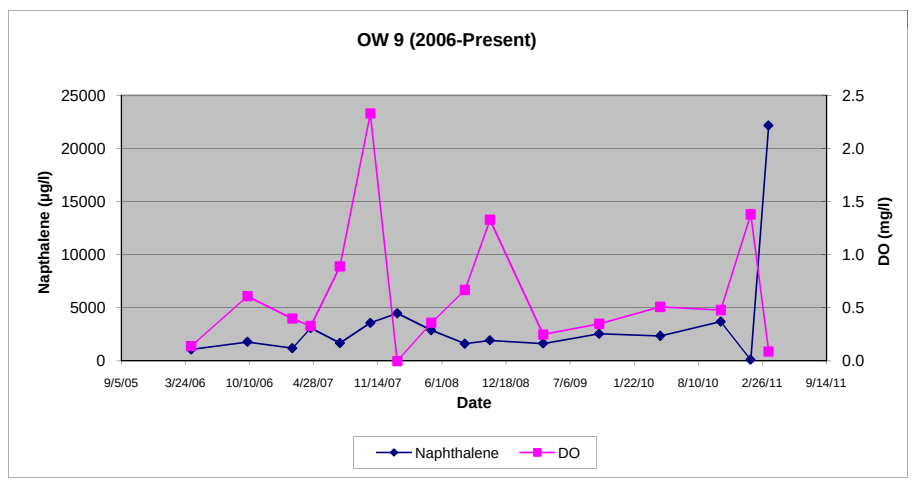

OW 9 (2006-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Benzene
Nitrate + Nitrite

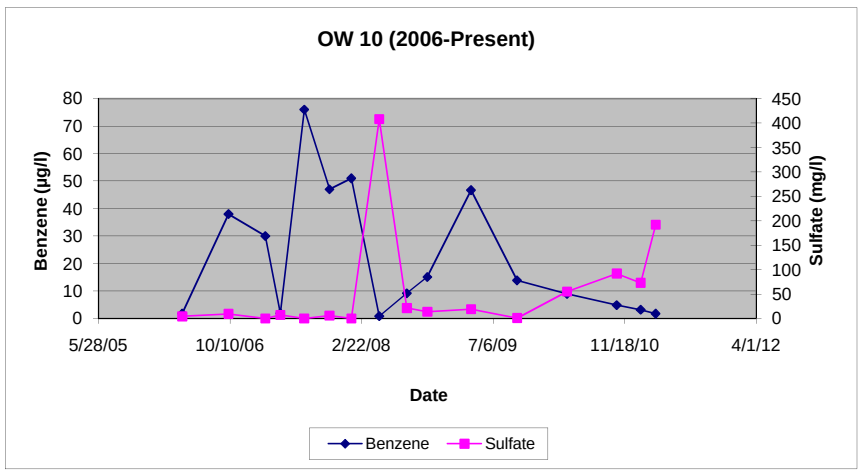

OW 9 (2006-Present)
Napthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Naphthalene
Nitrate + Nitrite

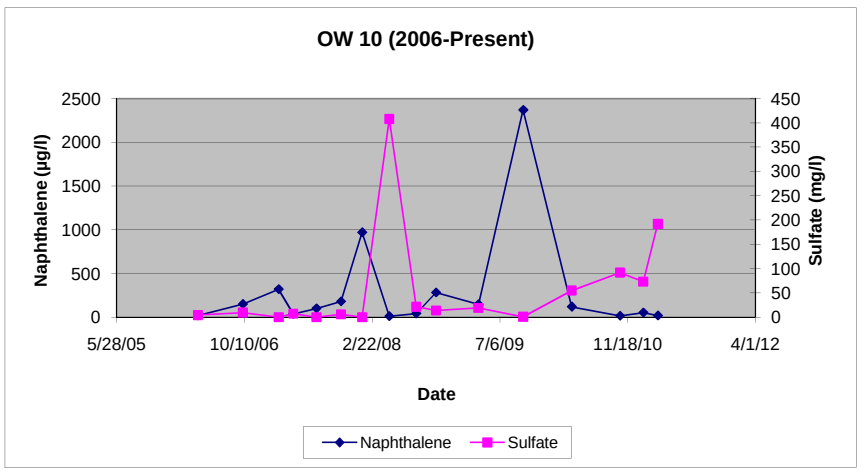

OW 9 (2006-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Benzene
Dissolved Iron

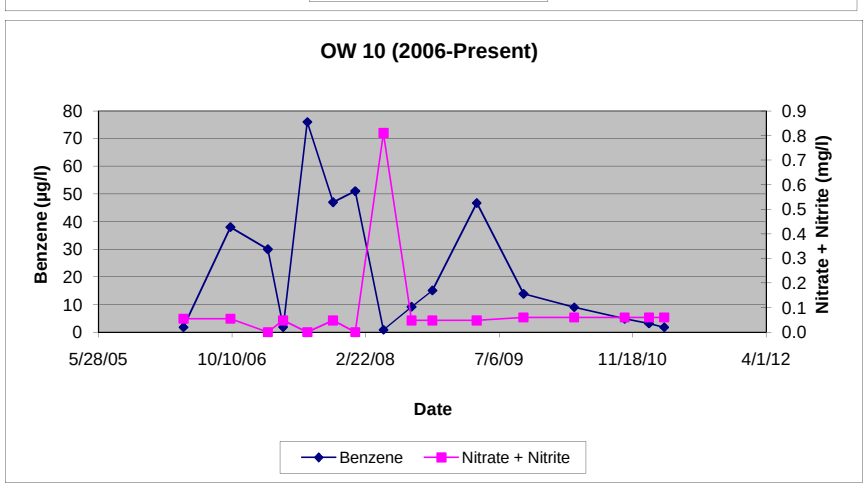

OW 9 (2006-Present)
Napthalene (µg/l)
Dissolved Iron (µg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Naphthalene
Dissolved Iron

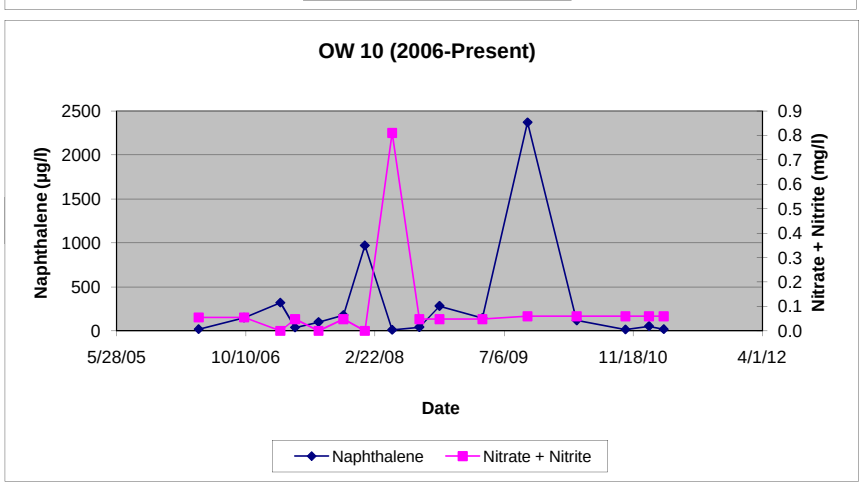

OW 9 (2006-Present)
Benzene (µg/l)
DO (mg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Benzene
DO

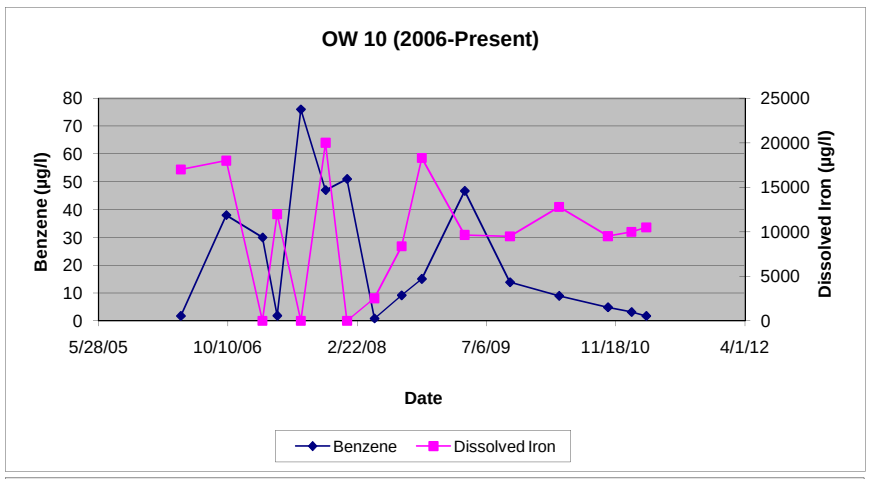

OW 9 (2006-Present)
Napthalene (µg/l)
DO (mg/l)
Date
9/5/05 3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Naphthalene
DO

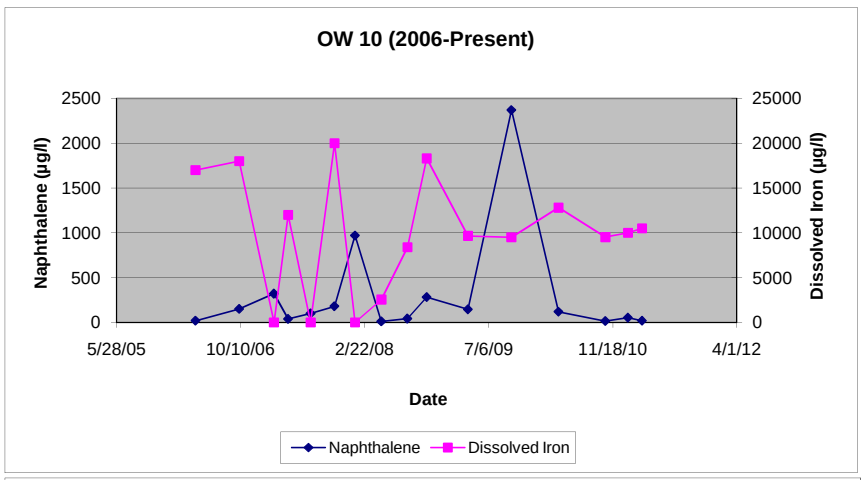

OW 10 (2006-Present)
Benzene (µg/l)
Sulfate (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Sulfate

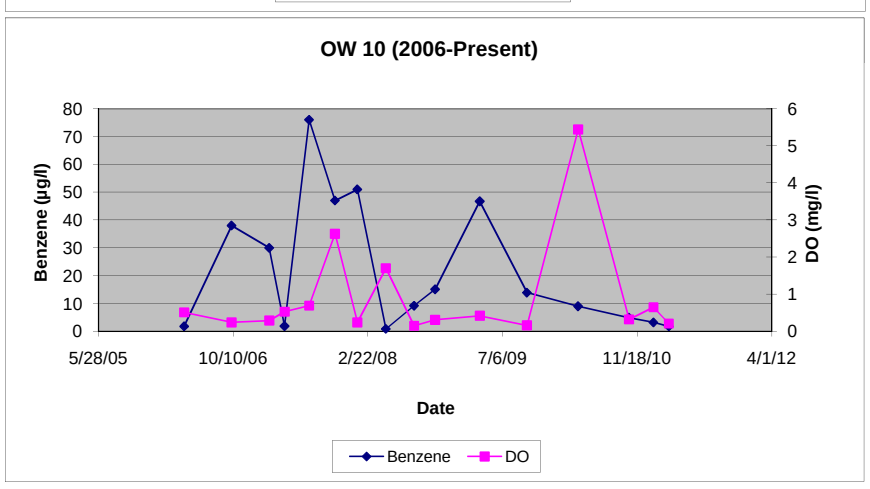

OW 10 (2006-Present)
Naphthalene (µg/l)
Sulfate (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Sulfate

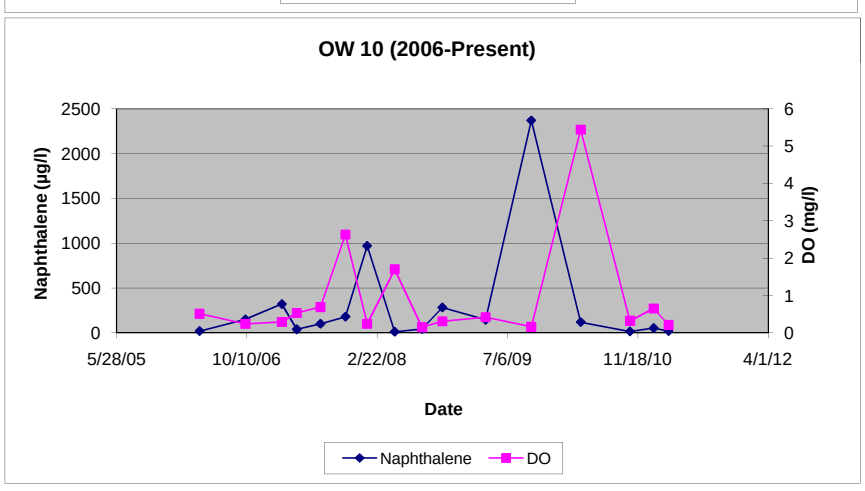

OW 10 (2006-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Nitrate + Nitrite

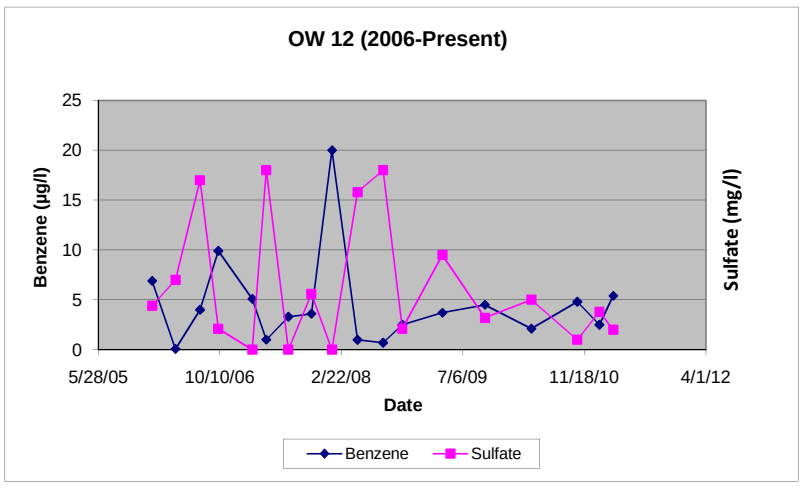

OW 10 (2006-Present)
Naphthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Nitrate + Nitrite

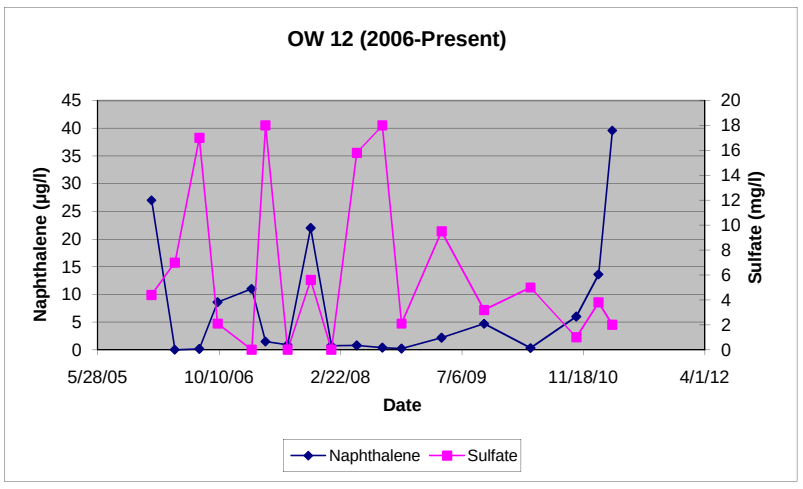

OW 10 (2006-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Dissolved Iron

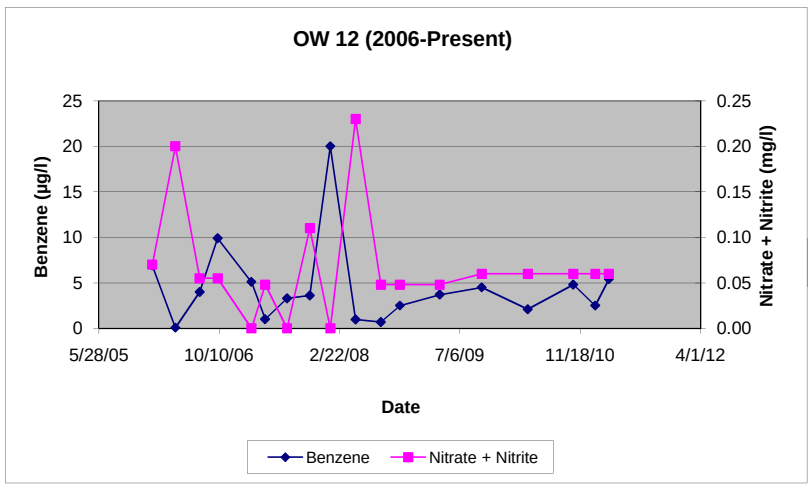

OW 10 (2006-Present)
Naphthalene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Dissolved Iron

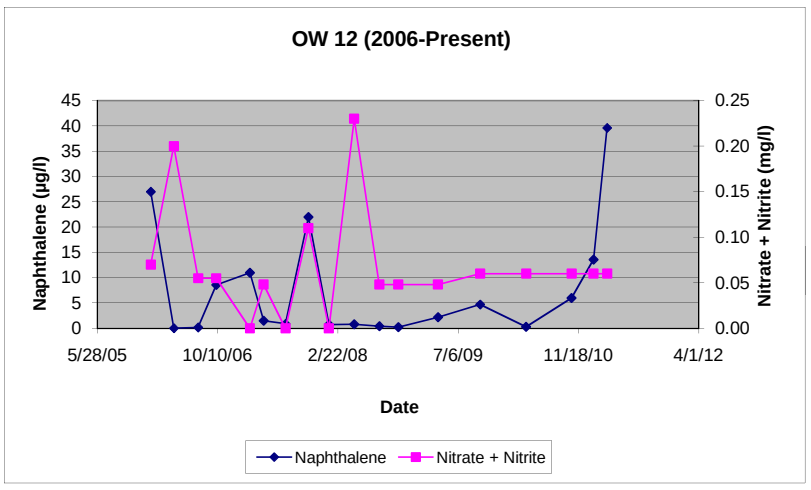

OW 10 (2006-Present)
Benzene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
DO

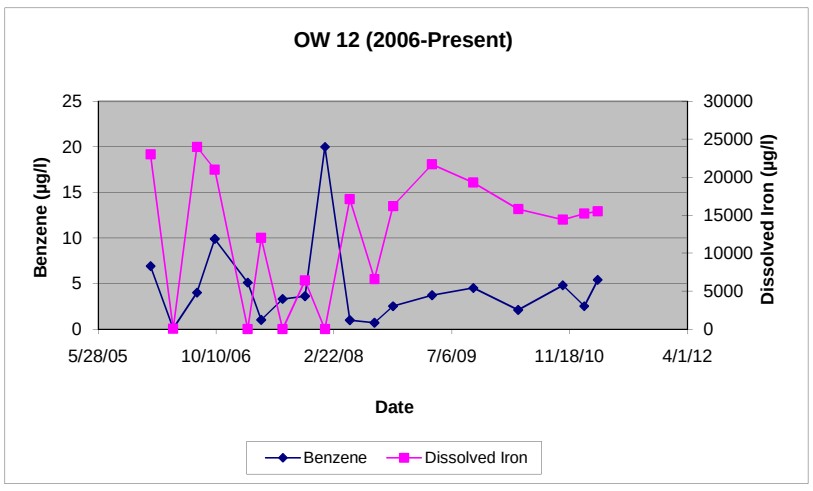

OW 10 (2006-Present)
Naphthalene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
DO

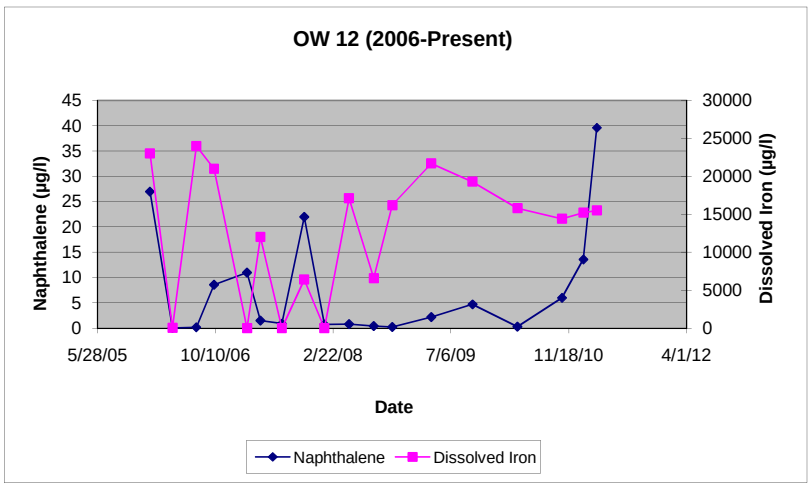

OW 12 (2006-Present)
Benzene (µg/l)
Sulfate (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Sulfate

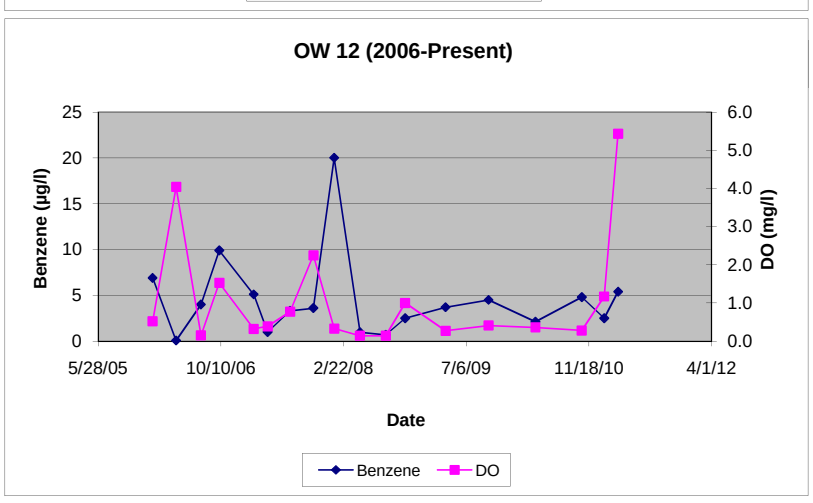

OW 12 (2006-Present)
Naphthalene (µg/l)
Sulfate (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Sulfate

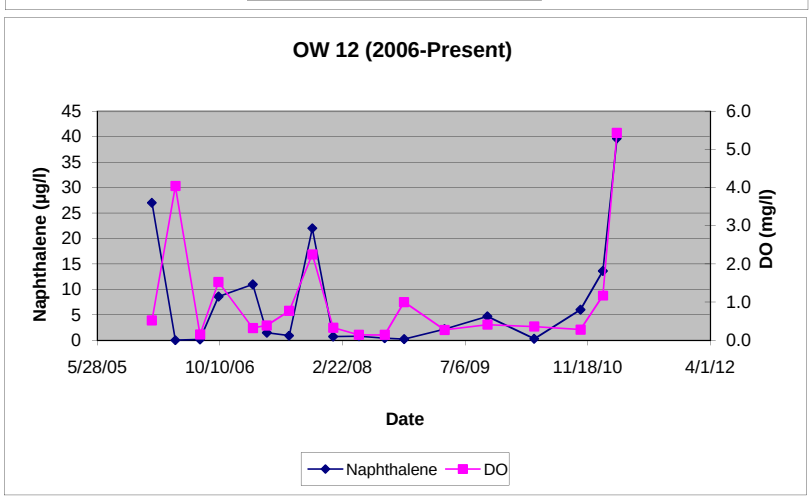

OW 12 (2006-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Nitrate + Nitrite

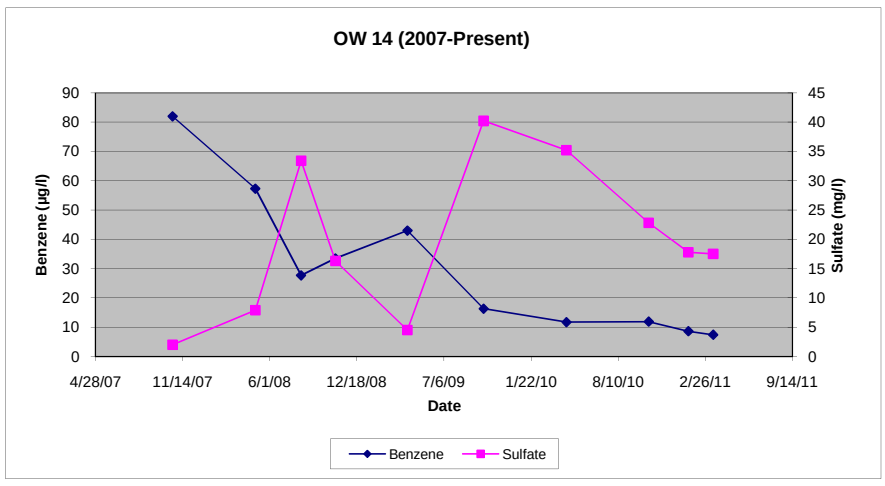

OW 12 (2006-Present)
Naphthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Nitrate + Nitrite

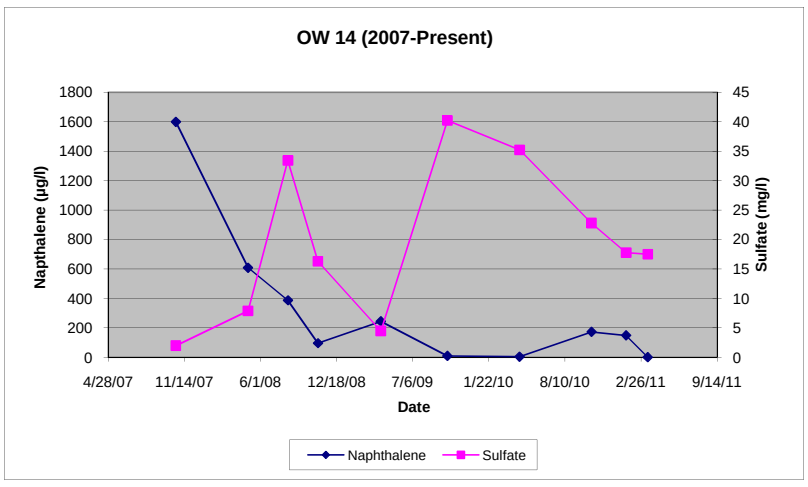

OW 12 (2006-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Dissolved Iron

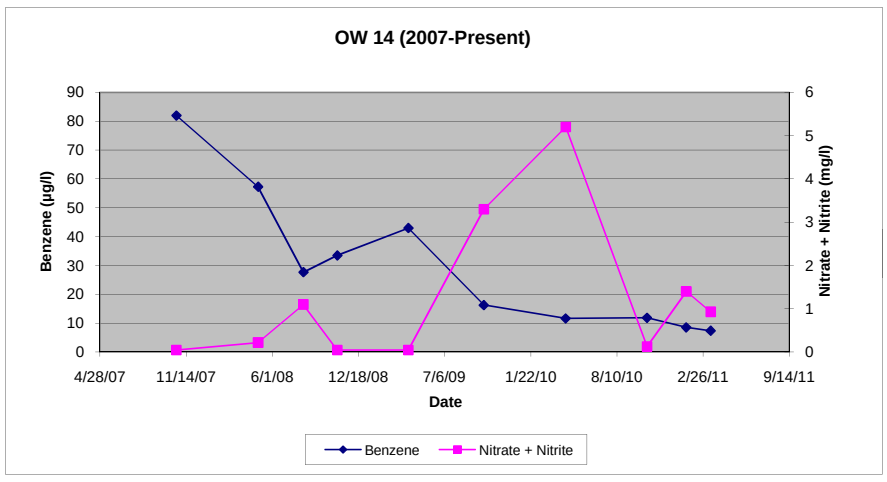

OW 12 (2006-Present)
Naphthalene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Dissolved Iron

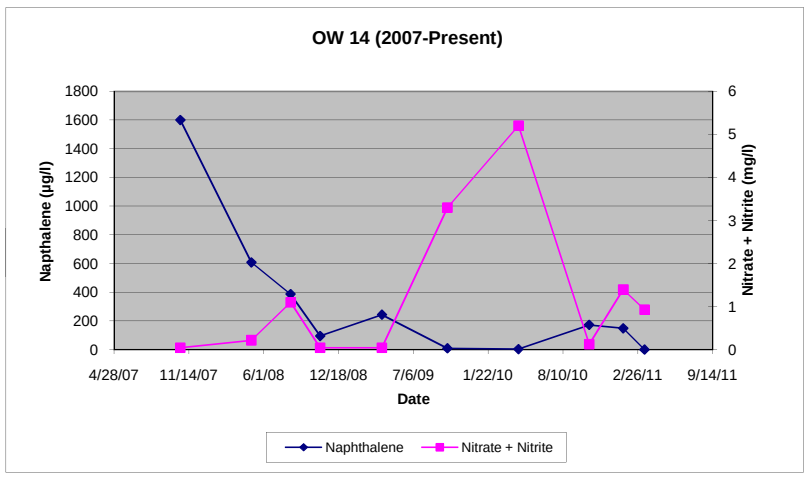

OW 12 (2006-Present)
Benzene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
DO

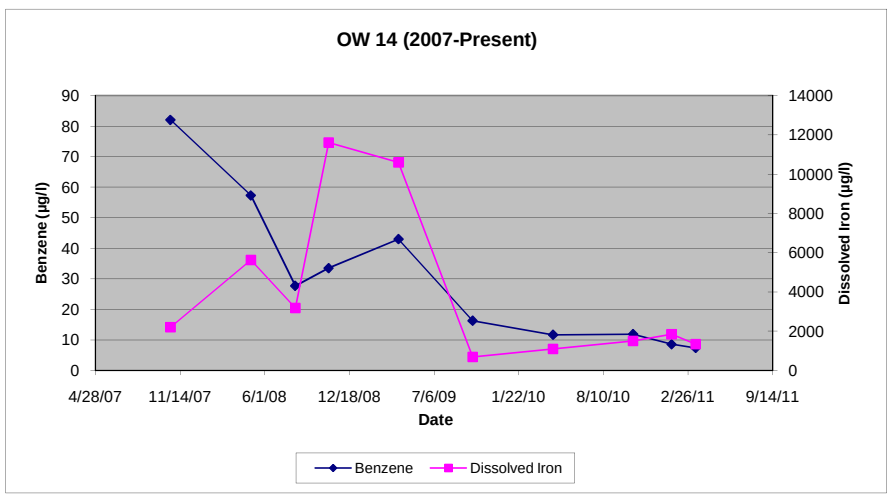

OW 12 (2006-Present)
Naphthalene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
DO

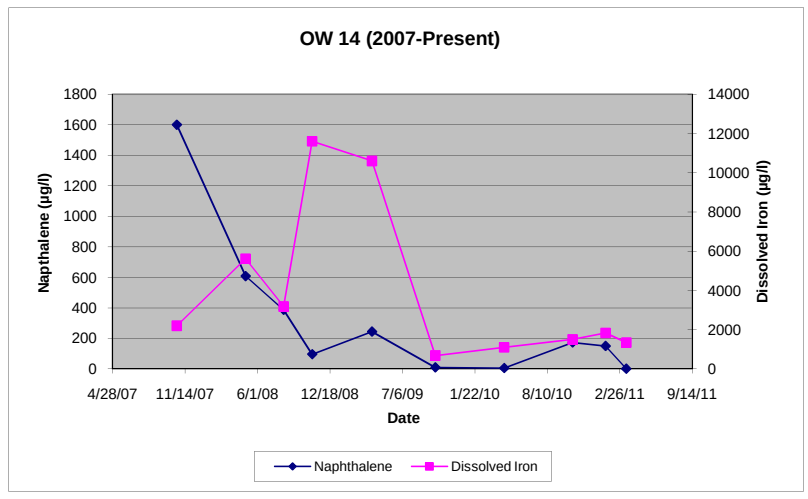

OW 14 (2007-Present)
Benzene (µg/l)
Sulfate (mg/l)
Date
4/28/07
11/14/07
6/1/08
12/18/08
7/6/09
1/22/10
8/10/10
2/26/11
9/14/11
Benzene
Sulfate

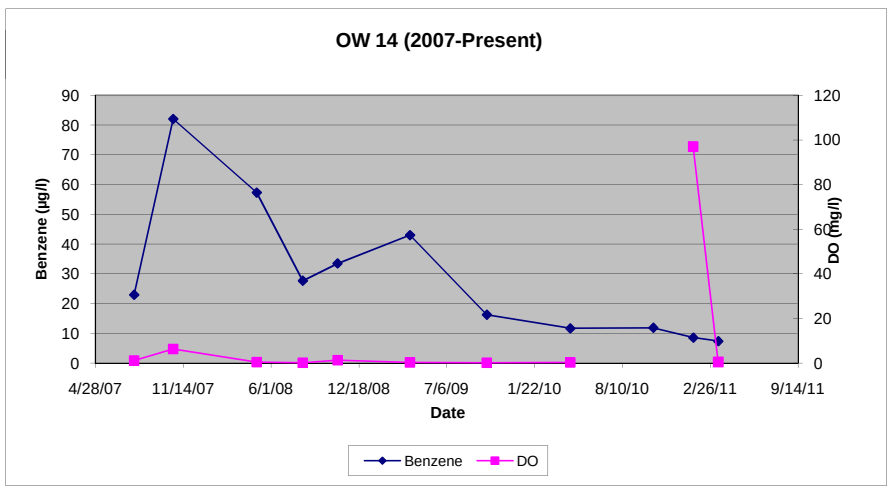

OW 14 (2007-Present)
Napthalene (µg/l)
Sulfate (mg/l)
Date
4/28/07
11/14/07
6/1/08
12/18/08
7/6/09
1/22/10
8/10/10
2/26/11
9/14/11
Naphthalene
Sulfate

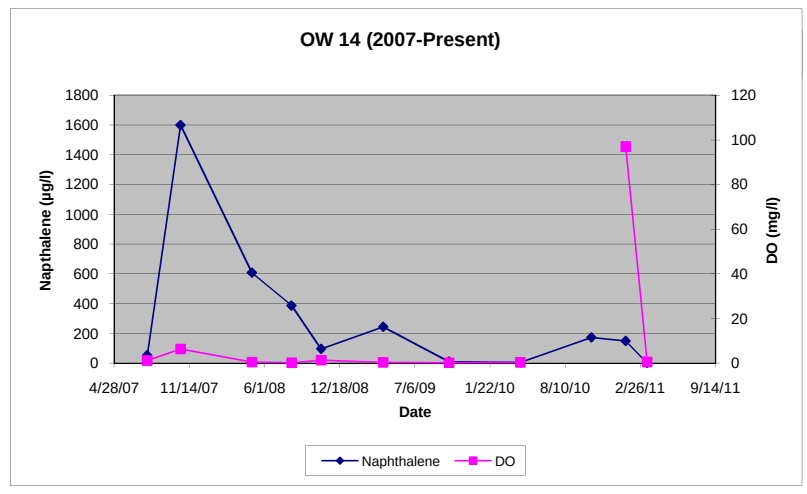

OW 14 (2007-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
4/28/07
11/14/07
6/1/08
12/18/08
7/6/09
1/22/10
8/10/10
2/26/11
9/14/11
Benzene
Nitrate + Nitrite

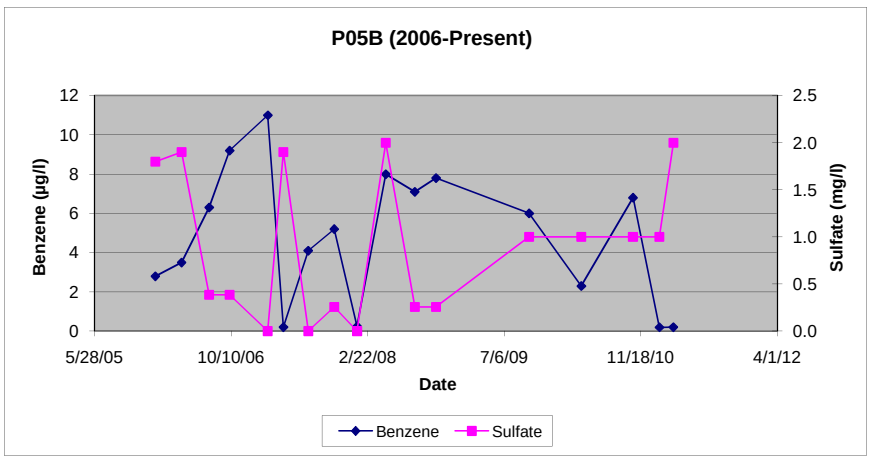

OW 14 (2007-Present)
Napthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
4/28/07
11/14/07
6/1/08
12/18/08
7/6/09
1/22/10
8/10/10
2/26/11
9/14/11
Naphthalene
Nitrate + Nitrite

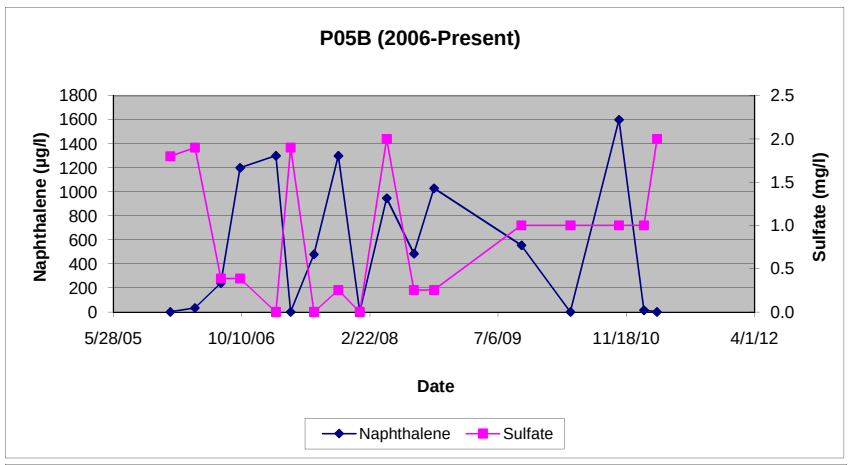

OW 14 (2007-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
4/28/07
11/14/07
6/1/08
12/18/08
7/6/09
1/22/10
8/10/10
2/26/11
9/14/11
Benzene
Dissolved Iron

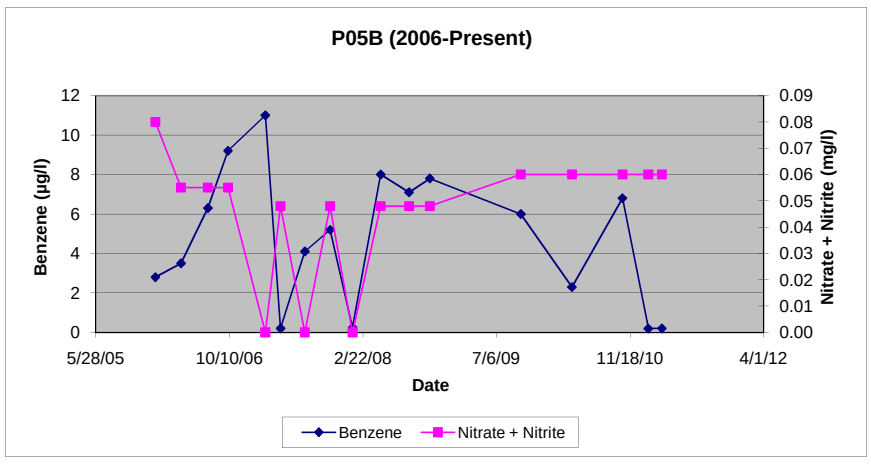

OW 14 (2007-Present)
Napthalene (µg/l)
Dissolved Iron (µg/l)
Date
4/28/07
11/14/07
6/1/08
12/18/08
7/6/09
1/22/10
8/10/10
2/26/11
9/14/11
Naphthalene
Dissolved Iron

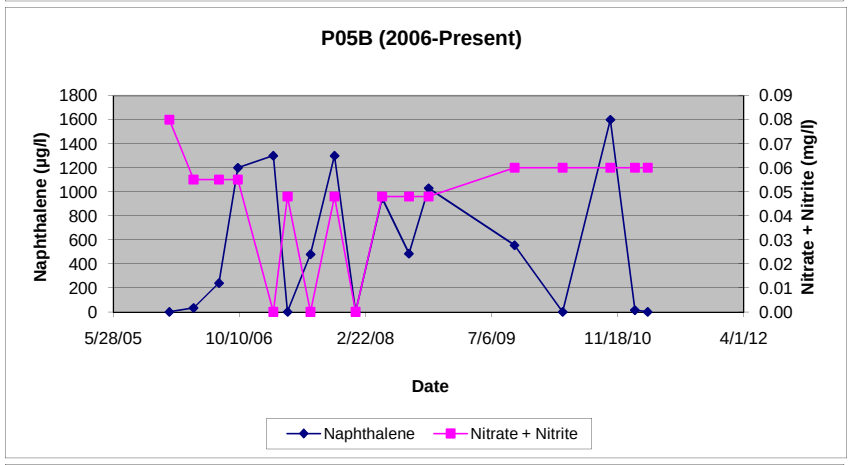

OW 14 (2007-Present)
Benzene (µg/l)
DO (mg/l)
Date
4/28/07
11/14/07
6/1/08
12/18/08
7/6/09
1/22/10
8/10/10
2/26/11
9/14/11
Benzene
DO

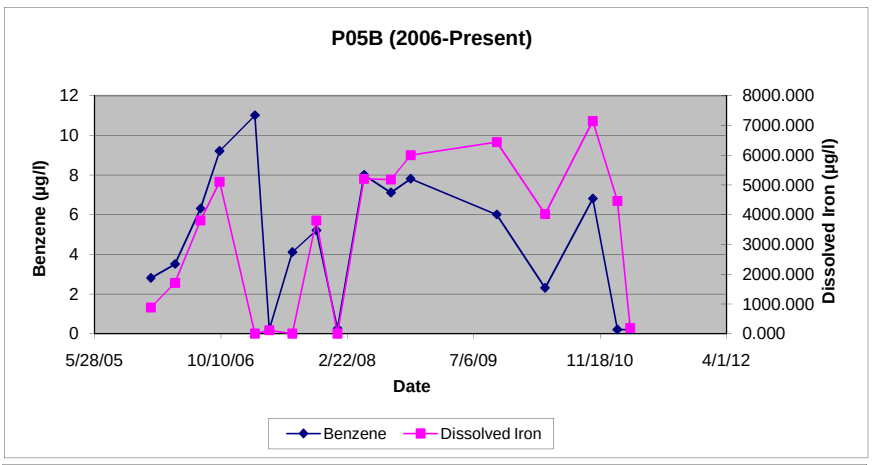

OW 14 (2007-Present)
Napthalene (µg/l)
DO (mg/l)
Date
4/28/07
11/14/07
6/1/08
12/18/08
7/6/09
1/22/10
8/10/10
2/26/11
9/14/11
Naphthalene
DO

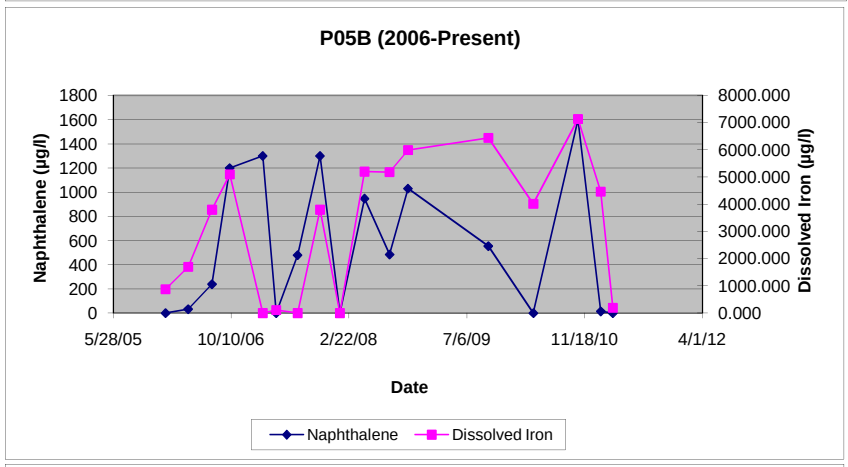

P05B (2006-Present)
Benzene (µg/l)
Sulfate (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Sulfate

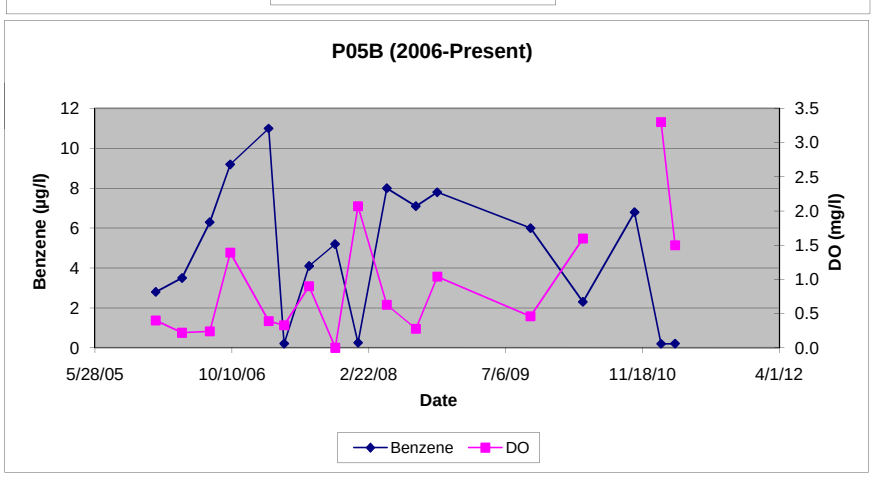

P05B (2006-Present)
Naphthalene (µg/l)
Sulfate (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Sulfate

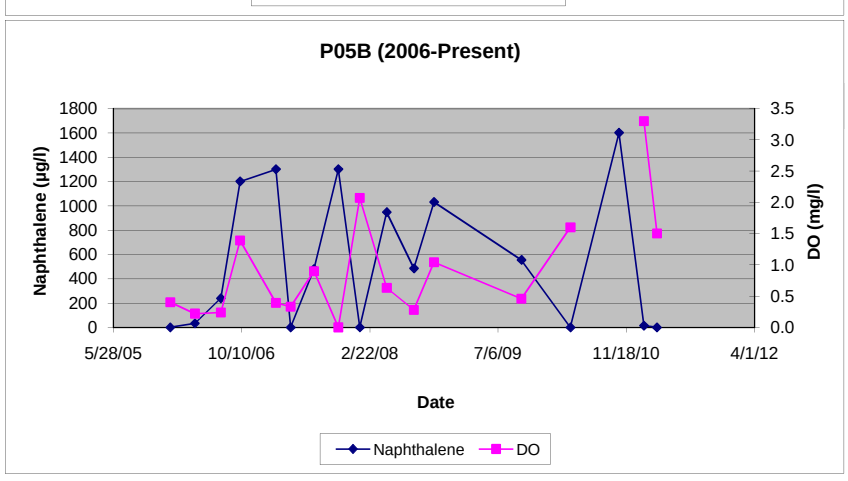

P05B (2006-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Nitrate + Nitrite

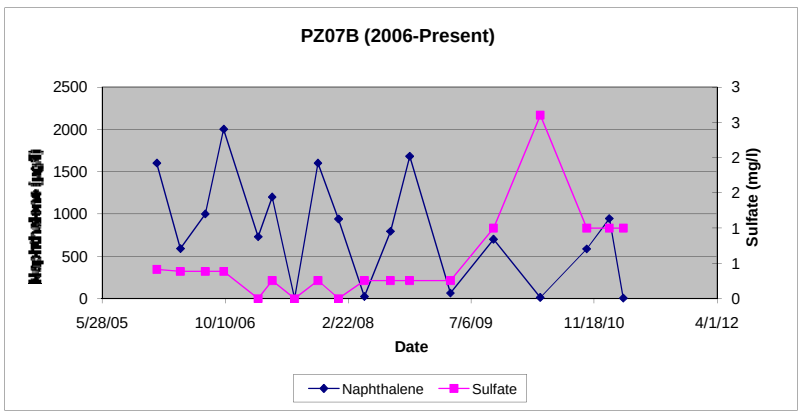

P05B (2006-Present)
Naphthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Nitrate + Nitrite

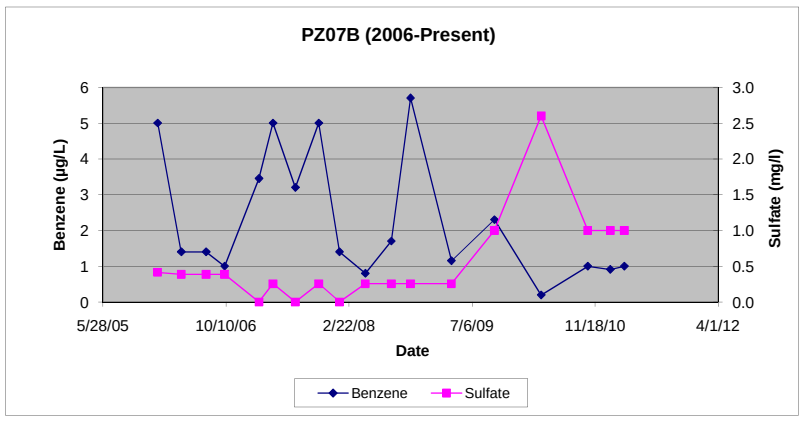

P05B (2006-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Dissolved Iron

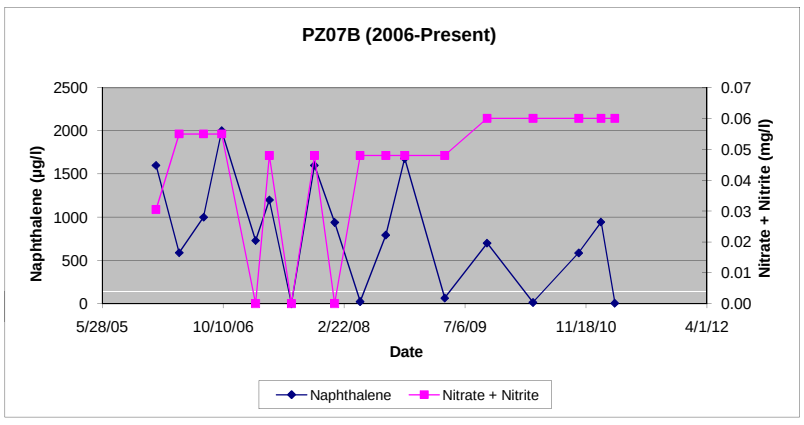

P05B (2006-Present)
Naphthalene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Dissolved Iron

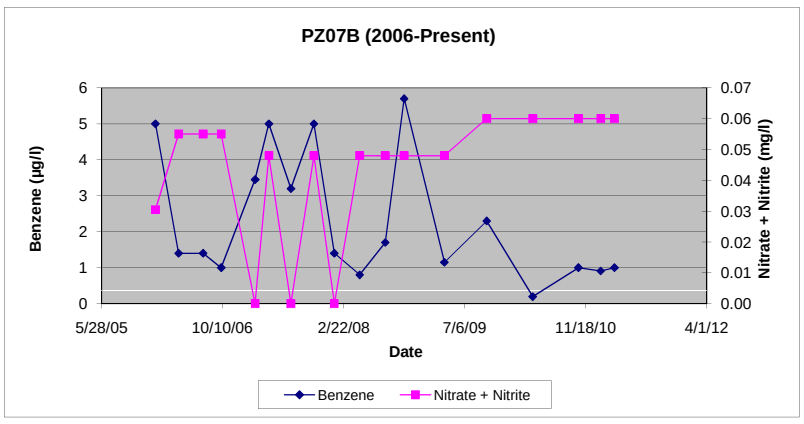

P05B (2006-Present)
Benzene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
DO

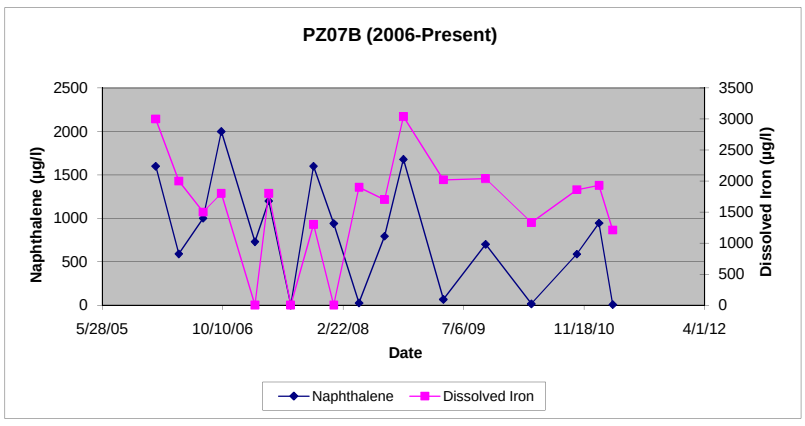

P05B (2006-Present)
Naphthalene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
DO

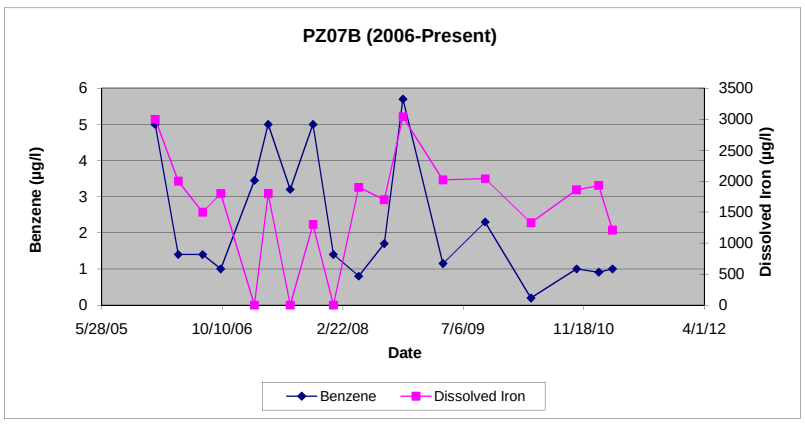

PZ07B (2006-Present)
Naphthalene (µg/l)
Sulfate (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Sulfate

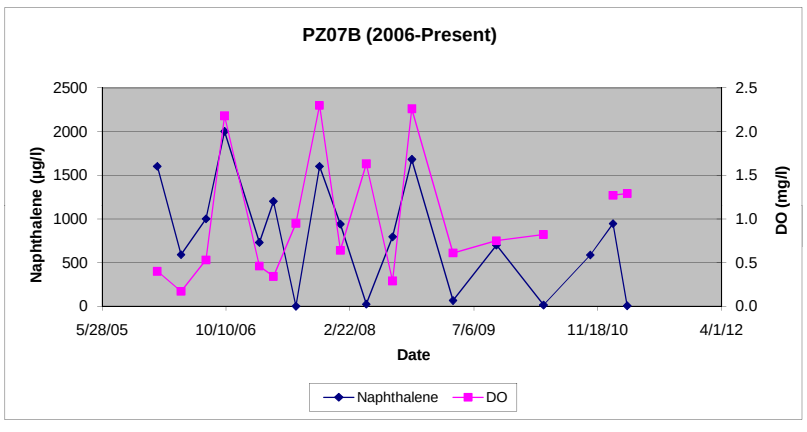

PZ07B (2006-Present)
Benzene (µg/L)
Sulfate (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Sulfate

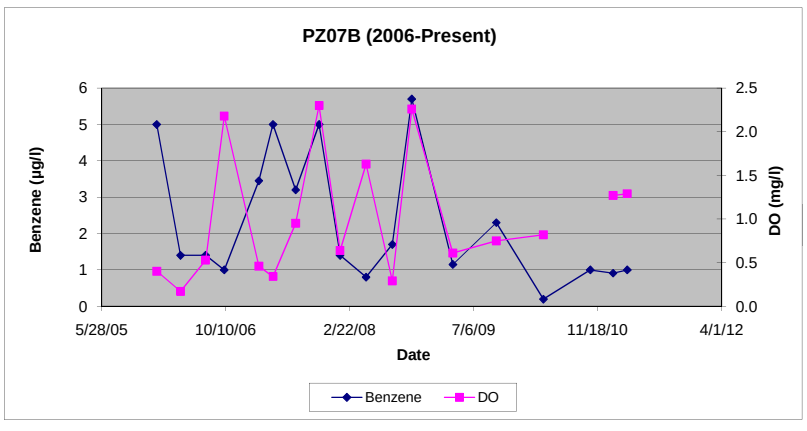

PZ07B (2006-Present)
Naphthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Nitrate + Nitrite

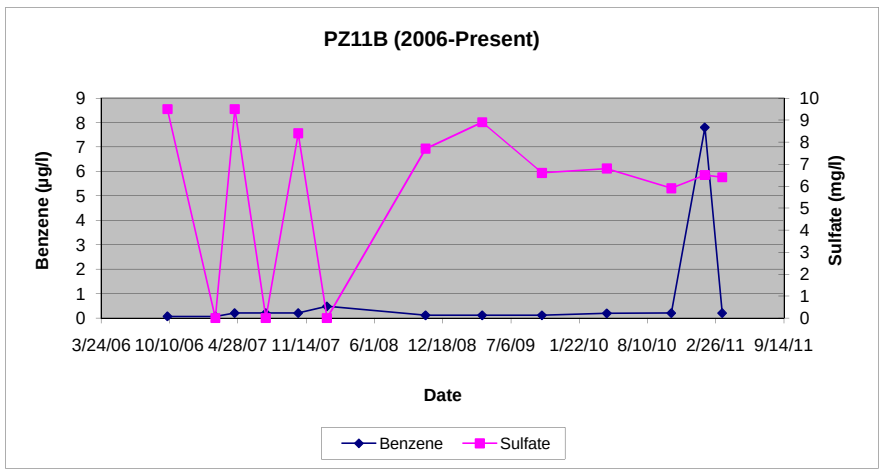

PZ07B (2006-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Nitrate + Nitrite

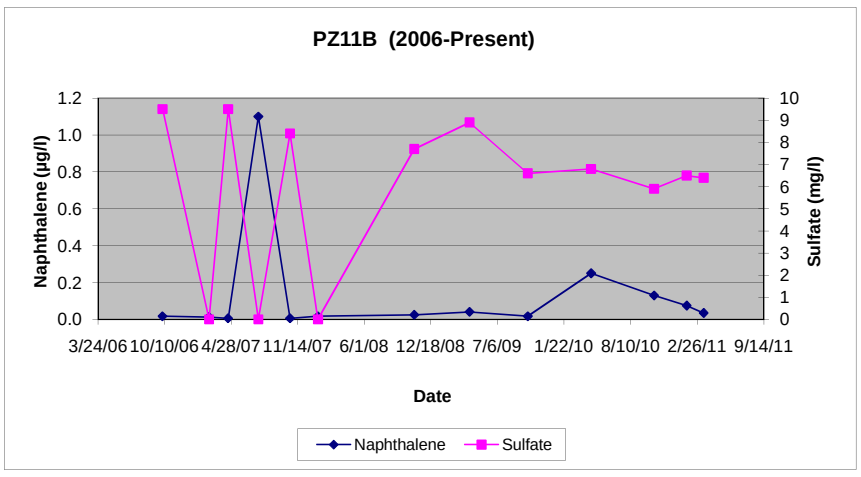

PZ07B (2006-Present)
Naphthalene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
Dissolved Iron

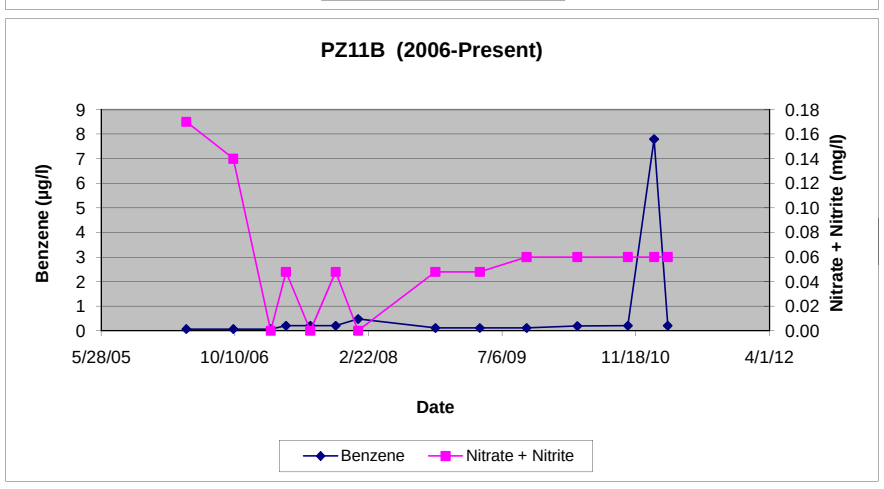

PZ07B (2006-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Dissolved Iron

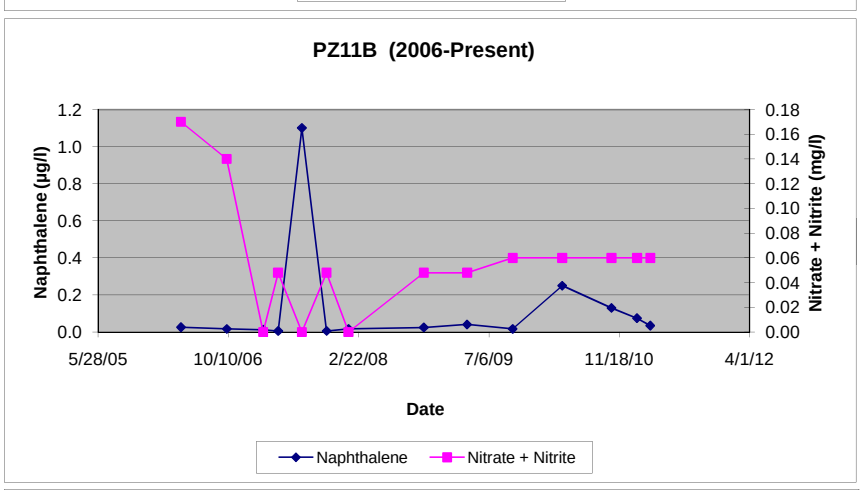

PZ07B (2006-Present)
Naphthalene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Naphthalene
DO

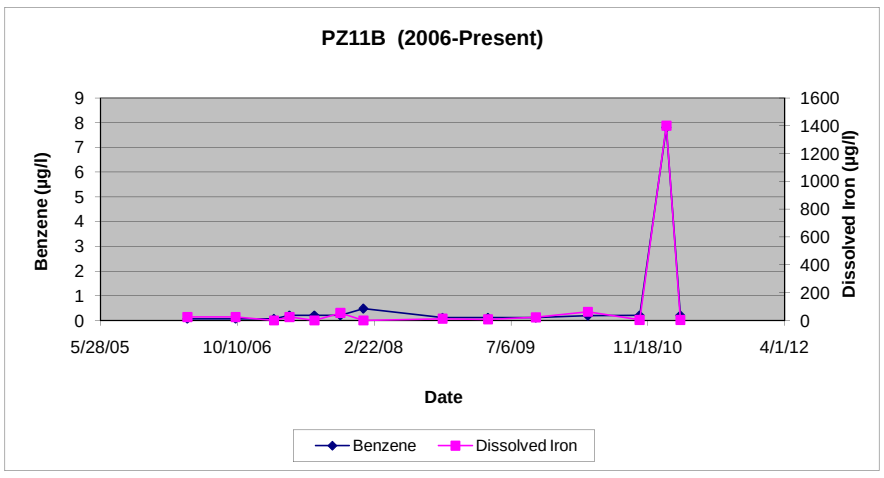

PZ07B (2006-Present)
Benzene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
DO

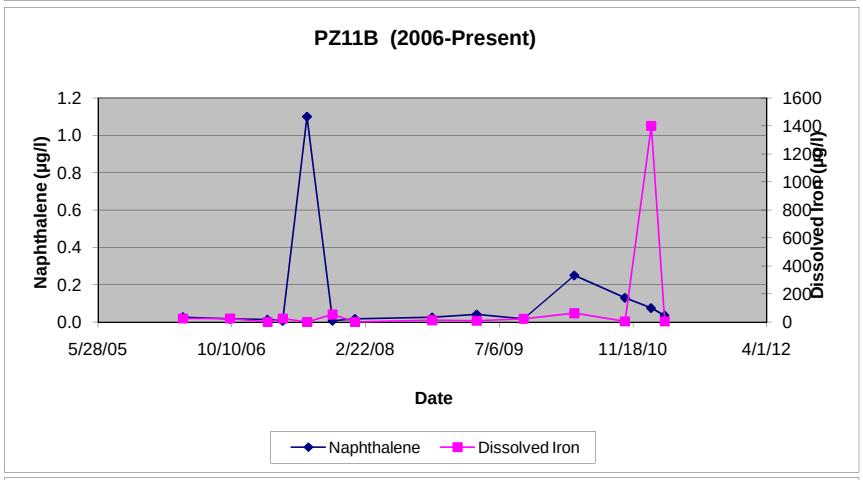

PZ11B (2006-Present)
Benzene (µg/l)
Sulfate (mg/l)
Date
3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Benzene
Sulfate

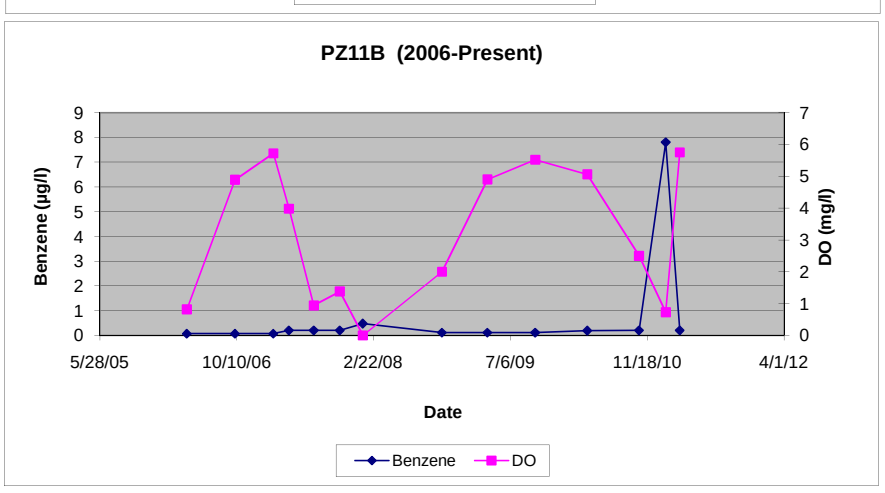

PZ11B (2006-Present)
Naphthalene (µg/l)
Sulfate (mg/l)
Date
3/24/06 10/10/06 4/28/07 11/14/07 6/1/08 12/18/08 7/6/09 1/22/10 8/10/10 2/26/11 9/14/11
Naphthalene
Sulfate

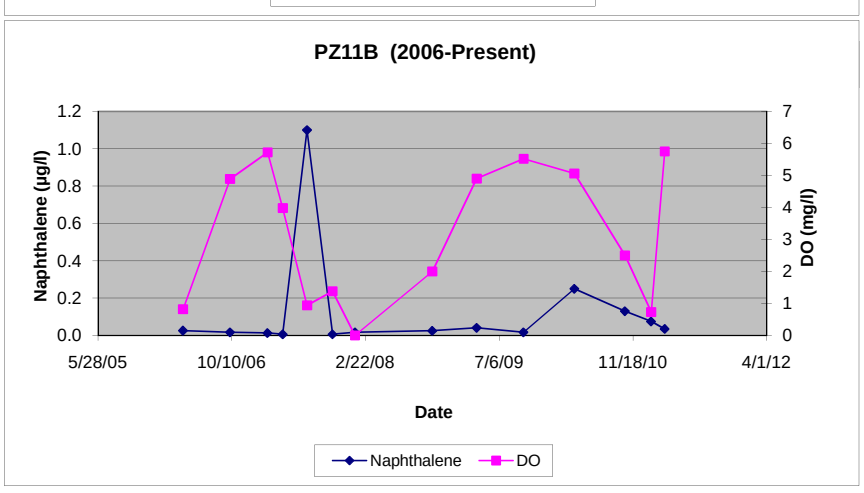

PZ11B (2006-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05 10/10/06 2/22/08 7/6/09 11/18/10 4/1/12
Benzene
Nitrate + Nitrite

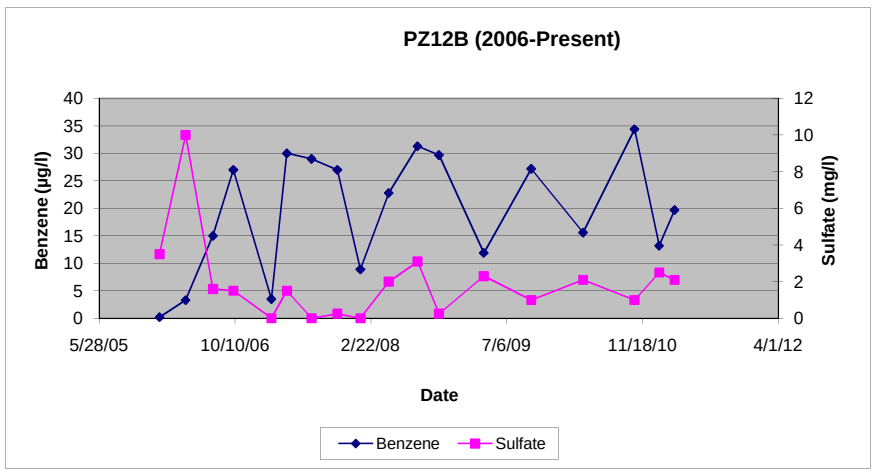

PZ11B (2006-Present)
Naphthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05 10/10/06 2/22/08 7/6/09 11/18/10 4/1/12
Naphthalene
Nitrate + Nitrite

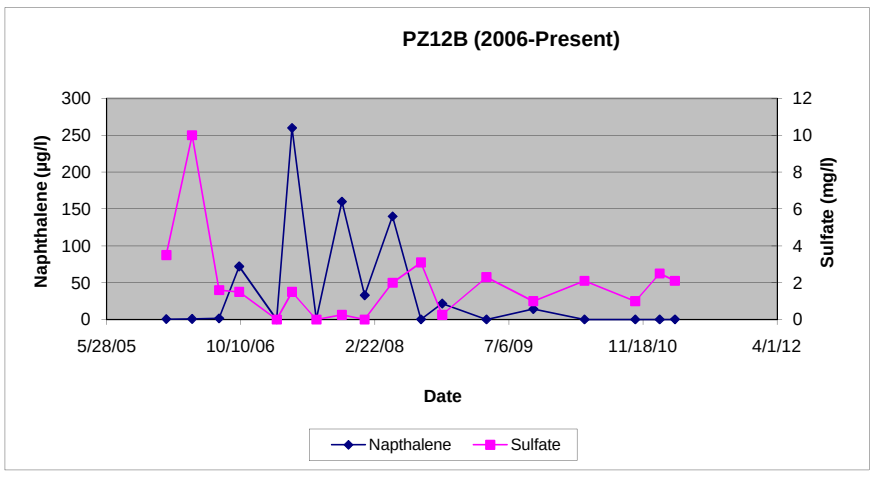

PZ11B (2006-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05 10/10/06 2/22/08 7/6/09 11/18/10 4/1/12
Benzene
Dissolved Iron

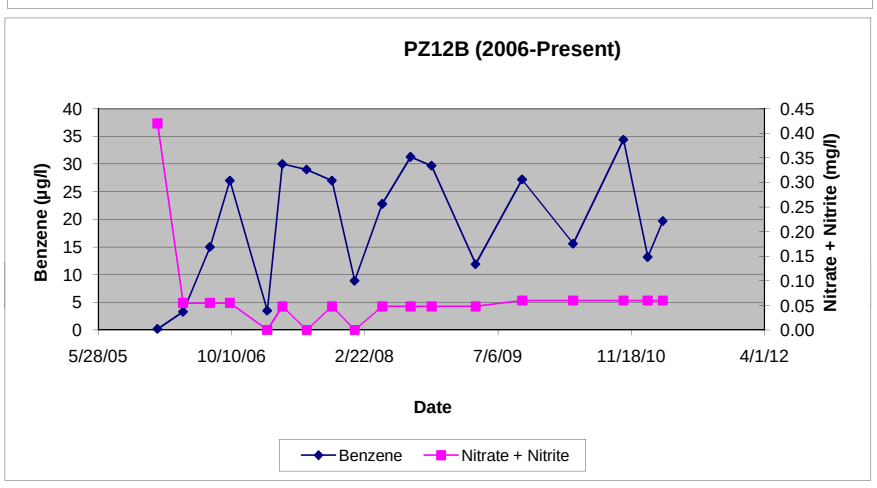

PZ11B (2006-Present)
Naphthalene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05 10/10/06 2/22/08 7/6/09 11/18/10 4/1/12
Naphthalene
Dissolved Iron

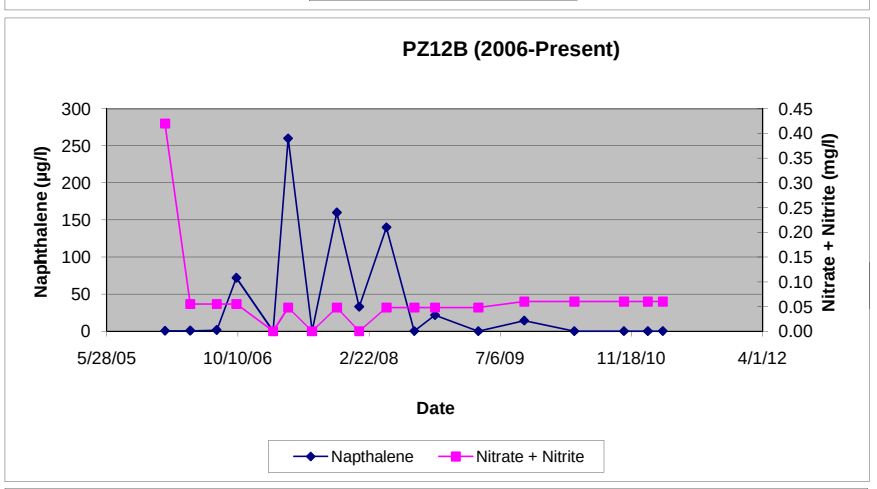

PZ11B (2006-Present)
Benzene (µg/l)
DO (mg/l)
Date
5/28/05 10/10/06 2/22/08 7/6/09 11/18/10 4/1/12
Benzene
DO

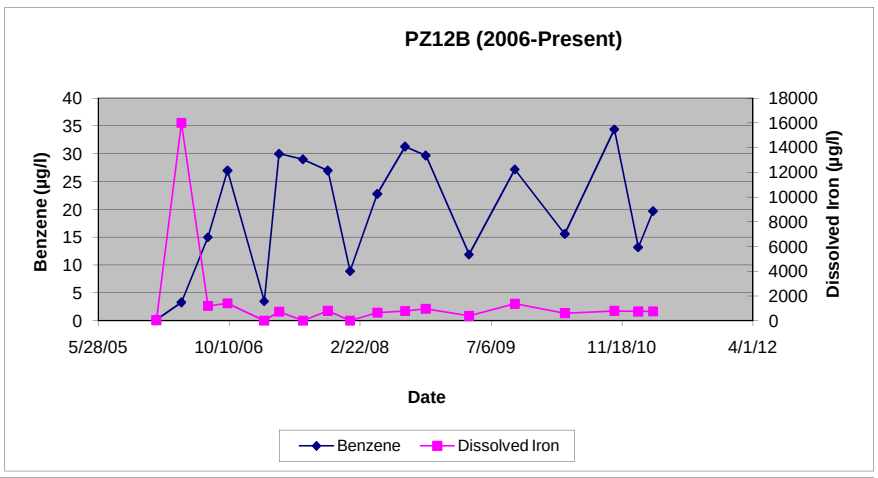

PZ11B (2006-Present)
Naphthalene (µg/l)
DO (mg/l)
Date
5/28/05 10/10/06 2/22/08 7/6/09 11/18/10 4/1/12
Naphthalene
DO

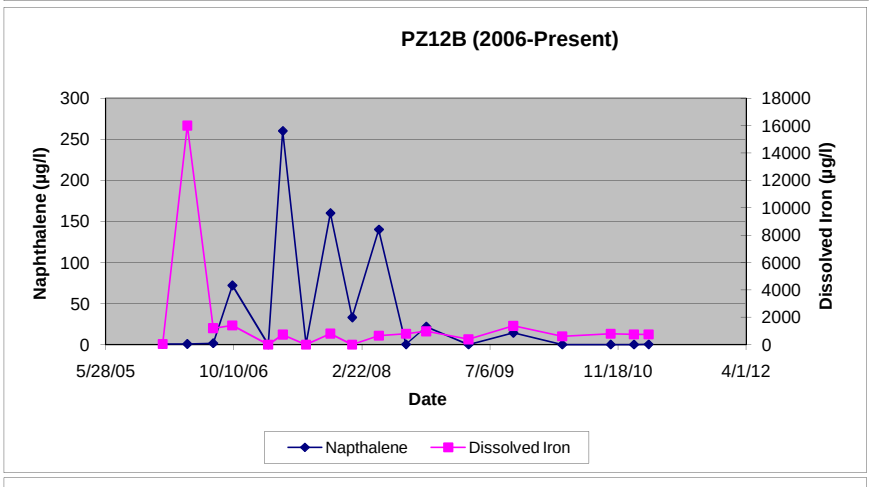

PZ12B (2006-Present)
Benzene (µg/l)
Sulfate (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Sulfate

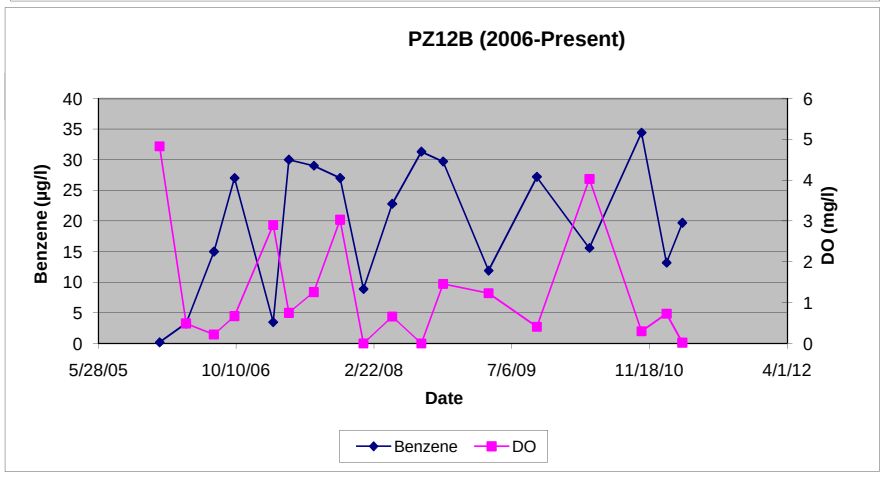

PZ12B (2006-Present)
Naphthalene (µg/l)
Sulfate (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Napthalene
Sulfate

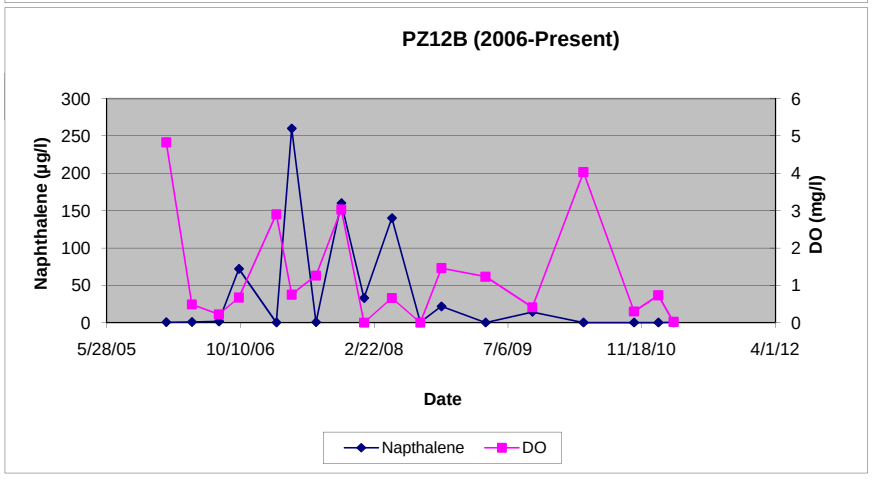

PZ12B (2006-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Nitrate + Nitrite

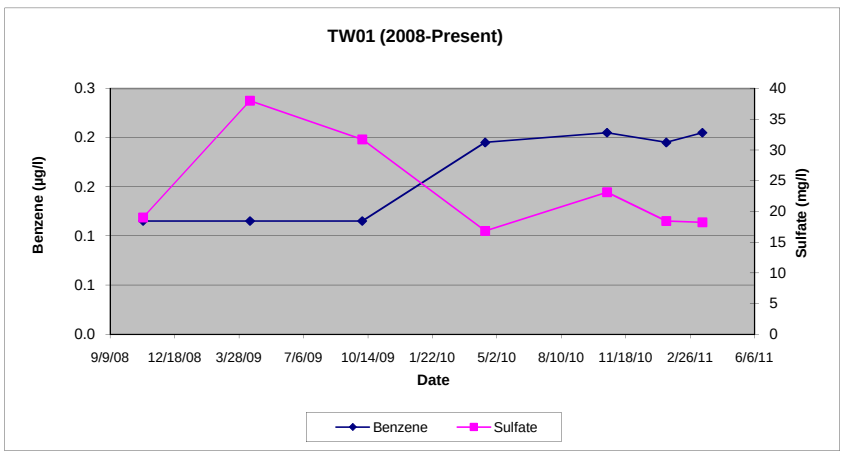

PZ12B (2006-Present)
Naphthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Napthalene
Nitrate + Nitrite

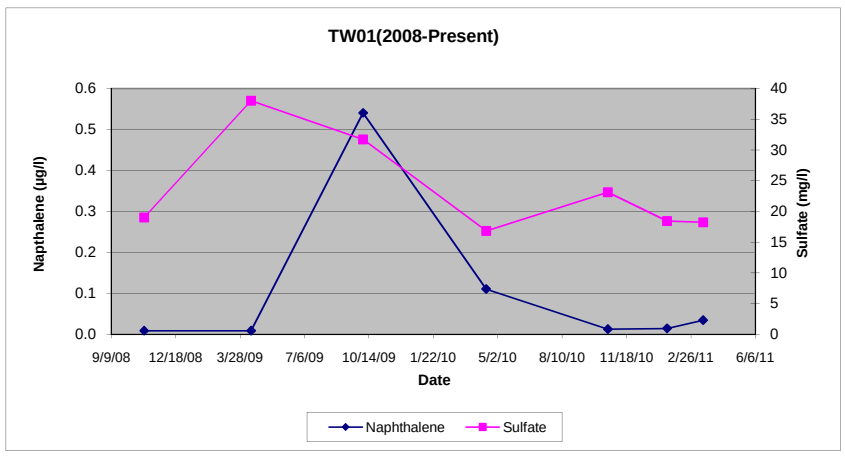

PZ12B (2006-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
Dissolved Iron

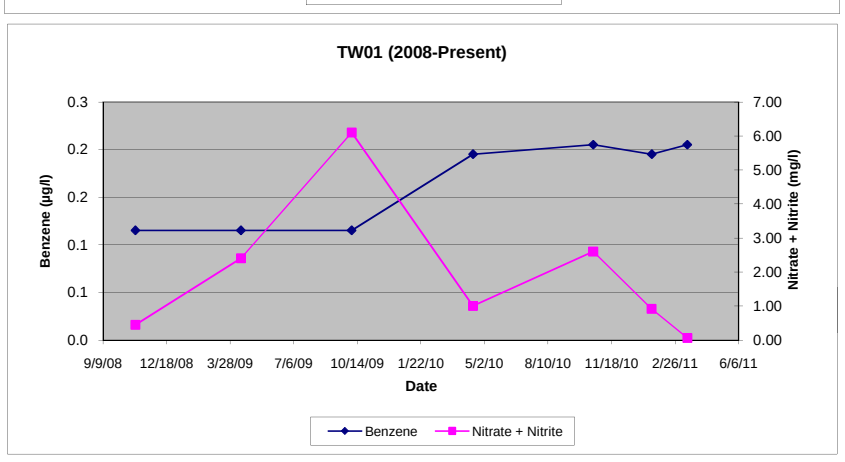

PZ12B (2006-Present)
Naphthalene (µg/l)
Dissolved Iron (µg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Napthalene
Dissolved Iron

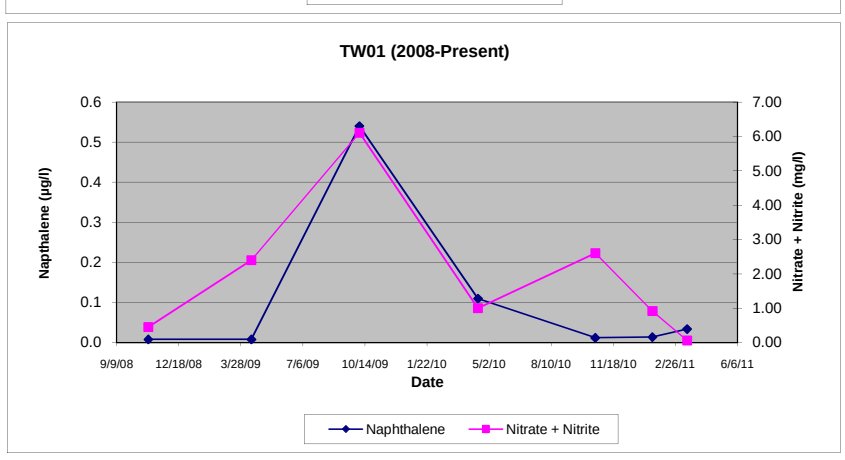

PZ12B (2006-Present)
Benzene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Benzene
DO

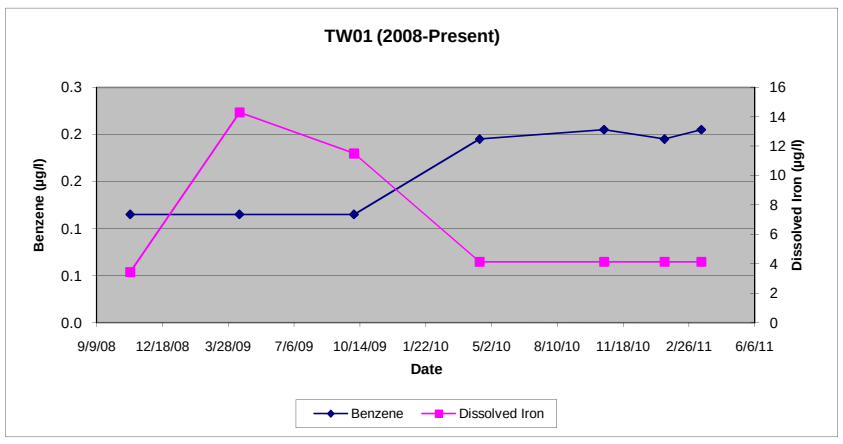

PZ12B (2006-Present)
Naphthalene (µg/l)
DO (mg/l)
Date
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
Napthalene
DO

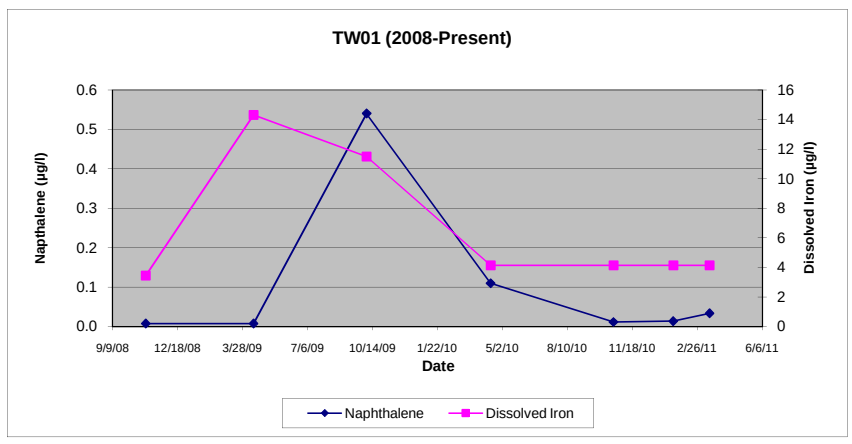

TW01 (2008-Present)
Benzene (µg/l)
Sulfate (mg/l)
Date
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Benzene
Sulfate

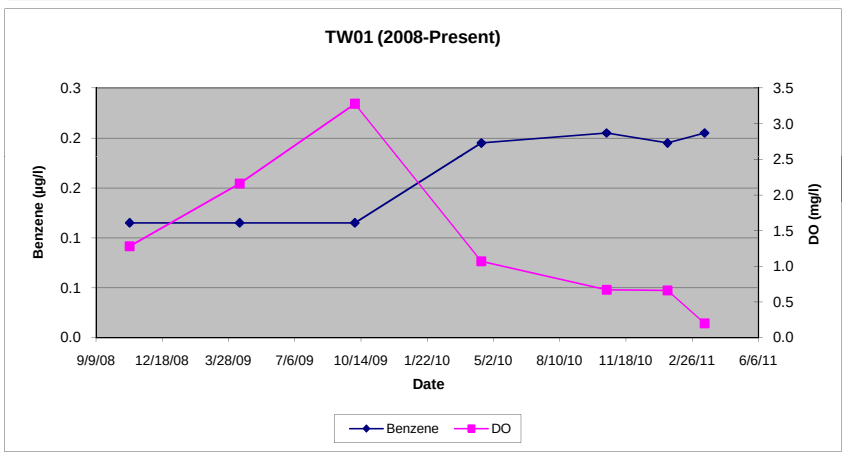

TW01(2008-Present)
Napthalene (µg/l)
Sulfate (mg/l)
Date
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Naphthalene
Sulfate

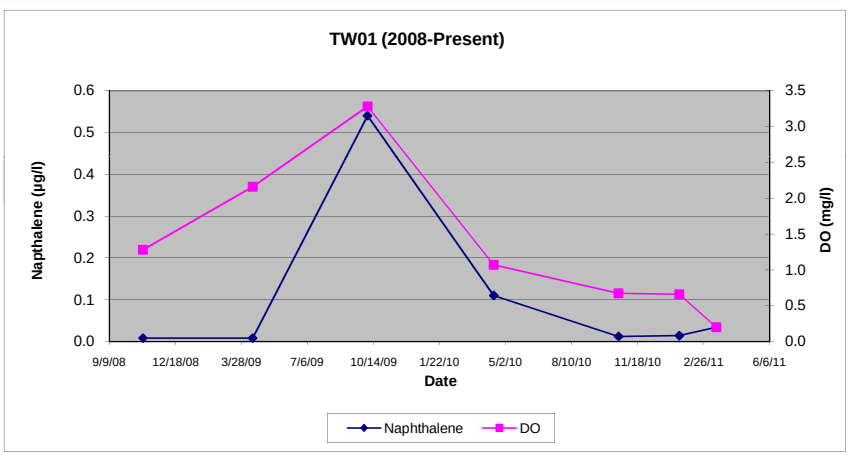

TW01 (2008-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
Date
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Benzene
Nitrate + Nitrite

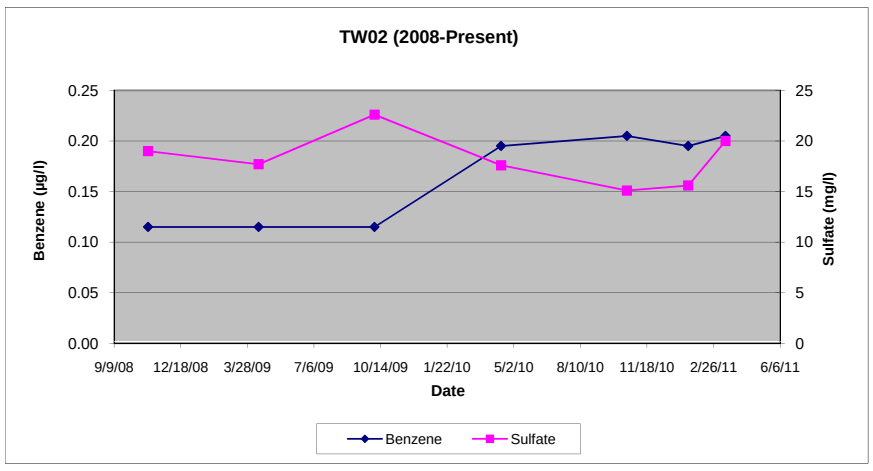

TW01 (2008-Present)
Napthalene (µg/l)
Nitrate + Nitrite (mg/l)
Date
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Naphthalene
Nitrate + Nitrite

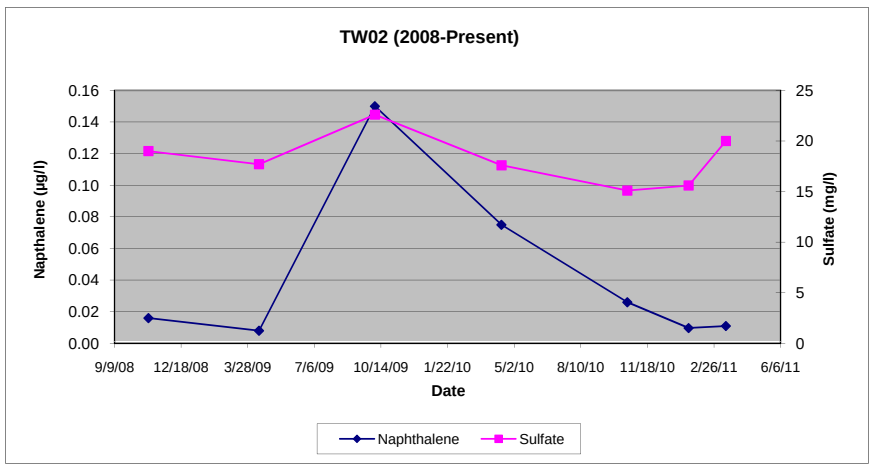

TW01 (2008-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
Date
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Benzene
Dissolved Iron

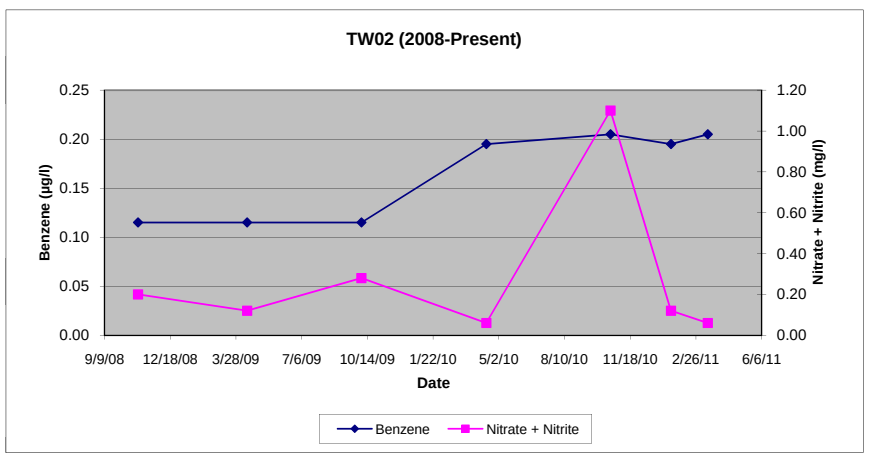

TW01 (2008-Present)
Napthalene (µg/l)
Dissolved Iron (µg/l)
Date
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Naphthalene
Dissolved Iron

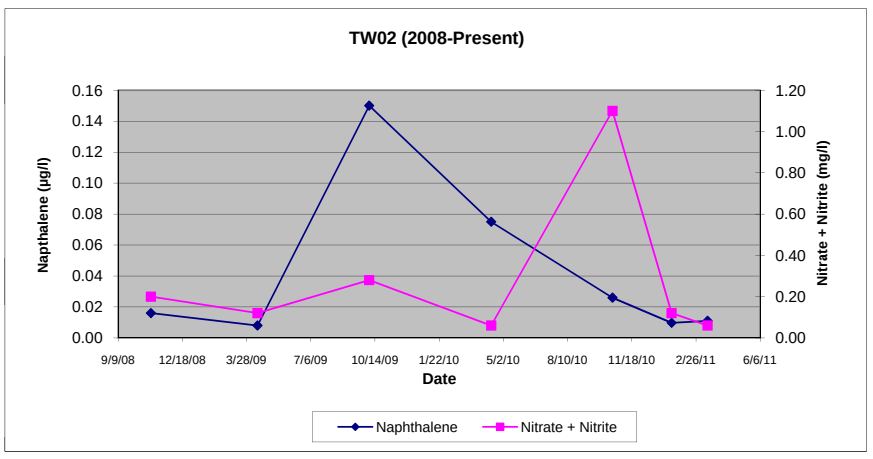

TW01 (2008-Present)
Benzene (µg/l)
DO (mg/l)
Date
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Benzene
DO

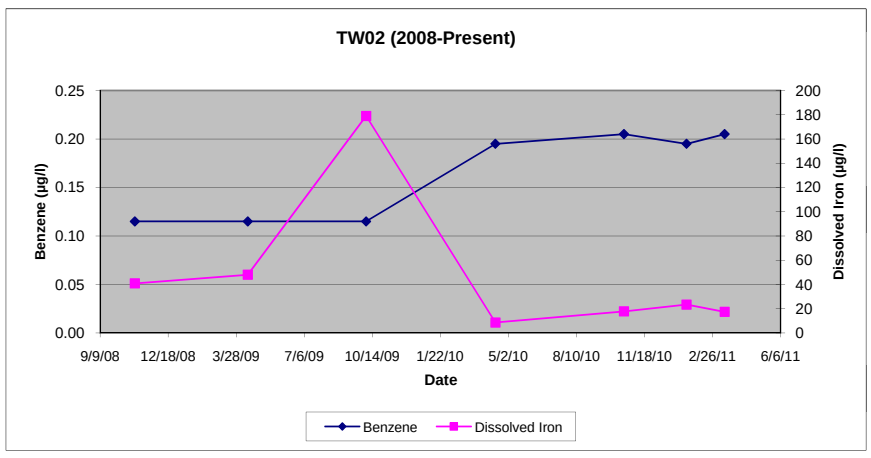

TW01 (2008-Present)
Napthalene (µg/l)
DO (mg/l)
Date
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Naphthalene
DO

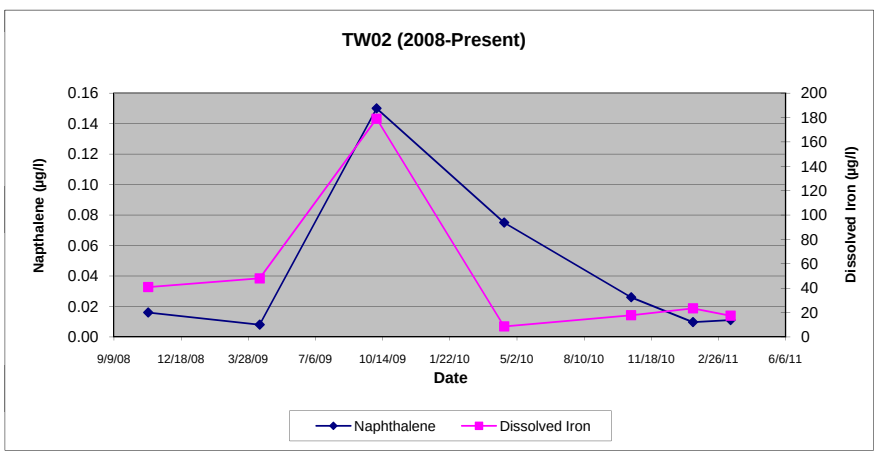

TW02 (2008-Present)
Benzene (µg/l)
Sulfate (mg/l)
0.25
0.20
0.15
0.10
0.05
0.00
25
20
15
10
5
0
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Date
Benzene
Sulfate

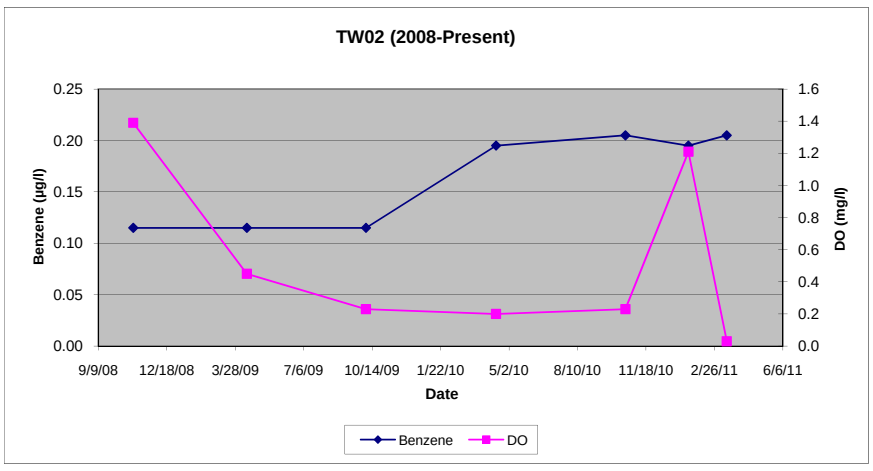

TW02 (2008-Present)
Napthalene (µg/l)
Sulfate (mg/l)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
25
20
15
10
5
0
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Date
Naphthalene
Sulfate

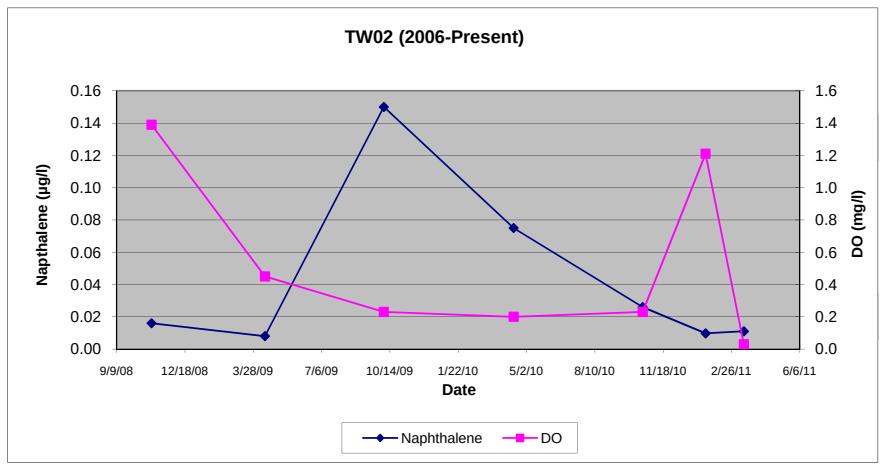

TW02 (2008-Present)
Benzene (µg/l)
Nitrate + Nitrite (mg/l)
0.25
0.20
0.15
0.10
0.05
0.00
1.20
1.00
0.80
0.60
0.40
0.20
0.00
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Date
Benzene
Nitrate + Nitrite


TW02 (2008-Present)
Napthalene (µg/l)
Nitrate + Nitrite (mg/l)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1.20
1.00
0.80
0.60
0.40
0.20
0.00
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Date
Naphthalene
Nitrate + Nitrite


TW02 (2008-Present)
Benzene (µg/l)
Dissolved Iron (µg/l)
0.25
0.20
0.15
0.10
0.05
0.00
200
180
160
140
120
100
80
60
40
20
0
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Date
Benzene
Dissolved Iron


TW02 (2008-Present)
Napthalene (µg/l)
Dissolved Iron (µg/l)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
200
180
160
140
120
100
80
60
40
20
0
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Date
Naphthalene
Dissolved Iron


TW02 (2008-Present)
Benzene (µg/l)
DO (mg/l)
0.25
0.20
0.15
0.10
0.05
0.00
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Date
Benzene
DO


TW02 (2006-Present)
Napthalene (µg/l)
DO (mg/l)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
9/9/08
12/18/08
3/28/09
7/6/09
10/14/09
1/22/10
5/2/10
8/10/10
11/18/10
2/26/11
6/6/11
Date
Naphthalene
DO

APPENDIX C-2

MYGRT ANALYTICAL TRANSPORT MODEL

APPENDIX C-2: GROUNDWATER MODELING

Objectives

The objective of the groundwater modeling was to estimate the time over which monitored natural attenuation (MNA) would reduce concentrations of benzene and naphthalene to levels below the MCL.

Conceptual Model

For modeling purposes, it was assumed that coal tar was the sole source of benzene and naphthalene to groundwater, and that coal tar was first released from the site in 1890. This tar continued to be a source until remediation in 1998, when the source was substantially removed. Dissolved phase benzene and naphthalene migrated downgradient in the direction of groundwater flow with no sinks other than natural attenuation.

Model Software Description

Modeling was performed using the MYGRT analytical transport model. MYGRT Version 3.1 (EPRI, 2005) is a collection of 22 analytical models that calculate the transport of organic or inorganic constituents in groundwater for aquifers of finite or semi-infinite thickness, while accounting for the processes of advection, dispersion, retardation, and decay. All of these models are based on analytical solutions to the 1D, 2D, and 3D mass transport equations using the integral transform technique. The special cases of spatial averaging (i.e., well screen averages) and zero dispersion are also solved. The integral transform method starts with the partial differential equation, boundary conditions, and initial conditions of a transport problem, and proceeds to an exact solution.

Model input data include source chemical history, unsaturated layer characteristics, leachate/aquifer mixing properties, and aquifer layer characteristics. One chemical

species is simulated in each run; therefore, chemical speciation and chemical-chemical interactions are not accounted for. Leachate concentration may be varied as a function of time, and the source infiltration rate may be varied at one point in time to simulate a significant change, such as addition of a cap. All other physical parameters are assumed to be constant over time and space. Other MYGRT assumptions:

- Groundwater flow is uniform and constant, and is not affected by leachate infiltration.
- Dispersion is represented by Fick's Law.
- Sorption is treated as linear, equilibrium partitioning process between the aqueous and solid phases.
- First-order kinetics adequately simulates solute transformation or decay. A single decay rate is used for both the dissolved and adsorbed phases.

Model Approach

Two rounds of modeling were performed. Initial modeling to compare relative MNA timeframes for benzene and naphthalene, and final modeling to further evaluate the model sensitivity of naphthalene, which, as explained below, is predicted to degrade more slowly than benzene.

MYGRT's three-dimensional, saturated zone analytical solution with a saturated source term was used for this modeling. The model was calibrated to match pre-remediation concentrations observed at OW5A and concentrations from initial samples collected at OW9 and OW14.[1] OW5A (replaced by OW5R) and OW14 are respectively the closest and farthest points from the source with observed concentrations higher than the MCL.

Two calibration criteria were used:

[1] The only pre-remediation sample collected at OW-9 had relatively low concentration, so the calibration target was developed by averaging the pre-remediation sample with the first sample following remediation, which had relatively high concentration for this well. OW-14 was not installed and sampled until 2007, and the calibration target was developed based on the three samples that had been collected when the original modeling was performed. Concentrations subsequently decreased in this monitoring well; therefore, the calibration target was not adjusted for the final modeling.

- First, the model had to predict concentrations for 1998 similar to the calibration targets.

- Second, the modeled concentration decrease from 1998 to 2008 for the initial model, and from 1998 to 2011 for the final model could not be greater than the observed concentration decrease.

The calibrated model was then used to estimate the time when future concentrations would degrade to levels lower than the MCL. Predictions of future concentration conservatively assumed that a low-level residual source term remained throughout the model period. Input values were based on site-specific data, and published data when site-specific data were not available.

Initial Model

Initial Model Calibration

Calibration of the initial model was performed by varying the fraction of organic carbon (f_{oc}) and decay rate until both benzene and naphthalene concentrations matched the calibration targets (Table C2-1). Two calibrations were achieved, one using an f_{oc} value of 0.005 and another using an f_{oc} of 0.007. These values are higher[2] than typically assumed for a sand aquifer; however, f_{oc} proved to be a limiting value, because modeled benzene concentrations decreased more quickly than observed concentrations between 1998 and 2008 when f_{oc} was modeled at a value lower than 0.005. As demonstrated in the final modeling results, use of the high f_{oc} value was conservative in terms of predicting longer concentration recovery times, because increasing f_{oc} increased the retardation term, which reduced the modeled migration rate of benzene and naphthalene, and as a result the decay term had to be reduced in order for predicted concentrations to meet the calibration targets. If decay was not reduced, then the model under predicted concentration at the farthest calibration target from the source and predicted a greater decrease in concentration from 1998 to 2008 than observed.

[2] For example, a f_{oc} value of 0.002 is recommended for soils at depth in the USEPA Soil Screening guidance.

Calibration was achieved at a groundwater velocity of 130 ft/yr, which is within the range estimated for this site (40 to 140 ft/yr; see remedial investigation report, rev 1, Section 4.2.1.2). Sensitivity testing using a range of groundwater velocity values was performed during the final modeling.

Initial Model Results

Model input and output files are on the attached CD. Initial model results exhibited good agreement with observed groundwater concentrations (Figure C2-1). The calibrated decay rates for benzene and naphthalene were low relative to published rates—for example the decay rates listed in Illinois TACO regulations are 0.33 and 0.99 yrs^{-1} for benzene and naphthalene, respectively, compared to the calibrated values of 0.18 to 0.23 and 0.008 to 0.019 yrs^{-1}. These low decay rates suggest that the initial model is conservative, particularly for naphthalene. Estimated times to achieve preliminary remediation goals (PRGs) downgradient from the source were less than 20 years for benzene, and 120 to 240 years for naphthalene.

Final Model

Final modeling was performed to explore the sensitivity of naphthalene to various model inputs. Naphthalene degradation was simulated in the final modeling because the initial modeling demonstrated that it is the constituent with the longest predicted time to achieve its PRG.

Final Model Calibration

The final model was calibrated to match naphthalene concentrations in 1998 based on three groundwater velocities and two f_{oc} values per velocity, for a total of six different calibration scenarios. Velocity was modeled at 50, 90, and 130 ft/yr; these values are at the low, middle, and high end of the range of estimated groundwater velocities for the site. Values modeled for f_{oc} were: 1) between 0.002 and 0.001, and 2) lower than 0.001.

Calibration was achieved by varying source concentration, f_{oc}, and the decay term, with the limitation that decay could not be higher than 0.99 yrs^{-1}.

Two other inputs used in the final modeling differed from the initial modeling. First, the literature-based K_{ow} value used in the initial model resulted in a lower K_{oc} than commonly used for naphthalene, which—as explained previously—is non-conservative because the decay term would have to be increased to off-set the more rapid migration rates predicted with a relatively low K_{oc}. Therefore, the K_{ow} value entered into the final model was reverse-calculated to result in a K_{oc} value of 2000 mL/g. Second, the residual naphthalene concentration was changed to 750 ug/L to be more representative of concentrations recently observed in OW5R near the source area. This residual concentration is still conservatively high because it is the second highest value observed at OW5R since 2002.

As with the initial model, the final model was calibrated so that predicted concentrations approximated the three calibration targets as of 1998, when source removal remediation was performed, and so that concentrations as of 2011 were not under predicted. Model inputs are listed in Table C2-2.

Final Model Results

Model input and output files are on the attached CD. All six final model scenarios showed good agreement with the calibration targets (Figure C2-2). Because the f_{oc} values used in the final modeling (0.0015 to 0.0005) were lower than in the initial model, modeled migration rates were higher, and decay values had to be higher to achieve calibration. The resulting decay values ranged from 0.10 to 0.02 yr^{-1}. These decay values are still considerably lower than published default decay values of up to 0.99 yr^{-1}.

Time series comparison of modeled concentrations to observed concentrations (Figures C2-3a through C2-3f) shows that all of the final model scenarios over predict concentrations observed at OW14 through 2011—this is a conservative result because higher concentrations at OW14 translates to longer periods for decay to reduce

concentrations to levels below the PRG. Furthermore, all of the scenarios except N3aS and N4aS reasonably approximate observed concentrations in OW9 through 2011. Based on these results, predicted times to achieve the PRG based on scenarios N3bS, N4bS, N5aS, and N5bS are conservative, and range from 38 to 114 years from 2011. Significant concentration decreases are predicted for three of these four scenarios over the next 30 years.

Model Uncertainty

As with any model, there are a number of assumptions and simplifications needed to mathematically represent groundwater migration. In addition to the model assumptions described above, several site-specific assumptions were made and deviations from these assumptions affect model uncertainty. Key assumptions and their effect on results are listed below.

- The model assumes a uniform groundwater flow field. This assumption is rarely, if ever, achieved in nature and as a result, transport models are typically set-up and calibrated to be conservative. The possible range in hydraulic conductivity at this site was addressed during the final model sensitivity analysis. Fluctuations in flow caused by the converging flow systems were not addressed. These fluctuations cause lateral displacement of the plume, which has the net effect of increasing transverse dispersion. Default dispersion terms based on observation distance were used in this model, and since the default dispersion term does not account for a laterally fluctuating flow field, predicted downgradient concentrations (at 420 feet) were higher than indicated by observed data in OW14. Therefore, the model was conservative in this regard.

- The model assumes that there is a long-term residual source resulting in groundwater concentrations beneath the former MGP site that are higher than the MCL. The modeled residual source concentration of 750 ug/L for naphthalene is much higher than recently observed concentrations at OW5R, which been lower than 500 ug/L, and usually lower than 100 ug/L, since 2008.

- Furthermore, over the 200 year time frame of this model, concentrations emanating from any residual source should decrease as the source material leaches out and decays. Therefore, use of a residual source term at a constant concentration higher than observed concentrations adds another level of conservatism to the model.

Given these conservative approaches to this modeling, and the observation that downgradient naphthalene concentrations predicted using the final model are considerably higher than observed concentrations in downgradient well OW14, the predicted period of 38 to 114 years to achieve the PRG is also conservative.

Table C2-1. Initial Model Inputs and Results

Steven's Point Former MGP

Parameter	Unit	Benzene - Scenario 1 B4aS	Benzene - Scenario 2 B4bS	Naphthalene - Scenario 1 N1aS	Naphthalene - Scenario 2 N2aS	Notes
Model Setup						
Model			Saturated			
Source Location			Saturated Zone			
Dimensions			3			
Aquifer			Finite			
Concentration Compilation			Well Screen Average			
Source Properties						
Source Width	ft		70			
Top of Source	ft		0			
Bottom of Source	ft		7			
Source On	year		1890			Plant begins production.
Source Off	year		1990			Remediation completed.
Initial Concentration	ug/L	2184	2195	26356	24696	1890 to 1998
Residual Concentration	ug/L	60	60	1000	1000	1998 to end of model period
Saturated Zone Properties						
Aquifer Porosity			0.3			
Seepage Velocity	ft/yr		130			Site values range from 40 to 140 ft/yr
Thickness	ft		22			Average saturated thickness
Screen Top	ft		0			
Screen Bottom	ft		5			
Scale distance for Dispersion Calculation	ft		420			Distance from source to OW14
Dispersivity - Long	ft		42			model calculated based on GW velocity
Dispersivity - Trans	ft		4.2			model calculated based on GW velocity
Dispersivity - Vert	ft		0.42			model calculated based on GW velocity
Bulk Density	g/mL		1.8			
pH	SU		7			
Background Conc	ug/L		0			
Chemical Properties						
Octanol Water Partition Coeff. (Kow)	mL/g	126	126	2000	2000	from "Groundwater Chemicals Desk Reference" (3rd. Ed.), J.H. Montgomery
Fraction Organic Carbon		0.005	0.007	0.005	0.007	calibration parameter
Partition Coef. (Kp)	mL/g	0.397	0.556	6.3	8.82	model calculated based on Kow and FOC
Retardation factor, Rd		3.38	4.34	38.8	53.9	model calculated based on Kow and FOC
Decay Rate	1/yrs	0.23	0.18	0.019	0.008	calibration parameter
Max Concentration @ year 1998						
0 feet	ug/L	1125	1131	13678	12848	No calibration target
50 feet	ug/L	1300	1300	15700	15700	Calibration Target = 1300 Benzene, 15700 naphthalene
220 feet	ug/L	253	253	3126	3761	Calibration Target = 285 Benzene, 2900 naphthalene
420 feet	ug/L	56	55	598	570	Calibration Target = 57 Benzene, 600 naphthalene
Years until PRG achieved	Years	12	15	122	236	Years from 1998

Table C2-2. Final Model Inputs and Results
Steven's Point Former MGP

Parameter	Unit	Naphthalene						Notes
		N3aS	N3bS	N4aS	N4bS	N5aS	N5bS	
Model Setup								
Model				Saturated				
Source Location				Saturated Zone				
Dimensions				3				
Aquifer				Finite				
Concentration Compilation				Well Screen Average				
Source Properties								
Source Width	ft			70				
Top of Source	ft			0				
Bottom of Source	ft			7				
Source On	year			1890				Plant begins production.
Source Off	year			1990				Remediation completed.
Initial Concentration	ug/L	25900	30000	31000	26800	27800	25500	1890 to 1998
Residual Concentration	ug/L			750				1998 to end of model period
Saturated Zone Properties								
Aquifer Porosity				0.3				
Seepage Velocity	ft/yr	130	130	90	90	50	50	Site values range from 40 to 140 ft/yr
Thickness	ft			22				Average saturated thickness
Screen Top	ft			0				
Screen Bottom	ft			5				
Scale distance for Dispersion Calculation	ft			420				Distance from source to OW14
Dispersivity - Long	ft			42				model calculated based on GW velocity
Dispersivity - Trans	ft			4.2				model calculated based on GW velocity
Dispersivity - Vert	ft			0.42				model calculated based on GW velocity
Bulk Density	g/mL			1.8				
pH	SU			7				
Background Conc	ug/L			0				
Chemical Properties								
Octanol Water Partition Coeff. (Kow)	mL/g			3175				Reverse-calculated from Koc of 2000 mL/g
Soil Water Partition Coefficient (Koc)	mL/g			2000				
Fraction Organic Carbon		0.0006	0.0014	0.0005	0.0015	0.0006	0.0011	calibration parameter
Partition Coef. (Kp)	mL/g	1.2	2.8	1	3	1.2	2.2	model calculated based on Kow and FOC
Retardation factor, Rd		8.2	17.8	7	19	8.2	14.2	model calculated based on Kow and FOC
Decay Rate	1/yrs	0.1	0.05	0.09	0.03	0.04	0.02	calibration parameter
Max Concentration @ year 1998								
0 feet	ug/L	25900	30000	31000	26800	27800	25500	Equals pre-remediation source concentration
50 feet	ug/L	15167	17318	17823	15683	16170	15187	Calibration Target = 15700
220 feet	ug/L	2859	3089	3130	2945	2969	3030	Calibration target =- 2900
420 feet	ug/L	600	603	599	601	601	600	Calibration Target = 600
Modeled Conc. at OW14 in 2011	ug/L	424	601	513	610	602	640	Target = higher than 200
Predicted Conc. at OW14 in 2041	ug/L	19	160	21	440	271	632	30 years in the future
PRG achieved in	Year	2023	2049	2027	2080	2060	2125	
Years until PRG achieved	Years	12	38	16	69	49	114	Years from 2011

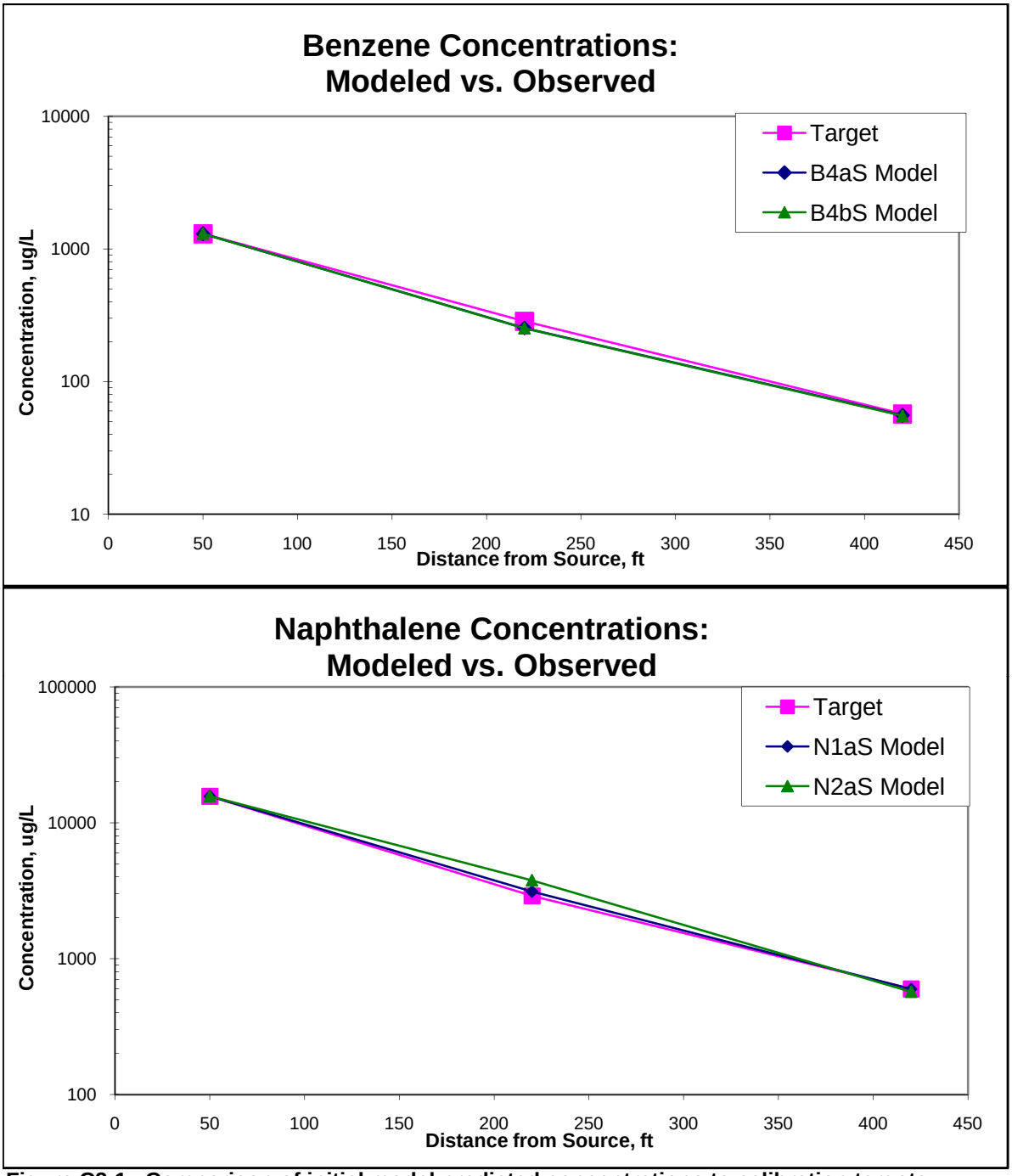


Figure C2-1. Comparison of initial model predicted concentrations to calibration targets in model year 1998.

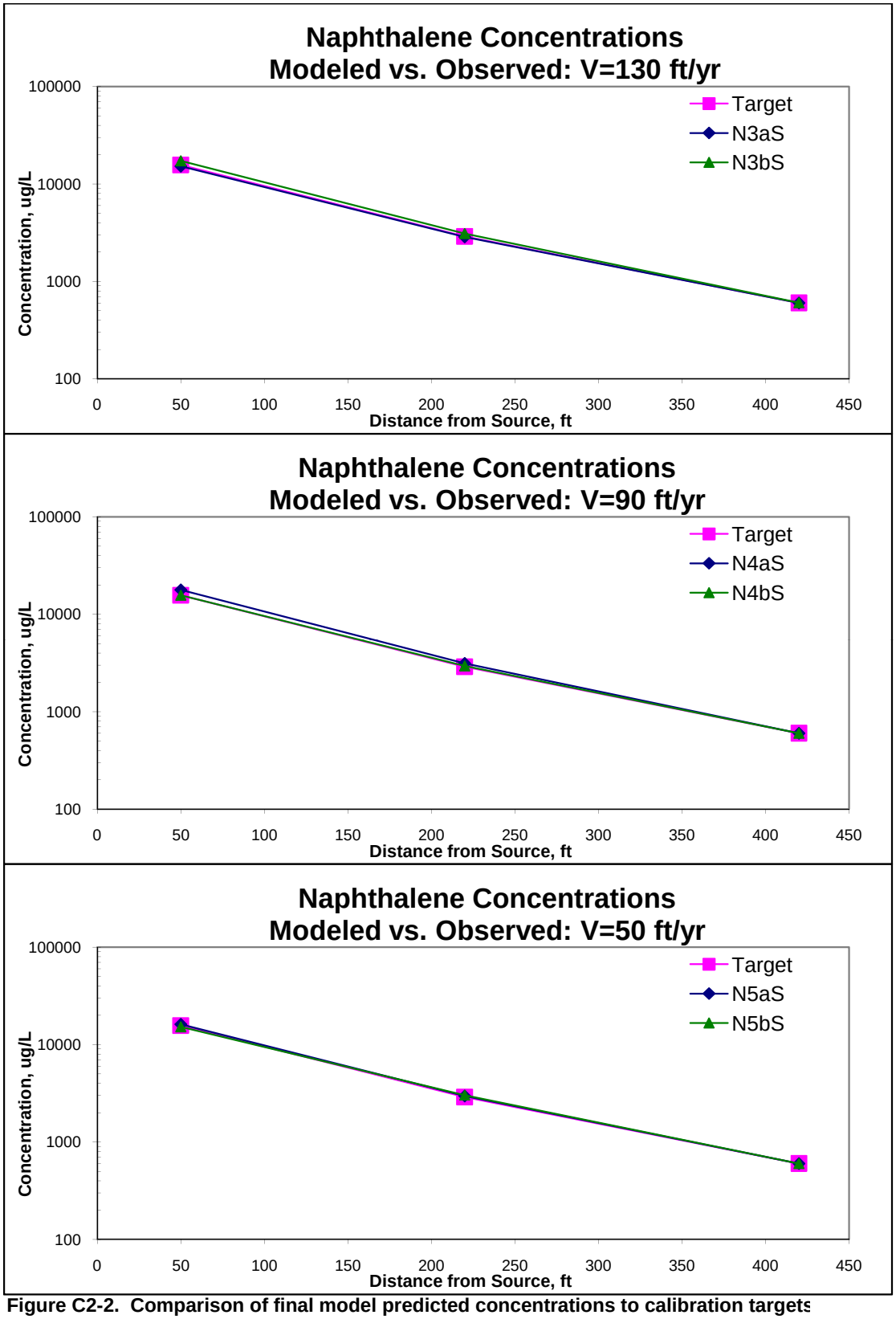


Figure C2-2. Comparison of final model predicted concentrations to calibration targets in model year 1998.

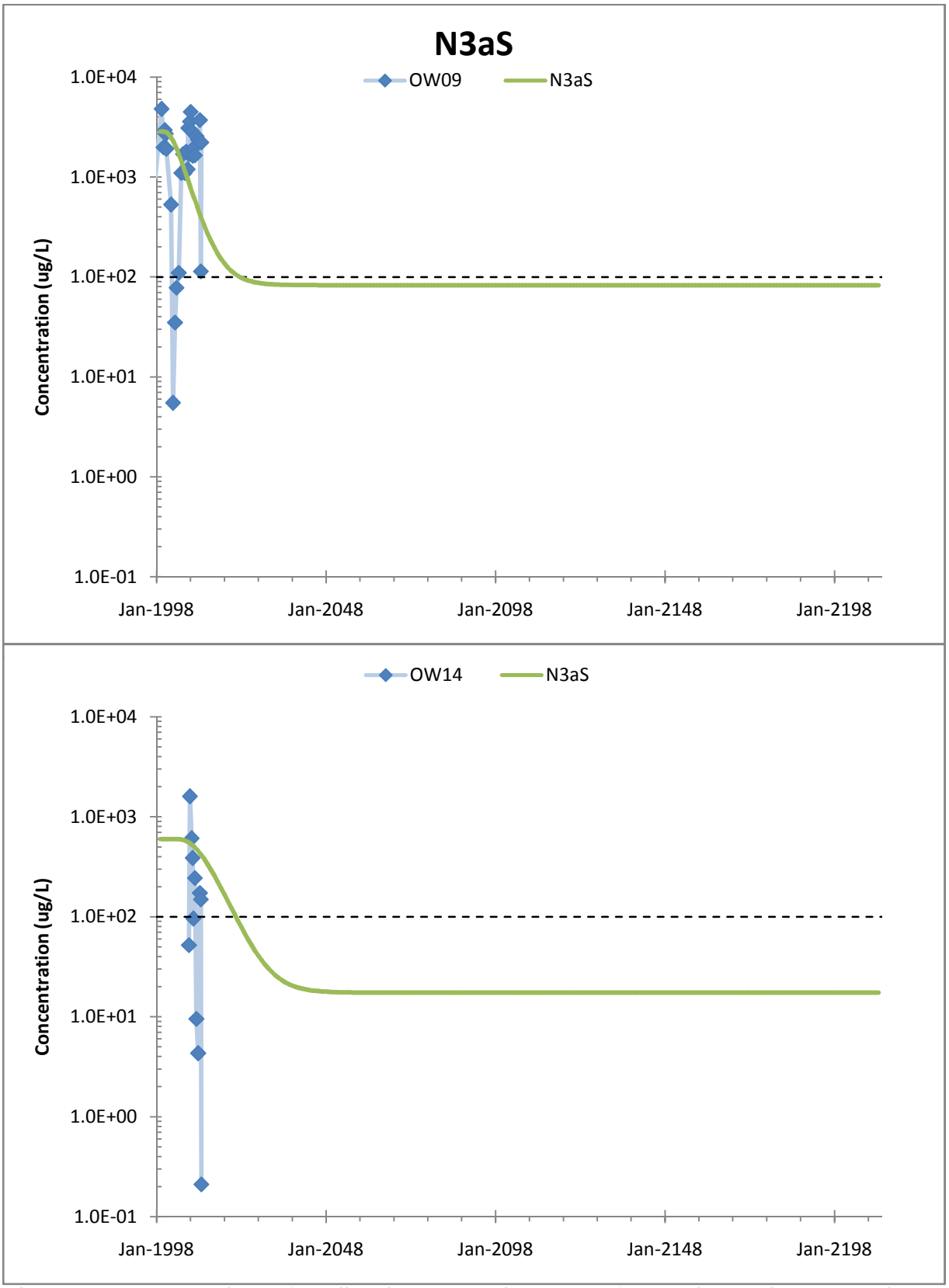


Figure C2-3a. Comparison of predicted concentrations at 220 feet to observed concentrations at OW9 (top) and OW14 (bottom) for final model scenario N3aS

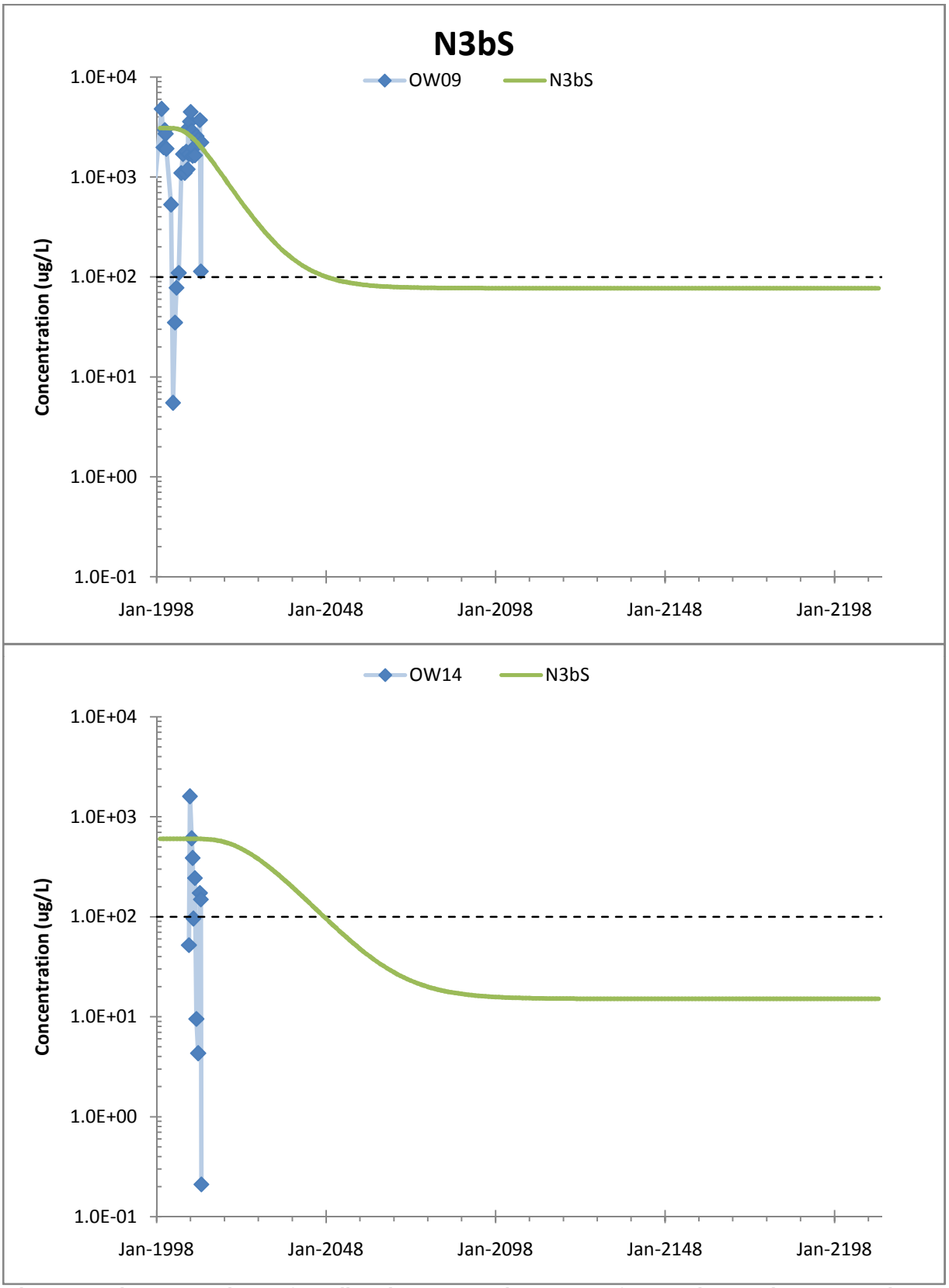


Figure C2-3b. Comparison of predicted concentrations at 220 feet to observed concentrations at OW9 (top) and OW14 (bottom) for final model scenario N3bS

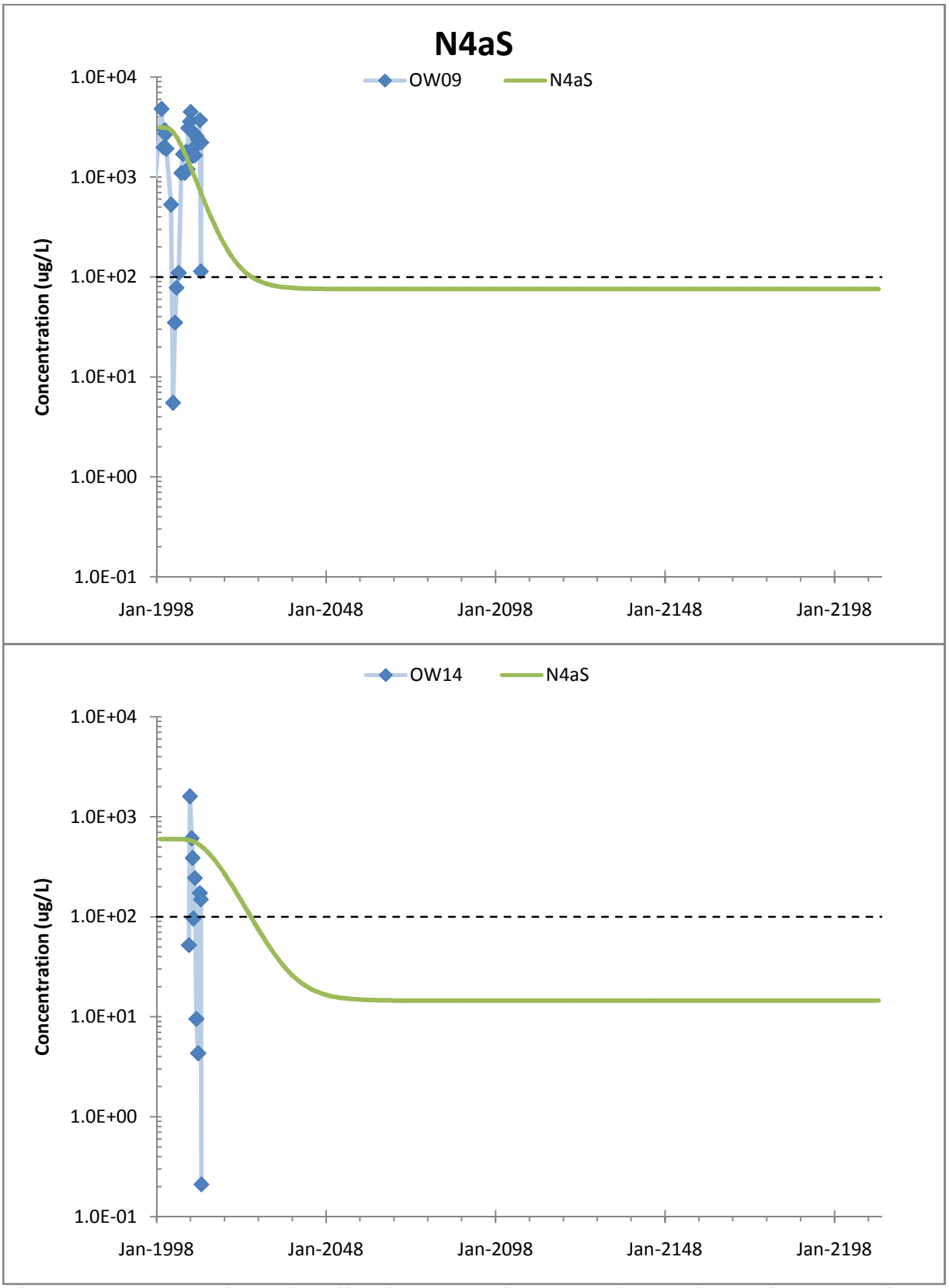


Figure C2-3c. Comparison of predicted concentrations at 220 feet to observed concentrations at OW9 (top) and OW14 (bottom) for final model scenario N4aS

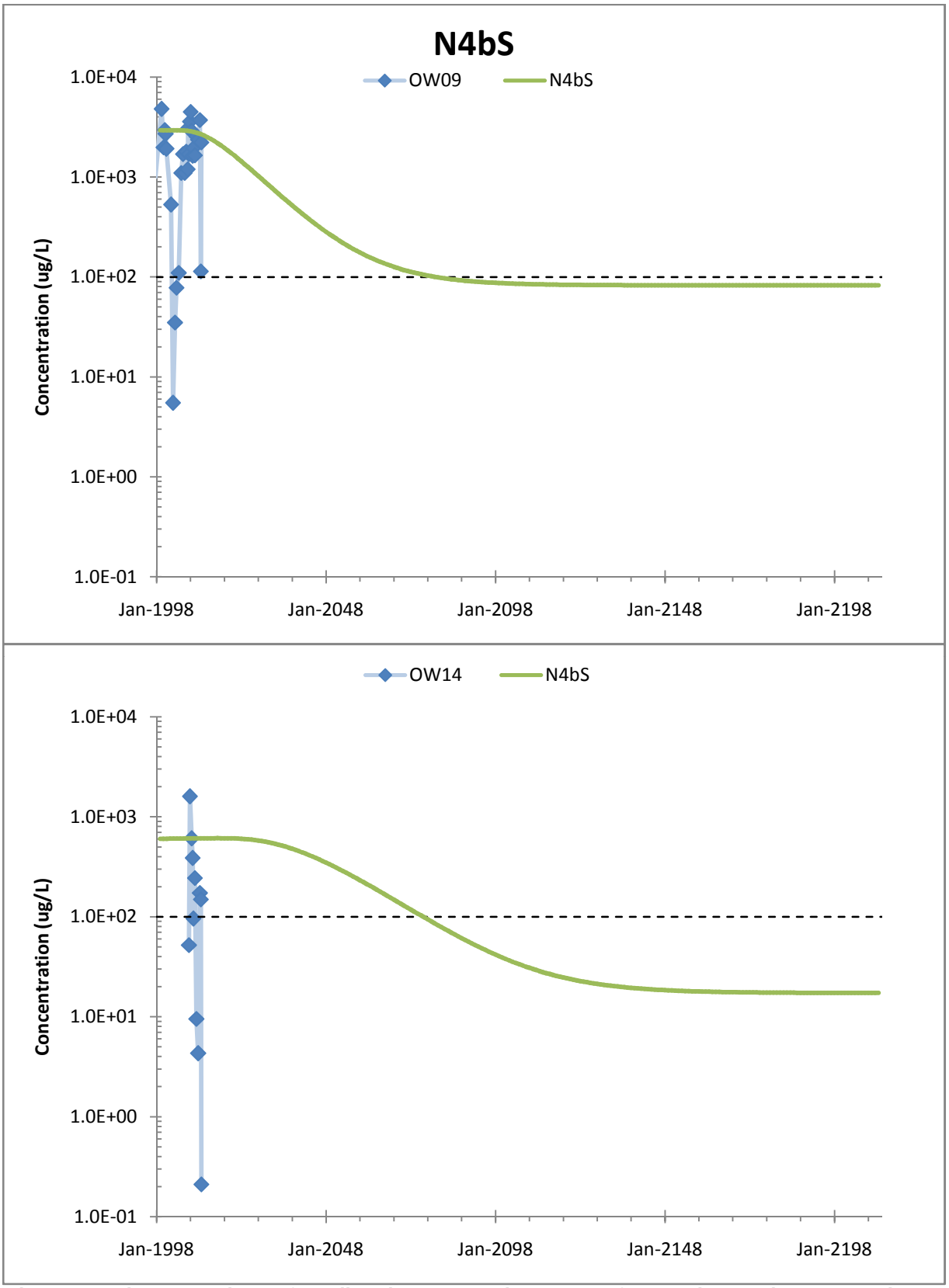


Figure C2-3d. Comparison of predicted concentrations at 220 feet to observed concentrations at OW9 (top) and OW14 (bottom) for final model scenario N4bS

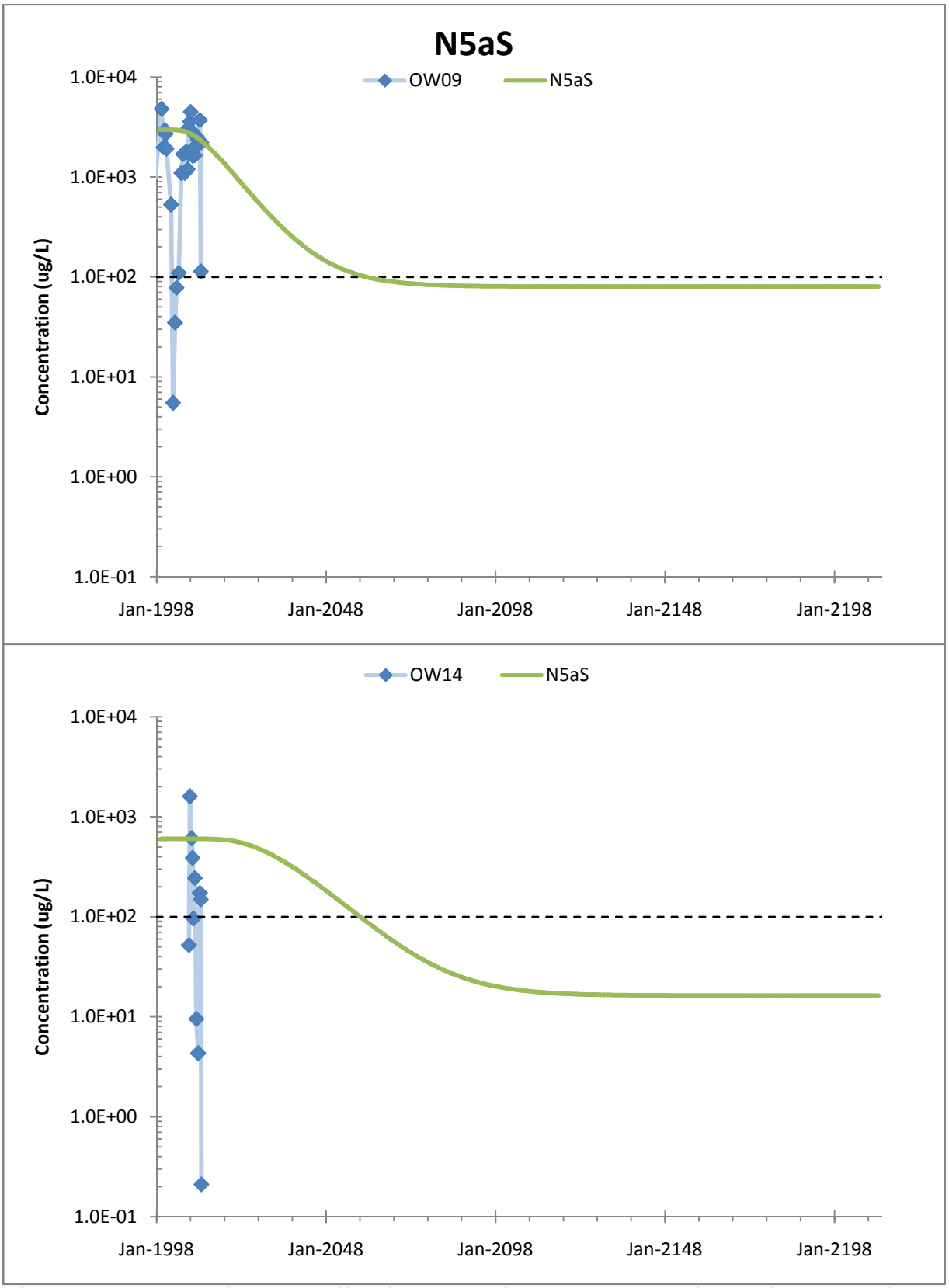


Figure C2-3e. Comparison of predicted concentrations at 220 feet to observed concentrations at OW9 (top) and OW14 (bottom) for final model scenario N5aS

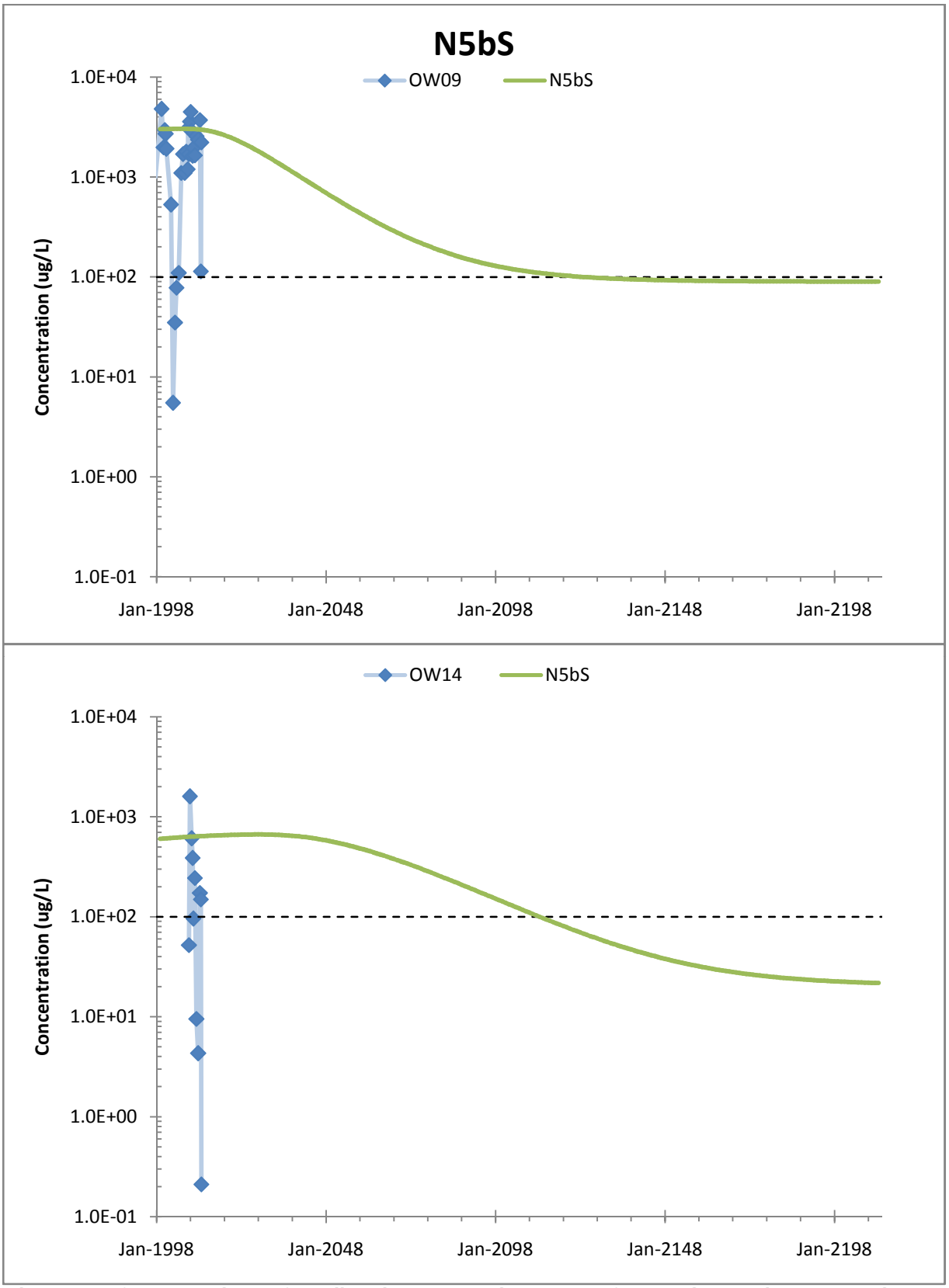


Figure C2-3f. Comparison of predicted concentrations at 220 feet to observed concentrations at OW9 (top) and OW14 (bottom) for final model scenario N5bS

APPENDIX D

TECHNOLOGY COST SHEETS

SOIL PROCESS OPTION 2 - Institutional Controls
Feasibility Study Report NRT PROJECT NO.: 1177
Wisconsin Public Service BY: HMS CHKD BY: JMK
Former Manufactured Gas Plant Site - Stevens Point, WI DATE: 1/6/08

CONSTRUCTION AND CONSULTING CAPITAL COSTS	QUANTITY	UNIT	UNIT COST	ITEM COST	SUB-SUB-TOTAL
Construction and Consulting Capital Costs					$23,000
GIS Registry with WDNR	1	LS	$18,000	$18,000	
Legal Description	1	LS	$5,000	$5,000	
SUBTOTAL, CAPITAL COSTS					$23,000
25% Estimating Contingency					$5,800
TOTAL CAPITAL COSTS					**$28,800**
ANNUAL COSTS					$0
SUBTOTAL, ANNUAL COSTS					$0
25% O&M Estimating Contingency					$0
TOTAL, ANNUAL COSTS					**$0**
Present Worth of Annual Costs over 30 Years, 5% Rate of Return					**$0**

ASSUMPTIONS
1. Above is a preliminary estimate and is subject to change.

SOIL PROCESS OPTION 3 - Excavation and Landfilling Former Slough
Feasibility Study Report NRT PROJECT NO.: 1177
Wisconsin Public Service BY: HMS CHKD BY: GRL
Former Manufactured Gas Plant Site - Stevens Point, WI DATE: 12/18/08

CONSULTING CAPITAL COSTS	SUB-TOTAL
Consulting	
Engineering Design/Permitting, Plans& Specifications, Bid Procurement, Construction Oversight & Documentation	$213,200
SUBTOTAL, CONSULTING CAPITAL COSTS	$213,200
25% Estimating Contingency	$53,300
TOTAL, CONSULTING CAPITAL COSTS	$266,500

CONSTRUCTION CAPITAL COSTS	QUANTITY	UNIT	UNIT COST	ITEM COST	SUB-TOTAL
Construction					
Mob./Demob.	1	LS	$50,000	$50,000	$50,000
Air Monitoring	9	Weeks	$6,250	$56,300	$56,300
Environmental Controls	1	LS	$20,000	$20,000	$20,000
Relocate Utilities					$62,000
Remove and Reroute Storm Sewer (includes management of storm wate	1	LS	$62,000	$62,000	
Site Preparation					$48,200
Installation of Chain Link Fence	900	LF	$10.00	$9,000	
Erosion Controls/Tracking Pads	1	LS	$10,000	$10,000	
Material Management and Decon Pad	1	LS	$20,000	$20,000	
Demolition, Removal and Recycling of Asphalt Pavement	18,300	SF	$0.5	$9,200	
Temporary Shoring					$872,000
Shoring (680 LF x 32', for 16' deep excav, installation))	21,800	SF	$40	$872,000	
Excavation and Processing					$623,500
Excavate Soil & Debris	18,000	TONS	$6.00	$108,000	
Loading and Hauling Soil/Debris to Stockpile On-site for Reuse	10,100	TONS	$2.00	$20,200	
Loading and Hauling Soil/Debris to Landfill	7,900	TONS	$28.00	$221,200	
Landfill Disposal of Debris and Soil	7,900	TONS	$25.00	$197,500	
MGP Contact Water Management	1	LS	$40,000	$40,000	
Water treatment trailer (bag filter and granular activated carbon)	1	LS	$30,000	$30,000	
Water Disposal at POTW	2,200,000	GALS	$0.003	$6,600	
Backfilling					$242,500
Backfill, Place and Compact Stockpile Material	10,100	TONS	$5.00	$50,500	
Imported General Backfill, Place and Compact	12,800	TONS	$15.00	$192,000	
Restoration					$147,100
Installation of Storm Sewer	250	LF	$60.00	$15,000	
Import, place & compact base course (6-in. layer)	500	TON	$20.00	$10,000	
Topsoil and Seeding (4-in layer)	24	CY	$25.00	$600	
Concrete Curb Reconstruction	90	CY	$350.00	$31,500	
Asphalt Pavement Reconstruction	18,000	SF	$5.00	$90,000	
Construction Quality Control					$10,000
Compaction Testing	1	LS	$5,000	$5,000	
Documentation Survey	1	LS	$5,000	$5,000	
SUBTOTAL, CONSTRUCTION CAPITAL COSTS					$2,131,600
25% Estimating Contingency					$532,900
TOTAL, CONSTRUCTION CAPITAL COSTS					$2,664,500

TOTAL CAPITAL COSTS	**$2,931,000**

ASSUMPTIONS

1. Assumes 10,850 yd^3 (18,300 SF x 16 ft deep) excavation at 1.65 tons : 1 yd^3 ~ 18,000 Tons
2. Assumes no foundations or large debris will require removal prior to installation of sheet piles or required demolition prior to disposal.
3. Assumes the storm sewer can be removed temporarily.
4. Shoring at perimeter of excavation limit ~ 680 LF of steel sheet piles.
5. Assumes 6,100 yd3 (18,300SF x top 9 ft deep) to be reused as backfill at 1.65 tons : 1y3 ~ 10,100 Tons
6. Asphalt pavement will be demolished and restored following construction.
8. Assume wastewater to be treated with bag filter and granular activated carbon.
9. Earthwork quantities are approximate and need to be verified during design.
10. Source of estimated costs: local contractor estimates, previous MGP site construction, and RS Means Site Work & Landscape Cost Data.
11. Above is a preliminary estimate only and will be revised during final design.

GROUNDWATER PROCESS OPTION 2 - Institutional Controls
Feasibility Study Report NRT PROJECT NO.: 1177
Wisconsin Public Service BY: HMS CHKD BY: JMK
Former Manufactured Gas Plant Site - Stevens Point, WI DATE: 1/6/08

CONSTRUCTION AND CONSULTING CAPITAL COSTS	QUANTITY	UNIT	UNIT COST	ITEM COST	SUB-SUB-TOTAL
Construction and Consulting Capital Costs					$28,000
GIS Registry with WDNR	1	LS	$23,000	$23,000	
Legal Description	1	LS	$5,000	$5,000	
SUBTOTAL, CAPITAL COSTS					$28,000
25% Estimating Contingency					$7,000
TOTAL CAPITAL COSTS					**$35,000**
ANNUAL COSTS					$0
SUBTOTAL, ANNUAL COSTS					$0
25% O&M Estimating Contingency					$0
TOTAL, ANNUAL COSTS					**$0**
Present Worth of Annual Costs over 30 Years, 5% Rate of Return					**$0**

ASSUMPTIONS
1. Above is a preliminary estimate and is subject to change.

GROUNDWATER PROCESS OPTION 3 - Monitoring Natural Attenuation (MNA)
Feasibility Study Report NRT PROJECT NO.: 1177
Wisconsin Public Service BY: HMS CHKD BY: JMK
Former Manufactured Gas Plant Site - Stevens Point, WI DATE: 5/12/11

CONSTRUCTION AND CONSULTING CAPITAL COSTS	QUANTITY	UNIT	UNIT COST	ITEM COST	SUB-SUB-TOTAL
Construction and Consulting Capital Costs	1	LS	$0.00	$0	$0
SUBTOTAL, CAPITAL COSTS					$0
25% Estimating Contingency					$0
TOTAL CAPITAL COSTS					**$0**
ANNUAL COSTS					$45,600
Project O&M Labor, Travel, Equipment	1	LS	$35,000	$35,000	
Analytical Costs - Spring (33 wells in network plus 3 duplicate and one matrix spike/matrix spike duplicate; semi-annually)	1	Rounds	$3,700	$3,700	
Analytical Costs - Fall (33 wells in network plus 3 duplicate and one matrix spike/matrix spike duplicate; semi-annually)	1	Rounds	$6,900	$6,900	
SUBTOTAL, ANNUAL COSTS					$45,600
25% O&M Estimating Contingency					$11,400
TOTAL, ANNUAL COSTS					**$57,000**
Present Worth of Annual Costs over 30 Years, 5% Rate of Return					**$876,230**

ASSUMPTIONS
1. Assumes 33 wells in monitoring network.
2. Assumes damaged wells can be repaired without replacement.
3. Does not include any well abandonment.
4. Assumes Spring laboratory analysis of benzene and PAH.
5. Assumes Fall laboratory analysis of benzene, PAH, alkalinity, nitrate and nitrite, methane, dissolved manganese, sulfate and
6. Field measured parameters include temperature, conductivity, turbidity, pH, ORP, and DO.
7. Above is a preliminary estimate and may be revised during final design.

GROUNDWATER PROCESS OPTION 4 - Extraction and Ex-Situ Treatment of Groundwater
Feasibility Study Report NRT PROJECT NO.: 1177
Wisconsin Public Service BY: AMM CHKD BY: HMS
Former Manufactured Gas Plant Site - Stevens Point, WI DATE: 5/26/11

CONSULTING CAPITAL COSTS	SUB-TOTAL
Consulting	
Engineering Design, System Installation Oversight, Final System Documentation	$90,575
SUBTOTAL, CONSULTING CAPITAL COSTS	$90,600
25% Estimating Contingency	$22,700
TOTAL, CONSULTING CAPITAL COSTS	$113,300

CONSTRUCTION CAPITAL COSTS	QUANTITY	UNIT	UNIT COST	ITEM COST	SUB-TOTAL
Construction					$362,300
Mob./Demob.	1	LS	$35,000	$35,000	
Design/Testing	1	LS	$20,000	$20,000	
Extraction well installation	60	LF	$310	$18,600	
Trenching for GW transport piping	200	LF	$45	$9,000	
Horizontal directional boring for piping under road	200	LF	$331	$66,200	
System Enclosure	1	LS	$40,000	$40,000	
PLC Control System and Electrical	1	LS	$75,000	$75,000	
Groundwater Extraction Pumps	2	EACH	$14,000	$28,000	
Treatment System Components and Installation	1	LS	$35,000	$35,000	
Trenching and Piping for Discharge Sewer	100	LF	$50	$5,000	
Sewer connection fee	1	LS	$2,500	$2,500	
Install 3-phase Electrical Service	1	LS	$15,000	$15,000	
Startup/testing	1	LS	$5,000	$5,000	
Documentation Surveying	1	LS	$3,000	$3,000	
Restoration of Disturbed Areas	500	SY	$10	$5,000	
SUBTOTAL, CONSTRUCTION CAPITAL COSTS					$362,300
25% Construction Estimating Contingency					$90,600
TOTAL, CONSTRUCTION CAPITAL COSTS					$452,900
TOTAL CAPITAL COSTS					**$566,200**

ANNUAL COSTS					
ANNUAL COSTS					$172,100
Project O&M Labor, Travel, Equipment	1	LS	$31,000	$31,000	
O&M of Treatment System	1	LS	$6,000	$6,000	
Discharge Sampling Analytical (influent and effluent quarterly)	1	LS	$1,200	$1,200	
Discharge to Sanitary Sewer	26,300,000	GAL	$0.004	$105,200	
Electric / Heating / Light	1	LS	$25,000	$25,000	
Annual Analytical Costs (33 wells in network plus 3 duplicate and one matrix spike/matrix spike duplicate; Annually)	1	LS	$3,700	$3,700	
SUBTOTAL, ANNUAL COSTS					$172,100
25% O&M Estimating Contingency					$43,000
TOTAL, ANNUAL COSTS					**$215,100**

Present Worth of Annual Costs over 30 Years, 5% Rate of Return **$3,306,614**

ASSUMPTIONS

1. Groundwater modeling will be required during design to verify well quantity, well depth, and pumping rates to achieve an acceptable drawdown and radius of influence.
2. Installation of two groundwater extraction wells to an average depth of 30 bgs.
3. Total pump rate of 50 gpm.
4. Groundwater to be treated using bag filter unit(s) and activated carbon or air stripper to meet City of Stevens Point sanitary discharge requirements.
5. Annual groundwater monitoring of 33 groundwater monitoring wells for benzene and PAHs
6. Trenching and restoration quantities are approximate and need to be verified during design.
7. Sources of estimated costs: local contractor estimates, previous MGP site construction, and RS Means Site Work & Landscape Cost Data.
8. Above is a preliminary estimate only and will be revised during final design.

Pfiffner Pioneer Pond Process Option 2a - Capping (6-inch Sand Layer)
Feasibility Study Report NRT PROJECT NO.: 1177
Wisconsin Public Service BY: SLM CHKD BY: RHW
Former Manufactured Gas Plant Site - Stevens Point, WI DATE: 12/21/08

CONSULTING CAPITAL COSTS					SUB-TOTAL
Consulting					
Engineering Design/Permitting, Plans& Specifications, Bid Procurement, Construction Oversight & Documentation					$60,000
SUBTOTAL, CONSULTING CAPITAL COSTS					$60,000
25% Estimating Contingency					$15,000
TOTAL, CONSULTING CAPITAL COSTS					$75,000

CONSTRUCTION CAPITAL COSTS	QUANTITY	UNIT	UNIT COST	ITEM COST	SUB-TOTAL
Construction					
Mob./Demob., including long-stick excavator for spreading, support equipment, power supply, H&S, work plan, utility clearance, contractor bond, etc	1	LS	$34,000	$34,000	$34,000
Site Preparation					$19,900
Access Roads (Install/Remove)	250	LF	$25.00	$6,300	
Erosion Controls/Tracking Pads	1	LS	$6,000	$6,000	
Tracking pads for park	1	LS	$5,000	$5,000	
Turbidity Curtain (Install, Remove and Maintain)	1	LS	$2,600	$2,600	
Cover					$20,100
Spread/Place Cover Material - sand	2	DAYS	$7,600.00	$15,200	
Six inch sand cover - sand, material and delivery	600	TONS	$8.20	$4,900	
Restoration					$6,200
Regrade existing topsoil, till, seed and mulch	2	ACRE	$4,100.00	$6,200	
Construction Quality Control					$5,600
Borrow pit sample for cap sand	1	LS	$550	$600	
Documentation Survey	1	LS	$5,000	$5,000	
SUBTOTAL, CONSTRUCTION CAPITAL COSTS					$85,800
25% Estimating Contingency					$21,500
TOTAL, CONSTRUCTION CAPITAL COSTS					$107,300

TOTAL CAPITAL COSTS	**$182,300**

EVENT COSTS (First 3 Years and Every 5 Years thereafter)					$5,500
Cap Monitoring: Labor, Reporting, Travel, Equipment	1	EVENT	$5,500	$5,500	
SUBTOTAL, EVENT COSTS					$5,500
25% O&M Estimating Contingency					$1,400

TOTAL, ANNUAL COSTS	**$6,900**

Present Worth of Event Costs over 30 Years (8 Events), 5% Rate of Return	**$33,994**

ASSUMPTIONS
1. Above is a preliminary estimate only and will be revised during final design.
2. Assume potable water is available near the site.
3. Assume no overhead or underground utilities in work area will obstruct work.
4. Access roads to be constructed of geotextile fabric and 6-8 inches crushed stone.
5. Some cost savings could be realized if river work is performed in conjunction with pond work (use same haul roads and support zone).
6. Due to inability to grade pond bottom, enough sand for 9-inch layer, will be deployed to ensure adequate cover.
7. Cap quantity is approximate and needs to be verified during design.
8. Assume 9-inch sand cover over 0.2 acre pond = 240 CY.
9. Assume sand cover density 1.65 tons/CY.
10. Source of estimated costs: contractor estimates, previous MGP site construction, and RS Means Site Work & Landscape Cost Data.

Pfiffner Pioneer Pond Process Option 2b - Capping (6-inch Sand Layer Amended with Activated Carbon)
Feasibility Study Report NRT PROJECT NO.: 1177
Wisconsin Public Service BY: HMS CHKD BY:
Former Manufactured Gas Plant Site - Stevens Point, WI DATE:

CONSULTING CAPITAL COSTS	SUB-TOTAL
Consulting	
Engineering Design/Permitting, Plans& Specifications, Bid Procurement, Construction Oversight & Documentation	$60,000
SUBTOTAL, CONSULTING CAPITAL COSTS	$60,000
25% Estimating Contingency	$15,000
TOTAL, CONSULTING CAPITAL COSTS	$75,000

CONSTRUCTION CAPITAL COSTS	QUANTITY	UNIT	UNIT COST	ITEM COST	SUB-TOTAL
Construction					
Mob./Demob., including long-stick excavator for spreading, support equipment, power supply, H&S, work plan, utility clearance, contractor bond, etc	1	LS	$34,000	$34,000	$34,000
Site Preparation					$19,900
Access Roads (Install/Remove)	250	LF	$25.00	$6,300	
Erosion Controls/Tracking Pads	1	LS	$6,000	$6,000	
Tracking pads for park	1	LS	$5,000	$5,000	
Turbidity Curtain (Install, Remove and Maintain)	1	LS	$2,600	$2,600	
Cover					$32,300
Spread/Place Cover Material - sand	2	DAYS	$7,600	$15,200	
Six inch sand cover - sand, material and delivery	600	TONS	$8.20	$4,900	
Activated Carbon (material, delivery, and placement)	8,710	SF	$1.40	$12,200	
Restoration					$6,200
Regrade existing topsoil, till, seed and mulch	2	ACRE	$4,100.00	$6,200	
Construction Quality Control					$5,600
Borrow pit sample for cap sand	1	LS	$550	$600	
Documentation Survey	1	LS	$5,000	$5,000	
SUBTOTAL, CONSTRUCTION CAPITAL COSTS					$98,000
25% Estimating Contingency					$24,500
TOTAL, CONSTRUCTION CAPITAL COSTS					$122,500

TOTAL CAPITAL COSTS	**$197,500**

EVENT COSTS (First 3 Years and Every 5 Years thereafter)					$5,500
Cap Monitoring: Labor, Reporting, Travel, Equipment	1	EVENT	$5,500	$5,500	
SUBTOTAL, EVENT COSTS					$5,500
25% O&M Estimating Contingency					$1,400

TOTAL, ANNUAL COSTS	**$6,900**

Present Worth of Event Costs over 30 Years (8 Events), 5% Rate of Return	**$33,994**

ASSUMPTIONS

1. Above is a preliminary estimate only and will be revised during final design.
2. Assume potable water is available near the site.
3. Assume no overhead or underground utilities in work area will obstruct work.
4. Access roads to be constructed of geotextile fabric and 6-8 inches crushed stone.
5. Some cost savings could be realized if river work is performed in conjunction with pond work (use same haul roads and support zone).
6. Due to inability to grade pond bottom, enough sand for 9-inch layer, will be deployed to ensure adequate cover.
7. Cap quantity is approximate and needs to be verified during design.
8. Assume 9-inch sand cover with 6 lbs/sy of activated carbon over 0.2 acre pond = 240 CY.
9. Assume sand cover density 1.65 tons/CY.
10. Source of estimated costs: contractor estimates, previous MGP site construction, and RS Means Site Work & Landscape Cost Data.

Pfiffner Pioneer Pond Process Option 3 - Dredging and Landfill Disposal and 6-inch Sand Cover
Feasibility Study Report NRT PROJECT NO.: 1177
Wisconsin Public Service BY: SLM CHKD BY: RHW
Former Manufactured Gas Plant Site - Stevens Point, WI DATE: 12/22/08

CONSULTING CAPITAL COSTS	SUB-TOTAL
Consulting	
Engineering Design/Permitting, Plans& Specifications, Bid Procurement, Construction Oversight & Documentation	$105,800
SUBTOTAL, CONSULTING CAPITAL COSTS	$105,800
25% Estimating Contingency	$26,500
TOTAL, CONSULTING CAPITAL COSTS	$132,300

CONSTRUCTION CAPITAL COSTS	QUANTITY	UNIT	UNIT COST	ITEM COST	SUB-TOTAL
Construction					
Mob./Demob., including long-stick excavator and water treatment system wi	1	LS	$50,000	$50,000	$50,000
Site Preparation					$70,000
Access Roads (Install/Remove)	250	LF	$25.00	$6,300	
Erosion Controls/Fencing	1	LS	$6,000	$6,000	
Tracking pads for park	1	LS	$5,000	$5,000	
Water treatment system (mob/demob, setup, maintain)	1	LS	$18,500	$18,500	
Drainage pad - (install/remove, maintenance)	1	LS	$21,000	$21,000	
Wastewater discharge piping to River (install/remove)	150	LF	$4	$600	
Turbidity curtain to block pond/river conduit (install/remove, maintain)	1	LS	$2,600	$2,600	
Treatability Study for amending dredged material for drying	1	LS	$10,000	$10,000	
Dredging					$200,000
Dredging	7	DAYS	$6,500.00	$45,500	
Dewatering and water treatment	231,000	GALLONS	$0.05	$11,600	
Lime Kiln Dust (LKD) for stabilization, including delivery	190	TONS	$180.00	$34,200	
Transportation to landfill	2,050	TONS	$28.00	$57,400	
Disposal of dredge spoils	2,050	TONS	$25.00	$51,300	
Cover					$20,100
Spread/Place Cover Material - sand	2	DAYS	$7,600.00	$15,200	
Six inch sand layer - sand, material and delivery	600	TONS	$8.20	$4,900	
Restoration					$6,200
Regrade existing topsoil, till, seed and mulch	2	ACRE	$4,100.00	$6,200	
Construction Quality Control					$77,000
Disposal sample for landfill acceptance	1	LS	$1,100	$1,100	
Borrow pit sample for cap sand	1	LS	$550	$600	
Wastewater sampling	6	SAMPLE	$550	$3,300	
Monitoring and controls at drainage pad and load-out area	2	WEEK	$20,000	$40,000	
Air Monitoring	4	WEEK	$6,750	$27,000	
Documentation Survey	1	LS	$5,000	$5,000	
SUBTOTAL, CONSTRUCTION CAPITAL COSTS					$423,300
25% Estimating Contingency					$105,800
TOTAL, CONSTRUCTION CAPITAL COSTS					$529,100

TOTAL CAPITAL COSTS	**$661,400**

ASSUMPTIONS

1. Pond is to be dredged to a depth of approximately 3.5 feet. Pond area is 0.2 acre; volume to be dredged is approximately 1,130 CY.
2. Assume 1,130 CY of silty clay dredged at 1.65 tons/CY for disposal (including dewatering and amendment) = 2,050 tons.
3. Assume 30% of pond water volume will be removed during wet, mechanical excavation. Approximately 60,000 gallons.
4. Assume sediments are 65% water, which will be collected on drainage pad. Approximately 150,000 gallons.
5. 10% contingency (for rain, etc) added to total wastewater volume for treatment and disposal.
6. Drainage pad to be constructed of 30-mil liner, geotextile fabric, 6 inches crushed stone, and earthen berm.
7. Access roads to be constructed of geotextile fabric and 6-8 inches crushed stone.
8. Assume wastewater to be treated with bag filter and granular activated carbon. No carbon change out expected.
9. Assume treated wastewater to discharged to river.
10. Sediment quantities are approximate and need to be verified during design.
11. Dredge spoils can be sufficiently conditioned for disposal with 10% Lime Kiln Dust (10% x 1,860 tons = 190 tons LKD).
12. Assume use of type II Siltmaster turbidity curtain.
13. Due to inability to grade pond bottom, enough sand for 9-inch layer, will be deployed to ensure adequate cover.
14. Assume 9-inch sand cover over 0.2 acre pond = 240 CY.
15. Assume sand cover density 1.65 tons/CY.
16. Source of estimated costs: contractor estimates, previous MGP site construction, and RS Means Site Work & Landscape Cost Data.
17. Above is a preliminary estimate only and will be revised during final design.

Wisconsin River Process Option 2a - Sand Cover
Feasibility Study Report NRT PROJECT NO.: 1177
Wisconsin Public Service BY: SLM CHKD BY: RHW
Former Manufactured Gas Plant Site - Stevens Point, WI DATE: 12/22/08

CONSULTING CAPITAL COSTS	SUB-TOTAL
Consulting	
Engineering Design/Permitting, Plans& Specifications, Bid Procurement, Construction Oversight & Documentation	$80,000
SUBTOTAL, CONSULTING CAPITAL COSTS	$80,000
25% Estimating Contingency	$20,000
TOTAL, CONSULTING CAPITAL COSTS	$100,000

CONSTRUCTION CAPITAL COSTS	QUANTITY	UNIT	UNIT COST	ITEM COST	SUB-TOTAL
Construction					
Mob./Demob., including barge-mounted excavator for spreading, support equipment, construction of river-bank work platform, H&S, work plan, utility clearance, contractor bond, etc	1	LS	$147,900	$147,900	$147,900
Site Preparation					$42,300
Access Roads (Install/Remove)	250	LF	$25	$6,300	
Erosion Controls/Tracking Pads	1	LS	$6,000	$6,000	
Turbidity Curtain (Install, Remove and Maintain)	1	LS	$30,000	$30,000	
Cover					$64,700
Spread/Place Cover Material - sand, including verification of cap thickne	6	DAYS	$8,900	$53,400	
Six inch sand cover - sand, material and delivery	1,380	TONS	$8.20	$11,300	
Restoration					$9,900
Regrade existing topsoil, till, seed and mulch	2	ACRE	$6,600	$9,900	
Construction Quality Control					$5,600
Borrow pit sample for cap sand	1	LS	$550	$600	
Documentation Survey	1	LS	$5,000	$5,000	
SUBTOTAL, CONSTRUCTION CAPITAL COSTS					$270,400
25% Estimating Contingency					$67,600
TOTAL, CONSTRUCTION CAPITAL COSTS					$338,000

TOTAL CAPITAL COSTS	**$438,000**

Present Worth of Event Costs over 30 Years (8 Events), 5% Rate of Return	**$0**

ASSUMPTIONS

1. Area to be capped is river area with contaminant concentrations greater than Probable Effect Concentration (PEC). Area is approximately 17,780 SF, or 0.4 acre.
2. Assume accessible boat launch is located near site.
3. Assume potable water is available near the site.
4. Assume no overhead or underground utilities in work area will obstruct work.
5. Some cost savings could be realized if river work is performed in conjunction with pond work (use same haul roads and support zone).
6. Cap quantity is approximate and needs to be verified during design.
7. Assume sand cap density 1.65 tons/CY.
8. Assume 9-inch sand cap over 0.46 acre area = 560 CY.
9. Source of estimated costs: contractor estimates, previous MGP site construction, and RS Means Site Work & Landscape Cost Data.
10. Above is a preliminary estimate only and will be revised during final design.

Wisconsin River Process Option 2b - Sand Cover with 6-inch Armor
Feasibility Study Report NRT PROJECT NO.: 1177
Wisconsin Public Service BY: HMS CHKD BY:
Former Manufactured Gas Plant Site - Stevens Point, WI DATE:

CONSULTING CAPITAL COSTS	SUB-TOTAL
Consulting	
Engineering Design/Permitting, Plans& Specifications, Bid Procurement, Construction Oversight & Documentation	$80,000
SUBTOTAL, CONSULTING CAPITAL COSTS	$80,000
25% Estimating Contingency	$20,000
TOTAL, CONSULTING CAPITAL COSTS	$100,000

CONSTRUCTION CAPITAL COSTS	QUANTITY	UNIT	UNIT COST	ITEM COST	SUB-TOTAL
Construction					
Mob./Demob., including barge-mounted excavator for spreading, support equipment, construction of river-bank work platform, H&S, work plan, utility clearance, contractor bond, etc	1	LS	$147,900	$147,900	$147,900
Site Preparation					$42,300
Access Roads (Install/Remove)	250	LF	$25	$6,300	
Erosion Controls/Tracking Pads	1	LS	$6,000	$6,000	
Turbidity Curtain (Install, Remove and Maintain)	1	LS	$30,000	$30,000	
Cover					$95,800
Spread/Place Cover Material - sand, including verification of cap thickne	6	DAYS	$8,900	$53,400	
Six inch sand cover - sand, material and delivery	1,380	TONS	$8.20	$11,300	
Armor 6-inches thick (material, delivery and placement)	17,780	SF	$1.75	$31,100	
Restoration					$9,900
Regrade existing topsoil, till, seed and mulch	2	ACRE	$6,600	$9,900	
Construction Quality Control					$5,600
Borrow pit sample for cap sand	1	LS	$550	$600	
Documentation Survey	1	LS	$5,000	$5,000	
SUBTOTAL, CONSTRUCTION CAPITAL COSTS					$301,500
25% Estimating Contingency					$75,400
TOTAL, CONSTRUCTION CAPITAL COSTS					$376,900

TOTAL CAPITAL COSTS	**$476,900**

Present Worth of Event Costs over 30 Years (8 Events), 5% Rate of Return	**$0**

ASSUMPTIONS

1. Area to be capped is river area with contaminant concentrations greater than Probable Effect Concentration (PEC). Area is approximately 17,780 SF, or 0.4 acre.
2. Assume accessible boat launch is located near site.
3. Assume potable water is available near the site.
4. Assume no overhead or underground utilities in work area will obstruct work.
5. Some cost savings could be realized if river work is performed in conjunction with pond work (use same haul roads and support zone).
6. Cap quantity is approximate and needs to be verified during design.
7. Assume sand cap density 1.65 tons/CY.
8. Assume 9-inch sand cap with activated carbon over 0.46 acre area = 560 CY.
9. Source of estimated costs: contractor estimates, previous MGP site construction, and RS Means Site Work & Landscape Cost Data.
10. Above is a preliminary estimate only and will be revised during final design.