



ENVIRONMENTAL CONSULTANTS



441369

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Ms. Margaret Gielnewski  
United States Environmental Protection Agency  
77 W. Jackson Boulevard  
Chicago, IL 60604-3590

February 13, 2012  
(1569)

RE: Groundwater Quality Data Transmittal, September 2011 Groundwater Monitoring Event  
Former Two Rivers Manufactured Gas Plant, 21st and School Streets, Two Rivers, Wisconsin  
USEPA ID# WIN000509953, BRRTS # 02-36-000255

Dear Ms. Gielnewski:

On behalf of Integrys Business Support, LLC, (IBS) managing Wisconsin Public Service Corporation's (WPSC) former Manufactured Gas Plant (MGP) sites, Natural Resource Technology, Inc. (NRT) is providing analytical results from the most recent groundwater sampling event performed at the Former Two Rivers MGP site in Two Rivers, Wisconsin.

Groundwater samples and water level measurements were collected September 20, 2011, and the samples were analyzed for petroleum volatile organic compounds (PVOCs) and polynuclear aromatic hydrocarbons (PAHs). Monitoring wells MW610 and MW611, located on the US Oil Property, just north of the former MGP, were observed to be damaged and could not be sampled. These groundwater monitoring wells are side gradient to the groundwater plum, frequently non-detect for benzene and naphthalene and historically well below the groundwater screening levels. Replacement wells will be evaluated as part of the Site-Specific Work Plan when the site is initiated with the USEPA.

Analytical results and groundwater elevations from 2005 through 2011 are summarized on the enclosed tables and figures. Historic groundwater data tables (2005 and earlier) are included as Appendix A. The laboratory analytical report is included as Appendix B.

Please contact Mr. Naren Prasad of IBS or either of the undersigned if you have questions or comments regarding this report.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

Eric Kovatch, PG  
Senior Hydrogeologist

Jennifer M. Kahler, PE  
Senior Engineer/Project Manager

- Enc.: Figure 1 – Site Location (1569-A01)  
Figure 2 – Site Layout (1569-4-B05)  
Figure 3 – Water Table Contours September 2010 (1569-10-B03)  
Figure 4 – Piezometric Surface Contours September 2010 (1569-10-B04)

- Table 1 – Groundwater Analytical Results – PVOCs  
Table 2 – Groundwater Analytical Results – PAHs  
Table 3 – Groundwater Elevations and Monitoring Well Construction Details

- Appendix A – Historic Analytical Data Tables  
Appendix B – Laboratory Analytical Report

Ms. Margaret Gielnewski  
February 13, 2012  
Page 2

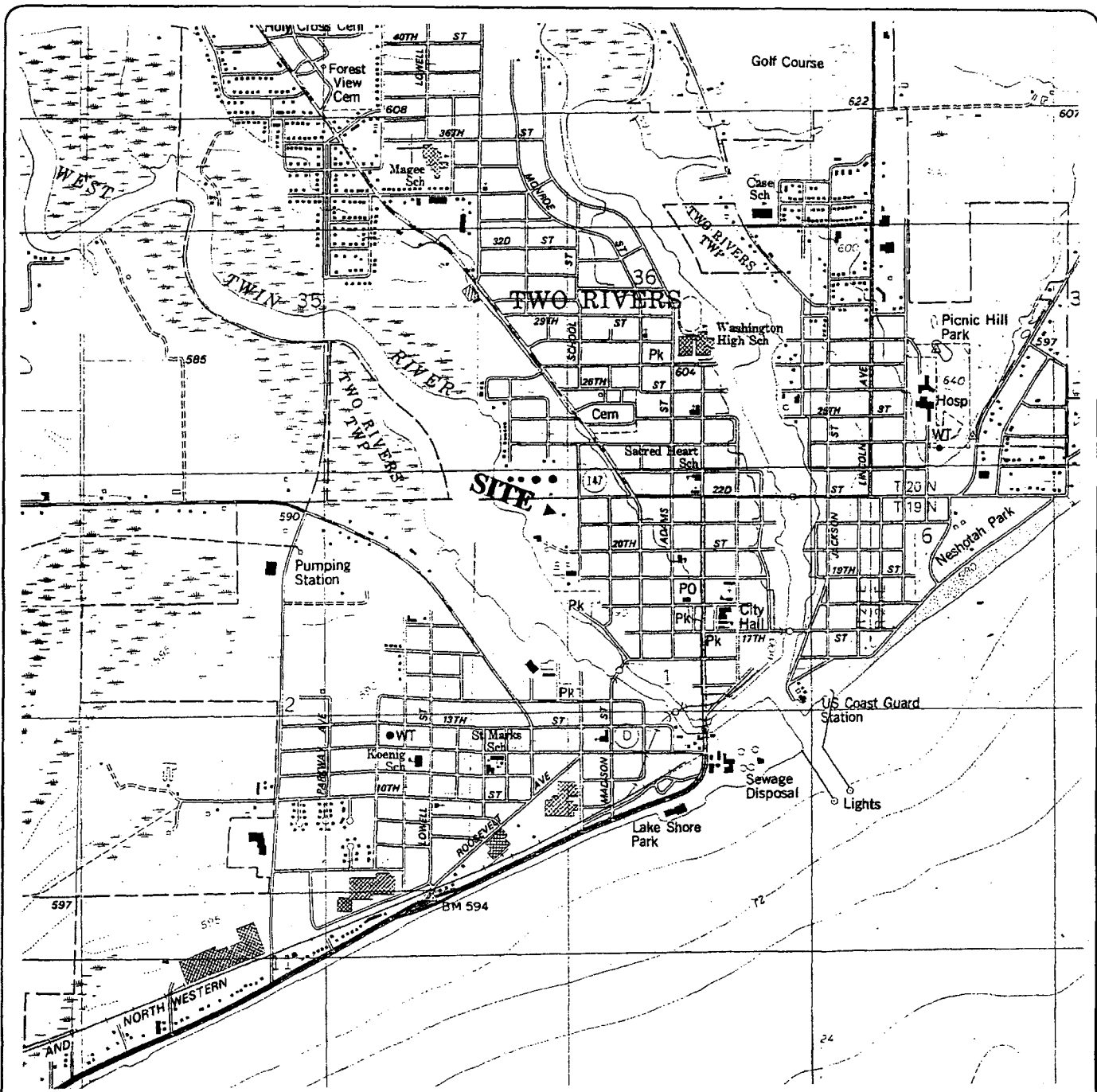


cc (w/enc.): Mr. Naren Prasad, Integrys Business Support, LLC (via email)  
Ms. Annette Weissbach, Wisconsin Department of Natural Resources (hard copy)  
Ms. Catherine Schripsema and Emily Jennings, CH2M Hill (via email)

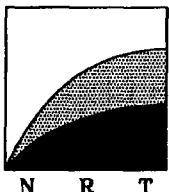
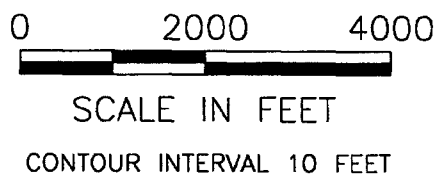
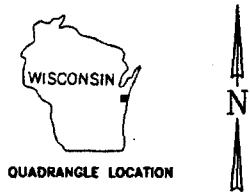
[File:\1569 GW Quality Update transmittal 120209]



## FIGURES



SOURCE: USGS 7.5 MINUTE QUADRANGLE, TWO RIVERS. DATED 1978.



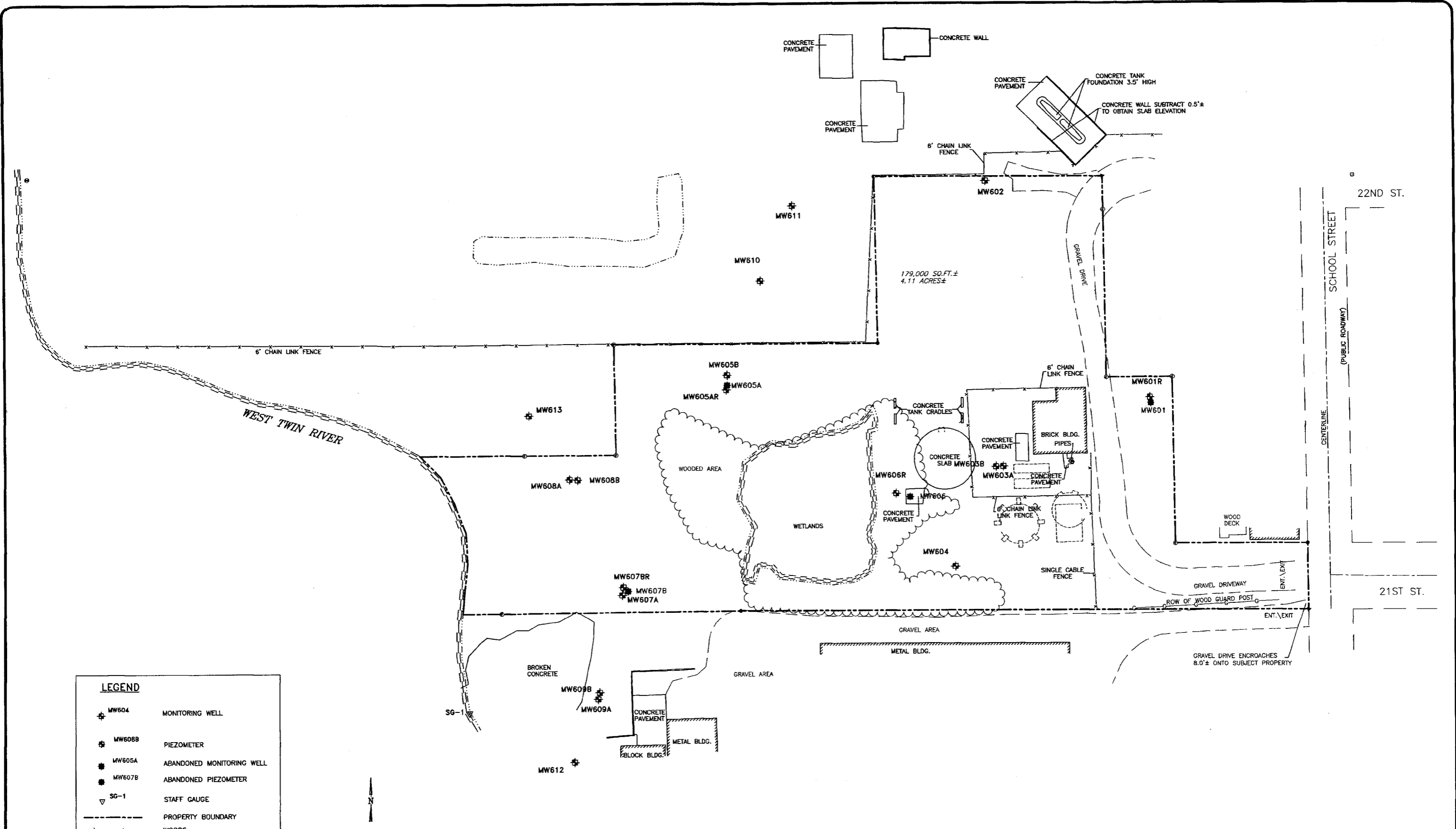
Natural  
Resource  
Technology

SITE LOCATION MAP

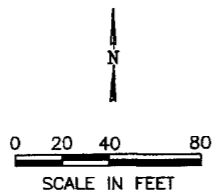
FORMER TWO RIVERS MANUFACTURED GAS PLANT SITE  
WISCONSIN PUBLIC SERVICE CORPORATION  
CITY OF TWO RIVERS, WISCONSIN

PROJECT NO.  
1569  
DRAWING NO.  
1569-A01  
FIGURE NO.  
1

DRAWN BY: TAS APPROVED BY: EPK DATE: 07/07/03



LEGEND	
⊕ MW604	MONITORING WELL
⊕ MW608B	PIEZOMETER
⊕ MW605A	ABANDONED MONITORING WELL
⊕ MW607B	ABANDONED PIEZOMETER
▽ SG-1	STAFF GAUGE
---	PROPERTY BOUNDARY
~~~~~	WOODS
---	FORMER STRUCTURE
---	EXISTING STRUCTURE



SOURCE NOTES:  
 THIS DRAWING WAS DEVELOPED FROM A SURVEY BY CAROW LAND SURVEYING CO., INC., PROJECT NO. 0034.29, DATED 5-27-03. NORTH IS REFERENCED TO THE NORTH LINE OF THE FRACTIONAL NORTHWEST 1/4 OF SECTION 1, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF TWO RIVERS, MANITOWOC COUNTY, WISCONSIN WHICH BEARS N89°59'51"E PER THE MANITOWOC COUNTY COORDINATE SYSTEM. REPLACEMENT WELLS SURVEYED BY WPSC JUNE 2004.



PROJECT NO.		SITE LAYOUT	
1569/4.0		GROUNDWATER QUALITY UPDATE TRANSMITTAL FORMER TWO RIVERS MANUFACTURED GAS PLANT SITE WISCONSIN PUBLIC SERVICE CORPORATION CITY OF TWO RIVERS, WISCONSIN	
DRAWN BY: RLH BJK 01/05/07		DRAWING NO: 1569-4-B05	
CHECKED BY: PAR 01/12/07		REFERENCE:	
APPROVED BY: JMK 02/06/07		FIGURE NO. 2	

SAMPLE LOCATION	BEN	NAPH	BTEX	PAHs	CYN WAD
SAMPLE DATE	BENZENE µg/L	NAPHTHALENE µg/L	TOTAL BTEX µg/L	POLYNUCLEAR AROMATIC HYDROCARBONS µg/L	CYANIDE - WEAK ACID DISSOCIABLE mg/L
USEPA MCLs or NR 140 Wisconsin Groundwater Quality Standards					
	5	100	na	na	0.2

Notes:  
 <2.0: Parameter not detected above the Limit of Detection indicated.  
 -: Analysis was not performed  
 nd: Analyte not detected  
 na: No NR 140 standards established for these parameters. Refer to analytical tables for laboratory flags and qualifiers.  
 NM: Water Level Not Measured

MW610	BEN	NAPH	BTEX	PAH	CYN WAD
09/05/96	nd	nd	nd	nd	-
10/11/96	nd	nd	nd	nd	-
10/30/02	<0.25	0.03	nd	0.5	<0.0027
07/02/03	<0.30	0.03	nd	0.5	0.0038
10/16/03	<0.30	<0.024	nd	0.6	0.00106
08/04/04	<0.14	0.03	nd	0.3	-
10/04/05	<0.14	0.08	nd	0.1	-
09/22/06	<0.14	0.06	nd	0.3	-
10/17/07	<0.14	<0.012	nd	nd	-
10/02/08	0.54	0.30	0.5	0.6	-
09/30/09	1.2	0.25	2.1	0.97	-
09/28/10	<0.41	0.13	0.77	0.20	-
09/20/11	-	-	-	-	-

MW611	BEN	NAPH	BTEX	PAH	CYN WAD
09/05/96	nd	nd	nd	nd	-
10/11/96	nd	nd	nd	nd	-
10/30/02	<0.25	<0.024	nd	nd	<0.0027
07/02/03	<0.30	0.03	nd	0.03	0.0104
10/16/03	<0.30	<0.024	nd	nd	0.00072
08/04/04	<0.14	0.03	nd	0.03	-
10/04/05	<0.14	4.10	nd	7.7	-
09/22/06	<0.14	0.57	nd	1.1	-
10/17/07	<0.14	0.04	nd	0.078	-
10/02/08	0.61	0.03	0.6	0.21	-
09/30/09	2.0	0.32	12	0.94	-
09/28/10	<0.41	0.12	4.7	0.16	-
09/20/11	-	-	-	-	-

MW605AR05AR	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/94	140	1,500	970	3,486	0.14
01/10/95	1,400	2,300	4,330	3,588	0.013
06/24/02	65	97	102	1,558	<0.0084
08/03/04	3,300	310,000	15,000	1,048,000	-
10/04/05	7,600	610,000	23,800	2,065,900	-
09/22/06	1,500	15	2,059	132	-
10/17/07	Did not sample (product present)				
10/02/08	6,880	17	8,554	328	-
09/30/09	6,460	9,180	11,013	31,087	-
09/28/10	2,790	18.2	5,244	20.50	-
09/20/11	3,730	61.9	4,912	254.76	-

MW613	BEN	NAPH	BTEX	PAH	CYN WAD
08/04/04	<0.41	0.57	nd	1.1	-
10/04/05	<0.14	2.30	nd	3.8	-
09/22/06	<0.14	0.24	nd	0.3	-
10/17/07	1.80	0.41	2.5	1.0	-
10/02/08	0.81	2.20	1.9	4.9	-
09/30/09	0.87	0.26	1.3	0.66	-
09/28/10	22.1	2.3	23.8	3.19	-
09/20/11	<0.41	0.02	nd	2.42	-

MW608A	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/94	760	980	827	1,725	nd
01/10/95	990	510	960	1,245	nd
06/24/02	420	0.06	491	23	<0.0084
07/02/03	2,400	120	2,786	619	<0.0010
10/16/03	3,700	170	4,250	734	0.0032
08/03/04	1,300	330	2,501	845	-
10/04/05	6,000	420	7,507	1,623	-
09/22/06	3,800	100	5,671	359	-
10/17/07	4,100	580	5,671	1,045	-
10/02/08	2,200	-	3,959	-	-
09/30/09	10,800	864	12,596	1,278	-
09/28/10	10,600	966	12,798	1,419	-
09/20/11	2,780	978	3,918	1,393	-

MW607A	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/94	830	1,300	2,469	2,080	0.76
01/10/95	1,100	1,300	2,960	1,300	0.23
06/24/02	570	34	1,673	53	0.042
07/02/03	980	240	2,858	452	0.0090
10/16/03	560	260	1,905	557	0.00358
08/04/04	1,000	650	3,123	1,148	-
10/04/05	360	18	659	100	-
09/22/06	1,200	670	3,243	1,140	-
10/17/07	620	360	1,566	670	-
10/02/08	843	585	2,000	891	-
09/30/09	922	460	2,837	803	-
09/28/10	854	763	2,581	763	-
09/20/11	1,030	507	1,948	727.1	-

MW609A	BEN	NAPH	BTEX	PAH	CYN WAD
09/05/96	45	8.9	105	52	-
10/11/96	31	4.5	70	27	-
06/24/02	72	2.4	122	5.1	0.024
07/02/03	67	3.3	140	3.9	0.0074
10/16/03	51	2.8	134	3.3	<0.00048
08/04/04	35	2.8	128	12	-
10/04/05	23	3.1	177	3.5	-
09/22/06	20	5.5	275	7.1	-
10/17/07	48	4.2	155	5.2	-
10/02/08	44	4.4	119	5.2	-
09/30/09	53	4.9	117	6.1	-
09/28/10	101	5.2	162.3	5.33	-
09/20/11	84	4.1	98.01	5.36	-

MW612	BEN	NAPH	BTEX	PAH	CYN WAD
08/04/04	4.3	2.40	4.3	134	-
10/04/05	1.2	1.10	2.5	13	-
09/22/06	4.8	0.65	6.1	19	-
10/17/07	4.1	1.40	6.42	17.68	-
10/02/08	1.1	-	2.2	-	-
09/30/09	5.2	1.9	6.0	12	-
09/28/10	<0.41	0.61	nd	0.70	-
09/20/11	<0.41	0.83	nd	8.31	-

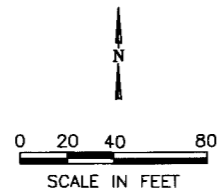
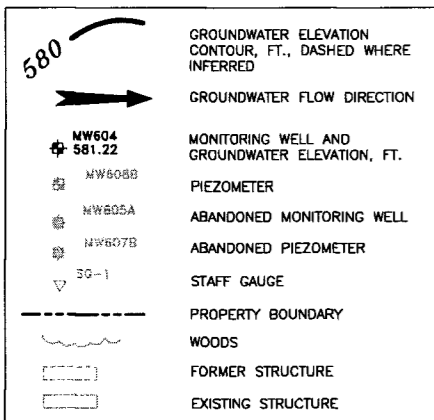
MW606/606R	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/94	61	170	248	332	0.62
01/11/95	660	2,300	1,890	2,988	0.033
06/24/02	30	78	104	314	0.081
07/02/03	28	71	119	268	0.0171
10/16/03	38	3.3	99	152	0.0186
08/03/04	19	260	82	1,294	-
10/04/05	1.5	2.6	2	7.20	-
09/22/06	90	<1.2	311	123	-
10/16/07	3.3	1,400	83	5,997	-
10/02/08	103	46	170	381	-
09/30/09	7.0	314	85	1,593	-
09/28/10	8.6	7.8	9.7	42.23	-
09/20/11	30.2	1.10	45.00	26.02	-

MW602	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/94	nd	nd	nd	nd	nd
01/11/95	nd	nd	nd	nd	nd
06/24/02	<0.48	<0.027	nd	nd	<0.0084
07/02/03	<0.30	0.038	nd	0.06	<0.001
10/16/03	<0.30	<0.024	nd	0.03	0.00068
08/03/04	<0.14	<0.022	nd	nd	-
10/04/05	<0.14	0.056	nd	0.09	-
09/22/06	<0.14	0.023	nd	0.07	-
10/17/07	<0.14	<0.012	nd	0.078	-
10/02/08	0.23	<0.016	0.2	0.3	-
10/02/08	0.25	0.025	0.3	0.5	-
09/30/09	0.76	1.2	0.76	4.4	-
09/28/10	<0.41	0.12	nd	23.01	-
09/20/11	<0.41	0.02	nd	0.13	-

MW601R01R	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/94	nd	nd	nd	nd	nd
01/11/95	nd	nd	nd	nd	nd
06/24/02	<0.48	<0.027	nd	nd	<0.0084
07/02/03	<0.30	0.038	nd	0.2	<0.001
08/03/04	0.15	0.14	0.15	1.1	-
10/04/05	<0.14	<0.047	nd	0.03	-
09/22/06	<0.14	0.021	nd	0.07	-
10/16/07	<0.14	0.35	nd	2.1	-
10/02/08	0.53	0.35	0.5	1.4	-
09/30/09	<0.23	0.073	nd	0.56	-
09/28/10	<0.41	0.033	nd	0.38	-
09/20/11	<0.41	0.20	nd	0.17	-

MW603A	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/94	710	500	2,547	592	0.47
01/11/95	340	230	1,060	341	0.64
06/24/02	1100	360	2,863	598	0.11
07/02/03	500	280	1,166	453	0.0539
10/16/03	530	120	1,519	231	0.015
08/03/04	840	200	2,156	303	-
10/04/05	290	11	652	39	-
09/22/06	500	0.02	1,499	0.3	-
10/17/07	270	47	660	116	-
10/02/08	197	<2	249	61	-
09/30/09	258	70	516	116	-
09/28/10	348	35.5	692.3	40.41	-
09/20/11	103	<0.48	115.1	41.78	-

MW604	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/94	200	1,300	697	1,793	0.22
01/11/95	240	1,200	692	1,610	0.05
06/24/02	91	<14	243	411	<0.0084
07/02/03	140	150	361	657	0.0048
10/16/03	140	12	377	526	0.00231
08/03/04	77	17	267	350	-
10/04/05	120	84	352	235	-
09/22/06	7.6	0.52	10	15	-
10/16/07	44	0.11	129	65	-
10/02/08	91	<4.1	190	169	-
09/30/09	91	1.6	318	204	-
09/28/10	128	107	376.1	443.80	-
09/20/11	242	14.70	403.80	303.66	-



SOURCE NOTES:  
 THIS DRAWING WAS DEVELOPED FROM A SURVEY BY CAROW LAND SURVEYING CO., INC., PROJECT NO. C034-29, DATED 5-27-03. NORTH IS REFERENCED TO THE NORTH LINE OF THE FRACTIONAL NORTHWEST 1/4 OF SECTION 1, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF TWO RIVERS, MANITOWOC COUNTY, WISCONSIN WHICH BEARS N89°59'51"E PER THE MANITOWOC COUNTY COORDINATE SYSTEM.  
 REPLACEMENT WELLS SURVEYED BY WPCS JUNE 2004.



PROJECT NO. 1569/10.0	<b>WATER TABLE CONTOURS SEPTEMBER 2011</b>	
DRAWN BY: NWD 01/10/12	GROUNDWATER QUALITY UPDATE TRANSMITTAL FORMER TWO RIVERS MANUFACTURED GAS PLANT SITE WISCONSIN PUBLIC SERVICE CORPORATION CITY OF TWO RIVERS, WISCONSIN	
CHECKED BY: HMS 01/11/12	APPROVED BY: JMK 02/08/12	DRAWING NO: 1569-10-B03.DWG REFERENCE: P:\1500\1569\CAD\1569CA0201\Update111230
		FIGURE NO. 3

SAMPLE LOCATION	BEN	NAPH	BTEX	PAHs	CYN WAD
SAMPLE DATE	BENZENE µg/L	NAPHTHALENE µg/L	TOTAL BTEX µg/L	POLYNUCLEAR AROMATIC HYDROCARBONS µg/L	CYANIDE - WEAK ACID DISSOCIABLE mg/L
USEPA MCLs or NR 140 Wisconsin Groundwater Quality Standards					
	5	100	na	na	0.2

Notes:  
 <2.0 : Parameter not detected above the Limit of Detection indicated.  
 - : Analysis was not performed  
 nd : Analyte not detected  
 ns : No NR 140 standards established for these parameters  
 Refer to analytical tables for laboratory flags and qualifiers.

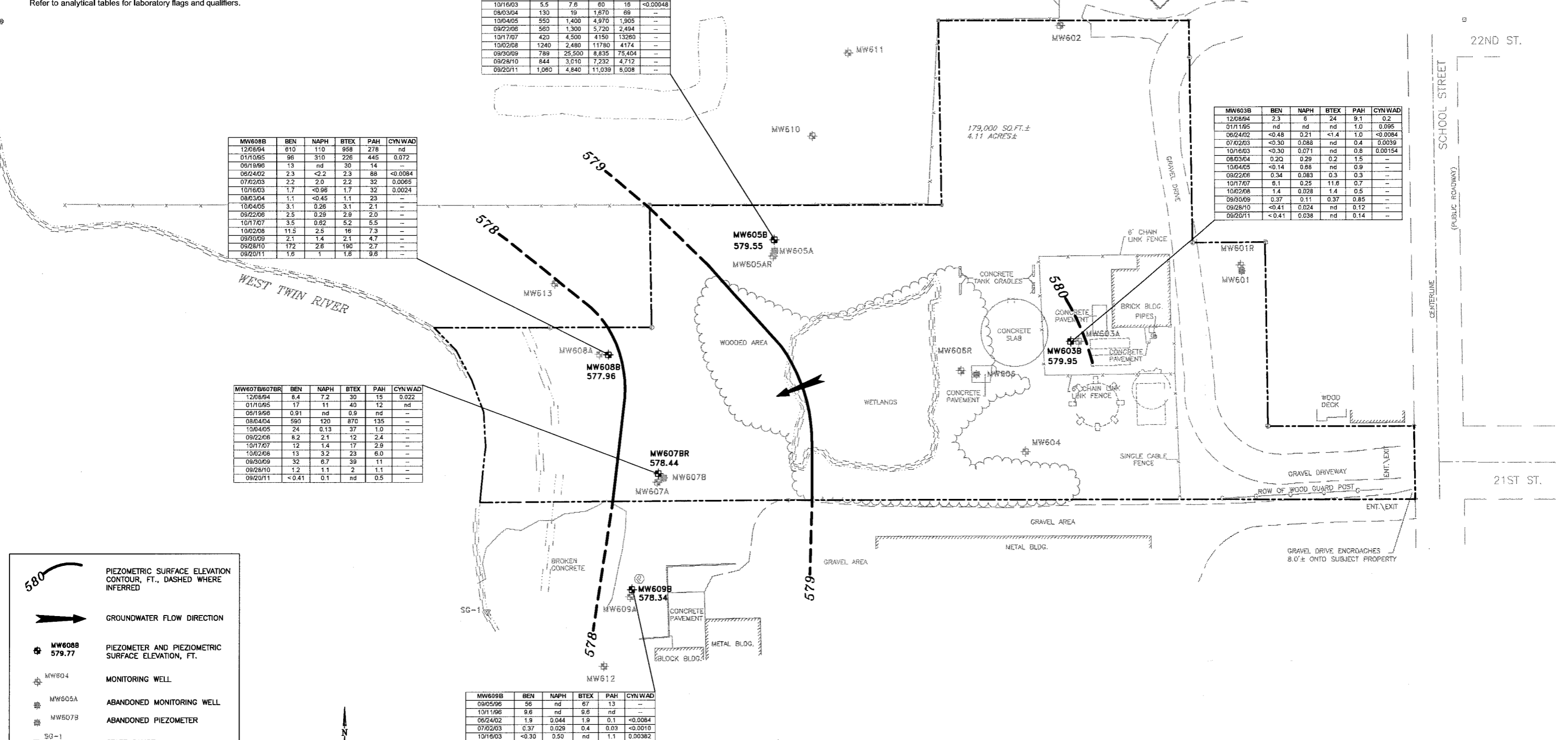
MW605B	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/04	29	1,300	877	2,175	0.007
01/10/05	4.1	nd	94	0.5	nd
06/24/02	0.49	2.8	3.8	29	<0.0084
07/02/03	0.87	<0.24	5.2	7.9	<0.001
10/16/03	5.5	7.6	80	18	<0.00048
08/03/04	130	19	1,870	69	--
10/04/05	550	1,400	4,970	1,905	--
09/22/06	560	1,300	5,720	2,494	--
10/17/07	420	4,500	4,150	13,260	--
10/02/08	1240	2,480	11,760	4,174	--
09/30/09	789	25,500	8,835	75,404	--
09/28/10	844	3,010	7,232	4,712	--
09/20/11	1,060	4,840	11,039	6,008	--

MW608B	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/04	810	110	958	278	nd
01/10/05	98	310	226	445	0.072
06/19/06	13	nd	30	14	--
06/24/02	2.3	<2.2	2.3	88	<0.0084
07/02/03	2.2	2.0	2.2	32	0.0065
10/16/03	1.7	<0.96	1.7	32	0.0024
08/03/04	1.1	<0.45	1.1	23	--
10/04/05	3.1	0.28	3.1	2.1	--
09/22/06	2.5	0.29	2.9	2.0	--
10/17/07	3.5	0.62	5.2	5.5	--
10/02/08	11.5	2.5	16	7.3	--
09/30/09	2.1	1.4	2.1	4.7	--
09/28/10	172	2.6	190	2.7	--
09/20/11	1.8	1	1.8	9.6	--

MW607B/607BR	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/04	8.4	7.2	30	15	0.022
01/10/05	17	11	40	12	nd
06/19/06	0.91	nd	0.9	nd	--
08/04/04	590	120	870	135	--
10/04/05	24	0.13	37	1.0	--
09/22/06	8.2	2.1	12	2.4	--
10/17/07	12	1.4	17	2.8	--
10/02/08	13	3.2	23	6.0	--
09/30/09	32	6.7	39	11	--
09/28/10	1.2	1.1	2	1.1	--
09/20/11	<0.41	0.1	nd	0.5	--

MW609B	BEN	NAPH	BTEX	PAH	CYN WAD
09/05/06	56	nd	67	13	--
10/1/06	9.6	nd	9.6	nd	--
06/24/02	1.9	0.044	1.9	0.1	<0.0084
07/02/03	0.37	0.029	0.4	0.03	<0.0010
10/16/03	<0.30	0.50	nd	1.1	0.00382
08/04/04	<0.14	0.034	nd	0.03	--
10/04/05	<0.14	<0.047	nd	nd	--
09/22/06	<0.14	0.017	nd	0.02	--
10/17/07	12	2.4	23.9	5.5	--
10/02/08	0.3	0.24	0.3	0.7	--
09/30/09	5.9	1.3	6.8	2.6	--
09/28/10	<0.41	0.1	nd	0.2	--
09/20/11	<0.41	0.12	nd	0.29	--

MW603B	BEN	NAPH	BTEX	PAH	CYN WAD
12/08/04	2.3	6	24	9.1	0.2
01/11/05	nd	nd	nd	1.0	0.095
06/24/02	<0.48	0.21	<1.4	1.0	<0.0084
07/02/03	<0.30	0.088	nd	0.4	0.0039
10/16/03	<0.30	0.071	nd	0.8	0.00154
08/03/04	0.20	0.29	0.2	1.5	--
10/04/05	<0.14	0.68	nd	0.9	--
09/22/06	0.34	0.083	0.3	0.3	--
10/17/07	8.1	0.25	11.8	0.7	--
10/02/08	1.4	0.028	1.4	0.5	--
09/30/09	0.37	0.11	0.37	0.85	--
09/28/10	<0.41	0.024	nd	0.12	--
09/20/11	<0.41	0.038	nd	0.14	--



580 ———— PIEZOMETRIC SURFACE ELEVATION CONTOUR, FT., DASHED WHERE INFERRED

→ GROUNDWATER FLOW DIRECTION

⊕ MW608B 579.77 ———— PIEZOMETER AND PIEZOMETRIC SURFACE ELEVATION, FT.

⊕ MW604 ———— MONITORING WELL

⊕ MW605A ———— ABANDONED MONITORING WELL

⊕ MW607B ———— ABANDONED PIEZOMETER

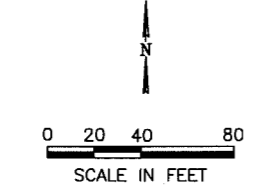
▽ SG-1 ———— STAFF GAUGE

————— PROPERTY BOUNDARY

~~~~~ WOODS

▭ FORMER STRUCTURE

▭ EXISTING STRUCTURE



SOURCE NOTES:  
 THIS DRAWING WAS DEVELOPED FROM A SURVEY BY CAROW LAND SURVEYING CO., INC., PROJECT NO. C034.29, DATED 5-27-03.  
 NORTH IS REFERENCED TO THE NORTH LINE OF THE FRACTIONAL NORTHWEST 1/4 OF SECTION 1, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF TWO RIVERS, MANITOWOC COUNTY, WISCONSIN WHICH BEARS N89°58'51"E PER THE MANITOWOC COUNTY COORDINATE SYSTEM.  
 REPLACEMENT WELLS SURVEYED BY WPSC JUNE 2004.



|                              |  |
|------------------------------|--|
| PROJECT NO.<br>1569/10.0     | PIEZOMETRIC SURFACE CONTOURS SEPTEMBER 2011  |
| DRAWN BY:<br>NWD 01/10/12    | GROUNDWATER QUALITY UPDATE TRANSMITTAL<br>FORMER TWO RIVERS MANUFACTURED GAS PLANT SITE<br>WISCONSIN PUBLIC SERVICE CORPORATION<br>CITY OF TWO RIVERS, WISCONSIN |
| CHECKED BY:<br>HMS 01/11/12  |  |
| APPROVED BY:<br>JMK 02/08/12 | DRAWING NO: 1569-10-804.DWG<br>REFERENCE: P:\1500\1569\CAD\1569CAD2011Update111230   |
|                              | FIGURE NO.<br>4  |



## TABLES



**Table 1. Groundwater Analytical Results - Petroleum Volatile Organic Compounds (PVOCs, µg/L)**

2011 Groundwater Quality Update

Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site

21st and School Streets, Two Rivers, Wisconsin

BRRTS# : 0236000255

USEPA# : WIN000509953

| Sample Location    | Duplicate Sample | Sample Date | Benzene (ug/l) | Ethylbenzene (ug/l) | Toluene (ug/l) | Xylene, o (ug/l) | Xylenes, m + p (ug/l) | 1,2,4-Trimethylbenzene (ug/l) | 1,3,5-Trimethylbenzene (ug/l) | Methyl-tert-butyl-ether (ug/l) |
|--------------------|------------------|-------------|----------------|---------------------|----------------|------------------|-----------------------|-------------------------------|-------------------------------|--------------------------------|
| WI Screening Level |                  |             | 5              | 700                 | 800            | 1200             | 1200                  | 15                            | 370                           | 60                             |
| MW601R             |                  | 10/04/05    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/16/07    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | 0.53           | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | < 0.23         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/28/10    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
|                    |                  | 09/20/11    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | --                             |
| MW602              |                  | 10/04/05    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/17/07    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | 0.23           | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | 0.76           | < 0.4               | < 0.36         | < 0.36           | < 0.74                | 0.41                          | < 0.4                         | < 0.36                         |
|                    |                  | 09/28/10    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
| MW603A             |                  | 09/20/11    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | --                             |
|                    |                  | 10/04/05    | <b>290</b>     | 220                 | 6.5            | 98               | 37                    | <b>41</b>                     | 0.67                          | < 0.36                         |
|                    |                  | 09/22/06    | <b>500</b>     | 600                 | 19             | 240              | 140                   | <b>160</b>                    | 43                            | < 1.8                          |
|                    |                  | 10/17/07    | <b>270</b>     | 260                 | 8.3            | 100              | 22                    | <b>29</b>                     | 3.4                           | < 0.36                         |
|                    |                  | 10/02/08    | <b>197</b>     | 45.3                | 1.2            | 2.8              | 2.2                   | 1.1                           | 0.4                           | < 0.36                         |
|                    |                  | 09/30/09    | <b>258</b>     | 239                 | < 3.6          | 18.8             | < 7.4                 | 4.4                           | < 4                           | < 3.6                          |
|                    |                  | 09/28/10    | <b>348</b>     | 295                 | 4.7            | 44.6             | < 9                   | 10.3                          | 4.6                           | < 3                            |
| MW603B             |                  | 09/20/11    | <b>103</b>     | 9.6                 | 1.1            | 1.4              | < 1.8                 | < 0.97                        | < 0.83                        | --                             |
|                    |                  | 10/04/05    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | 0.34           | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/17/07    | <b>6.1</b>     | 3.6                 | 0.4            | 1.5              | < 0.74                | 0.42                          | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | 1.4            | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | 0.37           | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/28/10    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
| MW604              |                  | 09/20/11    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | --                             |
|                    |                  | 10/04/05    | <b>120</b>     | 86                  | 15             | 82               | 49                    | <b>37</b>                     | 9.5                           | < 0.36                         |
|                    |                  | 09/22/06    | <b>7.6</b>     | 0.6                 | < 0.36         | 1.8              | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/16/07    | <b>44</b>      | 22                  | 4              | 39               | 20                    | <b>16</b>                     | 4.3                           | < 0.36                         |
|                    |                  | 10/02/08    | <b>90.9</b>    | 38.7                | 5.3            | 36               | 18.8                  | <b>19.1</b>                   | 3.8                           | < 0.36                         |
|                    |                  | 09/30/09    | <b>91.3</b>    | 84.6                | 10.8           | 79.4             | 52.3                  | <b>45.6</b>                   | 13.5                          | < 0.36                         |
|                    |                  | 09/28/10    | <b>128</b>     | 99.8                | 9.1            | 90.4             | 48.8                  | <b>48.3</b>                   | 11.5                          | < 0.61                         |
|                    | 09/20/11         | <b>242</b>  | 87.1           | 3.9                 | 50.7           | 20.1             | <b>18</b>             | 3.4                           | --                            |                                |



**Table 1. Groundwater Analytical Results - Petroleum Volatile Organic Compounds (PVOCs, µg/L)**

2011 Groundwater Quality Update

Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site

21st and School Streets, Two Rivers, Wisconsin

BRRTS# : 0236000255

USEPA# : WIN000509953

| Sample Location    | Duplicate Sample | Sample Date | Benzene (ug/l) | Ethylbenzene (ug/l) | Toluene (ug/l) | Xylene, o (ug/l) | Xylenes, m + p (ug/l) | 1,2,4-Trimethylbenzene (ug/l) | 1,3,5-Trimethylbenzene (ug/l) | Methyl-tert-butyl-ether (ug/l) |
|--------------------|------------------|-------------|----------------|---------------------|----------------|------------------|-----------------------|-------------------------------|-------------------------------|--------------------------------|
| WI Screening Level |                  |             | 5              | 700                 | 800            | 1200             | 1200                  | 15                            | 370                           | 60                             |
| MW605AR            |                  | 10/04/05    | <b>7600</b>    | <b>4200</b>         | <b>8400</b>    | <b>1300</b>      | <b>2300</b>           | <b>660</b>                    | 140                           | < 45                           |
|                    |                  | 09/22/06    | <b>1500</b>    | 92                  | 390            | 33               | 44                    | <b>17</b>                     | 4.1                           | < 3.6                          |
|                    |                  | 10/17/07    | --             | --                  | --             | --               | --                    | --                            | --                            | --                             |
|                    |                  | 10/02/08    | <b>6880</b>    | 133                 | <b>1410</b>    | 48.8             | 81.7                  | <b>22.3</b>                   | < 19.8                        | < 18                           |
|                    |                  | 09/30/09    | <b>6460</b>    | 615                 | <b>3390</b>    | 199              | 349                   | <b>73.9</b>                   | 23.3                          | < 18                           |
|                    |                  | 09/28/10    | <b>2790</b>    | 381                 | <b>1710</b>    | 136              | 227                   | <b>24.6</b>                   | < 16.6                        | < 12.2                         |
|                    |                  | 09/20/11    | <b>3730</b>    | 112                 | <b>1070</b>    | < 83             | < 180                 | < 97                          | < 83                          | --                             |
| MW605B             |                  | 10/04/05    | <b>550</b>     | <b>1100</b>         | <b>1700</b>    | 620              | 1000                  | <b>200</b>                    | 60                            | < 9                            |
|                    |                  | 09/22/06    | <b>560</b>     | <b>1500</b>         | <b>1900</b>    | 660              | 1100                  | <b>230</b>                    | 64                            | < 9                            |
|                    |                  | 10/17/07    | <b>420</b>     | <b>940</b>          | <b>1300</b>    | 570              | 920                   | <b>230</b>                    | 75                            | < 18                           |
|                    |                  | 10/02/08    | <b>1240</b>    | <b>2810</b>         | <b>3690</b>    | <b>1590</b>      | <b>2450</b>           | <b>543</b>                    | 201                           | < 18                           |
|                    |                  | 09/30/09    | <b>789</b>     | <b>2730</b>         | <b>2670</b>    | 936              | <b>1710</b>           | <b>416</b>                    | 110                           | < 36.1                         |
|                    |                  | 09/28/10    | <b>844</b>     | <b>1750</b>         | <b>2610</b>    | 708              | <b>1320</b>           | <b>222</b>                    | 73.4                          | < 30.5                         |
|                    |                  | 09/20/11    | <b>1060</b>    | <b>3160</b>         | <b>4050</b>    | 949              | <b>1820</b>           | <b>266</b>                    | 72.5                          | --                             |
| MW606R             |                  | 10/04/05    | 1.5            | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | <b>90</b>      | 85                  | 9.5            | 81               | 45                    | <b>53</b>                     | 12                            | < 0.36                         |
|                    |                  | 10/16/07    | 3.3            | 45                  | < 3.6          | 13               | 22                    | <b>49</b>                     | 13                            | < 3.6                          |
|                    |                  | 10/02/08    | <b>103</b>     | 36.6                | 12.6           | 8.5              | 9.6                   | 3.1                           | 0.93                          | < 0.36                         |
|                    |                  | 09/30/09    | <b>7</b>       | 30.9                | 0.89           | 8.4              | 18                    | <b>24.7</b>                   | 7.8                           | < 0.36                         |
|                    |                  | 09/28/10    | <b>8.6</b>     | 1.1                 | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
|                    |                  | 09/20/11    | <b>30.2</b>    | 9.7                 | 2.9            | 2.2              | < 1.8                 | < 0.97                        | < 0.83                        | --                             |
| MW607A             |                  | 10/04/05    | <b>360</b>     | 230                 | 5.7            | 53               | 10                    | <b>53</b>                     | 2.3                           | < 0.36                         |
|                    |                  | 09/22/06    | <b>1200</b>    | <b>1600</b>         | 27             | 320              | 96                    | <b>310</b>                    | 44                            | < 3.6                          |
|                    |                  | 10/17/07    | <b>620</b>     | <b>740</b>          | 14             | 150              | 42                    | <b>150</b>                    | 12                            | < 3.6                          |
|                    |                  | 10/02/08    | <b>843</b>     | <b>798</b>          | 20.5           | 227              | 111                   | <b>181</b>                    | 29.5                          | < 3.6                          |
|                    |                  | 09/30/09    | <b>922</b>     | <b>1440</b>         | 34.5           | 333              | 107                   | <b>268</b>                    | 46.8                          | < 1.8                          |
|                    |                  | 09/28/10    | <b>854</b>     | <b>1190</b>         | 32.3           | 319              | 186                   | <b>209</b>                    | 34.5                          | < 12.2                         |
|                    |                  | 09/20/11    | <b>1030</b>    | 667                 | 14.3           | 165              | 71.3                  | <b>124</b>                    | 23                            | --                             |

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BRRTS# : 0236000255

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| Sample Location    | Duplicate Sample | Sample Date | Benzene (ug/l) | Ethylbenzene (ug/l) | Toluene (ug/l) | Xylene, o (ug/l) | Xylenes, m + p (ug/l) | 1,2,4-Trimethylbenzene (ug/l) | 1,3,5-Trimethylbenzene (ug/l) | Methyl-tert-butyl-ether (ug/l) |
|--------------------|------------------|-------------|----------------|---------------------|----------------|------------------|-----------------------|-------------------------------|-------------------------------|--------------------------------|
| WI Screening Level |                  |             | 5              | 700                 | 800            | 1200             | 1200                  | 15                            | 370                           | 60                             |
| MW607BR            |                  | 10/04/05    | <b>24</b>      | 8.5                 | < 0.36         | 3.4              | 1.1                   | 1.2                           | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | <b>8.2</b>     | 3.1                 | < 0.36         | 0.63             | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/17/07    | <b>12</b>      | 3.5                 | < 0.36         | 0.94             | 0.78                  | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | <b>13</b>      | 7.4                 | < 0.36         | 1.8              | 1.1                   | 1.4                           | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | <b>32</b>      | 4                   | < 0.36         | 1                | 1.5                   | 0.47                          | < 0.4                         | < 0.36                         |
|                    |                  | 09/28/10    | 1.2            | 0.79                | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
|                    |                  | 09/20/11    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | --                             |
| MW608A             |                  | 10/04/05    | <b>6000</b>    | <b>840</b>          | 37             | 240              | 390                   | <b>47</b>                     | < 20                          | < 18                           |
|                    |                  | 09/22/06    | <b>3800</b>    | <b>980</b>          | 21             | 310              | 560                   | <b>88</b>                     | 18                            | < 9                            |
|                    |                  | 10/17/07    | <b>4100</b>    | <b>900</b>          | 31             | 270              | 370                   | <b>68</b>                     | 16                            | < 9                            |
|                    |                  | 10/02/08    | <b>2200</b>    | <b>941</b>          | 18.4           | 289              | 511                   | <b>95.8</b>                   | 26.2                          | < 7.2                          |
|                    |                  | 09/30/09    | <b>10800</b>   | <b>1020</b>         | 65.9           | 276              | 436                   | <b>59.4</b>                   | < 39.5                        | < 36.1                         |
|                    |                  | 09/28/10    | <b>10600</b>   | <b>1190</b>         | 96.7           | 376              | 535                   | <b>61.9</b>                   | < 41.5                        | < 30.5                         |
|                    |                  | 09/20/11    | <b>2780</b>    | 666                 | 23.1           | 180              | 269                   | <b>57.4</b>                   | < 20.8                        | --                             |
| MW608B             |                  | 10/04/05    | 3.1            | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | 2.5            | < 0.4               | 0.41           | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/17/07    | 3.5            | 0.62                | 0.64           | 0.44             | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | <b>11.5</b>    | 1.7                 | 0.99           | 0.77             | 1.1                   | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | 2.1            | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/28/10    | <b>172</b>     | 9.4                 | 1.3            | 3.4              | 3.9                   | < 0.97                        | < 0.83                        | < 0.61                         |
|                    |                  | 09/20/11    | 1.6            | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | --                             |
| MW609A             |                  | 10/04/05    | <b>23</b>      | 110                 | 2.6            | 34               | 7.2                   | 4.3                           | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | <b>20</b>      | 190                 | 2.9            | 51               | 11                    | 13                            | < 0.4                         | < 0.36                         |
|                    |                  | 10/17/07    | <b>48</b>      | 80                  | 1.4            | 21               | 4.1                   | 6.9                           | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | <b>43.9</b>    | 54                  | 1.5            | 15.7             | 3.7                   | 6.6                           | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | <b>52.6</b>    | 43.1                | 1.2            | 16.8             | 3.4                   | 7.6                           | < 0.4                         | < 0.36                         |
|                    |                  | 09/28/10    | <b>101</b>     | 38.8                | 1.2            | 18.5             | 2.8                   | 9                             | < 0.83                        | 0.66                           |
|                    |                  | 09/20/11    | <b>84.3</b>    | 1                   | 0.81           | 11.9             | < 1.8                 | 5.3                           | < 0.83                        | --                             |
| MW609B             |                  | 10/04/05    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/17/07    | <b>12</b>      | 10                  | < 0.36         | 1.9              | < 0.74                | 1.8                           | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | 0.3            | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | <b>5.9</b>     | 0.92                | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/28/10    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
|                    |                  | 09/20/11    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | --                             |

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21st and School Streets, Two Rivers, Wisconsin

BRRTS# : 0236000255

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| Sample Location    | Duplicate Sample | Sample Date | Benzene (ug/l)             | Ethylbenzene (ug/l) | Toluene (ug/l) | Xylene, o (ug/l) | Xylenes, m + p (ug/l) | 1,2,4-Trimethylbenzene (ug/l) | 1,3,5-Trimethylbenzene (ug/l) | Methyl-tert-butyl-ether (ug/l) |
|--------------------|------------------|-------------|----------------------------|---------------------|----------------|------------------|-----------------------|-------------------------------|-------------------------------|--------------------------------|
| WI Screening Level |                  |             | 5                          | 700                 | 800            | 1200             | 1200                  | 15                            | 370                           | 60                             |
| MW610              |                  | 10/04/05    | < 0.14                     | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | < 0.14                     | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/17/07    | < 0.14                     | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | 0.54                       | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | 1.2                        | 0.9                 | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/28/10    | < 0.41                     | < 0.54              | 0.77           | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
|                    |                  | 09/20/11    | not sampled - well damaged |                     |                |                  |                       |                               |                               |                                |
| MW611              |                  | 10/04/05    | < 0.14                     | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | < 0.14                     | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/17/07    | < 0.14                     | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | 0.61                       | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | 2                          | 2.5                 | 7              | 0.76             | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/28/10    | < 0.41                     | < 0.54              | 4.7            | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
|                    |                  | 09/20/11    | not sampled - well damaged |                     |                |                  |                       |                               |                               |                                |
| MW612              |                  | 10/04/05    | 1.2                        | 0.47                | < 0.36         | < 0.36           | 0.87                  | 0.57                          | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | 4.8                        | < 0.4               | 0.36           | < 0.36           | 0.95                  | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/17/07    | 4.1                        | 1.8                 | < 0.36         | 0.52             | < 0.74                | 0.4                           | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | 1.1                        | 0.67                | 0.41           | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | 5.2                        | 0.78                | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/28/10    | < 0.41                     | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
|                    |                  | 09/20/11    | < 0.41                     | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | --                             |
| MW613              |                  | 10/04/05    | < 0.14                     | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | < 0.14                     | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/17/07    | 1.8                        | 0.66                | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | 0.81                       | < 0.4               | 1.1            | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | 0.87                       | 0.45                | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/28/10    | 22.1                       | 1.7                 | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
|                    |                  | 09/20/11    | < 0.41                     | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | --                             |

**Table 1. Groundwater Analytical Results - Petroleum Volatile Organic Compounds (PVOCs, µg/L)**

**2011 Groundwater Quality Update**

**Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site**

**21st and School Streets, Two Rivers, Wisconsin**

**BRRTS# : 0236000255**

**USEPA# : WIN000509953**

| Sample Location    | Duplicate Sample | Sample Date | Benzene (ug/l) | Ethylbenzene (ug/l) | Toluene (ug/l) | Xylene, o (ug/l) | Xylenes, m + p (ug/l) | 1,2,4-Trimethylbenzene (ug/l) | 1,3,5-Trimethylbenzene (ug/l) | Methyl-tert-butyl-ether (ug/l) |
|--------------------|------------------|-------------|----------------|---------------------|----------------|------------------|-----------------------|-------------------------------|-------------------------------|--------------------------------|
| WI Screening Level |                  |             | 5              | 700                 | 800            | 1200             | 1200                  | 15                            | 370                           | 60                             |
| QC01               | MW601R           | 09/20/11    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | --                             |
|                    | MW602            | 10/17/07    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    | MW602            | 09/30/09    | 0.56           | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    | MW602            | 09/28/10    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
|                    | MW604            | 10/04/05    | <b>120</b>     | 88                  | 14             | 89               | 56                    | <b>42</b>                     | 11                            | < 1.4                          |
|                    | MW604            | 09/22/06    | <b>7.7</b>     | 0.7                 | < 0.36         | 1.8              | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    | MW604            | 10/02/08    | <b>101</b>     | 43.5                | 5.5            | 39.2             | 20.8                  | <b>21.9</b>                   | 4.2                           | < 0.36                         |
| QC02               | MW602            | 10/02/08    | 0.25           | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    | MW602            | 09/20/11    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | --                             |
|                    | MW603B           | 09/22/06    | 0.25           | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    | MW603B           | 09/30/09    | 0.36           | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    | MW605AR          | 10/04/05    | <b>7600</b>    | <b>3800</b>         | <b>7600</b>    | <b>1200</b>      | <b>2200</b>           | <b>680</b>                    | 160                           | < 45                           |
|                    | MW608B           | 09/28/10    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | < 0.61                         |
|                    | MW612            | 10/17/07    | 4.2            | 1.8                 | < 0.36         | 0.51             | < 0.74                | 0.48                          | < 0.4                         | < 0.36                         |
| TB                 |                  | 10/04/05    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/22/06    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/17/07    | < 0.14         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 10/02/08    | < 0.23         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/30/09    | < 0.23         | < 0.4               | < 0.36         | < 0.36           | < 0.74                | < 0.39                        | < 0.4                         | < 0.36                         |
|                    |                  | 09/20/11    | < 0.41         | < 0.54              | < 0.67         | < 0.83           | < 1.8                 | < 0.97                        | < 0.83                        | --                             |

Notes:

- 1) Parameters that attain or exceed the WI Action Limit are identified in bold.
- 2) The hierarchy for the WI Screening Level is MCL, WI NR 140, RSL.
- 3) Reference the laboratory analytical report for full list of compounds analyzed.

<2.0: Parameter not detected above the Limit of Detection indicated.

--: Analysis not performed.

QC: Quality Control duplicate sample.

TB: Trip Blank for QA/QC



**Table 2. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbon (PAHs) µg/L**

2011 Groundwater Quality Update

Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site

21st and School Streets, Two Rivers, Wisconsin

BRRTS# : 0236000255

USEPA# : WIN000509953

| Sample Location    | Duplicate Sample | Sample Date | 1-Methylnaphthalene (ug/l) | 2-Methylnaphthalene (ug/l) | Acenaphthene (ug/l) | Acenaphthylene (ug/l) | Anthracene (ug/l) | Benzo(a)anthracene (ug/l) | Benzo(a)pyrene (ug/l) | Benzo(b)fluoranthene (ug/l) | Benzo(ghi)perylene (ug/l) | Benzo(k)fluoranthene (ug/l) | Chrysene (ug/l) | Dibenz(a,h)anthracene (ug/l) | Fluoranthene (ug/l) | Fluorene (ug/l) | Indeno(1,2,3-cd)pyrene (ug/l) | Naphthalene (PAH) (ug/l) | Phenanthrene (ug/l) | Pyrene (ug/l) |
|--------------------|------------------|-------------|----------------------------|----------------------------|---------------------|-----------------------|-------------------|---------------------------|-----------------------|-----------------------------|---------------------------|-----------------------------|-----------------|------------------------------|---------------------|-----------------|-------------------------------|--------------------------|---------------------|---------------|
| WI Screening Level |                  |             | 2.3                        | 150                        | 2200                | 2200                  | 3000              | 0.029                     | 0.2                   | 0.2                         | 1100                      | 0.29                        | 0.2             | 0.0029                       | 400                 | 400             | 0.029                         | 100                      | 11000               | 250           |
| MW601R             |                  | 10/04/05    | < 0.01                     | 0.017                      | < 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                       | < 0.047                  | < 0.011             | 0.016         |
|                    |                  | 09/22/06    | < 0.01                     | 0.016                      | 0.0088              | < 0.0081              | < 0.012           | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | < 0.015             | 0.0093          | < 0.019                       | 0.021                    | < 0.011             | 0.017         |
|                    |                  | 10/16/07    | 0.33                       | 0.066                      | 0.21                | 0.046                 | 0.1               | <b>0.055</b>              | 0.056                 | 0.026                       | 0.031                     | 0.034                       | 0.057           | < 0.019                      | 0.11                | 0.11            | 0.021                         | 0.35                     | 0.31                | 0.17          |
|                    |                  | 10/02/08    | 0.52                       | < 0.022                    | 0.2                 | 0.016                 | 0.032             | < 0.007                   | < 0.011               | < 0.01                      | < 0.013                   | < 0.016                     | < 0.014         | < 0.0087                     | 0.14                | 0.1             | < 0.0073                      | 0.35                     | 0.11                | 0.018         |
|                    |                  | 09/30/09    | 0.019                      | 0.011                      | 0.0087              | 0.03                  | 0.015             | <b>0.033</b>              | 0.07                  | 0.037                       | 0.045                     | 0.035                       | 0.04            | <b>0.0095</b>                | 0.024               | 0.007           | <b>0.032</b>                  | 0.073                    | 0.0096              | 0.057         |
|                    |                  | 09/28/10    | 0.012                      | 0.016                      | 0.0053              | 0.022                 | 0.021             | 0.021                     | 0.037                 | 0.022                       | 0.029                     | 0.025                       | 0.026           | <b>0.0061</b>                | 0.024               | < 0.0051        | 0.02                          | 0.033                    | 0.018               | 0.038         |
|                    |                  | 09/20/11    | 0.0072                     | 0.0095                     | 0.0061              | 0.01                  | 0.0094            | 0.0076                    | 0.015                 | 0.011                       | 0.013                     | 0.013                       | 0.019           | < 0.0032                     | 0.015               | < 0.0048        | 0.0087                        | 0.021                    | 0.0097              | 0.022         |
| MW602              |                  | 10/04/05    | < 0.01                     | 0.022                      | < 0.0082            | < 0.0081              | 0.014             | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | < 0.015             | < 0.0091        | < 0.019                       | 0.056                    | < 0.011             | < 0.015       |
|                    |                  | 09/22/06    | < 0.01                     | 0.017                      | 0.0099              | < 0.0081              | 0.012             | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | < 0.015             | < 0.0091        | < 0.019                       | 0.023                    | 0.012               | < 0.015       |
|                    |                  | 10/17/07    | 0.013                      | < 0.011                    | 0.017               | < 0.0081              | 0.016             | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | < 0.015             | 0.011           | < 0.019                       | < 0.012                  | 0.021               | < 0.015       |
|                    |                  | 10/02/08    | 0.1                        | 0.011                      | 0.069               | 0.0087                | 0.024             | < 0.0035                  | < 0.0054              | < 0.0051                    | < 0.0062                  | < 0.0078                    | < 0.007         | < 0.0043                     | 0.0089              | 0.049           | < 0.0036                      | < 0.016                  | 0.067               | 0.0083        |
|                    |                  | 09/30/09    | 0.57                       | 0.41                       | 0.48                | 0.071                 | 0.2               | <b>0.065</b>              | 0.067                 | 0.032                       | 0.03                      | 0.031                       | 0.057           | < 0.0064                     | 0.12                | 0.29            | 0.025                         | 1.2                      | 0.56                | 0.18          |
|                    |                  | 09/28/10    | 0.091                      | 0.093                      | 0.27                | 1.4                   | 1.8               | <b>2.1</b>                | <b>2.2</b>            | <b>0.96</b>                 | 1.1                       | <b>1.2</b>                  | <b>2</b>        | <b>0.2</b>                   | 2.6                 | 0.23            | <b>0.75</b>                   | 0.12                     | 2.3                 | 3.8           |
|                    |                  | 09/20/11    | 0.0064                     | 0.018                      | 0.0054              | < 0.0036              | 0.019             | 0.013                     | 0.0048                | 0.0042                      | < 0.0048                  | 0.007                       | 0.012           | < 0.0032                     | 0.018               | < 0.0048        | < 0.0047                      | 0.023                    | 0.016               | 0.024         |
| MW603A             |                  | 10/04/05    | <b>16</b>                  | < 0.45                     | 6.1                 | 0.76                  | 0.47              | < 0.62                    | < 0.73                | < 0.63                      | < 0.77                    | < 0.77                      | < 0.76          | < 0.75                       | < 0.62              | 2.4             | < 0.75                        | 11                       | 1.8                 | < 0.58        |
|                    |                  | 09/22/06    | 0.011                      | < 0.011                    | 0.011               | 0.019                 | 0.017             | 0.022                     | 0.023                 | 0.026                       | 0.031                     | 0.024                       | 0.021           | < 0.019                      | 0.029               | < 0.0092        | 0.026                         | 0.016                    | 0.022               | 0.041         |
|                    |                  | 10/17/07    | <b>40</b>                  | 0.52                       | 14                  | 1.6                   | 1.5               | < 0.31                    | < 0.37                | < 0.31                      | < 0.39                    | < 0.39                      | < 0.38          | < 0.38                       | 0.63                | 5.4             | < 0.38                        | 47                       | 4.7                 | 0.96          |
|                    |                  | 10/02/08    | <b>37.1</b>                | < 1.3                      | 11.8                | 1                     | 1.2               | < 0.43                    | < 0.67                | < 0.64                      | < 0.78                    | < 0.97                      | < 0.87          | < 0.54                       | < 0.67              | 4.9             | < 0.45                        | < 2                      | 5.2                 | < 0.85        |
|                    |                  | 09/30/09    | <b>22.6</b>                | < 0.39                     | 10.2                | 1.3                   | 1.5               | < 0.36                    | < 0.29                | < 0.34                      | < 0.48                    | < 0.44                      | < 0.35          | < 0.32                       | 0.48                | 4.6             | < 0.47                        | 69.8                     | 4.5                 | 0.91          |
|                    |                  | 09/28/10    | <b>18.9</b>                | 0.076                      | 7.5                 | 0.6                   | 0.76              | <b>0.051</b>              | 0.031                 | 0.025                       | 0.017                     | 0.015                       | 0.061           | <b>0.006</b>                 | 0.38                | 2.7             | 0.014                         | 35.5                     | 2.1                 | 0.57          |
|                    |                  | 09/20/11    | <b>20.8</b>                | < 0.39                     | 9.4                 | 0.62                  | 1.3               | < 0.36                    | < 0.29                | < 0.34                      | < 0.48                    | < 0.44                      | < 0.35          | < 0.32                       | < 0.44              | 4.5             | < 0.47                        | < 0.48                   | 4.5                 | 0.66          |
| MW603B             |                  | 10/04/05    | 0.072                      | 0.066                      | 0.026               | 0.036                 | < 0.023           | < 0.031                   | < 0.037               | < 0.031                     | < 0.039                   | < 0.039                     | < 0.038         | < 0.038                      | < 0.031             | < 0.018         | < 0.038                       | 0.68                     | < 0.023             | < 0.029       |
|                    |                  | 09/22/06    | 0.078                      | 0.02                       | 0.04                | < 0.0081              | 0.015             | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | < 0.015             | 0.026           | < 0.019                       | 0.083                    | 0.055               | < 0.015       |
|                    |                  | 10/17/07    | 0.2                        | 0.013                      | 0.078               | 0.016                 | 0.016             | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | 0.019               | 0.034           | < 0.019                       | 0.25                     | 0.049               | 0.028         |
|                    |                  | 10/02/08    | 0.22                       | < 0.011                    | 0.08                | 0.009                 | 0.016             | < 0.0035                  | < 0.0054              | < 0.0051                    | < 0.0062                  | < 0.0078                    | < 0.007         | < 0.0043                     | 0.0061              | 0.042           | < 0.0036                      | 0.028                    | 0.049               | 0.0072        |
|                    |                  | 09/30/09    | 0.049                      | 0.031                      | 0.051               | 0.01                  | 0.027             | <b>0.053</b>              | 0.048                 | 0.05                        | 0.025                     | 0.025                       | 0.049           | <b>0.0072</b>                | 0.083               | 0.037           | 0.022                         | 0.11                     | 0.088               | 0.083         |
|                    |                  | 09/28/10    | 0.0067                     | 0.0069                     | 0.0067              | 0.0053                | 0.0061            | 0.0054                    | 0.0048                | 0.0036                      | < 0.0051                  | < 0.0046                    | 0.0073          | < 0.0034                     | 0.0094              | 0.0071          | < 0.005                       | 0.024                    | 0.013               | 0.016         |
|                    |                  | 09/20/11    | 0.015                      | 0.0085                     | 0.013               | 0.0069                | < 0.0057          | < 0.0036                  | 0.003                 | < 0.0034                    | < 0.0048                  | < 0.0044                    | 0.0062          | < 0.0032                     | 0.011               | < 0.0048        | < 0.0047                      | 0.038                    | 0.015               | 0.019         |



**Table 2. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbon (PAHs) µg/L**

2011 Groundwater Quality Update

Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site

21st and School Streets, Two Rivers, Wisconsin

BRRS# : 0236000255

USEPA# : WIN000509953

| Sample Location    | Duplicate Sample | Sample Date | 1-Methylnaphthalene (ug/l) | 2-Methylnaphthalene (ug/l) | Acenaphthene (ug/l) | Acenaphthylene (ug/l) | Anthracene (ug/l) | Benzo(a)anthracene (ug/l) | Benzo(a)pyrene (ug/l) | Benzo(b)fluoranthene (ug/l) | Benzo(ghi)perylene (ug/l) | Benzo(k)fluoranthene (ug/l) | Chrysene (ug/l) | Dibenz(a,h)anthracene (ug/l) | Fluoranthene (ug/l) | Fluorene (ug/l) | Indeno(1,2,3-cd)pyrene (ug/l) | Naphthalene (PAH) (ug/l) | Phenanthrene (ug/l) | Pyrene (ug/l) |
|--------------------|------------------|-------------|----------------------------|----------------------------|---------------------|-----------------------|-------------------|---------------------------|-----------------------|-----------------------------|---------------------------|-----------------------------|-----------------|------------------------------|---------------------|-----------------|-------------------------------|--------------------------|---------------------|---------------|
| WI Screening Level |                  |             | 2.3                        | 150                        | 2200                | 2200                  | 3000              | 0.029                     | 0.2                   | 0.2                         | 1100                      | 0.29                        | 0.2             | 0.0029                       | 400                 | 400             | 0.029                         | 100                      | 11000               | 250           |
| MW604              |                  | 10/04/05    | 78                         | 3.4                        | 31                  | 2                     | 4                 | < 3.1                     | < 3.7                 | < 3.1                       | < 3.9                     | < 3.9                       | < 3.8           | < 3.8                        | < 3.1               | 15              | < 3.8                         | 84                       | 15                  | 3             |
|                    |                  | 09/22/06    | 2.6                        | < 0.11                     | 2.1                 | 2.4                   | 0.77              | 0.44                      | 0.25                  | < 0.16                      | < 0.19                    | < 0.19                      | 0.39            | < 0.19                       | 1.6                 | 0.47            | < 0.19                        | 0.52                     | 1.2                 | 2.1           |
|                    |                  | 10/16/07    | 19                         | 0.042                      | 19                  | 1                     | 3.2               | 0.072                     | 0.1                   | 0.05                        | 0.078                     | 0.049                       | 0.083           | < 0.019                      | 1.5                 | 10              | 0.05                          | 0.11                     | 8.5                 | 1.7           |
|                    |                  | 10/02/08    | 63.7                       | < 2.7                      | 33.7                | 1.8                   | 10.8              | < 0.87                    | < 1.3                 | < 1.3                       | < 1.6                     | < 1.9                       | < 1.7           | < 1.1                        | 3.7                 | 20.2            | < 0.9                         | < 4.1                    | 31.5                | 3.5           |
|                    |                  | 09/30/09    | 90.7                       | 2.9                        | 44                  | 2.2                   | 7.3               | 0.34                      | 0.37                  | 0.15                        | 0.2                       | 0.21                        | 0.32            | < 0.064                      | 2.5                 | 23.8            | 0.13                          | 1.6                      | 24                  | 3.3           |
|                    |                  | 09/28/10    | 152                        | 4                          | 72.8                | 2.8                   | 13.6              | < 0.38                    | < 0.3                 | < 0.36                      | < 0.51                    | < 0.46                      | < 0.37          | < 0.34                       | 3.2                 | 38.3            | < 0.5                         | 107                      | 46.6                | 3.5           |
|                    |                  | 09/20/11    | 149                        | 0.48                       | 73.7                | 2.7                   | 6.4               | 0.097                     | 0.079                 | < 0.068                     | < 0.096                   | < 0.087                     | 0.2             | < 0.064                      | 1.9                 | 34.2            | < 0.094                       | 14.7                     | 18.2                | 2             |
| MW605AR            |                  | 10/04/05    | 220000                     | 290000                     | 44000               | 140000                | 71000             | 45000                     | 33000                 | 16000                       | 15000                     | 16000                       | 36000           | 3900                         | 76000               | 78000           | 12000                         | 610000                   | 250000              | 110000        |
|                    |                  | 09/22/06    | 26                         | 17                         | 8.5                 | 20                    | 6.5               | 2.2                       | 1.8                   | < 1.3                       | < 1.5                     | < 1.5                       | 2.1             | < 1.5                        | 6.2                 | 8.6             | < 1.5                         | 15                       | 10                  | 8.1           |
|                    |                  | 10/17/07    | --                         | --                         | --                  | --                    | --                | --                        | --                    | --                          | --                        | --                          | --              | --                           | --                  | --              | --                            | --                       | --                  | --            |
|                    |                  | 10/02/08    | 71.4                       | 61.7                       | 19.1                | 35.3                  | 11.5              | 6.3                       | 8.5                   | 3.6                         | 4.3                       | 5                           | 8.2             | < 0.86                       | 13.4                | 13.1            | 2.6                           | 16.5                     | 30.5                | 16.6          |
|                    |                  | 09/30/09    | 2850                       | 4070                       | 854                 | 2380                  | 1280              | 554                       | 446                   | 217                         | 229                       | 276                         | 679             | 46.9                         | 1120                | 1320            | 175                           | 9180                     | 3600                | 1810          |
|                    |                  | 09/28/10    | 25.7                       | 19.8                       | 14.2                | 3.7                   | 4.5               | 0.43                      | 0.45                  | 0.19                        | 0.23                      | 0.3                         | 0.55            | < 0.068                      | 1.8                 | 8.7             | 0.15                          | 18.2                     | 14.1                | 2.4           |
|                    |                  | 09/20/11    | 24.9                       | 22.9                       | 18.7                | 7.9                   | 11                | 4.3                       | 4.6                   | 2.4                         | 2.7                       | 2.8                         | 4.7             | 0.36                         | 7.8                 | 15.3            | 1.9                           | 81.9                     | 28.2                | 12.4          |
| MW605B             |                  | 10/04/05    | 200                        | 190                        | 38                  | 60                    | < 2.3             | < 3.1                     | < 3.7                 | < 3.1                       | < 3.9                     | < 3.9                       | < 3.8           | < 3.8                        | < 3.1               | 11              | < 3.8                         | 1400                     | 5.8                 | < 2.9         |
|                    |                  | 09/22/06    | 420                        | 450                        | 150                 | 69                    | < 47              | < 63                      | < 74                  | < 63                        | < 78                      | < 78                        | < 77            | < 76                         | < 63                | 40              | < 76                          | 1300                     | 65                  | < 59          |
|                    |                  | 10/17/07    | 1400                       | 2000                       | 730                 | 520                   | 680               | 190                       | 160                   | 74                          | 75                        | 82                          | 190             | 15                           | 410                 | 410             | 54                            | 4500                     | 1200                | 570           |
|                    |                  | 10/02/08    | 499                        | 593                        | 224                 | 68.9                  | 42.6              | < 6.9                     | < 10.8                | < 10.3                      | < 12.5                    | < 15.6                      | 19.1            | < 8.6                        | 30.8                | 64.7            | < 7.2                         | 2480                     | 119                 | 32.5          |
|                    |                  | 09/30/09    | 7270                       | 9560                       | 4160                | 3100                  | 3180              | 1210                      | 979                   | 566                         | 525                       | 478                         | 1420            | 129                          | 2410                | 2830            | 367                           | 25500                    | 7750                | 3970          |
|                    |                  | 09/28/10    | 409                        | 530                        | 302                 | 79                    | 216               | < 38.4                    | < 30.3                | < 36                        | < 51                      | < 46.3                      | 72              | < 33.9                       | 84                  | 104             | < 49.6                        | 3010                     | 294                 | 142           |
|                    |                  | 09/20/11    | 667                        | 798                        | 402                 | 112                   | 155               | < 45.3                    | < 35.7                | < 42.5                      | < 60.1                    | < 54.6                      | 133             | < 40                         | 128                 | 116             | < 58.5                        | 4840                     | 465                 | 192           |
| MW606R             |                  | 10/04/05    | 1.1                        | 0.63                       | 1.6                 | 2.9                   | 4.5               | 4.6                       | 3.9                   | 2                           | 2                         | 2.4                         | 4.6             | < 0.94                       | 11                  | 1.3             | 1.3                           | 2.6                      | 7.7                 | 16            |
|                    |                  | 09/22/06    | 35                         | < 1.1                      | 31                  | 1.6                   | 6.1               | < 1.6                     | < 1.8                 | < 1.6                       | < 1.9                     | < 1.9                       | < 1.9           | < 1.9                        | 2.2                 | 18              | < 1.9                         | < 1.2                    | 27                  | 2.4           |
|                    |                  | 10/16/07    | 670                        | 850                        | 520                 | 85                    | 370               | 90                        | 100                   | 41                          | 47                        | 61                          | 120             | 9.1                          | 250                 | 240             | 34                            | 1400                     | 780                 | 330           |
|                    |                  | 10/02/08    | 19                         | 2.7                        | 16.2                | 23.2                  | 17.5              | 25.1                      | 31.2                  | 14                          | 14.2                      | 18.4                        | 25.9            | 2.4                          | 35.3                | 6               | 9.8                           | 45.7                     | 30.6                | 44.1          |
|                    |                  | 09/30/09    | 78.4                       | 82                         | 74.4                | 43.1                  | 93.7              | 82.9                      | 73.8                  | 34.6                        | 29.4                      | 30.8                        | 62.3            | 5.6                          | 116                 | 51              | 21.5                          | 314                      | 198                 | 201           |
|                    |                  | 09/28/10    | 5.1                        | 2.7                        | 6.1                 | 2.3                   | 3.1               | 0.44                      | 0.24                  | 0.14                        | 0.11                      | 0.14                        | 0.46            | < 0.068                      | 2                   | 2.9             | < 0.099                       | 7.8                      | 6.1                 | 2.6           |
|                    |                  | 09/20/11    | 3.5                        | 0.03                       | 5.2                 | 2.3                   | 1.8               | 0.47                      | 0.12                  | 0.059                       | 0.04                      | 0.084                       | 0.38            | 0.0088                       | 2.1                 | 2.3             | 0.029                         | 1.1                      | 3.6                 | 2.9           |
| MW607A             |                  | 10/04/05    | 51                         | < 2.2                      | 29                  | 2.2                   | < 2.3             | < 3.1                     | < 3.7                 | < 3.1                       | < 3.9                     | < 3.9                       | < 3.8           | < 3.8                        | < 3.1               | < 1.8           | < 3.8                         | 18                       | < 2.3               | < 2.9         |
|                    |                  | 09/22/06    | 310                        | < 22                       | 160                 | < 16                  | < 23              | < 31                      | < 37                  | < 31                        | < 39                      | < 39                        | < 38            | < 38                         | < 31                | < 18            | < 38                          | 670                      | < 23                | < 29          |
|                    |                  | 10/17/07    | 200                        | 2                          | 100                 | 6.6                   | < 0.23            | < 0.31                    | < 0.37                | < 0.31                      | < 0.39                    | < 0.39                      | < 0.38          | < 0.38                       | < 0.31              | 0.93            | < 0.38                        | 360                      | 0.36                | < 0.29        |
|                    |                  | 10/02/08    | 197                        | < 10.9                     | 109                 | < 5.1                 | < 6.6             | < 3.5                     | < 5.5                 | < 5.2                       | < 6.4                     | < 7.9                       | < 7.1           | < 4.4                        | < 5.4               | < 6.4           | < 3.7                         | 585                      | < 7.6               | < 6.9         |
|                    |                  | 09/30/09    | 188                        | 6.5                        | 139                 | 7.6                   | < 0.11            | < 0.072                   | < 0.057               | < 0.068                     | < 0.096                   | < 0.087                     | < 0.07          | < 0.064                      | < 0.088             | 1.5             | < 0.094                       | 460                      | 0.2                 | < 0.095       |
|                    |                  | 09/28/10    | 164                        | 13.3                       | 126                 | 5.8                   | < 0.13            | < 0.079                   | < 0.062               | < 0.074                     | < 0.11                    | < 0.095                     | < 0.076         | < 0.07                       | < 0.096             | 2.1             | < 0.1                         | 763                      | < 0.18              | < 0.1         |
|                    |                  | 09/20/11    | 117                        | 14.5                       | 83                  | 3.3                   | < 0.11            | < 0.072                   | < 0.057               | < 0.068                     | < 0.096                   | < 0.087                     | < 0.07          | < 0.064                      | < 0.088             | 2.3             | < 0.094                       | 507                      | < 0.16              | < 0.095       |

Table 2. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbon (PAHs) µg/L

2011 Groundwater Quality Update

Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site

21st and School Streets, Two Rivers, Wisconsin

BRRTS# : 0236000255

USEPA# : WIN000509953

| Sample Location    | Duplicate Sample | Sample Date | 1-Methylnaphthalene (ug/l) | 2-Methylnaphthalene (ug/l) | Acenaphthene (ug/l) | Acenaphthylene (ug/l) | Anthracene (ug/l) | Benzo(a)anthracene (ug/l) | Benzo(a)pyrene (ug/l) | Benzo(b)fluoranthene (ug/l) | Benzo(ghi)perylene (ug/l) | Benzo(k)fluoranthene (ug/l) | Chrysene (ug/l) | Dibenz(a,h)anthracene (ug/l) | Fluoranthene (ug/l) | Fluorene (ug/l) | Indeno(1,2,3-cd)pyrene (ug/l) | Naphthalene (PAH) (ug/l) | Phenanthrene (ug/l) | Pyrene (ug/l) |    |
|--------------------|------------------|-------------|----------------------------|----------------------------|---------------------|-----------------------|-------------------|---------------------------|-----------------------|-----------------------------|---------------------------|-----------------------------|-----------------|------------------------------|---------------------|-----------------|-------------------------------|--------------------------|---------------------|---------------|----|
| WI Screening Level |                  |             | 2.3                        | 150                        | 2200                | 2200                  | 3000              | 0.029                     | 0.2                   | 0.2                         | 1100                      | 0.29                        | 0.2             | 0.0029                       | 400                 | 400             | 0.029                         | 100                      | 11000               | 250           |    |
| MW607BR            |                  | 10/04/05    | 0.31                       | 0.054                      | 0.4                 | 0.021                 | < 0.012           | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | < 0.015             | 0.032           | < 0.019                       | 0.13                     | 0.028               | < 0.015       |    |
|                    |                  | 09/22/06    | 0.14                       | 0.074                      | 0.13                | < 0.041               | < 0.058           | < 0.078                   | < 0.092               | < 0.078                     | < 0.096                   | < 0.097                     | < 0.095         | < 0.094                      | < 0.077             | < 0.045         | < 0.094                       | 2.1                      | < 0.057             | < 0.073       |    |
|                    |                  | 10/17/07    | 0.27                       | 0.4                        | 0.06                | 0.1                   | 0.031             | <b>0.062</b>              | 0.08                  | 0.04                        | 0.045                     | 0.046                       | 0.072           | < 0.019                      | 0.059               | 0.018           | <b>0.03</b>                   | 1.4                      | 0.045               | 0.11          |    |
|                    |                  | 10/02/08    | 1.5                        | 0.14                       | 0.97                | 0.055                 | < 0.065           | < 0.035                   | < 0.054               | < 0.051                     | < 0.062                   | < 0.078                     | < 0.07          | < 0.043                      | < 0.053             | < 0.063         | < 0.036                       | 3.2                      | 0.1                 | < 0.068       |    |
|                    |                  | 09/30/09    | 1.2                        | 1.3                        | 0.68                | 0.15                  | 0.12              | <b>0.058</b>              | 0.045                 | 0.023                       | 0.021                     | 0.022                       | 0.047           | <b>0.0049</b>                | 0.12                | 0.27            | 0.015                         | 6.7                      | 0.4                 | 0.17          |    |
|                    |                  | 09/28/10    | 0.23                       | 0.023                      | 0.17                | 0.012                 | < 0.0061          | < 0.0038                  | < 0.003               | < 0.0036                    | < 0.0051                  | < 0.0046                    | < 0.0037        | < 0.0034                     | < 0.0047            | < 0.0051        | < 0.005                       | 1.1                      | < 0.0086            | < 0.005       |    |
|                    |                  | 09/20/11    | 0.055                      | < 0.0039                   | 0.27                | 0.018                 | 0.0072            | < 0.0036                  | < 0.0029              | < 0.0034                    | < 0.0048                  | < 0.0044                    | 0.0055          | < 0.0032                     | 0.0097              | 0.015           | < 0.0047                      | 0.088                    | 0.012               | 0.013         |    |
| MW608A             |                  | 10/04/05    | <b>120</b>                 | 87                         | 140                 | 20                    | 81                | <b>44</b>                 | <b>42</b>             | <b>20</b>                   | 19                        | <b>21</b>                   | <b>39</b>       | <b>4</b>                     | 87                  | 85              | <b>14</b>                     | <b>420</b>               | 250                 | 130           |    |
|                    |                  | 09/22/06    | <b>42</b>                  | 32                         | 46                  | < 3.2                 | 14                | < 6.2                     | < 7.3                 | < 6.3                       | < 7.7                     | < 7.7                       | < 7.6           | < 7.5                        | 7.8                 | 28              | < 7.5                         | 100                      | 79                  | 10            |    |
|                    |                  | 10/17/07    | <b>110</b>                 | 78                         | 98                  | 4                     | 34                | <b>2.7</b>                | <b>2.5</b>            | <b>1</b>                    | 1.1                       | <b>1.5</b>                  | <b>2.8</b>      | < 0.38                       | 12                  | 34              | <b>0.73</b>                   | <b>580</b>               | 66                  | 17            |    |
|                    |                  | 10/02/08    | --                         | --                         | --                  | --                    | --                | --                        | --                    | --                          | --                        | --                          | --              | --                           | --                  | --              | --                            | --                       | --                  | --            | -- |
|                    |                  | 09/30/09    | <b>94.2</b>                | 87.7                       | 86.4                | 3.5                   | 15.3              | <b>1.8</b>                | <b>1.4</b>            | <b>1</b>                    | 0.77                      | <b>0.73</b>                 | <b>2</b>        | < 0.32                       | 7.2                 | 39.7            | <b>0.48</b>                   | <b>864</b>               | 59.6                | 12.3          |    |
|                    |                  | 09/28/10    | <b>130</b>                 | 113                        | 123                 | 3.3                   | 13.9              | <b>1.3</b>                | <b>1.1</b>            | <b>0.46</b>                 | 0.49                      | <b>0.68</b>                 | <b>1.5</b>      | < 0.071                      | 7.6                 | 35              | <b>0.32</b>                   | <b>966</b>               | 50.4                | 11            |    |
|                    | 09/20/11         | <b>80.8</b> | 67.9                       | 83                         | < 7.2               | 41.1                  | < 7.2             | < 5.7                     | < 6.8                 | < 9.6                       | < 8.7                     | < 7                         | < 6.4           | 10.5                         | 40.6                | < 9.4           | <b>978</b>                    | 76.4                     | 14.8                |               |    |
| MW608B             |                  | 10/04/05    | 0.35                       | < 0.056                    | 1                   | 0.046                 | < 0.058           | < 0.078                   | < 0.092               | < 0.078                     | < 0.096                   | < 0.097                     | < 0.095         | < 0.094                      | < 0.077             | 0.28            | < 0.094                       | 0.26                     | 0.19                | < 0.073       |    |
|                    |                  | 09/22/06    | 0.33                       | 0.044                      | 0.61                | 0.056                 | 0.043             | < 0.031                   | < 0.037               | < 0.031                     | < 0.039                   | < 0.039                     | < 0.038         | < 0.038                      | 0.05                | 0.23            | < 0.038                       | 0.29                     | 0.25                | 0.07          |    |
|                    |                  | 10/17/07    | 0.64                       | 0.1                        | 1.3                 | 0.14                  | 0.2               | <b>0.14</b>               | 0.14                  | < 0.078                     | < 0.096                   | 0.097                       | 0.15            | < 0.094                      | 0.27                | 0.5             | < 0.094                       | 0.62                     | 0.74                | 0.42          |    |
|                    |                  | 10/02/08    | 0.88                       | 0.41                       | 1.4                 | 0.12                  | 0.38              | < 0.035                   | < 0.054               | < 0.051                     | < 0.062                   | < 0.078                     | < 0.07          | < 0.043                      | 0.11                | 0.59            | < 0.036                       | 2.5                      | 0.82                | 0.12          |    |
|                    |                  | 09/30/09    | 0.41                       | 0.3                        | 0.94                | 0.11                  | 0.11              | <b>0.071</b>              | 0.086                 | 0.043                       | 0.047                     | 0.034                       | 0.058           | <b>0.0089</b>                | 0.12                | 0.37            | <b>0.032</b>                  | 1.4                      | 0.35                | 0.19          |    |
|                    |                  | 09/28/10    | 0.54                       | 0.23                       | 1.6                 | 0.076                 | 0.51              | <b>0.068</b>              | 0.055                 | 0.021                       | 0.026                     | 0.035                       | 0.068           | <b>0.0038</b>                | 0.38                | 0.77            | 0.017                         | 2.6                      | 1.3                 | 0.56          |    |
|                    |                  | 09/20/11    | 0.61                       | 0.072                      | 1.7                 | 0.089                 | 0.81              | <b>0.046</b>              | 0.054                 | 0.028                       | 0.041                     | 0.036                       | 0.063           | <b>0.0067</b>                | 0.45                | 0.89            | 0.028                         | 1                        | 2.8                 | 0.83          |    |
| MW609A             |                  | 10/04/05    | 0.4                        | < 0.11                     | < 0.082             | < 0.081               | < 0.12            | < 0.16                    | < 0.18                | < 0.16                      | < 0.19                    | < 0.19                      | < 0.19          | < 0.19                       | < 0.15              | < 0.091         | < 0.19                        | 3.1                      | < 0.11              | < 0.15        |    |
|                    |                  | 09/22/06    | 1.2                        | < 0.22                     | 0.39                | < 0.16                | < 0.23            | < 0.31                    | < 0.37                | < 0.31                      | < 0.39                    | < 0.39                      | < 0.38          | < 0.38                       | < 0.31              | < 0.18          | < 0.38                        | 5.5                      | < 0.23              | < 0.29        |    |
|                    |                  | 10/17/07    | 0.77                       | < 0.22                     | 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                        | 4.2                      | < 0.23              | < 0.29        |    |
|                    |                  | 10/02/08    | 0.58                       | < 0.22                     | < 0.16              | < 0.1                 | < 0.13            | < 0.071                   | < 0.11                | < 0.1                       | < 0.13                    | < 0.16                      | < 0.14          | < 0.088                      | < 0.11              | < 0.13          | < 0.074                       | 4.4                      | 0.18                | < 0.14        |    |
|                    |                  | 09/30/09    | 0.71                       | 0.13                       | 0.4                 | < 0.072               | < 0.11            | < 0.072                   | < 0.057               | < 0.068                     | < 0.096                   | < 0.087                     | < 0.07          | < 0.064                      | < 0.088             | < 0.095         | < 0.094                       | 4.9                      | < 0.16              | < 0.095       |    |
|                    |                  | 09/28/10    | 0.62                       | 0.047                      | 0.22                | 0.018                 | 0.0065            | 0.0047                    | 0.004                 | 0.004                       | < 0.0051                  | 0.0047                      | 0.0042          | < 0.0034                     | 0.0081              | 0.0094          | < 0.005                       | 5.2                      | 0.01                | 0.0075        |    |
|                    |                  | 09/20/11    | 0.42                       | 0.026                      | 0.033               | 0.049                 | 0.036             | <b>0.053</b>              | 0.049                 | 0.03                        | 0.031                     | 0.031                       | 0.058           | <b>0.0042</b>                | 0.11                | 0.027           | 0.02                          | 4.1                      | 0.12                | 0.16          |    |
| MW609B             |                  | 10/04/05    | < 0.01                     | < 0.047                    | < 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                       | < 0.047                  | < 0.011             | < 0.015       |    |
|                    |                  | 09/22/06    | < 0.01                     | < 0.011                    | < 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                       | < 0.012                  | 0.017               | < 0.015       |    |
|                    |                  | 10/17/07    | 1.6                        | 0.071                      | 1                   | 0.061                 | 0.031             | < 0.016                   | < 0.019               | < 0.016                     | < 0.02                    | < 0.02                      | < 0.02          | < 0.019                      | 0.039               | 0.065           | < 0.019                       | 2.4                      | 0.15                | 0.056         |    |
|                    |                  | 10/02/08    | 0.063                      | 0.069                      | 0.068               | 0.0087                | 0.031             | < 0.0035                  | < 0.0055              | < 0.0052                    | < 0.0064                  | < 0.0079                    | < 0.0071        | < 0.0044                     | 0.015               | 0.051           | < 0.0037                      | 0.24                     | 0.13                | 0.017         |    |
|                    |                  | 09/30/09    | 0.41                       | 0.24                       | 0.32                | 0.051                 | 0.033             | 0.0063                    | 0.0058                | < 0.0034                    | < 0.0048                  | < 0.0044                    | 0.0058          | < 0.0032                     | 0.02                | 0.068           | < 0.0047                      | 1.3                      | 0.12                | 0.028         |    |
|                    |                  | 09/28/10    | 0.017                      | 0.012                      | 0.011               | 0.005                 | < 0.0061          | 0.0056                    | 0.0049                | 0.0043                      | < 0.0051                  | 0.0056                      | 0.0064          | < 0.0034                     | 0.0082              | < 0.0051        | < 0.005                       | 0.1                      | 0.011               | 0.01          |    |
|                    |                  | 09/20/11    | 0.029                      | 0.008                      | 0.019               | 0.0068                | 0.01              | 0.0064                    | 0.0065                | 0.0047                      | 0.0057                    | 0.0069                      | 0.011           | < 0.0032                     | 0.014               | 0.0059          | < 0.0047                      | 0.12                     | 0.022               | 0.017         |    |



**Table 2. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbon (PAHs) µg/L**

2011 Groundwater Quality Update

Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site

21st and School Streets, Two Rivers, Wisconsin

BRRTS# : 0236000255

USEPA# : WIN000509953

| Sample Location    | Duplicate Sample | Sample Date | 1-Methylnaphthalene (ug/l) | 2-Methylnaphthalene (ug/l) | Acenaphthene (ug/l) | Acenaphthylene (ug/l) | Anthracene (ug/l) | Benzo(a)anthracene (ug/l) | Benzo(a)pyrene (ug/l) | Benzo(b)fluoranthene (ug/l) | Benzo(ghi)perylene (ug/l) | Benzo(k)fluoranthene (ug/l) | Chrysene (ug/l) | Dibenz(a,h)anthracene (ug/l) | Fluoranthene (ug/l) | Fluorene (ug/l) | Indeno(1,2,3-cd)pyrene (ug/l) | Naphthalene (PAH) (ug/l) | Phenanthrene (ug/l) | Pyrene (ug/l) |
|--------------------|------------------|-------------|----------------------------|----------------------------|---------------------|-----------------------|-------------------|---------------------------|-----------------------|-----------------------------|---------------------------|-----------------------------|-----------------|------------------------------|---------------------|-----------------|-------------------------------|--------------------------|---------------------|---------------|
| WI Screening Level |                  |             | 2.3                        | 150                        | 2200                | 2200                  | 3000              | 0.029                     | 0.2                   | 0.2                         | 1100                      | 0.29                        | 0.2             | 0.0029                       | 400                 | 400             | 0.029                         | 100                      | 11000               | 250           |
| MW610              |                  | 10/04/05    | 0.015                      | < 0.047                    | < 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                       | 0.075                    | < 0.011             | < 0.015       |
|                    |                  | 09/22/06    | 0.057                      | 0.015                      | 0.034               | 0.0088                | 0.012             | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | < 0.015             | 0.026           | < 0.019                       | 0.057                    | 0.046               | < 0.015       |
|                    |                  | 10/17/07    | < 0.01                     | < 0.011                    | < 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                       | < 0.012                  | < 0.011             | < 0.015       |
|                    |                  | 10/02/08    | 0.13                       | < 0.022                    | 0.078               | 0.017                 | 0.014             | < 0.0071                  | < 0.011               | < 0.01                      | < 0.013                   | < 0.016                     | < 0.014         | < 0.0088                     | < 0.011             | 0.015           | < 0.0074                      | 0.3                      | 0.027               | < 0.014       |
|                    |                  | 09/30/09    | 0.11                       | 0.14                       | 0.062               | 0.04                  | 0.041             | 0.017                     | 0.029                 | 0.02                        | 0.018                     | 0.014                       | 0.017           | 0.007                        | 0.025               | 0.043           | 0.015                         | 0.25                     | 0.083               | 0.035         |
|                    |                  | 09/28/10    | 0.017                      | 0.013                      | 0.0098              | 0.011                 | 0.017             | < 0.0038                  | 0.0035                | < 0.0036                    | < 0.0051                  | < 0.0046                    | < 0.0037        | < 0.0034                     | < 0.0047            | < 0.0051        | < 0.005                       | 0.13                     | < 0.0086            | < 0.005       |
|                    |                  | 09/20/11    | not sampled - well damaged |                            |                     |                       |                   |                           |                       |                             |                           |                             |                 |                              |                     |                 |                               |                          |                     |               |
| MW611              |                  | 10/04/05    | 1.2                        | 1.5                        | 0.17                | 0.44                  | 0.032             | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | < 0.015             | 0.13            | < 0.019                       | 4.1                      | 0.13                | < 0.015       |
|                    |                  | 09/22/06    | 0.18                       | 0.19                       | 0.074               | 0.026                 | < 0.023           | < 0.031                   | < 0.037               | < 0.031                     | < 0.039                   | < 0.039                     | < 0.038         | < 0.038                      | < 0.031             | 0.029           | < 0.038                       | 0.57                     | 0.038               | < 0.029       |
|                    |                  | 10/17/07    | 0.016                      | < 0.011                    | 0.012               | < 0.0081              | < 0.012           | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | < 0.015             | < 0.0091        | < 0.019                       | 0.038                    | 0.012               | < 0.015       |
|                    |                  | 10/02/08    | 0.082                      | < 0.011                    | 0.034               | < 0.005               | 0.0082            | < 0.0035                  | < 0.0055              | < 0.0052                    | < 0.0063                  | < 0.0078                    | < 0.0071        | < 0.0043                     | < 0.0054            | 0.02            | < 0.0036                      | 0.029                    | 0.033               | < 0.0068      |
|                    |                  | 09/30/09    | 0.17                       | 0.029                      | 0.1                 | 0.014                 | 0.041             | 0.0089                    | 0.0098                | 0.004                       | 0.0057                    | 0.0056                      | 0.0085          | < 0.0032                     | 0.023               | 0.059           | < 0.0047                      | 0.32                     | 0.11                | 0.035         |
|                    |                  | 09/28/10    | 0.014                      | 0.016                      | 0.0049              | < 0.0038              | 0.0075            | < 0.0038                  | < 0.003               | < 0.0036                    | < 0.0051                  | < 0.0046                    | < 0.0037        | < 0.0034                     | < 0.0047            | < 0.0051        | < 0.005                       | 0.12                     | < 0.0086            | < 0.005       |
|                    |                  | 09/20/11    | not sampled - well damaged |                            |                     |                       |                   |                           |                       |                             |                           |                             |                 |                              |                     |                 |                               |                          |                     |               |
| MW612              |                  | 10/04/05    | 1.8                        | < 0.94                     | 1.8                 | 0.52                  | 0.52              | < 0.31                    | < 0.37                | < 0.31                      | < 0.39                    | < 0.39                      | < 0.38          | < 0.38                       | < 0.31              | 1.8             | < 0.38                        | 1.1                      | 5.5                 | < 0.29        |
|                    |                  | 09/22/06    | 5.5                        | < 0.22                     | 2.2                 | 0.56                  | 0.63              | < 0.31                    | < 0.37                | < 0.31                      | < 0.39                    | < 0.39                      | < 0.38          | < 0.38                       | < 0.31              | 2.8             | < 0.38                        | 0.65                     | 6.8                 | 0.3           |
|                    |                  | 10/17/07    | 2.2                        | < 0.22                     | 2.5                 | 0.65                  | 0.83              | < 0.31                    | < 0.37                | < 0.31                      | < 0.39                    | < 0.39                      | < 0.38          | < 0.38                       | 0.49                | 2.9             | < 0.38                        | 1.4                      | 6.2                 | 0.51          |
|                    |                  | 10/02/08    | --                         | --                         | --                  | --                    | --                | --                        | --                    | --                          | --                        | --                          | --              | --                           | --                  | --              | --                            | --                       | --                  | --            |
|                    |                  | 09/30/09    | 1                          | 0.5                        | 2.3                 | 0.26                  | 0.5               | < 0.072                   | < 0.057               | < 0.068                     | < 0.096                   | < 0.087                     | < 0.07          | < 0.064                      | 0.17                | 2.8             | < 0.094                       | 1.9                      | 2.4                 | 0.18          |
|                    |                  | 09/28/10    | 0.88                       | 0.033                      | 0.93                | 0.19                  | 0.3               | 0.012                     | 0.0075                | 0.0077                      | 0.0063                    | 0.0068                      | 0.013           | < 0.0032                     | 0.11                | 1.3             | < 0.0047                      | 0.61                     | 1.3                 | 0.11          |
|                    |                  | 09/20/11    | 0.33                       | < 0.0039                   | 1.7                 | 0.27                  | 0.37              | 0.0078                    | < 0.0029              | < 0.0034                    | < 0.0048                  | < 0.0044                    | 0.0095          | < 0.0032                     | 0.16                | 1.9             | < 0.0047                      | 0.83                     | 2.6                 | 0.13          |
| MW613              |                  | 10/04/05    | 0.47                       | 0.68                       | 0.054               | 0.17                  | 0.013             | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | < 0.015             | 0.046           | < 0.019                       | 2.3                      | 0.048               | < 0.015       |
|                    |                  | 09/22/06    | 0.01                       | < 0.011                    | < 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                       | 0.24                     | < 0.011             | < 0.015       |
|                    |                  | 10/17/07    | 0.18                       | 0.15                       | 0.072               | 0.035                 | < 0.025           | < 0.033                   | < 0.039               | < 0.033                     | < 0.041                   | < 0.041                     | < 0.04          | < 0.04                       | < 0.033             | 0.027           | < 0.04                        | 0.41                     | 0.057               | 0.034         |
|                    |                  | 10/02/08    | 0.78                       | 0.93                       | 0.47                | 0.12                  | < 0.065           | < 0.035                   | < 0.054               | < 0.051                     | < 0.062                   | < 0.078                     | < 0.07          | < 0.043                      | < 0.053             | 0.16            | < 0.036                       | 2.2                      | 0.2                 | < 0.068       |
|                    |                  | 09/30/09    | 0.08                       | 0.062                      | 0.049               | 0.015                 | 0.016             | 0.01                      | 0.0094                | 0.0078                      | 0.0071                    | 0.0066                      | 0.011           | < 0.0032                     | 0.016               | 0.029           | 0.0048                        | 0.26                     | 0.056               | 0.025         |
|                    |                  | 09/28/10    | 0.62                       | 0.35                       | 0.66                | < 0.033               | 0.11              | < 0.033                   | < 0.026               | < 0.031                     | < 0.044                   | < 0.04                      | < 0.032         | < 0.029                      | < 0.041             | 0.15            | < 0.043                       | 2.3                      | 0.28                | < 0.044       |
|                    |                  | 09/20/11    | 0.01                       | 0.0097                     | 0.046               | 0.083                 | 0.11              | 0.18                      | 0.18                  | 0.078                       | 0.099                     | 0.11                        | 0.18            | 0.016                        | 0.37                | 0.035           | 0.069                         | 0.024                    | 0.32                | 0.5           |

**Table 2. Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbon (PAHs) µg/L**

2011 Groundwater Quality Update

Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site

21st and School Streets, Two Rivers, Wisconsin

BRRTS# : 0236000255

USEPA# : WIN000509953

| Sample Location    | Duplicate Sample | Sample Date | 1-Methylnaphthalene (ug/l) | 2-Methylnaphthalene (ug/l) | Acenaphthene (ug/l) | Acenaphthylene (ug/l) | Anthracene (ug/l) | Benzo(a)anthracene (ug/l) | Benzo(a)pyrene (ug/l) | Benzo(b)fluoranthene (ug/l) | Benzo(ghi)perylene (ug/l) | Benzo(k)fluoranthene (ug/l) | Chrysene (ug/l) | Dibenz(a,h)anthracene (ug/l) | Fluoranthene (ug/l) | Fluorene (ug/l) | Indeno(1,2,3-cd)pyrene (ug/l) | Naphthalene (PAH) (ug/l) | Phenanthrene (ug/l) | Pyrene (ug/l) |
|--------------------|------------------|-------------|----------------------------|----------------------------|---------------------|-----------------------|-------------------|---------------------------|-----------------------|-----------------------------|---------------------------|-----------------------------|-----------------|------------------------------|---------------------|-----------------|-------------------------------|--------------------------|---------------------|---------------|
| WI Screening Level |                  |             | 2.3                        | 150                        | 2200                | 2200                  | 3000              | 0.029                     | 0.2                   | 0.2                         | 1100                      | 0.29                        | 0.2             | 0.0029                       | 400                 | 400             | 0.029                         | 100                      | 11000               | 250           |
| QC01               | MW601R           | 09/20/11    | 0.0066                     | 0.009                      | 0.0059              | 0.0066                | 0.0066            | 0.0063                    | 0.0096                | 0.0057                      | 0.0093                    | 0.0086                      | 0.012           | < 0.0032                     | 0.01                | < 0.0048        | 0.006                         | 0.019                    | < 0.0081            | 0.019         |
|                    | MW602            | 10/17/07    | 0.015                      | < 0.011                    | 0.019               | < 0.0081              | 0.018             | < 0.016                   | < 0.018               | < 0.016                     | < 0.019                   | < 0.019                     | < 0.019         | < 0.019                      | < 0.015             | 0.013           | < 0.019                       | < 0.012                  | 0.023               | < 0.015       |
|                    | MW602            | 09/30/09    | 0.53                       | 0.39                       | 0.45                | 0.064                 | 0.17              | <b>0.056</b>              | 0.059                 | 0.023                       | 0.027                     | 0.03                        | 0.048           | < 0.0064                     | 0.099               | 0.25            | 0.02                          | 1.1                      | 0.49                | 0.16          |
|                    | MW602            | 09/28/10    | 0.029                      | 0.035                      | 0.021               | 0.0085                | 0.022             | 0.0063                    | 0.0056                | < 0.0036                    | < 0.0051                  | < 0.0046                    | 0.0068          | < 0.0034                     | 0.013               | 0.013           | < 0.005                       | 0.11                     | 0.031               | 0.015         |
|                    | MW604            | 10/04/05    | <b>59</b>                  | < 4.7                      | 25                  | 1.4                   | 5.3               | < 1.6                     | < 1.8                 | < 1.6                       | < 1.9                     | < 1.9                       | < 1.9           | < 1.9                        | 2.6                 | 14              | < 1.9                         | 75                       | 21                  | 3.5           |
|                    | MW604            | 09/22/06    | <b>56</b>                  | < 4.5                      | 18                  | < 3.2                 | < 4.6             | < 6.2                     | < 7.3                 | < 6.3                       | < 7.7                     | < 7.7                       | < 7.6           | < 7.5                        | < 6.2               | 7.4             | < 7.5                         | 93                       | 12                  | < 5.8         |
|                    | MW604            | 10/02/08    | <b>70.8</b>                | < 4.3                      | 34.6                | < 2                   | 10.8              | < 1.4                     | < 2.2                 | < 2.1                       | < 2.5                     | < 3.1                       | < 2.8           | < 1.7                        | 3.5                 | 21              | < 1.4                         | < 6.6                    | 31.5                | 3.2           |
| QC02               | MW602            | 10/02/08    | 0.15                       | 0.019                      | 0.083               | 0.0055                | 0.023             | < 0.0035                  | < 0.0054              | < 0.0051                    | < 0.0062                  | < 0.0078                    | < 0.007         | < 0.0043                     | 0.0092              | 0.062           | < 0.0036                      | 0.025                    | 0.078               | 0.0069        |
|                    | MW602            | 09/20/11    | 0.0078                     | 0.019                      | 0.011               | < 0.0036              | 0.013             | < 0.0036                  | < 0.0029              | < 0.0034                    | < 0.0048                  | < 0.0044                    | < 0.0035        | < 0.0032                     | 0.0053              | < 0.0048        | < 0.0047                      | 0.02                     | 0.0095              | < 0.0047      |
|                    | MW603B           | 09/22/06    | <b>3.3</b>                 | < 0.11                     | 2.3                 | 2.6                   | 1                 | <b>0.45</b>               | 0.18                  | < 0.16                      | < 0.19                    | < 0.19                      | <b>0.4</b>      | < 0.19                       | 1.8                 | 0.53            | < 0.19                        | 0.65                     | 2                   | 2.5           |
|                    | MW603B           | 09/30/09    | 0.11                       | 0.07                       | 0.11                | 0.016                 | 0.038             | 0.0097                    | 0.0074                | 0.0052                      | 0.0055                    | 0.0048                      | 0.0092          | < 0.0032                     | 0.024               | 0.068           | < 0.0047                      | 0.22                     | 0.13                | 0.033         |
|                    | MW605AR          | 10/04/05    | <b>20000</b>               | <b>22000</b>               | <b>3400</b>         | <b>11000</b>          | <b>6200</b>       | <b>3700</b>               | <b>2700</b>           | <b>1200</b>                 | <b>1200</b>               | <b>1300</b>                 | <b>2900</b>     | <b>310</b>                   | <b>5900</b>         | <b>5900</b>     | <b>920</b>                    | <b>50000</b>             | <b>19000</b>        | <b>8700</b>   |
|                    | MW608B           | 09/28/10    | 0.0065                     | 0.0074                     | 0.0059              | 0.0066                | 0.0098            | 0.0073                    | 0.005                 | 0.0048                      | < 0.0051                  | < 0.0046                    | 0.011           | < 0.0034                     | 0.013               | 0.0073          | < 0.005                       | 0.034                    | 0.015               | 0.022         |
|                    | MW612            | 10/17/07    | <b>3.3</b>                 | < 0.22                     | 2.9                 | 0.95                  | 1.2               | < 0.31                    | < 0.37                | < 0.31                      | < 0.39                    | < 0.39                      | < 0.38          | < 0.38                       | 0.7                 | 3.5             | < 0.38                        | 1.5                      | 8.2                 | 0.74          |

Notes:

- Parameters that attain or exceed the WI Action Limit are identified in bold.
- The hierarchy for the WI Screening Level is MCL, WI NR 140, RSL.
- Reference the laboratory analytical report for full list of compounds analyzed.

<2.0: Parameter not detected above the Limit of Detection indicated.

--: Analysis not performed.

QC: Quality Control duplicate sample.

TB: Trip Blank for QA/QC





**Table 3. Groundwater Elevations and Monitoring Well Construction Details**  
**Groundwater Quality Update Transmittal**  
**Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site**  
**21st and School Streets, Two Rivers, Wisconsin**  
**BRRTS# 0236000255      USEPA# WIN000509953**

| Sample Location           | Date     | TOC Elevation (NGVD)                | Ground Surface Elevation (NGVD) | Total Well Depth from TOC (feet) | Well Screen Length (feet) | Top of Screen Elevation (NGVD) | Bottom of Screen Elevation (NGVD) | Depth to Water from TOC (feet) | Groundwater Elevation (NGVD) | Middle of Screen Elevation (NGVD) | Vertical Gradient |  |
|---------------------------|----------|-------------------------------------|---------------------------------|----------------------------------|---------------------------|--------------------------------|-----------------------------------|--------------------------------|------------------------------|-----------------------------------|-------------------|--|
| MW601                     | 12/07/94 | 586.25                              | 583.85                          | 13.54                            | 10                        | 582.71                         | 572.71                            | 3.40                           | 582.85                       | --                                | --                |  |
|                           | 12/09/94 |                                     |                                 |                                  |                           |                                |                                   | 3.40                           | 582.85                       | --                                | --                |  |
|                           | 12/21/94 |                                     |                                 |                                  |                           |                                |                                   | 3.53                           | 582.72                       | --                                | --                |  |
|                           | 01/10/95 |                                     |                                 |                                  |                           |                                |                                   | 4.33                           | 581.92                       | --                                | --                |  |
|                           | 01/30/95 |                                     |                                 |                                  |                           |                                |                                   | 3.80                           | 582.45                       | --                                | --                |  |
|                           | 06/24/02 |                                     |                                 |                                  |                           |                                |                                   | 3.20                           | 583.05                       | --                                | --                |  |
|                           | 07/02/03 |                                     |                                 |                                  |                           |                                |                                   | 4.95                           | 581.30                       | --                                | --                |  |
|                           | 10/16/03 |                                     |                                 |                                  |                           |                                |                                   | * (bent)                       | *                            | --                                | --                |  |
| Monitoring Well Abandoned |          |                                     |                                 |                                  |                           |                                |                                   |                                |                              |                                   |                   |  |
| MW601R                    | 08/03/04 | 586.44                              | 583.89                          | 15.55                            | 10                        | 580.89                         | 570.89                            | 3.80                           | 582.64                       | --                                | --                |  |
|                           | 10/04/05 |                                     |                                 |                                  |                           |                                |                                   | 4.39                           | 582.05                       | --                                | --                |  |
|                           | 09/22/06 |                                     |                                 |                                  |                           |                                |                                   | 4.04                           | 582.40                       | --                                | --                |  |
|                           | 10/16/07 |                                     |                                 |                                  |                           |                                |                                   | 3.91                           | 582.53                       | --                                | --                |  |
|                           | 11/15/07 | Trimmed well approximately 6 inches |                                 |                                  |                           |                                |                                   |                                |                              |                                   |                   |  |
|                           | 10/02/08 |                                     |                                 |                                  |                           |                                |                                   | 5.00                           | 580.94                       | --                                | --                |  |
|                           | 09/30/09 |                                     |                                 |                                  |                           |                                |                                   | 4.02                           | 581.92                       | --                                | --                |  |
|                           | 09/28/10 |                                     |                                 |                                  |                           |                                |                                   | 4.28                           | 581.66                       | --                                | --                |  |
| 09/20/11                  |          |                                     |                                 |                                  |                           |                                | 5.42                              | 580.52                         | --                           | --                                |                   |  |
| MW602                     | 12/07/94 | 586.83                              | 584.35                          | 14.18                            | 10                        | 582.65                         | 572.65                            | 3.45                           | 583.38                       | --                                | --                |  |
|                           | 12/21/94 |                                     |                                 |                                  |                           |                                |                                   | 3.38                           | 583.45                       | --                                | --                |  |
|                           | 01/10/95 |                                     |                                 |                                  |                           |                                |                                   | 4.64                           | 582.19                       | --                                | --                |  |
|                           | 01/30/95 |                                     |                                 |                                  |                           |                                |                                   | 3.92                           | 582.91                       | --                                | --                |  |
|                           | 06/24/02 |                                     |                                 |                                  |                           |                                |                                   | 3.50                           | 583.33                       | --                                | --                |  |
|                           | 07/02/03 |                                     |                                 |                                  |                           |                                |                                   | 4.85                           | 581.98                       | --                                | --                |  |
|                           | 10/16/03 |                                     |                                 |                                  |                           |                                |                                   | 4.85                           | 581.98                       | --                                | --                |  |
|                           | 08/03/04 |                                     |                                 |                                  |                           |                                |                                   | 4.09                           | 582.74                       | --                                | --                |  |
|                           | 10/04/05 |                                     |                                 |                                  |                           |                                |                                   | 4.91                           | 581.92                       | --                                | --                |  |
|                           | 09/22/06 |                                     |                                 |                                  |                           |                                |                                   | 4.04                           | 582.79                       | --                                | --                |  |
|                           | 10/17/07 |                                     |                                 |                                  |                           |                                |                                   | 3.22                           | 583.61                       | --                                | --                |  |
|                           | 10/02/08 |                                     |                                 |                                  |                           |                                |                                   | 5.52                           | 581.31                       | --                                | --                |  |
|                           | 09/30/09 |                                     |                                 |                                  |                           |                                |                                   | 4.22                           | 582.61                       | --                                | --                |  |
|                           | 09/28/10 |                                     |                                 |                                  |                           |                                |                                   | 4.31                           | 582.52                       | --                                | --                |  |
| 09/20/11                  |          |                                     |                                 |                                  |                           |                                | 5.22                              | 581.61                         | --                           | --                                |                   |  |
| MW603A                    | 12/07/94 | 585.53                              | 582.95                          | 14.50                            | 10                        | 581.03                         | 571.03                            | 3.23                           | 582.30                       | --                                | 1.2E-02 D         |  |
|                           | 12/21/94 |                                     |                                 |                                  |                           |                                |                                   | 3.73                           | 581.80                       | --                                | -7.7E-03 U        |  |
|                           | 01/10/95 |                                     |                                 |                                  |                           |                                |                                   | 4.43                           | 581.10                       | --                                | -2.7E-02 U        |  |
|                           | 01/30/95 |                                     |                                 |                                  |                           |                                |                                   | ***                            | ***                          | --                                | ***               |  |
|                           | 06/24/02 |                                     |                                 |                                  |                           |                                |                                   | 4.00                           | 581.53                       | --                                | -3.4E-02 U        |  |
|                           | 07/02/03 |                                     |                                 |                                  |                           |                                |                                   | 4.44                           | 581.09                       | --                                | -7.9E-04 U        |  |
|                           | 10/16/03 |                                     |                                 |                                  |                           |                                |                                   | 5.65                           | 579.88                       | --                                | 1.7E-01 D         |  |
|                           | 08/03/04 |                                     |                                 |                                  |                           |                                |                                   | 3.61                           | 581.92                       | --                                | 1.3E-02 D         |  |
|                           | 10/04/05 |                                     |                                 |                                  |                           |                                |                                   | 4.15                           | 581.38                       | --                                | 2.8E-02 D         |  |
|                           | 09/22/06 |                                     |                                 |                                  |                           |                                |                                   | 3.95                           | 581.58                       | --                                | 5.8E-03 D         |  |
|                           | 10/17/07 |                                     |                                 |                                  |                           |                                |                                   | 3.59                           | 581.94                       | --                                | 2.6E-02 D         |  |
|                           | 10/02/08 |                                     |                                 |                                  |                           |                                |                                   | 6.25                           | 579.28                       | --                                | -2.8E-02 U        |  |
|                           | 09/30/09 |                                     |                                 |                                  |                           |                                |                                   | 4.18                           | 581.35                       | --                                | -2.0E-03 U        |  |
|                           | 09/28/10 |                                     |                                 |                                  |                           |                                |                                   | 4.06                           | 581.47                       | --                                | 1.2E-03 D         |  |
| 09/20/11                  |          |                                     |                                 |                                  |                           |                                | 6.04                              | 579.49                         | --                           | -1.9E-02 U                        |                   |  |



Table 3. Groundwater Elevations and Monitoring Well Construction Details  
 Groundwater Quality Update Transmittal  
 Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site  
 21st and School Streets, Two Rivers, Wisconsin  
 BRRTS# 0236000255 USEPA# WIN000509953

| Sample Location           | Date     | TOC Elevation (NGVD) | Ground Surface Elevation (NGVD) | Total Well Depth from TOC (feet) | Well Screen Length (feet) | Top of Screen Elevation (NGVD) | Bottom of Screen Elevation (NGVD) | Depth to Water from TOC (feet) | Groundwater Elevation (NGVD) | Middle of Screen Elevation (NGVD) | Vertical Gradient |
|---------------------------|----------|----------------------|---------------------------------|----------------------------------|---------------------------|--------------------------------|-----------------------------------|--------------------------------|------------------------------|-----------------------------------|-------------------|
| MW603B                    | 12/07/94 | 585.25               | 582.85                          | 31.99                            | 5                         | 558.26                         | 553.26                            | 3.26                           | 581.99                       | 555.76                            |                   |
|                           | 12/08/94 |                      |                                 |                                  |                           |                                |                                   | 3.25                           | 582.00                       |                                   |                   |
|                           | 12/21/94 |                      |                                 |                                  |                           |                                |                                   | 3.46                           | 581.79                       |                                   |                   |
|                           | 01/10/95 |                      |                                 |                                  |                           |                                |                                   | 3.97                           | 581.28                       |                                   |                   |
|                           | 01/30/95 |                      |                                 |                                  |                           |                                |                                   | ***                            | ***                          |                                   |                   |
|                           | 06/24/02 |                      |                                 |                                  |                           |                                |                                   | 2.85                           | 582.40                       |                                   |                   |
|                           | 07/02/03 |                      |                                 |                                  |                           |                                |                                   | 4.14                           | 581.11                       |                                   |                   |
|                           | 10/16/03 |                      |                                 |                                  |                           |                                |                                   | 9.57                           | 575.68                       |                                   |                   |
|                           | 08/03/04 |                      |                                 |                                  |                           |                                |                                   | 3.67                           | 581.58                       |                                   |                   |
|                           | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 4.59                           | 580.66                       |                                   |                   |
|                           | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 3.62                           | 581.43                       |                                   |                   |
|                           | 10/17/07 |                      |                                 |                                  |                           |                                |                                   | 3.99                           | 581.26                       |                                   |                   |
|                           | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | 5.30                           | 579.95                       |                                   |                   |
|                           | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 3.85                           | 581.40                       |                                   |                   |
| 09/28/10                  |          |                      |                                 |                                  |                           |                                | 3.81                              | 581.44                         |                              |                                   |                   |
| 09/20/11                  |          |                      |                                 |                                  |                           |                                | 5.30                              | 579.95                         |                              |                                   |                   |
| MW604                     | 12/08/94 | 586.57               | 584.35                          | 14.22                            | 10                        | 582.35                         | 572.35                            | 4.81                           | 581.76                       | --                                | --                |
|                           | 12/21/94 |                      |                                 |                                  |                           |                                |                                   | 4.97                           | 581.60                       | --                                | --                |
|                           | 01/10/95 |                      |                                 |                                  |                           |                                |                                   | 5.42                           | 581.15                       | --                                | --                |
|                           | 01/30/95 |                      |                                 |                                  |                           |                                |                                   | 4.87                           | 581.70                       | --                                | --                |
|                           | 06/24/02 |                      |                                 |                                  |                           |                                |                                   | 4.30                           | 582.27                       | --                                | --                |
|                           | 07/02/03 |                      |                                 |                                  |                           |                                |                                   | 5.25                           | 581.32                       | --                                | --                |
|                           | 10/16/03 |                      |                                 |                                  |                           |                                |                                   | 7.80                           | 578.77                       | --                                | --                |
|                           | 08/03/04 |                      |                                 |                                  |                           |                                |                                   | 4.84                           | 581.73                       | --                                | --                |
|                           | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 5.64                           | 580.93                       | --                                | --                |
|                           | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 4.14                           | 582.43                       | --                                | --                |
|                           | 10/16/07 |                      |                                 |                                  |                           |                                |                                   | 4.91                           | 581.66                       | --                                | --                |
|                           | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | 6.50                           | 580.07                       | --                                | --                |
|                           | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 5.18                           | 581.39                       | --                                | --                |
|                           | 09/28/10 |                      |                                 |                                  |                           |                                |                                   | 5.35                           | 581.22                       | --                                | --                |
| 09/20/11                  |          |                      |                                 |                                  |                           |                                | 6.90                              | 579.67                         | --                           | --                                |                   |
| MW605A                    | 12/08/94 | 585.65               | 583.05                          | 14.37                            | 10                        | 581.28                         | 571.28                            | 4.04                           | 581.61                       | --                                | 1.0E-02 D         |
|                           | 12/21/94 |                      |                                 |                                  |                           |                                |                                   | 4.04                           | 581.61                       | --                                | 1.4E-02 D         |
|                           | 01/10/95 |                      |                                 |                                  |                           |                                |                                   | 4.98                           | 580.67                       | --                                | -5.2E-03 U        |
|                           | 01/30/95 |                      |                                 |                                  |                           |                                |                                   | 4.22                           | 581.43                       | --                                | 6.1E-03 D         |
|                           | 06/24/02 |                      |                                 |                                  |                           |                                |                                   | 3.72                           | 581.93                       | --                                | 1.5E-02 D         |
|                           | 07/02/03 |                      |                                 |                                  |                           |                                |                                   | *(obstruction)                 | *                            |                                   |                   |
|                           | 10/16/03 |                      |                                 |                                  |                           |                                |                                   | *(obstruction)                 | *                            |                                   |                   |
| Monitoring Well Abandoned |          |                      |                                 |                                  |                           |                                |                                   |                                |                              |                                   |                   |
| MW605AR                   | 08/03/04 | 585.48               | 583.16                          | 15.32                            | 10                        | 580.16                         | 570.16                            | 4.86                           | 580.62                       | --                                | -2.1E-03 U        |
|                           | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 6.88                           | 578.60                       | --                                | -2.6E-02 U        |
|                           | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 5.11                           | 580.37                       | --                                | -3.5E-02 U        |
|                           | 10/17/07 |                      |                                 |                                  |                           |                                |                                   | 5.97                           | 579.51                       | --                                | -1.3E-02 U        |
|                           | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | 6.99                           | 578.49                       | --                                | -7.9E-02 U        |
|                           | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 5.35                           | 580.13                       | --                                | 2.2E+01 D         |
|                           | 09/28/10 |                      |                                 |                                  |                           |                                |                                   | 5.30                           | 580.18                       | --                                | -1.2E-02 U        |
|                           | 09/20/11 |                      |                                 |                                  |                           |                                |                                   | 6.23                           | 579.25                       | --                                | -1.2E-02 U        |



Table 3. Groundwater Elevations and Monitoring Well Construction Details  
 Groundwater Quality Update Transmittal  
 Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site  
 21st and School Streets, Two Rivers, Wisconsin  
 BRRTS# 0236000255 USEPA# WIN000509953

| Sample Location           | Date     | TOC Elevation (NGVD) | Ground Surface Elevation (NGVD) | Total Well Depth from TOC (feet)                    | Well Screen Length (feet) | Top of Screen Elevation (NGVD) | Bottom of Screen Elevation (NGVD) | Depth to Water from TOC (feet) | Groundwater Elevation (NGVD) | Middle of Screen Elevation (NGVD) | Vertical Gradient |
|---------------------------|----------|----------------------|---------------------------------|---|---------------------------|--------------------------------|-----------------------------------|--------------------------------|------------------------------|-----------------------------------|-------------------|
| MW605B                    | 12/08/94 | 585.80               | 583.05                          | 34.71   | 5                         | 556.09                         | 551.09                            | 4.48                           | 581.32                       | 553.59                            |                   |
|                           | 12/21/94 |                      |                                 |   |                           |                                |                                   | 4.59                           | 581.21                       |                                   |                   |
|                           | 01/10/95 |                      |                                 |   |                           |                                |                                   | 4.99                           | 580.81                       |                                   |                   |
|                           | 01/30/95 |                      |                                 |   |                           |                                |                                   | 4.54                           | 581.26                       |                                   |                   |
|                           | 06/24/02 |                      |                                 |   |                           |                                |                                   | 4.30                           | 581.50                       |                                   |                   |
|                           | 07/02/03 |                      |                                 |   |                           |                                |                                   | 5.43                           | 580.37                       |                                   |                   |
|                           | 10/16/03 |                      |                                 |   |                           |                                |                                   | 6.49                           | 579.31                       |                                   |                   |
|                           | 08/03/04 |                      |                                 |   |                           |                                |                                   | 5.12                           | 580.68                       |                                   |                   |
|                           | 10/04/05 |                      |                                 |   |                           |                                |                                   | 6.55                           | 579.25                       |                                   |                   |
|                           | 09/22/06 |                      |                                 |   |                           |                                |                                   | 4.48                           | 581.32                       |                                   |                   |
|                           | 10/17/07 |                      |                                 |   |                           |                                |                                   | 5.94                           | 579.86                       |                                   |                   |
|                           | 10/02/08 |                      |                                 |   |                           |                                |                                   | 6.52                           | 579.28                       |                                   |                   |
|                           | 09/30/09 |                      |                                 |   |                           |                                |                                   | 5.35                           | 580.45                       |                                   |                   |
|                           | 09/28/10 |                      |                                 |   |                           |                                |                                   | 5.29                           | 580.51                       |                                   |                   |
| 09/20/11                  |          |                      |                                 |   |                           |                                | 6.25                              | 579.55                         |                              |                                   |                   |
| MW606                     | 12/08/94 | 585.15               | 582.75                          | 14.59   | 10                        | 580.56                         | 570.56                            | 3.38                           | 581.77                       | --                                | --                |
|                           | 12/21/94 |                      |                                 |   |                           |                                |                                   | 3.51                           | 581.64                       | --                                | --                |
|                           | 01/10/95 |                      |                                 |   |                           |                                |                                   | 3.99                           | 581.16                       | --                                | --                |
|                           | 01/30/95 |                      |                                 |   |                           |                                |                                   | ice                            | ice                          | --                                | --                |
|                           | 06/24/02 |                      |                                 | (6.10 - well vandalized, possibly filled with sand) |                           |                                |                                   | 3.00                           | 582.15                       | --                                | --                |
|                           | 07/02/03 |                      |                                 |   |                           |                                |                                   | 4.06                           | 581.09                       | --                                | --                |
|                           | 10/16/03 |                      |                                 |   |                           |                                |                                   | 5.62                           | 579.53                       | --                                | --                |
| Monitoring Well Abandoned |          |                      |                                 |   |                           |                                |                                   |                                |                              |                                   |                   |
| MW606R                    | 08/03/04 | 585.78               | 582.99                          | 16.79   | 10                        | 578.99                         | 568.99                            | 3.91                           | 581.87                       | --                                | --                |
|                           | 10/04/05 |                      |                                 |   |                           |                                |                                   | 4.95                           | 580.83                       | --                                | --                |
|                           | 09/22/06 |                      |                                 |   |                           |                                |                                   | 5.00                           | 580.78                       | --                                | --                |
|                           | 10/16/07 |                      |                                 |   |                           |                                |                                   | 4.49                           | 581.29                       | --                                | --                |
|                           | 10/02/08 |                      |                                 |   |                           |                                |                                   | 6.61                           | 579.17                       | --                                | --                |
|                           | 09/30/09 |                      |                                 |   |                           |                                |                                   | 4.31                           | 581.47                       | --                                | --                |
|                           | 09/28/10 |                      |                                 |   |                           |                                |                                   | 4.50                           | 581.28                       | --                                | --                |
| 09/20/11                  |          |                      |                                 |   |                           |                                | 6.84                              | 578.94                         | --                           | --                                |                   |
| MW607A                    | 12/08/94 | 584.61               | 581.65                          | 15.86   | 10                        | 578.75                         | 568.75                            | 4.18                           | 580.43                       | --                                | -4.6E-03 U        |
|                           | 12/21/94 |                      |                                 |   |                           |                                |                                   | 4.31                           | 580.30                       | --                                | -9.6E-03 U        |
|                           | 01/10/95 |                      |                                 |   |                           |                                |                                   | 4.87                           | 579.74                       | --                                | -1.9E-02 U        |
|                           | 01/30/95 |                      |                                 |   |                           |                                |                                   | 4.41                           | 580.20                       | --                                | -1.5E-02 U        |
|                           | 06/24/02 |                      |                                 |   |                           |                                |                                   | 4.20                           | 580.41                       | --                                | -2.6E-02 U        |
|                           | 07/02/03 |                      |                                 |   |                           |                                |                                   | 5.29                           | 579.32                       | --                                | -5.9E-02 U        |
|                           | 10/16/03 |                      |                                 |   |                           |                                |                                   | 6.10                           | 578.51                       | --                                | -3.8E-03 U        |
|                           | 08/03/04 |                      |                                 |   |                           |                                |                                   | 4.80                           | 579.81                       | --                                | -1.5E-02 U        |
|                           | 10/04/05 |                      |                                 |   |                           |                                |                                   | 5.91                           | 578.70                       | --                                | -7.5E-03 U        |
|                           | 09/22/06 |                      |                                 |   |                           |                                |                                   | 5.08                           | 579.53                       | --                                | -4.7E-03 U        |
|                           | 10/17/07 |                      |                                 |   |                           |                                |                                   | 5.28                           | 579.33                       | --                                | -1.4E-03 U        |
|                           | 10/02/08 |                      |                                 |   |                           |                                |                                   | 6.63                           | 577.98                       | --                                | -2.6E-02 U        |
|                           | 09/30/09 |                      |                                 |   |                           |                                |                                   | 5.20                           | 579.41                       | --                                | -1.9E-02 U        |
|                           | 09/28/10 |                      |                                 |   |                           |                                |                                   | 5.31                           | 579.30                       | --                                | -1.8E-02 U        |
| 09/20/11                  |          |                      |                                 |   |                           |                                | 7.00                              | 577.61                         | --                           | -3.3E-02 U                        |                   |



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 Groundwater Quality Update Transmittal  
 Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site  
 21st and School Streets, Two Rivers, Wisconsin  
 BRRTS# 0236000255 USEPA# WIN000509953

| Sample Location                  | Date     | TOC Elevation (NGVD) | Ground Surface Elevation (NGVD) | Total Well Depth from TOC (feet) | Well Screen Length (feet) | Top of Screen Elevation (NGVD) | Bottom of Screen Elevation (NGVD) | Depth to Water from TOC (feet) | Groundwater Elevation (NGVD) | Middle of Screen Elevation (NGVD) | Vertical Gradient |
|----------------------------------|----------|----------------------|---------------------------------|----------------------------------|---------------------------|--------------------------------|-----------------------------------|--------------------------------|------------------------------|-----------------------------------|-------------------|
| MW607B                           | 12/08/94 | 584.26               | 581.75                          | 34.70                            | 5                         | 554.56                         | 549.56                            | 3.70                           | 580.56                       | 552.06                            |                   |
|                                  | 12/21/94 |                      |                                 |                                  |                           |                                |                                   | 3.69                           | 580.57                       |                                   |                   |
|                                  | 01/10/95 |                      |                                 |                                  |                           |                                |                                   | 3.99                           | 580.27                       |                                   |                   |
|                                  | 01/30/95 |                      |                                 |                                  |                           |                                |                                   | 3.65                           | 580.61                       |                                   |                   |
|                                  | 06/24/02 |                      |                                 |                                  |                           |                                |                                   | 3.10                           | 581.16                       |                                   |                   |
|                                  | 07/02/03 |                      |                                 |                                  |                           |                                |                                   | 3.32                           | 580.94                       |                                   |                   |
|                                  | 10/16/03 |                      |                                 |                                  |                           |                                |                                   | 5.65                           | 578.61                       |                                   |                   |
| <b>Monitoring Well Abandoned</b> |          |                      |                                 |                                  |                           |                                |                                   |                                |                              |                                   |                   |
| MW607BR                          | 08/03/04 | 584.59               | 581.70                          | 34.9                             | 5                         | 554.69                         | 549.69                            | 4.36                           | 580.23                       | 552.19                            |                   |
|                                  | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 5.69                           | 578.90                       |                                   |                   |
|                                  | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 4.93                           | 579.66                       |                                   |                   |
|                                  | 10/17/07 |                      |                                 |                                  |                           |                                |                                   | 5.22                           | 579.37                       |                                   |                   |
|                                  | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | 5.94                           | 578.65                       |                                   |                   |
|                                  | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 4.67                           | 579.92                       |                                   |                   |
|                                  | 09/28/10 |                      |                                 |                                  |                           |                                |                                   | 4.80                           | 579.79                       |                                   |                   |
| 09/20/11                         |          |                      |                                 |                                  |                           |                                | 6.15                              | 578.44                         |                              |                                   |                   |
| MW608A                           | 12/08/94 | 583.37               | 581.15                          | 15.19                            | 10                        | 578.18                         | 568.18                            | 2.80                           | 580.57                       | --                                | 5.1E-01 D         |
|                                  | 12/21/94 |                      |                                 |                                  |                           |                                |                                   | 2.87                           | 580.50                       | --                                | -4.8E-03 U        |
|                                  | 01/10/95 |                      |                                 |                                  |                           |                                |                                   | 3.32                           | 580.05                       | --                                | -1.2E-02 U        |
|                                  | 01/30/95 |                      |                                 |                                  |                           |                                |                                   | 2.92                           | 580.45                       | --                                | -7.8E-03 U        |
|                                  | 06/24/02 |                      |                                 |                                  |                           |                                |                                   | 2.70                           | 580.67                       | --                                | -5.1E-03 U        |
|                                  | 07/02/03 |                      |                                 |                                  |                           |                                |                                   | 3.93                           | 579.44                       | --                                | -9.2E-03 U        |
|                                  | 10/16/03 |                      |                                 |                                  |                           |                                |                                   | 9.77                           | 573.60                       | --                                | -2.3E-01 U        |
|                                  | 08/03/04 |                      |                                 |                                  |                           |                                |                                   | 3.52                           | 579.85                       | --                                | -1.0E-02 U        |
|                                  | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 4.96                           | 578.41                       | --                                | -9.6E-03 U        |
|                                  | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 3.76                           | 579.61                       | --                                | 2.5E-03 D         |
|                                  | 10/17/07 |                      |                                 |                                  |                           |                                |                                   | 4.21                           | 579.16                       | --                                | -1.8E-03 U        |
|                                  | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | 5.50                           | 577.87                       | --                                | -2.5E-02 U        |
|                                  | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 3.90                           | 579.47                       | --                                | -1.3E-02 U        |
|                                  | 09/28/10 |                      |                                 |                                  |                           |                                |                                   | 4.08                           | 579.29                       | --                                | -1.7E-02 U        |
| 09/20/11                         |          |                      |                                 |                                  |                           |                                | 5.70                              | 577.67                         | --                           | -1.1E-02 U                        |                   |
| MW608B                           | 12/08/94 | 584.15               | 581.75                          | 35.54                            | 5                         | 553.61                         | 548.61                            | 18.65                          | 565.50                       | 551.11                            |                   |
|                                  | 12/21/94 |                      |                                 |                                  |                           |                                |                                   | 3.51                           | 580.64                       |                                   |                   |
|                                  | 01/10/95 |                      |                                 |                                  |                           |                                |                                   | 3.76                           | 580.39                       |                                   |                   |
|                                  | 01/30/95 |                      |                                 |                                  |                           |                                |                                   | 3.47                           | 580.68                       |                                   |                   |
|                                  | 06/24/02 |                      |                                 |                                  |                           |                                |                                   | 3.33                           | 580.82                       |                                   |                   |
|                                  | 07/02/03 |                      |                                 |                                  |                           |                                |                                   | 4.45                           | 579.70                       |                                   |                   |
|                                  | 10/16/03 |                      |                                 |                                  |                           |                                |                                   | 5.43                           | 578.72                       |                                   |                   |
|                                  | 08/03/04 |                      |                                 |                                  |                           |                                |                                   | 4.01                           | 580.14                       |                                   |                   |
|                                  | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 5.48                           | 578.67                       |                                   |                   |
|                                  | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 4.61                           | 579.54                       |                                   |                   |
|                                  | 10/17/07 |                      |                                 |                                  |                           |                                |                                   | 4.94                           | 579.21                       |                                   |                   |
|                                  | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | 5.60                           | 578.55                       |                                   |                   |
|                                  | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 4.31                           | 579.84                       |                                   |                   |
|                                  | 09/28/10 |                      |                                 |                                  |                           |                                |                                   | 4.38                           | 579.77                       |                                   |                   |
| 09/20/11                         |          |                      |                                 |                                  |                           |                                | 6.19                              | 577.96                         |                              |                                   |                   |

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 Groundwater Quality Update Transmittal  
 Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site  
 21st and School Streets, Two Rivers, Wisconsin  
 BRRTS# 023600255 USEPA# WIN000509953

| Sample Location | Date     | TOC Elevation (NGVD) | Ground Surface Elevation (NGVD) | Total Well Depth from TOC (feet) | Well Screen Length (feet) | Top of Screen Elevation (NGVD) | Bottom of Screen Elevation (NGVD) | Depth to Water from TOC (feet) | Groundwater Elevation (NGVD) | Middle of Screen Elevation (NGVD) | Vertical Gradient |
|-----------------|----------|----------------------|---------------------------------|----------------------------------|---------------------------|--------------------------------|-----------------------------------|--------------------------------|------------------------------|-----------------------------------|-------------------|
| MW609A          | 12/08/94 | 584.81               | 582.00                          | 14.70                            | 10                        | 580.11                         | 570.11                            | --                             | --                           | --                                | --                |
|                 | 12/21/94 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 01/10/95 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 01/30/95 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 06/24/02 |                      |                                 |                                  |                           |                                |                                   | 4.80                           | 580.01                       | --                                | -3.2E-02 U        |
|                 | 07/02/03 |                      |                                 |                                  |                           |                                |                                   | 6.43                           | 578.38                       | --                                | -5.0E-02 U        |
|                 | 10/16/03 |                      |                                 |                                  |                           |                                |                                   | 6.53                           | 578.28                       | --                                | -2.0E-02 U        |
|                 | 08/03/04 |                      |                                 |                                  |                           |                                |                                   | 5.54                           | 579.27                       | --                                | -3.4E-02 U        |
|                 | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 6.43                           | 578.38                       | --                                | -2.2E-02 U        |
|                 | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 6.13                           | 578.68                       | --                                | -3.2E-02 U        |
|                 | 10/17/07 |                      |                                 |                                  |                           |                                |                                   | 6.14                           | 578.67                       | --                                | -2.9E-02 U        |
|                 | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | *                              | *                            | --                                | --                |
|                 | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 5.68                           | 579.13                       | --                                | -3.1E-02 U        |
|                 | 09/28/10 |                      |                                 |                                  |                           |                                |                                   | 6.13                           | 578.68                       | --                                | -4.4E-02 U        |
| 09/20/11        |          |                      |                                 |                                  |                           |                                | 6.72                              | 578.09                         | --                           | -1.1E-02 U                        |                   |
| MW609B          | 12/08/94 | 584.69               | 582.00                          | 33.00                            | 5                         | 556.69                         | 551.69                            | --                             | --                           | 554.19                            | --                |
|                 | 12/21/94 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 01/10/95 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 01/30/95 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 06/24/02 |                      |                                 |                                  |                           |                                |                                   | 3.85                           | 580.84                       | --                                | --                |
|                 | 07/02/03 |                      |                                 |                                  |                           |                                |                                   | 5.10                           | 579.59                       | --                                | --                |
|                 | 10/16/03 |                      |                                 |                                  |                           |                                |                                   | 5.94                           | 578.75                       | --                                | --                |
|                 | 08/03/04 |                      |                                 |                                  |                           |                                |                                   | 4.56                           | 580.13                       | --                                | --                |
|                 | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 5.78                           | 578.91                       | --                                | --                |
|                 | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 5.22                           | 579.47                       | --                                | --                |
|                 | 10/17/07 |                      |                                 |                                  |                           |                                |                                   | 5.31                           | 579.38                       | --                                | --                |
|                 | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | 6.18                           | 578.51                       | --                                | --                |
|                 | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 4.80                           | 579.89                       | --                                | --                |
|                 | 09/28/10 |                      |                                 |                                  |                           |                                |                                   | 4.93                           | 579.76                       | --                                | --                |
| 09/20/11        |          |                      |                                 |                                  |                           |                                | 6.35                              | 578.34                         | --                           | --                                |                   |
| MW610           | 12/08/94 | 585.96               | 583.00                          | 12                               | 10                        | 583.96                         | 573.96                            | --                             | --                           | --                                | --                |
|                 | 12/21/94 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 01/10/95 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 01/30/95 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 10/30/02 |                      |                                 |                                  |                           |                                |                                   | 4.42                           | 581.54                       | --                                | --                |
|                 | 07/02/03 |                      |                                 |                                  |                           |                                |                                   | 4.72                           | 581.24                       | --                                | --                |
|                 | 10/16/03 |                      |                                 |                                  |                           |                                |                                   | 6.33                           | 579.63                       | --                                | --                |
|                 | 08/03/04 |                      |                                 |                                  |                           |                                |                                   | 4.53                           | 581.43                       | --                                | --                |
|                 | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 6.68                           | 579.28                       | --                                | --                |
|                 | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 4.90                           | 581.06                       | --                                | --                |
|                 | 10/17/07 |                      |                                 |                                  |                           |                                |                                   | 5.45                           | 580.51                       | --                                | --                |
|                 | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | 6.80                           | 579.16                       | --                                | --                |
|                 | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 5.03                           | 580.93                       | --                                | --                |
|                 | 09/28/10 |                      |                                 |                                  |                           |                                |                                   | 5.15                           | 580.81                       | --                                | --                |
| 09/20/11        |          |                      |                                 |                                  |                           |                                | Well Damaged                      |                                |                              |                                   |                   |





**Table 3. Groundwater Elevations and Monitoring Well Construction Details**  
**Groundwater Quality Update Transmittal**  
**Wisconsin Public Service Corporation - Former Two Rivers Manufactured Gas Plant Site**  
**21st and School Streets, Two Rivers, Wisconsin**  
**BRRTS# 0236000255 USEPA# WIN000509953**

| Sample Location | Date     | TOC Elevation (NGVD) | Ground Surface Elevation (NGVD) | Total Well Depth from TOC (feet) | Well Screen Length (feet) | Top of Screen Elevation (NGVD) | Bottom of Screen Elevation (NGVD) | Depth to Water from TOC (feet) | Groundwater Elevation (NGVD) | Middle of Screen Elevation (NGVD) | Vertical Gradient |
|-----------------|----------|----------------------|---------------------------------|----------------------------------|---------------------------|--------------------------------|-----------------------------------|--------------------------------|------------------------------|-----------------------------------|-------------------|
| MW611           | 12/08/94 | 586.17               | 583.70                          | 12                               | 10                        | 584.17                         | 576.17                            | --                             | --                           | --                                | --                |
|                 | 12/21/94 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 01/10/95 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 01/30/95 |                      |                                 |                                  |                           |                                |                                   | --                             | --                           | --                                | --                |
|                 | 10/30/02 |                      |                                 |                                  |                           |                                |                                   | 3.90                           | 582.27                       | --                                | --                |
|                 | 07/02/03 |                      |                                 |                                  |                           |                                |                                   | 4.49                           | 581.68                       | --                                | --                |
|                 | 10/16/03 |                      |                                 |                                  |                           |                                |                                   | 5.82                           | 580.25                       | --                                | --                |
|                 | 08/03/04 |                      |                                 |                                  |                           |                                |                                   | 4.20                           | 581.97                       | --                                | --                |
|                 | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 6.38                           | 579.79                       | --                                | --                |
|                 | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 5.41                           | 580.76                       | --                                | --                |
|                 | 10/17/07 |                      |                                 |                                  |                           |                                |                                   | 4.69                           | 581.48                       | --                                | --                |
|                 | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | 6.40                           | 579.77                       | --                                | --                |
|                 | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 4.53                           | 581.64                       | --                                | --                |
| 09/28/10        |          |                      |                                 |                                  |                           |                                | 4.77                              | 581.40                         |                              |                                   |                   |
| 09/20/11        |          |                      |                                 |                                  |                           |                                | Well Damaged                      |                                |                              |                                   |                   |
| MW612           | 08/03/04 | 586.37               | 583.59                          | 16.8                             | 10                        | 579.57                         | 569.57                            | 7.10                           | 579.27                       | --                                | --                |
|                 | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 8.46                           | 577.91                       | --                                | --                |
|                 | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 7.96                           | 578.41                       | --                                | --                |
|                 | 10/17/07 |                      |                                 |                                  |                           |                                |                                   | 8.53                           | 577.84                       | --                                | --                |
|                 | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | 8.21                           | 578.16                       | --                                | --                |
|                 | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 7.24                           | 579.13                       | --                                | --                |
|                 | 09/28/10 |                      |                                 |                                  |                           |                                |                                   | 7.88                           | 578.49                       | --                                | --                |
|                 | 09/20/11 |                      |                                 |                                  |                           |                                |                                   | 8.42                           | 577.95                       | --                                | --                |
| MW613           | 08/03/04 | 584.47               | 581.41                          | 16.8                             | 10                        | 577.67                         | 567.67                            | 4.30                           | 580.17                       | --                                | --                |
|                 | 10/04/05 |                      |                                 |                                  |                           |                                |                                   | 5.85                           | 578.62                       | --                                | --                |
|                 | 09/22/06 |                      |                                 |                                  |                           |                                |                                   | 4.61                           | 579.86                       | --                                | --                |
|                 | 10/17/07 |                      |                                 |                                  |                           |                                |                                   | 4.94                           | 579.53                       | --                                | --                |
|                 | 10/02/08 |                      |                                 |                                  |                           |                                |                                   | 6.02                           | 578.45                       | --                                | --                |
|                 | 09/30/09 |                      |                                 |                                  |                           |                                |                                   | 4.55                           | 579.92                       | --                                | --                |
|                 | 09/28/10 |                      |                                 |                                  |                           |                                |                                   | 4.71                           | 579.76                       | --                                | --                |
|                 | 09/20/11 |                      |                                 |                                  |                           |                                |                                   | 6.24                           | 578.23                       | --                                | --                |

(JTB/EPK/PAH 2/03, HMS/GRL 8/04, HMS/PAR 10/05, PAR/JCB 1/07, RJG/JMK 1/08, CJM/IAMM 12/11)

**NOTES:**

- TOC : Top of well casing
- NVGD : All elevations relative to National Vertical Geodetic Datum.
- U : Upward vertical hydraulic gradient
- D : Downward vertical hydraulic gradient
- ice : Ice present on the inside of the well casing prohibited groundwater elevation measurement.
- 1. Depth to water measurements collected prior to groundwater sampling.
- : not applicable
- \* : not measured
- \*\*\* : Measurement was not collected, area was inaccessible



**APPENDIX A**  
**HISTORIC ANALYTICAL DATA TABLES**

Table 3. Groundwater Analytical Results - BTEX, Cyanide, Phenol, & Metals  
 Wisconsin Public Service Corporation  
 Former Two Rivers Manufactured Gas Plant Site

| Sample Location         | Sample Date | BTEX (µg/L)                                 |         |              |                 |            | VOCs (µg/L)            |                        |                         |             |                  |                 |                    | Pheno/Cyanide (mg/L) |                       |                 | Metals (mg/L)      |         |          |          |          |         |           |           |          |         |               |                 |               |               |   |
|-------------------------|-------------|---|---------|--------------|-----------------|------------|------------------------|------------------------|-------------------------|-------------|------------------|-----------------|--------------------|----------------------|-----------------------|-----------------|--------------------|---------|----------|----------|----------|---------|-----------|-----------|----------|---------|---------------|-----------------|---------------|---------------|---|
|                         |             | Benzene                                     | Toluene | Ethylbenzene | Xylenes (total) | Total BTEX | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Methyl-tert-butyl-ether | Naphthalene | Isopropylbenzene | n-Propylbenzene | p-Isopropyltoluene | Phenols              | Cyanide (dissociable) | Cyanide (total) | Cyanide (amenable) | Arsenic | Barium   | Cadmium  | Chromium | Iron    | Lead      | Mercury   | Selenium | Silver  | Nitrogen mg/L | Manganese, mg/L | Sulfate, mg/L | Sulfide, mg/L |   |
| Preventive Action Limit |             | 0.5   | 200     | 140          | 1,000           | ns         | 96*                    | 96*                    | 12                      | 8           | ns               | ns              | ns                 | 1.2                  | 0.01                  | ns              | ns                 | 0.001   | 0.4      | 0.0005   | 0.01     | 0.15    | 0.0015    | 0.0002    | 0.01     | 0.01    | 2             | 0.025           | 125           | ns            |   |
| Enforcement Standard    |             | 5   | 1,000   | 700          | 10,000          | ns         | 480*                   | 480*                   | 60                      | 40          | ns               | ns              | ns                 | 6                    | 0.02                  | ns              | ns                 | 0.01    | 2        | 0.005    | 0.1      | 0.3     | 0.015     | 0.002     | 0.05     | 0.05    | 10            | 0.05            | 250           | ns            |   |
| MW601                   | 12/8/1994   | nd  | nd      | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | nd                 | nd                   | nd                    | nr              | 0.0043             | 0.19    | nd       | nd       | -        | -       | nd        | nd        | nd       | -       | -             | -               | -             | -             |   |
|                         | 1/11/1995   | nd  | nd      | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | nd                 | nd                   | 0.2                   | 0.2             | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
|                         | 6/24/2002   | <0.48                                       | <0.47   | <0.43        | <1.4            | nd         | 0.58 Q                 | <0.52                  | -                       | 0.67 Q      | <0.43            | <0.64           | <0.57              | <0.0084              | 0.0040 Q              | 0.0033 Q        | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
|                         | 7/2/2003    | <0.30                                       | <0.58   | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | <0.001               | -                     | -               | <0.0081            | 0.18    | <0.00053 | <0.00093 | 7.2      | <0.0013 | <0.000030 | <0.0048   | <0.0011  | <0.047  | -             | -               | -             | 1.9 Q         |   |
|                         |             | Unable to sample due to bent riser section. |         |              |                 |            |                        |                        |                         |             |                  |                 |                    |                      |                       |                 |                    |         |          |          |          |         |           |           |          |         |               |                 |               |               |   |
|                         |             | Monitoring Well Abandoned                   |         |              |                 |            |                        |                        |                         |             |                  |                 |                    |                      |                       |                 |                    |         |          |          |          |         |           |           |          |         |               |                 |               |               |   |
| MW601R                  | 8/3/2004    | 0.15  | <0.36   | <0.40        | <1.2            | 0.15       | <0.39                  | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -       | -        | -        | -        | 0.02 Q  | -         | -         | -        | -       | <0.063        | 7.5             | 8.4           | -             |   |
|                         | 10/4/2005   | <0.14                                       | <0.36   | <0.40        | <0.74           | nd         | <0.39                  | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
| MW602                   | 12/8/1994   | nd  | nd      | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | nd                 | nd                   | nd                    | nr              | nd                 | 0.15    | nd       | nd       | nd       | nd      | nd        | nd        | nd       | -       | -             | -               | -             | -             |   |
|                         | 1/11/1995   | nd  | nd      | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | nd                 | nd                   | nd                    | nd              | nd                 | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
|                         | 6/24/2002   | <0.48                                       | <0.47   | <0.43        | <1.4            | nd         | <0.51                  | <0.52                  | -                       | <0.59       | <0.43            | <0.64           | <0.57              | <0.0084              | 0.0036 Q              | 0.0036 Q        | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
|                         | 6/24/2002   | <0.48                                       | <0.47   | <0.43        | <1.4            | nd         | <0.51                  | <0.52                  | -                       | <0.59       | <0.43            | <0.64           | <0.57              | <0.0084              | 0.0024 Q              | 0.57 A          | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
|                         | 7/2/2003    | <0.30                                       | <0.58   | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | <0.001               | -                     | -               | <0.0081            | 0.13    | <0.00053 | <0.00093 | 0.17     | <0.0013 | <0.000030 | <0.0048   | <0.0011  | 0.16    | -             | -               | -             | 2.0 Q         |   |
|                         | 10/16/2003  | <0.30                                       | <0.58   | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | 0.00068              | -                     | -               | <0.0058            | 0.12    | <0.00041 | <0.0011  | 0.035 Q  | <0.0012 | <0.000030 | <0.0036   | <0.0038  | 0.13 Q  | -             | -               | -             | <0.97         |   |
|                         | 8/3/2004    | <0.14                                       | <0.36   | <0.40        | <1.2            | nd         | <0.39                  | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -       | -        | -        | 0.033 Q  | -       | -         | -         | -        | <0.063  | 0.96          | 48              | -             | -             |   |
|                         | 10/4/2005   | <0.14                                       | <0.36   | <0.40        | <0.74           | nd         | <0.39                  | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
| MW603A                  | 12/8/1994   | 710   | 37      | 980          | 820             | 2,547      | -                      | -                      | -                       | -           | -                | -               | nd                 | 0.47                 | 5.3                   | nr              | nd                 | 0.25    | nd       | 0.0042   | -        | nd      | nd        | nd        | nd       | -       | -             | -               | -             | -             |   |
|                         | 1/11/1995   | 340   | <100    | 320          | 400             | 1,060      | -                      | -                      | -                       | -           | -                | -               | nd                 | 0.64                 | 7.9                   | 7.9             | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
|                         | 1/11/1995   | 380   | nd      | 380          | 410             | 1,170      | -                      | -                      | -                       | -           | -                | -               | 0.022              | 0.2                  | 8.5                   | 4.9             | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
|                         | 6/24/2002   | 1,100                                       | 33      | 900          | 830             | 2,863      | 350                    | 140                    | -                       | 520         | 54               | 34              | <5.7               | 0.11                 | 24                    | 810             | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
|                         | 7/2/2003    | 500   | 16      | 330          | 320             | 1,166      | 140                    | 36                     | <1.2                    | -           | -                | -               | -                  | 0.0539               | -                     | -               | <0.0081            | 0.19    | <0.00053 | <0.00093 | 44       | <0.0013 | <0.000030 | <0.0048   | <0.0011  | 0.063 Q | -             | -               | -             | 1.2 Q         |   |
|                         | 10/16/2003  | 530   | 19      | 390          | 580             | 1,519      | 130                    | 70                     | <1.4                    | -           | -                | -               | -                  | 0.015                | -                     | -               | <0.02              | 0.2     | <0.0013  | <0.0023  | 40       | <0.0032 | <0.000030 | <0.012    | <0.0028  | <0.047  | -             | -               | -             | 5.8           |   |
|                         | 10/16/2003  | 670   | 22      | 640          | 670             | 2,002      | 160                    | 85                     | <2.9                    | -           | -                | -               | -                  | 0.0188               | -                     | -               | <0.02              | 0.19    | <0.0013  | <0.0023  | 35       | <0.0032 | <0.000030 | <0.012    | <0.0028  | 0.073 Q | -             | -               | -             | 2.0 Q         |   |
|                         | 8/3/2004    | 840   | 26      | 690          | 600             | 2,156      | 280                    | 100                    | <3.6                    | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -       | -        | -        | 39       | -       | -         | -         | -        | <0.063  | 1.7           | 31              | -             | -             |   |
|                         | 10/4/2005   | 290   | 6.5     | 220          | 135             | 652        | 41                     | 0.67 Q                 | <0.36                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
| MW603B                  | 12/8/1994   | 2.3   | nd      | 11           | 11              | 24         | -                      | -                      | -                       | -           | -                | -               | nd                 | 0.2                  | 0.8                   | nr              | nd                 | 0.064   | nd       | nd       | -        | nd      | nd        | nd        | nd       | -       | -             | -               | -             | -             |   |
|                         | 12/8/1994   | 2.6   | nd      | 14           | 11              | 28         | -                      | -                      | -                       | -           | -                | -               | nd                 | 0.33                 | 0.88                  | nr              | nd                 | 0.071   | nd       | nd       | -        | nd      | nd        | nd        | nd       | -       | -             | -               | -             | -             |   |
|                         | 1/11/1995   | nd  | nd      | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | nd                 | 0.095                | 0.67                  | 0.67            | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
|                         | 6/24/2002   | <0.48                                       | <0.47   | <0.43        | <1.4            | nd         | <0.51                  | <0.52                  | -                       | <0.59       | <0.43            | <0.64           | <0.57              | <0.0084              | 0.45                  | 0.43 A          | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             | - |
|                         | 6/24/2002   | <0.48                                       | <0.47   | <0.43        | <1.4            | nd         | <0.51                  | <0.52                  | -                       | <0.59       | <0.43            | <0.64           | <0.57              | <0.0084              | 0.57                  | 0.074 A         | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             | - |
|                         | 7/2/2003    | <0.30                                       | <0.58   | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | 0.0039               | -                     | -               | <0.0058            | 0.039   | <0.00041 | <0.0011  | 0.13     | <0.0012 | <0.000030 | 0.00081 Q | <0.0038  | 0.050 Q | -             | -               | -             | <0.97         |   |
|                         | 10/16/2003  | <0.30                                       | <0.58   | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | 0.00154              | -                     | -               | <0.0058            | 0.044   | <0.00041 | <0.0011  | 0.071    | <0.0012 | <0.000030 | <0.0036   | <0.0038  | 0.061 Q | -             | -               | -             | <0.97         |   |
|                         | 10/16/2003  | <0.30                                       | <0.58   | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | 0.00197              | -                     | -               | <0.0058            | 0.045   | <0.00041 | <0.0011  | 0.067    | <0.0012 | <0.000030 | <0.0036   | <0.0038  | 0.065 Q | -             | -               | -             | <0.97         |   |
|                         | 8/3/2004    | 0.20 Q                                      | <0.36   | <0.40        | <1.2            | 0.2        | <0.39                  | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -       | -        | -        | 0.1      | <0.0012 | <0.000030 | <0.0036   | <0.0038  | 0.065 Q | -             | -               | -             | <0.97         |   |
|                         | 10/4/2005   | <0.14                                       | <0.36   | <0.40        | <0.74           | nd         | <0.39                  | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -       | -        | -        | -        | -       | -         | -         | -        | <0.063  | 1.9           | 0.85 Q          | -             | -             |   |
| MW604                   | 12/8/1994   | 200   | 47      | 180          | 270             | 697        | -                      | -                      | -                       | -           | -                | -               | 0.021              | 0.22                 | 0.37                  | nr              | nd                 | 0.21    | nd       | nd       | -        | nd      | nd        | nd        | nd       | -       | -             | -               | -             | -             |   |
|                         | 1/11/1995   | 240   | 42      | 150          | 260             | 692        | -                      | -                      | -                       | -           | -                | -               | nd                 | 0.05                 | 0.73                  | 0.65            | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             | - |
|                         | 6/24/2002   | 91  | 14      | 52           | 86              | 243        | 22                     | 6.4                    | -                       | 320         | 4.2              | 0.71 Q          | 0.60 Q             | <0.0084              | 0.096                 | 0.084 A         | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             | - |
|                         | 7/2/2003    | 140 K                                       | 12 K    | 79 K         | 130 K           | 361        | 46 K                   | 15 K                   | <2.3 K                  | -           | -                | -               | -                  | 0.0048               | -                     | -               | <0.0081            | 0.15    | <0.00053 | <0.00093 | 7.6      | <0.0013 | <0.000030 | <0.0048   | <0.0011  | 0.047 Q | -             | -               | -             | <0.97         |   |
|                         | 10/16/2003  | 140   | 12      | 95           | 130             | 377        | 41                     | 11                     | <0.58                   | -           | -                | -               | -                  | 0.00231              | -                     | -               | <0.0081            | 0.13    | <0.00053 | 0.0013 Q | 11       | <0.0013 | <0.000030 | <0.0048   | <0.0011  | 0.063 Q | -             | -               | -             | 6.8           |   |
|                         | 8/3/2004    | 77  | 10      | 67           | 113             | 267        | 38                     | 11                     | <0.36                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -       | -        | -        | 1.8      | -       | -         | -         | -        | <0.063  | 0.59          | 1.9             | -             | -             |   |
|                         | 10/4/2005   | 120   | 15      | 86           | 131             | 352        | 37                     | 9.5                    | <0.36                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
|                         | 10/4/2005   | 120 K                                       | 14 K    | 88 K         | 145 K           | 367        | 42                     | 11                     | <1.4                    | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -       | -        | -        | -        | -       | -         | -         | -        | -       | -             | -               | -             | -             |   |
| MW605A                  | 12/8/1994   | 140   | 180     | 340          | 310             | 970        | -                      | -                      | -                       | -           | -                | -               | nd                 | 0.14                 | 0.2                   | nr              | nd                 | 0.35    | nd       | nd       | -        | nd      | nd        | nd        | nd       | -       | -             | -               | -             | -             |   |
|                         | 12/8/1994   | 130   | 160     | 310          | 280             | 890        | -                      | -                      | -                       | -           | -                |                 |                    |                      |                       |                 |                    |         |          |          |          |         |           |           |          |         |               |                 |               |               |   |

Table 3. Groundwater Analytical Results - BTEX, Cyanide, Phenol, & Metals  
 Wisconsin Public Service Corporation  
 Former Two Rivers Manufactured Gas Plant Site

| Sample Location           | Sample Date | BTEX (µg/L)                                      |         |              |                 |            | VOCs (µg/L)            |                        |                         |             |                  |                 |                    | Phenol/Cyanide (mg/L) |                       |                 | Metals (mg/L)      |          |          |          |          |           |           |         |          |         |               |                |              |              |
|---------------------------|-------------|--|---------|--------------|-----------------|------------|------------------------|------------------------|-------------------------|-------------|------------------|-----------------|--------------------|-----------------------|-----------------------|-----------------|--------------------|----------|----------|----------|----------|-----------|-----------|---------|----------|---------|---------------|----------------|--------------|--------------|
|                           |             | Benzene  | Toluene | Ethylbenzene | Xylenes (total) | Total BTEX | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Methyl-tert-butyl-ether | Naphthalene | Isopropylbenzene | n-Propylbenzene | p-Isopropyltoluene | Phenols               | Cyanide (dissociable) | Cyanide (total) | Cyanide (amenable) | Arsenic  | Barium   | Cadmium  | Chromium | Iron      | Lead      | Mercury | Selenium | Silver  | Nitrogen mg/L | Manganese mg/L | Sulfate mg/L | Sulfide mg/L |
|                           |             | Wisconsin Groundwater Quality Standards (NR 140) |         |              |                 |            |                        |                        |                         |             |                  |                 |                    |                       |                       |                 |                    |          |          |          |          |           |           |         |          |         |               |                |              |              |
| Preventive Action Limit   |             | 0.5  | 200     | 140          | 1,000           | ns         | 96*                    | 96*                    | 12                      | 8           | ns               | ns              | ns                 | 1.2                   | 0.04                  | ns              | ns                 | 0.001    | 0.4      | 0.0005   | 0.01     | 0.15      | 0.0015    | 0.0002  | 0.01     | 0.01    | 2             | 0.025          | 125          | ns           |
| Enforcement Standard      |             | 5  | 1,000   | 700          | 10,000          | ns         | 480*                   | 480*                   | 60                      | 40          | ns               | ns              | ns                 | 6                     | 0.2                   | ns              | ns                 | 0.01     | 2        | 0.005    | 0.1      | 0.3       | 0.0015    | 0.002   | 0.05     | 0.05    | 10            | 0.05           | 250          | ns           |
| MW605AR<br>(OC-1)         | 8/3/2004    | 3,300  | 5,500   | 3,200        | 3,000           | 15,000     | 480                    | 130                    | <45                     | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            | -            |
|                           | 8/3/2004    | 3,500K   | 5,000K  | 2,300K       | 2,110K          | 12,910     | 360K                   | 97K Q                  | <36                     | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            | -            |
|                           | 10/4/2005   | 7,600K   | 8,400K  | 4,200K       | 3,600K          | 23,800     | 660K                   | 140K Q                 | <45K                    | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            | -            |
|                           | 10/4/2005   | 7,600K   | 7,600K  | 3,800K       | 3,400K          | 22,400     | 680K                   | 160K Q                 | <45                     | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            | -            |
| MW605B                    | 12/8/1994   | 29   | 88      | 320          | 540             | 977        | -                      | -                      | -                       | -           | -                | -               | nd                 | 0.007                 | 0.009                 | nr              | nd                 | 0.076    | nd       | nd       | -        | nd        | nd        | nd      | nd       | -       | -             | -              | -            |              |
|                           | 1/10/1995   | 4.1  | 8.9     | 1.5          | 79              | 94         | -                      | -                      | -                       | -           | -                | -               | nd                 | nd                    | 0.011                 | 0.011           | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 6/24/2002   | 0.49 Q   | <0.68   | 1.7 Q        | 1.6 Q           | 3.8        | 3.6                    | <0.94                  | -                       | -           | -                | -               | -                  | <0.0084               | 0.012                 | 0.012 A         | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 7/2/2003    | 0.87 Q   | 0.60 Q  | 1.7 Q        | 2.0 Q           | 5.2        | 4.0                    | <0.52                  | <0.58                   | -           | -                | -               | -                  | <0.001                | -                     | -               | <0.0081            | 0.063    | <0.00053 | <0.00093 | 0.28     | <0.0013   | <0.000030 | <0.0048 | <0.0011  | <0.047  | -             | -              | 1.4 Q        |              |
|                           | 10/16/2003  | 5.5  | 16      | 20           | 18.9            | 60         | 7.1                    | 0.77 Q                 | <0.58                   | -           | -                | -               | -                  | <0.00048              | -                     | -               | <0.0058            | 0.062    | <0.00041 | <0.0011  | 55 Q     | <0.0012   | <0.000030 | <0.0036 | <0.0038  | 0.059 Q | -             | -              | <0.97        |              |
|                           | 8/3/2004    | 190 K  | 530 K   | 540 K        | 470 K           | 1,670      | 52 K                   | 12 K Q                 | <3.6 K                  | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | 0.028 Q   | -         | -       | -        | -       | -             | -              | -            | -            |
|                           | 10/4/2005   | 550  | 1,700   | 1,100        | 1,620           | 4,970      | 200                    | 60                     | <9.0                    | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            | -            |
| MW606                     | 12/8/1994   | 61   | 19      | 88           | 80              | 248        | -                      | -                      | -                       | -           | -                | -               | 0.032              | 0.62                  | 1.2                   | nr              | nd                 | 0.18     | nd       | nd       | -        | 0.0031    | nd        | nd      | nd       | -       | -             | -              | -            |              |
|                           | 1/11/1995   | 660  | 300     | 340          | 590             | 1,890      | -                      | -                      | -                       | -           | -                | -               | nd                 | 0.033                 | 0.8                   | 0.57            | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 6/24/2002   | 30   | 7.3     | 38           | 29              | 104        | 9.8                    | 3.6                    | -                       | -           | -                | -               | -                  | 0.081                 | 1.5                   | 1.5 A           | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 7/2/2003    | 28   | 9.3     | 43           | 39              | 119        | 14                     | 4.3                    | <0.58                   | -           | -                | -               | -                  | 0.0171                | -                     | -               | <0.0081            | 0.19     | <0.00053 | <0.00093 | 11       | <0.0013   | <0.000030 | <0.0048 | <0.0011  | 0.056 Q | -             | -              | 2.9 Q        |              |
|                           | 10/16/2003  | 38   | 3.9     | 37           | 20.5            | 99         | 3.3                    | 0.86 Q                 | <0.58                   | -           | -                | -               | -                  | 0.0186                | -                     | -               | <0.0058            | 0.38     | <0.00041 | <0.0011  | 16       | <0.0012   | <0.000030 | <0.0036 | <0.0038  | 0.070 Q | -             | -              | 5.4          |              |
| Monitoring Well Abandoned |             |  |         |              |                 |            |                        |                        |                         |             |                  |                 |                    |                       |                       |                 |                    |          |          |          |          |           |           |         |          |         |               |                |              |              |
| MW606R                    | 8/3/2004    | 19 K   | 2.7 K Q | 34 K         | 26 K            | 82         | 29 K                   | 8.9 K                  | <1.8                    | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 10/4/2005   | 1.5  | <0.36   | <0.40        | <0.74           | 1.5        | <0.39                  | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            | -            |
| MW607A                    | 12/8/1994   | 830  | 19      | 1,300        | 320             | 2,469      | -                      | -                      | -                       | -           | -                | -               | nd                 | 0.76                  | 1.1                   | nr              | nd                 | 0.17     | nd       | nd       | -        | nd        | nd        | nd      | nd       | -       | -             | -              | -            |              |
|                           | 1/10/1995   | 1,100  | <100    | 1,400        | 460             | 2,960      | -                      | -                      | -                       | -           | -                | -               | 0.041              | 0.23                  | 1.5                   | 1.1             | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 6/24/2002   | 570  | 19      | 910          | 174             | 1,673      | 110                    | 6.9 Q                  | -                       | 380         | 36               | 8.4 Q           | <2.8               | -                     | 0.042                 | 0.56            | 0.089 A            | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 7/2/2003    | 980  | 28      | 1,500        | 350             | 2,858      | 160                    | 12 Q                   | <5.8                    | -           | -                | -               | -                  | 0.0090                | -                     | -               | <0.0081            | 0.26     | <0.00053 | <0.00093 | 8.1      | <0.0013   | <0.000030 | <0.0048 | <0.0011  | <0.047  | -             | -              | <0.97        |              |
|                           | 10/16/2003  | 560  | 18      | 1,100        | 227             | 1,905      | 140                    | 7.4                    | <1.4                    | -           | -                | -               | -                  | 0.00358               | -                     | -               | <0.0081            | 0.2      | <0.00053 | 0.0036   | 14       | 0.0023    | <0.000030 | <0.0048 | <0.0011  | <0.047  | -             | -              | <0.97        |              |
|                           | 8/4/2004    | 1,000  | 33      | 1,700        | 390             | 3,123      | 270                    | 31                     | <1.8                    | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
| MW607B                    | 12/8/1994   | 8.4  | 1.2     | 2            | 18              | 30         | -                      | -                      | -                       | -           | -                | -               | nd                 | 0.022                 | 0.053                 | nr              | nd                 | 0.058    | 0.0014   | nd       | -        | nd        | nd        | nd      | nd       | -       | -             | -              | -            |              |
|                           | 1/10/1995   | 17   | 3.8     | 11           | 7.8             | 40         | -                      | -                      | -                       | -           | -                | -               | nd                 | nd                    | 0.035                 | 0.035           | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 6/19/1996   | 0.91   | nd      | nd           | nd              | 0.9        | -                      | -                      | -                       | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 6/24/2002   | Unable to sample due to bailer stuck in well.    |         |              |                 |            |                        |                        |                         |             |                  |                 |                    |                       |                       |                 |                    |          |          |          |          |           |           |         |          |         |               |                |              |              |
|                           | 7/2/2003    | Unable to sample due to bailer stuck in well.    |         |              |                 |            |                        |                        |                         |             |                  |                 |                    |                       |                       |                 |                    |          |          |          |          |           |           |         |          |         |               |                |              |              |
| Monitoring Well Abandoned |             |  |         |              |                 |            |                        |                        |                         |             |                  |                 |                    |                       |                       |                 |                    |          |          |          |          |           |           |         |          |         |               |                |              |              |
| MW607BR                   | 8/4/2004    | 590  | 1.8 Q   | 220          | 58              | 870        | 9.5                    | 1.8 Q                  | <0.9                    | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 10/4/2005   | 24   | <0.36   | 8.5          | 4.5 Q           | 37         | 1.2 Q                  | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
| MW608A<br>(OC-2)          | 12/8/1994   | 760  | 9.4     | 34           | 24              | 827        | -                      | -                      | -                       | -           | -                | -               | 0.03               | nd                    | 0.006                 | nr              | nd                 | 0.23     | nd       | nd       | -        | nd        | nd        | nd      | nd       | -       | -             | -              | -            |              |
|                           | 1/10/1995   | 990  | <100    | <100         | <300            | 990        | -                      | -                      | -                       | -           | -                | -               | -                  | 0.024                 | nd                    | 0.01            | 0.01               | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 6/24/2002   | 420  | 2.9 Q   | 22           | 49              | 491        | 15                     | 3.5 Q                  | -                       | -           | -                | -               | -                  | <0.0084               | 0.012                 | <0.0023         | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 7/2/2003    | 2,400  | 7.6 Q   | 180          | 178             | 2,766      | 19 Q                   | <5.2                   | <5.8                    | -           | -                | -               | -                  | <0.0010               | -                     | -               | <0.0058            | 0.079    | <0.00041 | <0.0011  | 5        | <0.0012   | <0.000030 | 0.0028  | <0.0038  | 0.051 Q | -             | -              | <0.97        |              |
|                           | 10/16/2003  | 3,700  | <14     | 290          | 260             | 4,250      | 31 Q                   | <13                    | <14                     | -           | -                | -               | -                  | 0.0032                | -                     | -               | <0.0081            | 0.091    | <0.00053 | 0.003 Q  | 8.5      | <0.0013   | <0.000030 | <0.0048 | <0.0011  | 0.060 Q | -             | -              | <0.97        |              |
|                           | 8/3/2004    | 1,300  | 11      | 650          | 540             | 2,501      | 35                     | 7.7                    | <1.8                    | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 8/3/2004    | 1,300  | 11      | 660          | 560             | 2,531      | 36                     | 8.3 Q                  | <3.6                    | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
| MW608B                    | 10/4/2005   | 6,000  | 37 Q    | 840          | 630             | 7,507      | 47 Q                   | <20                    | <18                     | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 12/8/1994   | 610  | 18      | 180          | 150             | 958        | -                      | -                      | -                       | -           | -                | -               | 0.025              | nd                    | 0.007                 | nr              | nd                 | 0.068    | nd       | nd       | -        | nd        | nd        | nd      | nd       | -       | -             | -              | -            |              |
|                           | 1/10/1995   | 96   | 7.7     | 36           | 86              | 226        | -                      | -                      | -                       | -           | -                | -               | 0.036              | 0.072                 | 1.1                   | 1.1             | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 6/19/1996   | 13   | nd      | 9.6          | 7.2             | 30         | -                      | -                      | -                       | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
|                           | 6/24/2002   | 2.3  | <0.68   | <0.82        | <1.7            | 2.3        | <0.92                  | <0.94                  | -                       | -           | -                | -               | -                  | -                     | <0.0084               | 0.0035 Q        | <0.0023            | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            | -            |
|                           | 7/2/2003    | 2.2  | <0.58   | <0.60        | <1.2            | 2.2        | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | 0.0065                | -                     | -               | <0.0058            | 0.066    | <0.00041 | <0.0011  | <0.018   | <0.0012   | <0.000030 | 0.001 Q | <0.0038  | <0.047  | -             | -              | 1.6 Q        |              |
| 10/16/2003                | 1.7         | <0.58  | <0.60   | <1.2         | 1.7             | <0.66      | <0.52                  | <0.58                  | -                       | -           | -                | -               | 0.0024             | -                     | -                     | <0.0081         | 0.089              | <0.00053 | 0.0042   | 2.4      | 0.0013 Q | <0.000030 | <0.0048   | <0.0011 | 0.065 Q  | -       | -             | <0.97          |              |              |
| 8/3/2004                  | 1.1         | <0.36  | <0.40   | <1.2         | 1.1             | <0.39      | <0.40                  | <0.36                  | -                       | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |
| 10/4/2005                 | 3.1         | <0.36  | <0.40   | <0.74        | 3.1             | <0.39      | <0.40                  | <0.36                  | -                       | -           | -                | -               | -                  | -                     | -                     | -               | -                  | -        | -        | -        | -        | -         | -         | -       | -        | -       | -             | -              | -            |              |



Table 3. Groundwater Analytical Results - BTEX, Cyanide, Phenol, & Metals  
 Wisconsin Public Service Corporation  
 Former Two Rivers Manufactured Gas Plant Site

| Sample Location         | Sample Date | BTEX (µg/L)   |         |              |                 |            | VOCs (µg/L)            |                        |                         |             |                  |                 |                    | Phenol/Cyanide (mg/L) |                      |                 |                    | Metals (mg/L) |        |          |          |      |         |           |          |          |               |                 |               |               |   |   |   |
|-------------------------|-------------|---|---------|--------------|-----------------|------------|------------------------|------------------------|-------------------------|-------------|------------------|-----------------|--------------------|-----------------------|----------------------|-----------------|--------------------|---------------|--------|----------|----------|------|---------|-----------|----------|----------|---------------|-----------------|---------------|---------------|---|---|---|
|                         |             | Benzene   | Toluene | Ethylbenzene | Xylenes (total) | Total BTEX | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Methyl-tert-butyl-ether | Naphthalene | Isopropylbenzene | n-Propylbenzene | p-Isopropyltoluene | Phenol                | Cyanide (disociable) | Cyanide (total) | Cyanide (amenable) | Arsenic       | Barium | Cadmium  | Chromium | Iron | Lead    | Mercury   | Selenium | Silver   | Nitrogen mg/L | Manganese, mg/L | Sulfate, mg/L | Sulfide, mg/L |   |   |   |
|                         |             | Wisconsin Groundwater Quality Standards (NR 140)                                |         |              |                 |            |                        |                        |                         |             |                  |                 |                    |                       |                      |                 |                    |               |        |          |          |      |         |           |          |          |               |                 |               |               |   |   |   |
| Preventive Action Limit |             | 0.5   | 200     | 140          | 1,000           | ns         | 96*                    | 96*                    | 12                      | 8           | ns               | ns              | ns                 | 1.2                   | 0.04                 | ns              | ns                 | 0.001         | 0.4    | 0.0005   | 0.01     | 0.15 | 0.0015  | 0.0002    | 0.01     | 0.01     | 2             | 0.025           | 125           | ns            |   |   |   |
| Enforcement Standard    |             | 5   | 1,000   | 700          | 10,000          | ns         | 480*                   | 480*                   | 60                      | 40          | ns               | ns              | ns                 | 6                     | 0.2                  | ns              | ns                 | 0.01          | 2      | 0.005    | 0.1      | 0.3  | 0.015   | 0.002     | 0.05     | 0.05     | 10            | 0.05            | 250           | ns            |   |   |   |
| MW609A<br>(MW-Z)        | 9/5/1996    | 45  | 3.7     | 4.4          | 52              | 105        | -                      | -                      | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             |   |   |   |
|                         | 10/11/1996  | 31  | 2.3     | 5.9          | 31              | 70         | -                      | -                      | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             |   |   |   |
|                         | 10/11/1996  | 28  | 2.2     | 8.4          | 36              | 75         | -                      | -                      | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             |   |   |   |
|                         | 6/24/2002   | 72  | 2.5     | 24           | 23.6            | 122        | 2.1 Q                  | <0.94                  | -                       | -           | -                | -               | -                  | 0.022                 | 0.2                  | 8.5             | 4.9                | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - |   |   |
|                         | 7/2/2003    | 67  | 2.7     | 31           | 38.9            | 140        | 2.3                    | <0.52                  | <0.58                   | -           | -                | -               | -                  | -                     | 0.024 Q              | 0.73            | 0.045 A            | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
|                         | 10/16/2003  | 51  | 2.3     | 45           | 36.1            | 134        | 2.2 Q                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | -                     | 0.0074               | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
| 8/4/2004                | 35          | 2.1   | 60      | 30.5         | 128             | 2.3        | <0.4                   | <0.36                  | -                       | -           | -                | -               | -                  | <0.00048              | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - |   |   |
| 10/4/2005               | 23          | 2.6   | 110     | 41.2         | 177             | 4.3        | <0.40                  | <0.36                  | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - |   |   |
| MW609 B                 | 9/5/1996    | 56  | 3.7     | 3.7          | 3.7             | 67         | -                      | -                      | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - |   |   |
|                         | 10/11/1996  | 9.6   | nd      | nd           | nd              | 9.6        | -                      | -                      | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - |   |   |
|                         | 6/24/2002   | 1.9   | <0.68   | <0.82        | <1.7            | 1.9        | <0.92                  | <0.94                  | -                       | -           | -                | -               | -                  | -                     | <0.0084              | 0.0068 Q        | 0.73 A             | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
|                         | 7/2/2003    | 0.37 Q  | <0.58   | <0.60        | <1.2            | 0.4        | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | -                     | <0.0010              | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
|                         | 10/16/2003  | <0.30   | <0.58   | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | -                     | 0.00392              | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
|                         | 8/4/2004    | <0.14   | <0.36   | <0.40        | <1.2            | nd         | <0.39                  | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
| 10/4/2005               | <0.14       | <0.36   | <0.40   | <0.74        | nd              | <0.39      | <0.40                  | <0.36                  | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - |   |   |
| MW610<br>(QC-1)         | 9/5/1996    | nd  | nd      | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - |   |   |
|                         | 10/11/1996  | nd  | nd      | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - |   |   |
|                         | 6/24/2002   | Well not sampled - Located on US Oil property and access could not be obtained. |         |              |                 |            |                        |                        |                         |             |                  |                 |                    |                       |                      |                 |                    |               |        |          |          |      |         |           |          |          |               |                 |               |               |   |   |   |
|                         | 10/30/2002  | <0.25   | <0.84   | <0.53        | <1.9            | nd         | <0.69                  | <0.64                  | -                       | -           | -                | -               | -                  | -                     | <0.0027              | 0.0030 Q        | 0.0030 Q           | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
|                         | 7/2/2003    | <0.30   | <0.58   | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | -                     | 0.0038               | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - | - |
|                         | 7/2/2003    | <0.30   | <0.58   | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | -                     | 0.0017               | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - | - |
| 10/16/2003              | <0.30       | <0.58   | <0.60   | <1.2         | nd              | <0.66      | <0.52                  | <0.58                  | -                       | -           | -                | -               | -                  | 0.00106               | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
| 8/4/2004                | <0.14       | <0.36   | <0.40   | <1.2         | nd              | <0.39      | <0.40                  | <0.36                  | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
| 10/4/2005               | <0.14       | <0.36   | <0.40   | <0.74        | nd              | <0.39      | <0.40                  | <0.36                  | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
| MW611<br>(QC-2)         | 9/5/1996    | nd  | nd      | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - |   |   |
|                         | 10/11/1996  | nd  | nd      | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
|                         | 6/24/2002   | Well not sampled - Located on US Oil property and access could not be obtained. |         |              |                 |            |                        |                        |                         |             |                  |                 |                    |                       |                      |                 |                    |               |        |          |          |      |         |           |          |          |               |                 |               |               |   |   |   |
|                         | 10/30/2002  | <0.25   | <0.84   | <0.53        | <1.9            | nd         | <0.69                  | <0.64                  | -                       | -           | -                | -               | -                  | -                     | <0.0027              | <0.0027         | <0.0027            | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - | - |
|                         | 7/2/2003    | <0.30   | <0.58   | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | -                     | 0.0104               | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - | - |
|                         | 7/2/2003    | <0.30   | <0.58   | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | -                     | <0.0010              | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - | - |
| 10/16/2003              | <0.30       | <0.58   | <0.60   | <1.2         | nd              | <0.66      | <0.52                  | <0.58                  | -                       | -           | -                | -               | -                  | 0.00072               | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
| 8/4/2004                | <0.14       | <0.36   | <0.40   | <1.2         | nd              | <0.39      | <0.40                  | <0.36                  | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
| 10/4/2005               | <0.14       | <0.36   | <0.40   | <0.74        | nd              | <0.39      | <0.40                  | <0.36                  | -                       | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
| MW612                   | 8/4/2004    | 4.3   | <0.67   | <0.54        | <2.63           | 4.3        | <0.97                  | <0.83                  | <0.61                   | 3           | 2.8              | 6.2             | <0.67              | -                     | -                    | -               | -                  | 0.0037 Q      | 0.38   | <0.00028 | <0.00052 | 7.9  | <0.0015 | <0.000028 | 0.0018   | <0.00057 | <0.063        | 7.4             | 24            | -             | - |   |   |
|                         | 10/4/2005   | 1.2   | <0.36   | 0.47 Q       | 0.87 Q          | 2.5        | 0.57 Q                 | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |
| MW613                   | 8/4/2004    | <0.41   | <0.67   | <0.54        | <2.63           | nd         | <0.97                  | <0.83                  | <0.61                   | <0.74       | <0.59            | <0.81           | <0.67              | -                     | -                    | -               | -                  | <0.0035       | 0.12   | <0.0003  | 0.99 Q   | 5.8  | <0.0011 | <0.000028 | <0.0048  | <0.00076 | <0.063        | 4.4             | 0.97 Q        | -             | - |   |   |
|                         | 10/4/2005   | <0.14   | <0.36   | <0.40        | <1.1            | nd         | <0.39                  | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                     | -                    | -               | -                  | -             | -      | -        | -        | -    | -       | -         | -        | -        | -             | -               | -             | -             | - | - |   |



Table 3. Groundwater Analytical Results - BTEX, Cyanide, Phenol, & Metals  
 Wisconsin Public Service Corporation  
 Former Two Rivers Manufactured Gas Plant Site

| Sample Location         | Sample Date | BTEX (µg/L)                                      |              |              |                 |            | VOCs (µg/L)            |                        |                         |             |                  |                 |                    | Pheno/Cyanide (mg/L) |                       |                 | Metals (mg/L)      |              |            |               |             |             |               |               |             |             |               |                 |               |               |
|-------------------------|-------------|--|--------------|--------------|-----------------|------------|------------------------|------------------------|-------------------------|-------------|------------------|-----------------|--------------------|----------------------|-----------------------|-----------------|--------------------|--------------|------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|-----------------|---------------|---------------|
|                         |             | Benzene  | Toluene      | Ethylbenzene | Xylenes (total) | Total BTEX | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Methyl-tert-butyl-ether | Naphthalene | Isopropylbenzene | n-Propylbenzene | p-Isopropyltoluene | Phenols              | Cyanide (dissociable) | Cyanide (total) | Cyanide (amenable) | Arsenic      | Barium     | Cadmium       | Chromium    | Iron        | Lead          | Mercury       | Selenium    | Silver      | Nitrogen mg/L | Manganese, mg/L | Sulfate, mg/L | Sulfide, mg/L |
|                         |             | Wisconsin Groundwater Quality Standards (NR 140) |              |              |                 |            |                        |                        |                         |             |                  |                 |                    |                      |                       |                 |                    |              |            |               |             |             |               |               |             |             |               |                 |               |               |
| Preventive Action Limit |             | <u>0.5</u>                                       | <u>200</u>   | <u>140</u>   | <u>1,000</u>    | ns         | <u>96*</u>             | <u>96*</u>             | <u>12</u>               | <u>8</u>    | ns               | ns              | ns                 | <u>1.2</u>           | <u>0.04</u>           | ns              | ns                 | <u>0.001</u> | <u>0.4</u> | <u>0.0005</u> | <u>0.01</u> | <u>0.15</u> | <u>0.0015</u> | <u>0.0002</u> | <u>0.01</u> | <u>0.01</u> | <u>2</u>      | <u>0.025</u>    | <u>125</u>    | ns            |
| Enforcement Standard    |             | <u>5</u>   | <u>1,000</u> | <u>700</u>   | <u>10,000</u>   | ns         | <u>480*</u>            | <u>480*</u>            | <u>60</u>               | <u>40</u>   | ns               | ns              | ns                 | <u>5</u>             | <u>0.2</u>            | ns              | ns                 | <u>0.01</u>  | <u>2</u>   | <u>0.005</u>  | <u>0.1</u>  | <u>0.3</u>  | <u>0.015</u>  | <u>0.002</u>  | <u>0.05</u> | <u>0.05</u> | <u>10</u>     | <u>0.05</u>     | <u>250</u>    | ns            |
| Trip Blank              | 12/8/1994   | nd   | nd           | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -            | -          | -             | -           | -           | -             | -             | -           | -           | -             | -               | -             | -             |
|                         | 1/11/1995   | nd   | nd           | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -            | -          | -             | -           | -           | -             | -             | -           | -           | -             | -               | -             | -             |
|                         | 6/19/1996   | nd   | nd           | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -            | -          | -             | -           | -           | -             | -             | -           | -           | -             | -               | -             | -             |
|                         | 9/5/1996    | nd   | nd           | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -            | -          | -             | -           | -           | -             | -             | -           | -           | -             | -               | -             | -             |
|                         | 10/11/1996  | nd   | nd           | nd           | nd              | nd         | -                      | -                      | -                       | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -            | -          | -             | -           | -           | -             | -             | -           | -           | -             | -               | -             | -             |
|                         | 7/2/2003    | <0.30  | <0.58        | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -            | -          | -             | -           | -           | -             | -             | -           | -           | -             | -               | -             | -             |
|                         | 10/16/2003  | <0.30  | <0.58        | <0.60        | <1.2            | nd         | <0.66                  | <0.52                  | <0.58                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -            | -          | -             | -           | -           | -             | -             | -           | -           | -             | -               | -             | -             |
|                         | 8/3/2004    | <0.41  | <0.67        | <0.54        | <2.63           | nd         | <0.97                  | <0.83                  | <0.61                   | <0.74       | <0.59            | <0.81           | <0.67              | -                    | -                     | -               | -                  | -            | -          | -             | -           | -           | -             | -             | -           | -           | -             | -               | -             | -             |
|                         | 10/4/2005   | <0.14  | <0.36        | <0.40        | <0.74           | nd         | <0.39                  | <0.40                  | <0.36                   | -           | -                | -               | -                  | -                    | -                     | -               | -                  | -            | -          | -             | -           | -           | -             | -             | -           | -           | -             | -               | -             | -             |

(O-JTB/C-EPK/PAH 8/02, 12/02, 2/03)(U-JMK/PAR 10/03)(U-PAR/HMS 11/03)(U-HMS/GRL 8/26/04)(U-HMS/PAR 10/05)

Notes:

VOCs : Volatile Organic Compounds.

Cyanide: Dissociable cyanide analyzed by Method OIA-1677 in July and October 2003.

1) Concentrations equaling/exceeding the enforcement standard (ES) are shown in bold.

2) Concentrations equaling/exceeding the preventive action limit (PAL) are italicized.

µg/L : Micrograms per liter

mg/L : Milligrams per liter

- : Analysis was not performed

nd : Analysis was not detected.

<0.30 : Analyte not detected above method detection limit shown for parameter.

ns : NR140 ES or PAL standards have not been established.

(MW-B) : Field duplicate sample with field identity shown in parentheses

Q: Analyte detected between the limit of detection (LOD) and limit of quantitation (LOQ).

K: Detection limit may be elevated due to the presence of an unrequested analyte

A: Analyte present in method blank at 0.0029 mg/L.

\*: Quality standards for Trimethylbenzenes combined.





Table 4. Groundwater Analytical Results - PAHs  
 Wisconsin Public Service Corporation  
 Former Two Rivers Manufactured Gas Plant Site

| Sample Location   | Sample Date | PAHs (µg/L)                                 |                |              |                   |                |                      |                   |                      |                |                       |              |            |                          |                     |                     |              |              |            |            |
|---|-------------|---|----------------|--------------|-------------------|----------------|----------------------|-------------------|----------------------|----------------|-----------------------|--------------|------------|--------------------------|---------------------|---------------------|--------------|--------------|------------|------------|
|   |             | Acenaphthene                                | Acenaphthylene | Anthracene   | Benz(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(gh)perylene | Benzo(k)fluoranthene | Chrysene       | Dibenz(a,h)anthracene | Fluoranthene | Fluorene   | Indeno (1,2,3-cd) pyrene | 1-Methylnaphthalene | 2-Methylnaphthalene | Naphthalene  | Phenanthrene | Pyrene     | Total PAHs |
| <b>Wisconsin Groundwater Quality Standards (NR 140)</b> |             |   |                |              |                   |                |                      |                   |                      |                |                       |              |            |                          |                     |                     |              |              |            |            |
| <i>Preventive Action Limit</i>                          |             | <i>ns</i>                                   | <i>0.5</i>     | <i>600</i>   | <i>ns</i>         | <i>0.02</i>    | <i>0.02</i>          | <i>ns</i>         | <i>ns</i>            | <i>0.02</i>    | <i>ns</i>             | <i>80</i>    | <i>80</i>  | <i>ns</i>                | <i>ns</i>           | <i>ns</i>           | <i>8</i>     | <i>ns</i>    | <i>50</i>  | <i>ns</i>  |
| <b>Enforcement Standard</b>                             |             | <b>ns</b>                                   | <b>5</b>       | <b>3,000</b> | <b>ns</b>         | <b>0.2</b>     | <b>0.2</b>           | <b>ns</b>         | <b>ns</b>            | <b>0.2</b>     | <b>ns</b>             | <b>400</b>   | <b>400</b> | <b>ns</b>                | <b>ns</b>           | <b>ns</b>           | <b>40</b>    | <b>ns</b>    | <b>250</b> | <b>ns</b>  |
| MW601   | 12/8/1994   | nd  | nd             | nd           | nd                | nd             | nd                   | nd                | nd                   | nd             | nd                    | nd           | nd         | nd                       | --                  | --                  | nd           | nd           | nd         | nd         |
|   | 1/11/1995   | nd  | nd             | nd           | nd                | nd             | nd                   | nd                | nd                   | nd             | nd                    | nd           | nd         | nd                       | --                  | --                  | nd           | nd           | nd         | nd         |
|   | 6/24/2002   | <0.018                                      | <0.023         | <0.020       | <0.019            | 0.014 Q        | <0.014               | <0.015            | <0.013               | <0.018         | <0.017                | <0.028       | <0.021     | <0.014                   | <0.027              | <0.028              | <0.027       | <0.019       | <0.020     | nd         |
|   | 7/2/2003    | <0.018                                      | <0.019         | <0.020       | 0.016 Q           | 0.015 Q        | <0.013               | 0.020 Q           | <0.019               | <u>0.022 Q</u> | <0.016                | 0.021 Q      | <0.017     | <0.021                   | <0.018              | 0.021 Q             | 0.038 Q      | 0.020 Q      | 0.032 Q    | 0.2        |
|   | 10/16/2003  | Unable to sample due to bent riser section. |                |              |                   |                |                      |                   |                      |                |                       |              |            |                          |                     |                     |              |              |            |            |
| <b>Monitoring Well Abandoned</b>                        |             |   |                |              |                   |                |                      |                   |                      |                |                       |              |            |                          |                     |                     |              |              |            |            |
| MW601R  | 8/3/2004    | 0.047 Q                                     | 0.047 Q        | 0.034 Q      | 0.038 Q           | <u>0.051 Q</u> | <u>0.026 Q</u>       | 0.042 Q           | 0.028 Q              | <u>0.043 Q</u> | <0.022                | 0.053 Q      | 0.028 Q    | 0.023 Q                  | 0.13                | 0.19                | 0.14         | 0.09         | 0.095      | 1.1        |
|   | 10/4/2005   | <0.0082                                     | <0.0081        | <0.012       | <0.016            | <0.018         | <0.016Z              | <0.019            | <0.019Z              | <0.019         | <0.019                | <0.015       | <0.0091    | <0.019                   | <0.010              | 0.017 Q             | <0.047       | <0.011       | 0.016 Q    | 0.03       |
| (QA/QC-1)<br>MW602                                      | 12/8/1994   | nd  | nd             | nd           | nd                | nd             | nd                   | nd                | nd                   | nd             | nd                    | nd           | nd         | nd                       | --                  | --                  | nd           | nd           | nd         | nd         |
|   | 1/11/1995   | nd  | nd             | nd           | nd                | nd             | nd                   | nd                | nd                   | nd             | nd                    | nd           | nd         | nd                       | --                  | --                  | nd           | nd           | nd         | nd         |
|   | 6/24/2002   | <0.018                                      | <0.023         | <0.020       | <0.019            | <0.012         | <0.014               | <0.015            | <0.013               | <0.018         | <0.017                | <0.028       | <0.021     | <0.014                   | <0.027              | <0.028              | <0.027       | <0.019       | <0.020     | nd         |
|   | 6/24/2002   | <0.018                                      | <0.023         | <0.020       | <0.019            | <0.012         | <0.014               | <0.015            | <0.013               | <0.018         | <0.017                | <0.028       | <0.021     | <0.014                   | <0.027              | <0.028              | 0.027 Q      | <0.019       | <0.020     | 0.03       |
|   | 7/2/2003    | <0.018                                      | <0.019         | <0.020       | <0.012            | <0.014         | <0.013               | <0.016            | <0.019               | <0.014         | <0.016                | <0.013       | <0.017     | <0.021                   | <0.018              | 0.019 Q             | 0.038 Q      | <0.016       | <0.017     | 0.06       |
|   | 10/16/2003  | <0.018                                      | <0.019         | <0.020       | <0.012            | <0.014         | <0.013               | <0.016            | <0.019               | <0.014         | <0.016                | <0.013       | <0.017     | <0.021                   | 0.025 Q             | <0.017              | <0.024       | <0.016       | <0.017     | 0.03       |
|   | 8/3/2004    | <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     | nd         |
| 10/4/2005   | <0.0082     | <0.0081                                     | 0.014 Q        | <0.016       | <0.018            | <0.016Z        | <0.019               | <0.019Z           | <0.019               | <0.019         | <0.015                | <0.0091      | <0.019     | <0.010                   | 0.022 Q             | 0.056 Q             | <0.011       | <0.015       | 0.09       |            |
| (MW-6D)<br>MW603A<br>(QC-1)                             | 12/8/1994   | nd  | nd             | 5            | 1.2               | <u>0.32</u>    | <u>0.15</u>          | nd                | nd                   | <u>2.2</u>     | nd                    | 7.6          | 42         | nd                       | --                  | --                  | <u>500</u>   | 31           | 2.2        | 592        |
|   | 1/11/1995   | 70  | nd             | 2.5          | 1.3               | <u>0.24</u>    | <u>0.03</u>          | 0.56              | nd                   | <u>0.39</u>    | nd                    | 7.3          | 10         | 0.14                     | --                  | --                  | <u>230</u>   | 15           | 4          | 341        |
|   | 1/11/1995   | 44  | nd             | 1.7          | 0.57              | <u>0.2</u>     | nd                   | nd                | nd                   | <u>0.13</u>    | nd                    | 4.1          | 6.8        | nd                       | --                  | --                  | <u>230</u>   | 11           | 1.8        | 300        |
|   | 6/24/2002   | 39 Q,D                                      | <u>5.2</u>     | 4.1          | <1.1              | <0.72          | <0.84                | <0.90             | <0.78                | <1.1           | <1.0                  | <1.7         | 18         | <0.84                    | 130 D               | 24                  | <u>360 D</u> | 18           | <1.2       | 598        |
|   | 7/2/2003    | 36 Q  | <19            | <20          | <12               | <14            | <13                  | <16               | <19                  | <14            | <16                   | <13          | <17        | <21                      | 100                 | 19 Q                | <u>280</u>   | 18 Q         | <17        | 453        |
|   | 10/16/2003  | 25  | <4.8           | <5.0         | <3.0              | <3.5           | <3.2                 | <4.0              | <4.8                 | <3.5           | <4.0                  | <3.2         | 12 Q       | <5.2                     | 56                  | 6.8 Q               | <u>120</u>   | 11 Q         | <4.2       | 231        |
|   | 10/16/2003  | 28  | <u>3.8 Q</u>   | 3.1 Q        | <1.2              | <1.4           | <1.3                 | <1.6              | <1.9                 | <1.4           | <1.6                  | 1.8 Q        | 14         | <2.1                     | 58 D                | 7.0                 | <u>120 D</u> | 9.8          | 2.7 Q      | 248        |
|   | 8/3/2004    | 26 Q  | <15            | <14          | <16               | <14            | <14                  | <17               | <15                  | <13            | <18                   | <13          | <17        | <14                      | 77                  | <18                 | <u>200</u>   | <16          | <13        | 303        |
| 10/4/2005   | 6.1         | <u>0.76 Q</u>                               | 0.47 Q         | <0.62        | <0.73             | <0.63          | <0.77                | <0.77             | <0.76                | <0.75          | <0.62                 | 2.4          | <0.75      | 16                       | <0.45               | <u>11</u>           | 1.8          | <0.58        | 39         |            |

Table 4. Groundwater Analytical Results - PAHs  
 Wisconsin Public Service Corporation  
 Former Two Rivers Manufactured Gas Plant Site

| Sample Location                                  | Sample Date | PAHs (µg/L)                                 |                  |                 |                   |                 |                      |                      |                      |                 |                       |                 |                 |                          |                     |                     |                  |              |                  |            |
|--|-------------|---|------------------|-----------------|-------------------|-----------------|----------------------|----------------------|----------------------|-----------------|-----------------------|-----------------|-----------------|--------------------------|---------------------|---------------------|------------------|--------------|------------------|------------|
|  |             | Acenaphthene                                | Acenaphthylene   | Anthracene      | Benz(a)anthracene | Benzo(a)pyrene  | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene        | Dibenz(a,h)anthracene | Fluoranthene    | Fluorene        | Indeno (1,2,3-cd) pyrene | 1-Methylnaphthalene | 2-Methylnaphthalene | Naphthalene      | Phenanthrene | Pyrene           | Total PAHs |
| Wisconsin Groundwater Quality Standards (NR 140) |             |   |                  |                 |                   |                 |                      |                      |                      |                 |                       |                 |                 |                          |                     |                     |                  |              |                  |            |
| Preventive Action Limit                          |             | ns  | <u>0.5</u>       | <u>600</u>      | ns                | <u>0.02</u>     | <u>0.02</u>          | ns                   | ns                   | <u>0.02</u>     | ns                    | <u>80</u>       | <u>80</u>       | ns                       | ns                  | ns                  | <u>8</u>         | ns           | <u>50</u>        | ns         |
| Enforcement Standard                             |             | ns  | <u>5</u>         | <u>3,000</u>    | ns                | <u>0.2</u>      | <u>0.2</u>           | ns                   | ns                   | <u>0.2</u>      | ns                    | <u>400</u>      | <u>400</u>      | ns                       | ns                  | ns                  | <u>40</u>        | ns           | <u>250</u>       | ns         |
| MW603B (MW-A)                                    | 12/8/1994   | nd  | nd               | 0.91            | nd                | nd              | nd                   | nd                   | nd                   | nd              | nd                    | 0.63            | 0.91            | nd                       | --                  | --                  | 6                | 0.62         | nd               | 9.1        |
|  | 12/8/1994   | nd  | nd               | nd              | nd                | nd              | nd                   | nd                   | nd                   | nd              | nd                    | 0.63            | 0.89            | nd                       | --                  | --                  | 6.9              | 1.8          | nd               | 10         |
|  | 1/11/1995   | nd  | nd               | nd              | 0.12              | nd              | nd                   | nd                   | nd                   | <u>0.11</u>     | nd                    | nd              | nd              | nd                       | --                  | --                  | nd               | nd           | 0.53             | 0.8        |
| (QA/QC-2)  | 6/24/2002   | 0.029 Q                                     | <0.023           | <0.020          | 0.054 Q           | 0.019 Q         | <u>0.020 Q</u>       | 0.015 Q              | 0.013 Q              | <u>0.045 Q</u>  | <0.017                | 0.072 Q         | 0.033 Q         | <0.014                   | 0.069 Q             | 0.032 Q             | 0.21             | 0.08         | 0.13             | 0.8        |
|  | 6/24/2002   | 0.025 Q                                     | 0.050 Q          | 0.028 Q         | 0.085             | <u>0.031 Q</u>  | <u>0.033 Q</u>       | 0.023 Q              | 0.022 Q              | <u>0.072</u>    | <0.017                | 0.10            | 0.038 Q         | 0.016 Q                  | 0.063 Q             | 0.074 Q             | 0.18             | 0.1          | 0.17             | 1.1        |
|  | 7/2/2003    | 0.018 Q                                     | <0.019           | <0.020          | 0.025 Q           | <0.014          | 0.016 Q              | <0.016               | <0.019               | <u>0.027 Q</u>  | <0.016                | 0.036 Q         | <0.017          | <0.021                   | 0.041 Q             | <0.017              | 0.088            | 0.043 Q      | 0.066            | 0.4        |
| (QC-2)   | 10/16/2003  | 0.026 Q                                     | 0.037 Q          | 0.024 Q         | 0.069             | <u>0.041 Q</u>  | <u>0.040 Q</u>       | 0.041 Q              | 0.038 Q              | <u>0.081</u>    | <0.016                | 0.075           | 0.034 Q         | 0.028 Q                  | 0.024 Q             | <0.017              | 0.071 Q          | 0.078        | 0.13             | 0.8        |
|  | 10/16/2003  | 0.039 Q                                     | 0.025 Q          | <0.020          | 0.039 Q           | <u>0.025 Q</u>  | <u>0.023 Q</u>       | 0.026 Q              | 0.022 Q              | <u>0.048</u>    | <0.016                | 0.050           | 0.027 Q         | 0.022 Q                  | 0.059 Q             | <0.017              | 0.094            | 0.064        | 0.088            | 0.7        |
|  | 8/3/2004    | 0.023 Q                                     | 0.060 Q          | 0.035 Q         | 0.12              | <u>0.055 Q</u>  | <u>0.053 Q</u>       | 0.054 Q              | 0.048 Q              | <u>0.11</u>     | <0.022                | 0.100           | 0.024 Q         | 0.034 Q                  | 0.081               | 0.092               | 0.29             | 0.095        | 0.21             | 1.5        |
|  | 10/4/2005   | 0.026 Q                                     | 0.036 Q          | <0.023          | <0.031            | <0.037          | <0.031Z              | <0.039               | <0.039Z              | <0.038          | <0.038                | <0.031          | <0.018          | <0.038                   | 0.072               | 0.066 Q             | 0.68             | <0.023       | <0.029           | 0.9        |
| MW604  | 12/8/1994   | 76  | nd               | 22              | 13                | <u>10</u>       | <u>2.6</u>           | 9                    | 4.6                  | <u>7.3</u>      | nd                    | 52              | 120             | 4.6                      | --                  | --                  | <u>1,300</u>     | 160          | 12               | 1,793      |
|  | 1/11/1995   | 71  | nd               | nd              | 12                | <u>9.3</u>      | <u>1.2</u>           | 8.6                  | 3.3                  | <u>7.4</u>      | 1.1                   | 58              | 78              | 3.7                      | --                  | --                  | <u>1,200</u>     | 120          | 36               | 1,610      |
|  | 6/24/2002   | 58  | <12              | 41              | 11 Q              | <u>6.9 Q</u>    | <7.0                 | <7.5                 | <6.5                 | <u>11 Q</u>     | <8.5                  | 38 Q            | 37              | <7.0                     | 22 Q                | <14                 | <14              | 130          | <u>56</u>        | 411        |
|  | 7/2/2003    | 89  | <9.5             | 15 Q            | <6.0              | <7.0            | <6.5                 | <8.0                 | <9.5                 | <u>7.6 Q</u>    | <8.0                  | 15 Q            | 44              | <10                      | 220                 | 15 Q                | <u>150</u>       | 75           | 26 Q             | 657        |
|  | 10/16/2003  | 79 D  | <u>11</u>        | 23              | 10                | <u>9.4</u>      | <u>3.7 Q</u>         | 5.1 Q                | 4.8 Q                | <u>9.4</u>      | <1.6                  | 21              | 44 D            | 3.4 Q                    | 180 D               | 11                  | <u>12</u>        | 69 D         | 30               | 526        |
|  | 8/3/2004    | 64  | <9.7             | 27 Q            | <9.8              | <9.1            | <8.9                 | <10                  | <9.7                 | <8.2            | <11                   | 15 Q            | 39              | <8.5                     | 110                 | 19 Q                | <u>17 Q</u>      | 52           | 22 Q             | 350        |
| (QC01)   | 10/4/2005   | 31  | <u>2.0 Q</u>     | 4.0 Q           | <3.1              | <3.7            | <3.1Z                | <3.9                 | <3.9Z                | <3.8            | <3.8                  | <3.1            | 15              | <3.8                     | 78                  | 3.4 Q               | <u>84</u>        | 15           | 3.0 Q            | 235        |
|  | 10/4/2005   | 25  | <u>1.4 Q</u>     | 5.3             | <1.6              | <1.8            | <1.6Z                | <1.9                 | <1.9Z                | <1.9            | <1.9                  | 2.6 Q           | 14              | <1.9                     | 59 D                | <4.7                | <u>75 D</u>      | 21           | 3.5 Q            | 207        |
| MW605A (MW-B)                                    | 12/8/1994   | 37  | nd               | 57              | 96                | <u>92</u>       | <u>21</u>            | 74                   | 27                   | <u>46</u>       | nd                    | <u>460</u>      | <u>460</u>      | 34                       | --                  | --                  | <u>1,500</u>     | 540          | 42               | 3,486      |
|  | 12/8/1994   | nd  | nd               | 25              | 27                | <u>21</u>       | <u>4.7</u>           | 17                   | 6.2                  | <u>10</u>       | nd                    | <u>120</u>      | <u>160</u>      | 8.2                      | --                  | --                  | <u>1,700</u>     | 200          | 8.5              | 2,308      |
| (MW-6C)  | 1/10/1995   | nd  | nd               | 15              | 54                | <u>43</u>       | <u>12</u>            | 38                   | 12                   | <u>34</u>       | 4.6                   | <u>320</u>      | <u>200</u>      | 16                       | --                  | --                  | <u>2,300</u>     | 240          | <u>300</u>       | 3,589      |
|  | 1/10/1995   | 59  | nd               | 5.6             | 2.6               | <u>1.6</u>      | <u>0.48</u>          | 1.5                  | 0.51                 | <u>1.6</u>      | nd                    | 19              | <u>69</u>       | 0.63                     | --                  | --                  | <u>1,800</u>     | 52           | 9.3              | 2,023      |
|  | 6/24/2002   | 45 Q  | <u>93</u>        | 77              | 66                | <u>46</u>       | <u>36 Q</u>          | 29 Q                 | 33 Q                 | <u>64</u>       | <17                   | <u>130</u>      | <u>110</u>      | 23 Q                     | 270                 | <28                 | <u>97</u>        | 280          | <u>160</u>       | 1,559      |
|  | 7/2/2003    | Unable to sample due to bent riser section. |                  |                 |                   |                 |                      |                      |                      |                 |                       |                 |                 |                          |                     |                     |                  |              |                  |            |
|  | 10/16/2003  | Unable to sample due to bent riser section. |                  |                 |                   |                 |                      |                      |                      |                 |                       |                 |                 |                          |                     |                     |                  |              |                  |            |
| Monitoring Well Abandoned                        |             |   |                  |                 |                   |                 |                      |                      |                      |                 |                       |                 |                 |                          |                     |                     |                  |              |                  |            |
| MW605AR (QC-1)                                   | 8/3/2004    | 24,000 Q                                    | <u>82,000</u>    | <u>48,000</u>   | 18,000 Q          | <u>14,000 Q</u> | <8,900               | <10,000              | <9,700               | <u>21,000 Q</u> | <11,000               | <u>40,000</u>   | <u>49,000</u>   | <8,500                   | 110,000             | 160,000             | <u>310,000</u>   | 110,000      | <u>62,000</u>    | 1,048,000  |
|  | 8/3/2004    | <680  | <u>1,800</u>     | <u>1,300 Q</u>  | <690              | <630            | <630                 | <720                 | <680                 | <570            | <770                  | <u>740 Q</u>    | <u>930 Q</u>    | <600                     | 2,600               | 3,300               | <u>11,000</u>    | 1,900 Q      | <u>1,100 Q</u>   | 24,670     |
|  | 10/4/2005   | 44,000QD                                    | <u>140,000 D</u> | <u>71,000QD</u> | 45,000 E          | <u>33,000 E</u> | <u>16,000 EZ</u>     | 15,000 E             | 16,000 EZ            | <u>36,000 E</u> | 3,900                 | <u>76,000QD</u> | <u>78,000QD</u> | 12,000 E                 | 220,000 D           | 290,000 D           | <u>610,000 D</u> | 250,000 D    | <u>110,000QD</u> | 2,065,900  |
| (QC02)   | 10/4/2005   | 3,400QD                                     | <u>11,000 D</u>  | <u>6,200QD</u>  | 3,700 E           | <u>2,700 E</u>  | <u>1,200 EZ</u>      | 1,200 E              | 1,300 EZ             | <u>2,900 E</u>  | 310                   | <u>5,900QD</u>  | <u>5,900QD</u>  | 920                      | 20,000 D            | 22,000QD            | <u>50,000 D</u>  | 19,000 D     | <u>8,700QD</u>   | 166,330    |



**Table 4. Groundwater Analytical Results - PAHs**  
**Wisconsin Public Service Corporation**  
**Former Two Rivers Manufactured Gas Plant Site**

| Sample Location   | Sample Date                                   | PAHs (µg/L)                                   |                |              |                   |                |                      |                    |                      |               |                       |              |            |                          |                     |                     |                |              |            |   |
|---|---|---|----------------|--------------|-------------------|----------------|----------------------|--------------------|----------------------|---------------|-----------------------|--------------|------------|--------------------------|---------------------|---------------------|----------------|--------------|------------|---|
|   |   | Acenaphthene                                  | Acenaphthylene | Anthracene   | Benz(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(ghi)perylene | Benzo(k)fluoranthene | Chrysene      | Dibenz(a,h)anthracene | Fluoranthene | Fluorene   | Indeno (1,2,3-cd) pyrene | 1-Methylnaphthalene | 2-Methylnaphthalene | Naphthalene    | Phenanthrene | Pyrene     | Total PAHs                                    |
| <b>Wisconsin Groundwater Quality Standards (NR 140)</b> |   |   |                |              |                   |                |                      |                    |                      |               |                       |              |            |                          |                     |                     |                |              |            |   |
| <i>Preventive Action Limit</i>                          |   | <i>ns</i>                                     | <i>0.5</i>     | <i>600</i>   | <i>ns</i>         | <i>0.02</i>    | <i>0.02</i>          | <i>ns</i>          | <i>ns</i>            | <i>0.02</i>   | <i>ns</i>             | <i>80</i>    | <i>80</i>  | <i>ns</i>                | <i>ns</i>           | <i>ns</i>           | <i>8</i>       | <i>ns</i>    | <i>50</i>  | <i>ns</i>                                     |
| <b>Enforcement Standard</b>                             |   | <b>ns</b>                                     | <b>5</b>       | <b>3,000</b> | <b>ns</b>         | <b>0.2</b>     | <b>0.2</b>           | <b>ns</b>          | <b>ns</b>            | <b>0.2</b>    | <b>ns</b>             | <b>400</b>   | <b>400</b> | <b>ns</b>                | <b>ns</b>           | <b>ns</b>           | <b>40</b>      | <b>ns</b>    | <b>250</b> | <b>ns</b>                                     |
| MW605B  | 12/8/1994                                     | 640   | nd             | 12           | 2.3               | <u>0.44</u>    | nd                   | nd                 | 4.8                  | nd            | nd                    | 12           | <u>130</u> | nd                       | --                  | --                  | <u>1,300</u>   | 73           | nd         | 2,175   |
|   | 1/10/1995                                     | nd  | nd             | nd           | nd                | nd             | nd                   | nd                 | nd                   | <u>0.12</u>   | nd                    | nd           | nd         | nd                       | --                  | --                  | nd             | nd           | 0.34       | 0.5   |
|   | 6/24/2002                                     | 4.5   | <u>1.2 Q</u>   | 2.4          | 1.1 Q             | <u>0.65 Q</u>  | <u>0.30 Q</u>        | <0.30              | 0.30 Q               | <u>0.83 Q</u> | <0.34                 | 2.8          | 0.45 Q     | <0.28                    | 2.5                 | 0.68 Q              | 2.8            | 5.3          | 3.5        | 29  |
|   | 7/2/2003                                      | 3.9   | <u>0.59 Q</u>  | 0.26 Q       | 0.18 Q            | <0.14          | <0.13                | <0.16              | <0.19                | <u>0.19 Q</u> | <0.16                 | 0.66         | 0.25 Q     | <0.21                    | 0.61                | <0.17               | <0.24          | 0.24 Q       | 1.0        | 7.9   |
|   | 10/16/2003                                    | 3.0 D   | <0.76 D        | 0.49         | 0.12              | <u>0.063</u>   | <u>0.030 Q</u>       | 0.037 Q            | 0.034 Q              | <u>0.11</u>   | <0.016                | 0.42         | 0.47       | 0.024 Q                  | 2.3 Q,D             | 0.75 Q,D            | 7.6 D          | 0.82 Q,D     | <0.68 D    | 16  |
|   | 8/3/2004                                      | 7.2 Q   | <u>6.2 Q</u>   | <2.8         | <3.1              | <2.9           | <2.9                 | <3.3               | <3.1                 | <2.6          | <3.5                  | <2.6         | <3.5       | <2.7                     | 12                  | 25                  | <u>19</u>      | <3.3         | <2.6       | 69  |
|   | 10/4/2005                                     | 38  | <u>60</u>      | <2.3         | <3.1              | <3.7           | <3.1Z                | <3.9               | <3.9Z                | <3.8          | <3.8                  | <3.1         | 11         | <3.8                     | 200 D               | 190 D               | <u>1,400 D</u> | 5.8 Q        | <2.9       | 1,905   |
| MW606   | 12/8/1994                                     | nd  | nd             | 7.7          | 7.7               | <u>2.1</u>     | <u>0.48</u>          | 4.7                | 2.1                  | <u>2.5</u>    | nd                    | 18           | 40         | 0.85                     | --                  | --                  | <u>170</u>     | 65           | 11         | 332   |
|   | 1/11/1995                                     | 110   | nd             | 15           | 28                | <u>18</u>      | <u>5.3</u>           | 19                 | 7.8                  | <u>15</u>     | 1.9                   | <u>120</u>   | <u>92</u>  | 8.2                      | --                  | --                  | <u>2,300</u>   | 170          | <u>78</u>  | 2,988   |
|   | 6/24/2002                                     | 46  | <9.2           | 8.3 Q        | <7.6              | <4.8           | <5.6                 | <6.0               | <5.2                 | <7.2          | <6.8                  | <11          | 19 Q       | <5.6                     | 120                 | 16 Q                | <u>78</u>      | 27           | <8.0       | 314   |
|   | 7/2/2003                                      | 13 Q  | <u>9.0 Q</u>   | 5.8 Q        | <3.0              | <3.5           | <3.2                 | <4.0               | <4.8                 | <3.5          | <4.0                  | 6.3 Q        | 27         | <5.2                     | 96                  | <4.2                | <u>71</u>      | 30           | 9.4 Q      | 268   |
|   | 10/16/2003                                    | 13  | <u>10</u>      | 5.2 Q        | 2.0 Q             | <1.4           | <1.3                 | <1.6               | <1.9                 | <u>2.1 Q</u>  | <1.6                  | 5.0          | 20         | <2.1                     | 62 D                | <1.7                | 3.3 Q          | 22           | 7.3        | 152   |
| <b>Monitoring Well Abandoned</b>                        |   |   |                |              |                   |                |                      |                    |                      |               |                       |              |            |                          |                     |                     |                |              |            |   |
| MW606R  | 8/3/2004                                      | 95 Q  | <u>75 Q</u>    | 59 Q         | <39               | <36            | <36                  | <41                | <39                  | <33           | <44                   | <33          | 63 Q       | <34                      | 370                 | 210                 | <u>260</u>     | 120 Q        | 42 Q       | 1,294   |
|   | 10/4/2005                                     | 1.6   | <u>2.9</u>     | 4.5          | 4.6               | <u>3.9</u>     | <u>2.0 Q</u>         | 2.0 Q              | 2.4 Q                | <u>4.6</u>    | <0.94                 | 11           | 1.3 Q      | 1.3 Q                    | 1.1 Q               | 0.63 Q              | 2.6 Q          | 7.7          | 16         | 70  |
| MW607A  | 12/8/1994                                     | 780   | nd             | nd           | nd                | nd             | nd                   | nd                 | nd                   | nd            | nd                    | nd           | nd         | nd                       | --                  | --                  | <u>1,300</u>   | nd           | nd         | 2,080   |
|   | 1/10/1995                                     | nd  | nd             | nd           | nd                | nd             | nd                   | nd                 | nd                   | nd            | nd                    | nd           | nd         | nd                       | --                  | --                  | <u>1,300</u>   | nd           | nd         | 1,300   |
|   | 6/24/2002                                     | 5.9 D   | <1.8           | <0.020       | <0.019            | <0.012         | <0.014               | <0.015             | <0.013               | <0.018        | <0.017                | <0.028       | 0.024 Q    | <0.014                   | 13 D                | 0.046 Q             | <u>34 D</u>    | <0.019       | <0.020     | 53  |
|   | 7/2/2003                                      | 62  | <15            | <16          | <9.6              | <11            | <10                  | <13                | <15                  | <11           | <13                   | <10          | <14        | <17                      | 150                 | <14                 | <u>240</u>     | <13          | <14        | 452   |
|   | 10/16/2003                                    | 87 D  | <15 D          | 0.026 Q      | <0.012            | <0.014         | <0.013               | <0.016             | <0.019               | <0.014        | <0.016                | <0.013       | 0.20       | <0.021                   | 210 D               | 0.14                | <u>260 D</u>   | <0.016       | <0.017     | 557   |
|   | 8/4/2004                                      | 160 D   | <u>18 D</u>    | 0.028 Q      | <0.02             | <0.018         | <0.018               | <0.021             | <0.019               | <0.016        | <0.022                | <0.016       | <5.4       | <0.017                   | 320 D               | <5.7 D              | <u>650 D</u>   | <0.02        | <0.016     | 1,148   |
| 10/4/2005   | 29  | <u>2.2 Q</u>                                  | <2.3           | <3.1         | <3.7              | <3.1Z          | <3.9                 | <3.9Z              | <3.8                 | <3.8          | <3.1                  | <1.8         | <3.8       | 51                       | <2.2                | <u>18 Q</u>         | <2.3           | <2.9         | 100        |   |
| MW607B  | 12/8/1994                                     | nd  | nd             | 0.6          | 0.97              | <u>0.72</u>    | <u>0.19</u>          | 0.086              | nd                   | <u>0.42</u>   | nd                    | 2.6          | 0.7        | 0.36                     | --                  | --                  | 7.2            | 0.8          | 0.26       | 15  |
|   | 1/10/1995                                     | nd  | nd             | nd           | 0.16              | nd             | nd                   | nd                 | nd                   | nd            | nd                    | 0.44         | nd         | nd                       | --                  | --                  | <u>11</u>      | nd           | 0.78       | 12  |
|   | 6/19/1996                                     | nd  | nd             | nd           | nd                | nd             | nd                   | nd                 | nd                   | nd            | nd                    | nd           | nd         | nd                       | --                  | --                  | nd             | nd           | nd         | nd  |
|   | 6/24/2002                                     | Unable to sample due to bailer stuck in well. |                |              |                   |                |                      |                    |                      |               |                       |              |            |                          |                     |                     |                |              |            |   |
|   | 7/2/2003                                      |   |                |              |                   |                |                      |                    |                      |               |                       |              |            |                          |                     |                     |                |              |            | Unable to sample due to bailer stuck in well. |
| 10/16/2003  | Unable to sample due to bailer stuck in well. |   |                |              |                   |                |                      |                    |                      |               |                       |              |            |                          |                     |                     |                |              |            |   |
| <b>Monitoring Well Abandoned</b>                        |   |   |                |              |                   |                |                      |                    |                      |               |                       |              |            |                          |                     |                     |                |              |            |   |



Table 4. Groundwater Analytical Results - PAHs  
 Wisconsin Public Service Corporation  
 Former Two Rivers Manufactured Gas Plant Site

| Sample Location   | Sample Date | PAHs (µg/L)  |                |              |                   |                |                      |                    |                      |                |                       |              |            |                          |                     |                     |              |              |              |            |
|---|-------------|--------------|----------------|--------------|-------------------|----------------|----------------------|--------------------|----------------------|----------------|-----------------------|--------------|------------|--------------------------|---------------------|---------------------|--------------|--------------|--------------|------------|
|   |             | Acenaphthene | Acenaphthylene | Anthracene   | Benz(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(ghi)perylene | Benzo(k)fluoranthene | Chrysene       | Dibenz(a,h)anthracene | Fluoranthene | Fluorene   | Indeno (1,2,3-cd) pyrene | 1-Methylnaphthalene | 2-Methylnaphthalene | Naphthalene  | Phenanthrene | Pyrene       | Total PAHs |
| <b>Wisconsin Groundwater Quality Standards (NR 140)</b> |             |              |                |              |                   |                |                      |                    |                      |                |                       |              |            |                          |                     |                     |              |              |              |            |
| <i>Preventive Action Limit</i>                          |             | <i>ns</i>    | <i>0.5</i>     | <i>600</i>   | <i>ns</i>         | <i>0.02</i>    | <i>0.02</i>          | <i>ns</i>          | <i>ns</i>            | <i>0.02</i>    | <i>ns</i>             | <i>80</i>    | <i>80</i>  | <i>ns</i>                | <i>ns</i>           | <i>ns</i>           | <i>8</i>     | <i>ns</i>    | <i>50</i>    | <i>ns</i>  |
| <b>Enforcement Standard</b>                             |             | <b>ns</b>    | <b>5</b>       | <b>3,000</b> | <b>ns</b>         | <b>0.2</b>     | <b>0.2</b>           | <b>ns</b>          | <b>ns</b>            | <b>0.2</b>     | <b>ns</b>             | <b>400</b>   | <b>400</b> | <b>ns</b>                | <b>ns</b>           | <b>ns</b>           | <b>40</b>    | <b>ns</b>    | <b>250</b>   | <b>ns</b>  |
| MW607BR   | 8/4/2004    | 4.3          | <2.0           | <1.8         | <2.0              | <1.8           | <1.8                 | <2.1               | <2.0                 | <1.7           | <2.2                  | <1.7         | <2.2       | <1.7                     | 6.3 Q               | 4.0 Q               | <b>120 D</b> | <2.1         | <1.7         | 135        |
|   | 10/4/2005   | 0.40         | 0.021 Q        | <0.012       | <0.016            | <0.018         | <0.016               | <0.019             | <0.019               | <0.019         | <0.019                | <0.015       | 0.032      | <0.019                   | 0.31                | 0.054               | 0.13 Q       | 0.028 Q      | <0.015       | 1.0        |
| MW608A  | 12/8/1994   | 400          | nd             | 15           | 2.4               | <b>2.1</b>     | <b>0.26</b>          | 1.7                | 0.81                 | <b>1.3</b>     | nd                    | 14           | <b>150</b> | 0.81                     | --                  | --                  | <b>980</b>   | 140          | 17           | 1,725      |
|   | 1/10/1995   | 130          | <b>210</b>     | 11           | 12                | <b>9.7</b>     | <b>1.8</b>           | 8.1                | 3.2                  | <b>7.1</b>     | 1.2                   | 66           | <b>110</b> | 3.6                      | --                  | --                  | <b>510</b>   | 120          | 41           | 1,245      |
|   | 6/24/2002   | 6.6 Q,D      | <b>1.0 Q,D</b> | 0.64 Q,D     | 1.5 Q,D           | <b>1.6 D</b>   | <b>0.63 Q,D</b>      | 0.79 Q,D           | 0.82 Q,D             | <b>1.3 Q,D</b> | 0.27                  | 1.9 Q,D      | 0.37       | 0.61 Q,D                 | 1.1 Q,D             | 0.092               | 0.060 Q      | 1.2 Q,D      | 2.8 D        | 23         |
|   | 7/2/2003    | 120          | <9.5           | 15 Q         | <6.0              | <7.0           | <6.5                 | <8.0               | <9.5                 | <7.0           | <8.0                  | 14 Q         | 53         | <10                      | 120                 | 76                  | <b>120</b>   | 79           | 22 Q         | 619        |
|   | 10/16/2003  | 110 D        | <b>22 Q,D</b>  | 7 Q,D        | 7.0               | <b>8.4</b>     | <b>3.3</b>           | 3.8                | 4.2                  | <b>9.2</b>     | 0.87 Q                | 18 D         | 51 D       | 3.0                      | 130 D               | 78 D                | <b>170 D</b> | 76 D         | 32 D         | 734        |
| (QC-2)  | 8/3/2004    | 110          | <19            | 35 Q         | <20               | <18            | <18                  | <21                | <19                  | <16            | <22                   | 17 Q         | 60 Q       | <17                      | 90                  | 86                  | <b>330</b>   | 92           | 25           | 845        |
|   | 8/3/2004    | 120 D        | <b>4.3 Q</b>   | 27           | 4.1 Q             | <b>3.5 Q</b>   | <1.8                 | <2.1               | 2.2 Q                | <b>4.7 Q</b>   | <2.2                  | 16           | 61 Q,D     | <1.7                     | 94 D                | 77 D                | <b>330 D</b> | 85 D         | 23           | 852        |
|   | 10/4/2005   | 140 D        | <b>20</b>      | 81           | 44                | <b>42</b>      | <b>20 Z</b>          | 19                 | 21 Z                 | <b>39</b>      | 4.0 Q                 | <b>87</b>    | <b>85</b>  | 14                       | 120 D               | 87 D                | <b>420 D</b> | 250 D        | <b>130 D</b> | 1,623      |
| MW608B  | 12/8/1994   | nd           | nd             | 12           | 8.3               | <b>7.7</b>     | <b>1.2</b>           | 6.6                | 2.6                  | <b>4.4</b>     | nd                    | 27           | 17         | 3.1                      | --                  | --                  | <b>110</b>   | 65           | 13           | 278        |
|   | 1/10/1995   | 12           | nd             | 4.9          | 4.3               | <b>2.8</b>     | <b>0.86</b>          | 3.1                | 1.1                  | <b>2.9</b>     | 0.56                  | 24           | 21         | 1.5                      | --                  | --                  | <b>310</b>   | 41           | 15           | 445        |
|   | 6/19/1996   | nd           | nd             | 1.8          | 0.98              | <b>0.6</b>     | <b>0.21</b>          | 0.52               | 0.38                 | <b>0.34</b>    | nd                    | 3.2          | 0.47       | 0.26                     | --                  | --                  | nd           | 3.4          | 2.2          | 14         |
|   | 6/24/2002   | 13           | <1.8           | 9.5          | 1.5 Q             | <b>1.4 Q</b>   | <b>1.7 Q</b>         | <1.2               | <1.0                 | <b>2.4 Q</b>   | <1.4                  | 7.8          | 6.3        | <1.1                     | 4.6 Q               | <2.2                | <2.2         | 27           | 13           | 88         |
|   | 7/2/2003    | 6.0          | <0.48          | 1.6 Q        | 0.69 Q            | <b>0.61 Q</b>  | <b>0.37 Q</b>        | <0.40              | <0.48                | <b>0.79 Q</b>  | <0.40                 | 2.1          | 2.6        | <0.52                    | 3.5                 | 0.49 Q              | 2.0          | 7.5          | 3.4          | 32         |
|   | 10/16/2003  | 5.3          | <0.76          | 2.2 Q        | 1.6               | <b>0.92 Q</b>  | <0.52                | <0.64              | <0.76                | <b>1.7 Q</b>   | <0.64                 | 4.5          | 2.2 Q      | <0.84                    | 2.1 Q               | <0.68               | <0.96        | 4.2          | 7.6          | 32         |
|   | 8/3/2004    | 3.9          | 0.39 Q         | 1.9          | 1.1 Q             | <b>0.76 Q</b>  | <0.36                | <0.41              | 0.44 Q               | <b>1.0 Q</b>   | <0.44                 | 3.4          | 1.4 Q      | <0.34                    | 1.2 Q               | <0.45               | <0.45        | 2.7          | 5.1          | 23         |
|   | 10/4/2005   | 1.0          | 0.046 Q        | <0.058       | <0.078            | <0.092         | <0.078               | <0.096             | <0.097               | <0.095         | <0.094                | <0.077       | 0.28       | <0.094                   | 0.35                | <0.056              | 0.26 Q       | 0.19 Q       | <0.073       | 2.1        |
| MW609A  | 9/5/1996    | nd           | nd             | 1.4          | nd                | nd             | nd                   | nd                 | nd                   | nd             | nd                    | nd           | 1.9        | nd                       | 5.6                 | 30                  | <b>8.9</b>   | 4.5          | nd           | 52         |
|   | 10/11/1996  | nd           | nd             | nd           | nd                | nd             | nd                   | nd                 | nd                   | nd             | nd                    | nd           | 4.3        | nd                       | nd                  | 18                  | 4.5          | nd           | nd           | 27         |
| (MW-Z)  | 10/11/1996  | nd           | nd             | nd           | nd                | nd             | nd                   | nd                 | nd                   | nd             | nd                    | nd           | 4.7        | nd                       | nd                  | 33                  | 2.2          | 2.1          | nd           | 42         |
|   | 6/24/2002   | 0.24 Q       | <0.23          | <0.20        | <0.19             | <0.12          | <0.14                | <0.15              | <0.13                | <0.18          | <0.17                 | <0.28        | 0.27 Q     | <0.14                    | 2.2                 | <0.28               | 2.4          | <0.19        | <0.20        | 5.1        |
|   | 7/2/2003    | <0.18        | <0.19          | <0.20        | <0.12             | <0.14          | <0.13                | <0.16              | <0.19                | <0.14          | <0.16                 | <0.13        | <0.17      | <0.21                    | 0.55 Q              | <0.17               | 3.3          | <0.16        | <0.17        | 3.9        |
|   | 10/16/2003  | <0.18        | <0.19          | <0.20        | <0.12             | <0.14          | <0.13                | <0.16              | <0.19                | <0.14          | <0.16                 | <0.13        | <0.17      | <0.21                    | 0.50 Q              | <0.17               | 2.8          | <0.16        | <0.17        | 3.3        |
|   | 8/4/2004    | 0.85 Q       | <0.39          | <0.35        | <0.39             | <0.36          | <0.36                | <0.41              | <0.39                | <0.33          | <0.44                 | <0.33        | 0.89 Q     | <0.34                    | 6                   | <0.45               | 2.8          | 0.99 Q       | <0.33        | 12         |
|   | 10/4/2005   | <0.082       | <0.081         | <0.12        | <0.16             | <0.18          | <0.16Z               | <0.19              | <0.19Z               | <0.19          | <0.19                 | <0.15        | <0.091     | <0.19                    | 0.40                | <0.11               | 3.1          | <0.11        | <0.15        | 3.5        |

Table 4. Groundwater Analytical Results - PAHs  
 Wisconsin Public Service Corporation  
 Former Two Rivers Manufactured Gas Plant Site

| Sample Location   | Sample Date | PAHs (µg/L)   |                |              |                   |                |                      |                    |                      |                |                       |              |            |                          |                     |                     |             |              |            |            |
|---|-------------|---|----------------|--------------|-------------------|----------------|----------------------|--------------------|----------------------|----------------|-----------------------|--------------|------------|--------------------------|---------------------|---------------------|-------------|--------------|------------|------------|
|   |             | Acenaphthene  | Acenaphthylene | Anthracene   | Benz(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(ghi)perylene | Benzo(k)fluoranthene | Chrysene       | Dibenz(a,h)anthracene | Fluoranthene | Fluorene   | Indeno (1,2,3-cd) pyrene | 1-Methylnaphthalene | 2-Methylnaphthalene | Naphthalene | Phenanthrene | Pyrene     | Total PAHs |
| <b>Wisconsin Groundwater Quality Standards (NR 140)</b> |             |   |                |              |                   |                |                      |                    |                      |                |                       |              |            |                          |                     |                     |             |              |            |            |
| <i>Preventive Action Limit</i>                          |             | <i>ns</i>   | <i>0.5</i>     | <i>600</i>   | <i>ns</i>         | <i>0.02</i>    | <i>0.02</i>          | <i>ns</i>          | <i>ns</i>            | <i>0.02</i>    | <i>ns</i>             | <i>80</i>    | <i>80</i>  | <i>ns</i>                | <i>ns</i>           | <i>ns</i>           | <i>8</i>    | <i>ns</i>    | <i>50</i>  | <i>ns</i>  |
| <b>Enforcement Standard</b>                             |             | <b>ns</b>   | <b>5</b>       | <b>3,000</b> | <b>ns</b>         | <b>0.2</b>     | <b>0.2</b>           | <b>ns</b>          | <b>ns</b>            | <b>0.2</b>     | <b>ns</b>             | <b>400</b>   | <b>400</b> | <b>ns</b>                | <b>ns</b>           | <b>ns</b>           | <b>40</b>   | <b>ns</b>    | <b>250</b> | <b>ns</b>  |
| MW609 B   | 9/5/1996    | nd  | nd             | 0.79         | nd                | nd             | nd                   | nd                 | nd                   | nd             | nd                    | 8.9          | nd         | nd                       | nd                  | nd                  | nd          | 2.6          | 0.4        | 13         |
|   | 10/11/1996  | nd  | nd             | nd           | nd                | nd             | nd                   | nd                 | nd                   | nd             | nd                    | nd           | nd         | nd                       | nd                  | nd                  | nd          | nd           | nd         | nd         |
|   | 6/24/2002   | <0.018  | <0.023         | <0.020       | <0.019            | <u>0.051</u>   | <0.014               | <0.015             | <0.013               | <0.018         | <0.017                | <0.028       | <0.021     | <0.014                   | <0.027              | <0.028              | 0.044 Q     | 0.028 Q      | <0.020     | 0.1        |
|   | 7/2/2003    | <0.018  | <0.019         | <0.020       | <0.012            | <0.014         | <0.013               | <0.016             | <0.019               | <0.014         | <0.016                | <0.013       | <0.017     | <0.021                   | <0.018              | <0.017              | 0.029 Q     | <0.016       | <0.017     | 0.03       |
|   | 10/16/2003  | 0.085   | <0.019         | <0.020       | <0.012            | 0.016 Q        | <0.013               | <0.016             | <0.019               | <0.014         | <0.016                | <0.013       | 0.027 Q    | <0.021                   | 0.30                | 0.10                | 0.50        | 0.021 Q      | <0.017     | 1.1        |
|   | 8/4/2004    | <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              | 0.034 Q     | <0.02        | <0.016     | 0.03       |
|   | 10/4/2005   | <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                   | <0.010              | <0.047              | <0.047      | <0.011       | <0.015     | nd         |
| MW610<br><br>(QC-1)                                     | 9/5/1996    | nd  | nd             | nd           | nd                | nd             | nd                   | nd                 | nd                   | nd             | nd                    | nd           | nd         | nd                       | nd                  | nd                  | nd          | nd           | nd         | nd         |
|   | 10/11/1996  | nd  | nd             | nd           | nd                | nd             | nd                   | nd                 | nd                   | nd             | nd                    | nd           | nd         | nd                       | nd                  | nd                  | nd          | nd           | nd         | nd         |
|   | 6/24/2002   | Well not sampled - located on US Oil property and access could not be obtained. |                |              |                   |                |                      |                    |                      |                |                       |              |            |                          |                     |                     |             |              |            |            |
|   | 10/30/2002  | <0.018  | 0.074          | <0.020       | 0.048             | <u>0.13</u>    | <u>0.065</u>         | 0.090              | 0.049 Q              | <u>0.061</u>   | 0.024 Q               | 0.033 Q      | <0.017     | 0.062 Q                  | 0.021 Q             | <0.017              | 0.030 Q     | 0.023 Q      | 0.053 Q    | 0.5        |
|   | 7/2/2003    | <0.018  | 0.051 Q        | 0.021 Q      | 0.026 Q           | <u>0.085</u>   | <u>0.036 Q</u>       | 0.052 Q            | 0.036 Q              | <u>0.030 Q</u> | <0.016                | 0.018 Q      | <0.017     | 0.036 Q                  | <0.018              | <0.017              | 0.028 Q     | 0.020 Q      | 0.037 Q    | 0.5        |
|   | 7/2/2003    | <0.018  | 0.058 Q        | 0.022 Q      | 0.034 Q           | <u>0.10</u>    | <u>0.043</u>         | 0.063              | 0.041 Q              | <u>0.036 Q</u> | <0.016                | 0.023 Q      | <0.017     | 0.043 Q                  | <0.018              | <0.017              | 0.025 Q     | 0.023 Q      | 0.044 Q    | 0.6        |
|   | 10/16/2003  | <0.018  | 0.062 Q        | <0.020       | 0.034 Q           | <u>0.11</u>    | <u>0.054</u>         | 0.073              | 0.053 Q              | <u>0.054</u>   | 0.021 Q               | 0.024 Q      | <0.017     | 0.052 Q                  | <0.018              | <0.017              | <0.024      | <0.016       | 0.042 Q    | 0.6        |
| 8/4/2004  | <0.02       | 0.043 Q   | <0.018         | <0.02        | <u>0.054 Q</u>    | <u>0.023 Q</u> | 0.034 Q              | 0.022 Q            | <u>0.024 Q</u>       | <0.022         | <0.017                | <0.022       | 0.022 Q    | <0.02                    | <0.023              | 0.027 Q             | <0.021      | 0.023 Q      | 0.3        |            |
| 10/4/2005   | <0.0082     | <0.0081   | <0.012         | <0.016       | <0.018            | <0.016Z        | <0.019               | <0.019Z            | <0.019               | <0.019         | <0.015                | <0.0091      | <0.019     | 0.015 Q                  | <0.047              | 0.075 Q             | <0.011      | <0.015       | 0.1        |            |
| MW611<br><br>(QC-2)                                     | 9/5/1996    | nd  | nd             | nd           | nd                | nd             | nd                   | nd                 | nd                   | nd             | nd                    | nd           | nd         | nd                       | nd                  | nd                  | nd          | nd           | nd         | nd         |
|   | 10/11/1996  | nd  | nd             | nd           | nd                | nd             | nd                   | nd                 | nd                   | nd             | nd                    | nd           | nd         | nd                       | nd                  | nd                  | nd          | nd           | nd         | nd         |
|   | 6/24/2002   | Well not sampled - located on US Oil property and access could not be obtained. |                |              |                   |                |                      |                    |                      |                |                       |              |            |                          |                     |                     |             |              |            |            |
|   | 10/30/2002  | <0.018  | <0.019         | <0.020       | <0.012            | <0.014         | <0.013               | <0.016             | <0.019               | <0.014         | <0.016                | <0.013       | <0.017     | <0.021                   | <0.017              | <0.017              | <0.024      | <0.016       | <0.017     | nd         |
|   | 7/2/2003    | <0.018  | <0.019         | <0.020       | <0.012            | <0.014         | <0.013               | <0.016             | <0.019               | <0.014         | <0.016                | <0.013       | <0.017     | <0.021                   | <0.018              | <0.017              | 0.028 Q     | <0.016       | <0.017     | 0.03       |
|   | 7/2/2003    | <0.018  | <0.019         | <0.020       | <0.012            | <0.014         | <0.013               | <0.016             | <0.019               | <0.014         | <0.016                | <0.013       | <0.017     | <0.021                   | <0.018              | <0.017              | 0.024 Q     | <0.016       | <0.017     | 0.02       |
|   | 10/16/2003  | <0.018  | <0.019         | <0.020       | <0.012            | <0.014         | <0.013               | <0.016             | <0.019               | <0.014         | <0.016                | <0.013       | <0.017     | <0.021                   | <0.018              | <0.017              | <0.024      | <0.016       | <0.017     | nd         |
| 8/4/2004  | <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              | 0.028 Q             | <0.02       | <0.016       | 0.03       |            |
| 10/4/2005   | 0.17        | 0.44  | 0.032 Q        | <0.016       | <0.018            | <0.016Z        | <0.019               | <0.019Z            | <0.019               | <0.019         | <0.015                | 0.13         | <0.019     | 1.2 D                    | 1.5QD               | 4.1 D               | 0.13        | <0.015       | 7.7        |            |

Table 4. Groundwater Analytical Results - PAHs  
 Wisconsin Public Service Corporation  
 Former Two Rivers Manufactured Gas Plant Site

| Sample Location   | Sample Date | PAHs (µg/L)  |                |              |                   |                |                      |                    |                      |             |                       |              |            |                          |                     |                     |             |              |            |            |
|---|-------------|--------------|----------------|--------------|-------------------|----------------|----------------------|--------------------|----------------------|-------------|-----------------------|--------------|------------|--------------------------|---------------------|---------------------|-------------|--------------|------------|------------|
|   |             | Acenaphthene | Acenaphthylene | Anthracene   | Benz(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(ghi)perylene | Benzo(k)fluoranthene | Chrysene    | Dibenz(a,h)anthracene | Fluoranthene | Fluorene   | Indeno (1,2,3-cd) pyrene | 1-Methylnaphthalene | 2-Methylnaphthalene | Naphthalene | Phenanthrene | Pyrene     | Total PAHs |
| <b>Wisconsin Groundwater Quality Standards (NR 140)</b> |             |              |                |              |                   |                |                      |                    |                      |             |                       |              |            |                          |                     |                     |             |              |            |            |
| <i>Preventive Action Limit</i>                          |             | ns           | <u>0.5</u>     | <u>600</u>   | ns                | <u>0.02</u>    | <u>0.02</u>          | ns                 | ns                   | <u>0.02</u> | ns                    | <u>80</u>    | <u>80</u>  | ns                       | ns                  | ns                  | <u>8</u>    | ns           | <u>50</u>  | ns         |
| <b>Enforcement Standard</b>                             |             | ns           | <b>5</b>       | <b>3,000</b> | ns                | <b>0.2</b>     | <b>0.2</b>           | ns                 | ns                   | <b>0.2</b>  | ns                    | <b>400</b>   | <b>400</b> | ns                       | ns                  | ns                  | <b>40</b>   | ns           | <b>250</b> | ns         |
| MW612   | 8/4/2004    | 9.3          | <u>2.2 Q</u>   | 3.4 Q        | <2.0              | <1.8           | <1.8                 | <2.1               | <1.9                 | <1.6        | <2.2                  | <1.6         | 9.1        | <1.7                     | 87 D                | <2.3                | 2.4 Q       | 19           | 1.7 Q      | 134        |
|   | 10/4/2005   | 1.8          | <u>0.52 Q</u>  | 0.52 Q       | <0.31             | <0.37          | <0.31                | <0.39              | <0.39                | <0.38       | <0.38                 | <0.31        | 1.8        | <0.38                    | 1.8                 | <0.94               | 1.1 Q       | 5.5          | <0.29      | 13         |
| MW613   | 8/4/2004    | 0.048 Q      | 0.047 Q        | 0.024 Q      | <0.02             | <0.018         | <0.018               | <0.021             | <0.019               | 0.016 Q     | <0.022                | 0.034 Q      | 0.026 Q    | <0.017                   | 0.12                | 0.099               | 0.57 D      | 0.09         | 0.047 Q    | 1.1        |
|   | 10/4/2005   | 0.054        | 0.17           | 0.013 Q      | <0.016            | <0.018         | <0.016Z              | <0.019             | <0.019Z              | <0.019      | <0.019                | <0.015       | 0.046      | <0.019                   | 0.47                | 0.68QD              | 2.3 D       | 0.048        | <0.015     | 3.8        |

[JTB/EPK/PAH 8/02, 12/02, 2/03 U-JMK/PAR 10/03][U-PAR/HMS 11/03][U-HMS/GRL 8/26/04][U-HMS/PAR 10/05]

Notes:

PAHs : Polynuclear Aromatic Hydrocarbons

1) Concentrations equaling/exceeding the enforcement standard (ES) are shown in **bold and underlined**.

2) Concentrations equaling/exceeding the preventive action limit (PAL) are *italicized and underlined*.

nd : Analysis was not detected.

µg/L : Micrograms per liter.

<0.018 : Analyte concentration less than method detection limit shown.

ns : NR140 ES or PAL standards have not been established.

(MW-B) : Field duplicate sample with field identity shown in parentheses.

Q: Analyte detected between the limit of detection (LOD) and limit of quantitation (LOQ).

D: Laboratory Data Qualifier - Analyte value from diluted analysis.

E: Laboratory Data Qualifier: Analyte concentration exceeds calibration range.

Z: Laboratory Data Qualifier: Compound was separated but it did not meet the resolution criteria as set forth in SW846.

**APPENDIX B**  
**LABORATORY ANALYTICAL REPORT**



Pace Analytical Services, Inc.  
1241 Bellevue Street - Suite 9  
Green Bay, WI 54302  
(920)469-2436

September 29, 2011

Jennifer Kahler  
NATURAL RESOURCE TECHNOLOGY  
23713 W. Paul Rd  
Pewaukee, WI 53072

RE: Project: 1569 TWO RIVERS FORMER MGP  
Pace Project No.: 4051272

Dear Jennifer Kahler:

Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten

brian.basten@pacelabs.com  
Project Manager

Enclosures

cc: Jody Barbeau, Natural Resource Technology  
Brian Hennings, NATURAL RESOURCE TECHNOLOGY  
Julie Zimdars, NATURAL RESOURCE TECHNOLOGY



**REPORT OF LABORATORY ANALYSIS**

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**Pace Analytical Services, Inc.**  
1241 Bellevue Street - Suite 9  
Green Bay, WI 54302  
(920)469-2436

## CERTIFICATIONS

Project: 1569 TWO RIVERS FORMER MGP  
Pace Project No.: 4051272

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302  
Florida/NELAP Certification #: E87948  
Illinois Certification #: 200050  
Kentucky Certification #: 82  
Louisiana Certification #: 04168  
Minnesota Certification #: 055-999-334  
New York Certification #: 11888

North Carolina Certification #: 503  
North Dakota Certification #: R-150  
South Carolina Certification #: 83006001  
US Dept of Agriculture #: S-76505  
Wisconsin Certification #: 405132750  
Wisconsin DATCP Certification #: 105-444

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 1569 TWO RIVERS FORMER MGP  
Pace Project No.: 4051272

| Lab ID     | Sample ID  | Matrix | Date Collected | Date Received  |
|------------|------------|--------|----------------|----------------|
| 4051272001 | 092011001  | Water  | 09/20/11 09:27 | 09/23/11 15:30 |
| 4051272002 | 092011002  | Water  | 09/20/11 09:32 | 09/23/11 15:30 |
| 4051272003 | 092011003  | Water  | 09/20/11 10:30 | 09/23/11 15:30 |
| 4051272004 | 092011004  | Water  | 09/20/11 10:35 | 09/23/11 15:30 |
| 4051272005 | 092011005  | Water  | 09/20/11 11:06 | 09/23/11 15:30 |
| 4051272006 | 092011006  | Water  | 09/20/11 11:50 | 09/23/11 15:30 |
| 4051272007 | 092011007  | Water  | 09/20/11 13:07 | 09/23/11 15:30 |
| 4051272008 | 092011008  | Water  | 09/20/11 13:30 | 09/23/11 15:30 |
| 4051272009 | 092011009  | Water  | 09/20/11 14:16 | 09/23/11 15:30 |
| 4051272010 | 092011010  | Water  | 09/20/11 14:45 | 09/23/11 15:30 |
| 4051272011 | 092011011  | Water  | 09/20/11 15:05 | 09/23/11 15:30 |
| 4051272012 | 092011012  | Water  | 09/20/11 16:22 | 09/23/11 15:30 |
| 4051272013 | 092011013  | Water  | 09/20/11 16:49 | 09/23/11 15:30 |
| 4051272014 | 092011014  | Water  | 09/20/11 16:53 | 09/23/11 15:30 |
| 4051272015 | 092011015  | Water  | 09/20/11 17:10 | 09/23/11 15:30 |
| 4051272016 | 092011016  | Water  | 09/20/11 17:29 | 09/23/11 15:30 |
| 4051272017 | 092011017  | Water  | 09/20/11 17:45 | 09/23/11 15:30 |
| 4051272018 | 092011018  | Water  | 09/20/11 18:00 | 09/23/11 15:30 |
| 4051272019 | TRIP BLANK | Water  | 09/20/11 00:00 | 09/23/11 15:30 |

### REPORT OF LABORATORY ANALYSIS





**SAMPLE ANALYTE COUNT**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

| Lab ID     | Sample ID  | Method          | Analysts | Analytes Reported |
|------------|------------|-----------------|----------|-------------------|
| 4051272001 | 092011001  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272002 | 092011002  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272003 | 092011003  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272004 | 092011004  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272005 | 092011005  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272006 | 092011006  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272007 | 092011007  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272008 | 092011008  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272009 | 092011009  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272010 | 092011010  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272011 | 092011011  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272012 | 092011012  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272013 | 092011013  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272014 | 092011014  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272015 | 092011015  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272016 | 092011016  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272017 | 092011017  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272018 | 092011018  | EPA 8270 by SIM | RJN      | 20                |
|            |            | EPA 8260        | JJB      | 10                |
| 4051272019 | TRIP BLANK | EPA 8260        | JJB      | 10                |

**REPORT OF LABORATORY ANALYSIS**



**ANALYTICAL RESULTS**

Project: 1569 TWO RIVERS FORMER MGP

Pace Project No.: 4051272

Sample: 092011001 Lab ID: 4051272001 Collected: 09/20/11 09:27 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-------------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |        |        |    |                |                |             |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |        |    |                |                |             |      |
| Acenaphthene  | 0.0061J | ug/L  | 0.047  | 0.0045 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 83-32-9     |      |
| Acenaphthylene  | 0.010J  | ug/L  | 0.047  | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 208-96-8    |      |
| Anthracene  | 0.0094J | ug/L  | 0.047  | 0.0057 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 120-12-7    |      |
| Benzo(a)anthracene  | 0.0076J | ug/L  | 0.047  | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 56-55-3     |      |
| Benzo(a)pyrene  | 0.015J  | ug/L  | 0.047  | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 50-32-8     |      |
| Benzo(b)fluoranthene  | 0.011J  | ug/L  | 0.047  | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 205-99-2    |      |
| Benzo(g,h,i)perylene  | 0.013J  | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 191-24-2    |      |
| Benzo(k)fluoranthene  | 0.013J  | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 207-08-9    |      |
| Chrysene  | 0.019J  | ug/L  | 0.047  | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 218-01-9    |      |
| Dibenz(a,h)anthracene   | <0.0032 | ug/L  | 0.047  | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 53-70-3     |      |
| Fluoranthene  | 0.015J  | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 206-44-0    |      |
| Fluorene  | <0.0048 | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 86-73-7     |      |
| Indeno(1,2,3-cd)pyrene  | 0.0087J | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 193-39-5    |      |
| 1-Methylnaphthalene   | 0.0072J | ug/L  | 0.047  | 0.0050 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 90-12-0     |      |
| 2-Methylnaphthalene   | 0.0095J | ug/L  | 0.047  | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 91-57-6     |      |
| Naphthalene   | 0.021J  | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 91-20-3     | B    |
| Phenanthrene  | 0.0097J | ug/L  | 0.047  | 0.0081 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 85-01-8     |      |
| Pyrene  | 0.022J  | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 129-00-0    |      |
| 2-Fluorobiphenyl (S)  | 57 %    |       | 27-130 |        | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 321-60-8    |      |
| Terphenyl-d14 (S)   | 108 %   |       | 66-140 |        | 1  | 09/27/11 12:00 | 09/27/11 15:37 | 1718-51-0   |      |
| <b>8260 MSV</b>   |         |       |        |        |    |                |                |             |      |
| Analytical Method: EPA 8260                                     |         |       |        |        |    |                |                |             |      |
| Benzene   | <0.41   | ug/L  | 1.0    | 0.41   | 1  |                | 09/28/11 09:01 | 71-43-2     |      |
| Ethylbenzene  | <0.54   | ug/L  | 1.0    | 0.54   | 1  |                | 09/28/11 09:01 | 100-41-4    |      |
| Toluene   | <0.67   | ug/L  | 1.0    | 0.67   | 1  |                | 09/28/11 09:01 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene  | <0.97   | ug/L  | 1.0    | 0.97   | 1  |                | 09/28/11 09:01 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | <0.83   | ug/L  | 1.0    | 0.83   | 1  |                | 09/28/11 09:01 | 108-67-8    |      |
| m&p-Xylene  | <1.8    | ug/L  | 2.0    | 1.8    | 1  |                | 09/28/11 09:01 | 179601-23-1 |      |
| o-Xylene  | <0.83   | ug/L  | 1.0    | 0.83   | 1  |                | 09/28/11 09:01 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)  | 88 %    |       | 70-130 |        | 1  |                | 09/28/11 09:01 | 460-00-4    |      |
| Dibromofluoromethane (S)  | 89 %    |       | 70-130 |        | 1  |                | 09/28/11 09:01 | 1868-53-7   |      |
| Toluene-d8 (S)  | 96 %    |       | 70-130 |        | 1  |                | 09/28/11 09:01 | 2037-26-5   |      |

Sample: 092011002 Lab ID: 4051272002 Collected: 09/20/11 09:32 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ   | LOD    | DF | Prepared       | Analyzed       | CAS No.  | Qual |
|---|---------|-------|-------|--------|----|----------------|----------------|----------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |       |        |    |                |                |          |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |       |        |    |                |                |          |      |
| Acenaphthene  | 0.0059J | ug/L  | 0.047 | 0.0045 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 83-32-9  |      |
| Acenaphthylene  | 0.0066J | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 208-96-8 |      |
| Anthracene  | 0.0066J | ug/L  | 0.047 | 0.0057 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 120-12-7 |      |
| Benzo(a)anthracene  | 0.0063J | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 56-55-3  |      |
| Benzo(a)pyrene  | 0.0096J | ug/L  | 0.047 | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 50-32-8  |      |
| Benzo(b)fluoranthene  | 0.0057J | ug/L  | 0.047 | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 205-99-2 |      |

Date: 09/29/2011 04:02 PM

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

Sample: 092011002 Lab ID: 4051272002 Collected: 09/20/11 09:32 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD    | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-------------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |        |        |    |                |                |             |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |        |    |                |                |             |      |
| Benzo(g,h,i)perylene  | 0.0093J | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 191-24-2    |      |
| Benzo(k)fluoranthene  | 0.0086J | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 207-08-9    |      |
| Chrysene  | 0.012J  | ug/L  | 0.047  | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 218-01-9    |      |
| Dibenz(a,h)anthracene   | <0.0032 | ug/L  | 0.047  | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 53-70-3     |      |
| Fluoranthene  | 0.010J  | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 206-44-0    |      |
| Fluorene  | <0.0048 | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 86-73-7     |      |
| Indeno(1,2,3-cd)pyrene  | 0.0060J | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 193-39-5    |      |
| 1-Methylnaphthalene   | 0.0066J | ug/L  | 0.047  | 0.0050 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 90-12-0     |      |
| 2-Methylnaphthalene   | 0.0090J | ug/L  | 0.047  | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 91-57-6     |      |
| Naphthalene   | 0.019J  | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 91-20-3     | B    |
| Phenanthrene  | <0.0081 | ug/L  | 0.047  | 0.0081 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 85-01-8     |      |
| Pyrene  | 0.019J  | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 129-00-0    |      |
| 2-Fluorobiphenyl (S)  | 45 %    |       | 27-130 |        | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 321-60-8    |      |
| Terphenyl-d14 (S)   | 95 %    |       | 66-140 |        | 1  | 09/27/11 12:00 | 09/27/11 20:35 | 1718-51-0   |      |
| <b>8260 MSV</b>   |         |       |        |        |    |                |                |             |      |
| Analytical Method: EPA 8260                                     |         |       |        |        |    |                |                |             |      |
| Benzene   | <0.41   | ug/L  | 1.0    | 0.41   | 1  |                | 09/28/11 18:24 | 71-43-2     |      |
| Ethylbenzene  | <0.54   | ug/L  | 1.0    | 0.54   | 1  |                | 09/28/11 18:24 | 100-41-4    |      |
| Toluene   | <0.67   | ug/L  | 1.0    | 0.67   | 1  |                | 09/28/11 18:24 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene  | <0.97   | ug/L  | 1.0    | 0.97   | 1  |                | 09/28/11 18:24 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | <0.83   | ug/L  | 1.0    | 0.83   | 1  |                | 09/28/11 18:24 | 108-67-8    |      |
| m&p-Xylene  | <1.8    | ug/L  | 2.0    | 1.8    | 1  |                | 09/28/11 18:24 | 179601-23-1 |      |
| o-Xylene  | <0.83   | ug/L  | 1.0    | 0.83   | 1  |                | 09/28/11 18:24 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)  | 88 %    |       | 70-130 |        | 1  |                | 09/28/11 18:24 | 460-00-4    |      |
| Dibromofluoromethane (S)  | 90 %    |       | 70-130 |        | 1  |                | 09/28/11 18:24 | 1868-53-7   |      |
| Toluene-d8 (S)  | 96 %    |       | 70-130 |        | 1  |                | 09/28/11 18:24 | 2037-26-5   |      |

Sample: 092011003 Lab ID: 4051272003 Collected: 09/20/11 10:30 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ   | LOD    | DF | Prepared       | Analyzed       | CAS No.  | Qual |
|---|---------|-------|-------|--------|----|----------------|----------------|----------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |       |        |    |                |                |          |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |       |        |    |                |                |          |      |
| Acenaphthene  | 0.0054J | ug/L  | 0.047 | 0.0045 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 83-32-9  |      |
| Acenaphthylene  | <0.0036 | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 208-96-8 |      |
| Anthracene  | 0.019J  | ug/L  | 0.047 | 0.0057 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 120-12-7 |      |
| Benzo(a)anthracene  | 0.013J  | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 56-55-3  |      |
| Benzo(a)pyrene  | 0.0048J | ug/L  | 0.047 | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 50-32-8  |      |
| Benzo(b)fluoranthene  | 0.0042J | ug/L  | 0.047 | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 205-99-2 |      |
| Benzo(g,h,i)perylene  | <0.0048 | ug/L  | 0.047 | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 191-24-2 |      |
| Benzo(k)fluoranthene  | 0.0070J | ug/L  | 0.047 | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 207-08-9 |      |
| Chrysene  | 0.012J  | ug/L  | 0.047 | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 218-01-9 |      |
| Dibenz(a,h)anthracene   | <0.0032 | ug/L  | 0.047 | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 53-70-3  |      |
| Fluoranthene  | 0.018J  | ug/L  | 0.047 | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 206-44-0 |      |
| Fluorene  | <0.0048 | ug/L  | 0.047 | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 86-73-7  |      |



**ANALYTICAL RESULTS**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

Sample: 092011003 Lab ID: 4051272003 Collected: 09/20/11 10:30 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD    | DF | Prepared       | Analyzed       | CAS No.     | Qual  |
|---|---------|-------|--------|--------|----|----------------|----------------|-------------|-------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |        |        |    |                |                |             |       |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |        |    |                |                |             |       |
| Indeno(1,2,3-cd)pyrene  | <0.0047 | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 193-39-5    |       |
| 1-Methylnaphthalene   | 0.0064J | ug/L  | 0.047  | 0.0050 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 90-12-0     |       |
| 2-Methylnaphthalene   | 0.018J  | ug/L  | 0.047  | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 91-57-6     |       |
| Naphthalene   | 0.023J  | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 91-20-3     | B     |
| Phenanthrene  | 0.016J  | ug/L  | 0.047  | 0.0081 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 85-01-8     |       |
| Pyrene  | 0.024J  | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 129-00-0    |       |
| 2-Fluorobiphenyl (S)  | 53 %    |       | 27-130 |        | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 321-60-8    |       |
| Terphenyl-d14 (S)   | 173 %   |       | 66-140 |        | 1  | 09/27/11 12:00 | 09/27/11 20:52 | 1718-51-0   | 1q,S3 |
| <b>8260 MSV</b>   |         |       |        |        |    |                |                |             |       |
| Analytical Method: EPA 8260                                     |         |       |        |        |    |                |                |             |       |
| Benzene   | <0.41   | ug/L  | 1.0    | 0.41   | 1  |                | 09/28/11 09:48 | 71-43-2     |       |
| Ethylbenzene  | <0.54   | ug/L  | 1.0    | 0.54   | 1  |                | 09/28/11 09:48 | 100-41-4    |       |
| Toluene   | <0.67   | ug/L  | 1.0    | 0.67   | 1  |                | 09/28/11 09:48 | 108-88-3    |       |
| 1,2,4-Trimethylbenzene  | <0.97   | ug/L  | 1.0    | 0.97   | 1  |                | 09/28/11 09:48 | 95-63-6     |       |
| 1,3,5-Trimethylbenzene  | <0.83   | ug/L  | 1.0    | 0.83   | 1  |                | 09/28/11 09:48 | 108-67-8    |       |
| m&p-Xylene  | <1.8    | ug/L  | 2.0    | 1.8    | 1  |                | 09/28/11 09:48 | 179601-23-1 |       |
| o-Xylene  | <0.83   | ug/L  | 1.0    | 0.83   | 1  |                | 09/28/11 09:48 | 95-47-6     |       |
| 4-Bromofluorobenzene (S)  | 89 %    |       | 70-130 |        | 1  |                | 09/28/11 09:48 | 460-00-4    |       |
| Dibromofluoromethane (S)  | 88 %    |       | 70-130 |        | 1  |                | 09/28/11 09:48 | 1868-53-7   |       |
| Toluene-d8 (S)  | 98 %    |       | 70-130 |        | 1  |                | 09/28/11 09:48 | 2037-26-5   |       |

Sample: 092011004 Lab ID: 4051272004 Collected: 09/20/11 10:35 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ   | LOD    | DF | Prepared       | Analyzed       | CAS No.  | Qual |
|---|---------|-------|-------|--------|----|----------------|----------------|----------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |       |        |    |                |                |          |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |       |        |    |                |                |          |      |
| Acenaphthene  | 0.011J  | ug/L  | 0.047 | 0.0045 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 83-32-9  |      |
| Acenaphthylene  | <0.0036 | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 208-96-8 |      |
| Anthracene  | 0.013J  | ug/L  | 0.047 | 0.0057 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 120-12-7 |      |
| Benzo(a)anthracene  | <0.0036 | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 56-55-3  |      |
| Benzo(a)pyrene  | <0.0029 | ug/L  | 0.047 | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 50-32-8  |      |
| Benzo(b)fluoranthene  | <0.0034 | ug/L  | 0.047 | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 205-99-2 |      |
| Benzo(g,h,i)perylene  | <0.0048 | ug/L  | 0.047 | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 191-24-2 |      |
| Benzo(k)fluoranthene  | <0.0044 | ug/L  | 0.047 | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 207-08-9 |      |
| Chrysene  | <0.0035 | ug/L  | 0.047 | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 218-01-9 |      |
| Dibenz(a,h)anthracene   | <0.0032 | ug/L  | 0.047 | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 53-70-3  |      |
| Fluoranthene  | 0.0053J | ug/L  | 0.047 | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 206-44-0 |      |
| Fluorene  | <0.0048 | ug/L  | 0.047 | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 86-73-7  |      |
| Indeno(1,2,3-cd)pyrene  | <0.0047 | ug/L  | 0.047 | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 193-39-5 |      |
| 1-Methylnaphthalene   | 0.0078J | ug/L  | 0.047 | 0.0050 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 90-12-0  |      |
| 2-Methylnaphthalene   | 0.019J  | ug/L  | 0.047 | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 91-57-6  |      |
| Naphthalene   | 0.020J  | ug/L  | 0.047 | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 91-20-3  | B    |
| Phenanthrene  | 0.0095J | ug/L  | 0.047 | 0.0081 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 85-01-8  |      |
| Pyrene  | <0.0047 | ug/L  | 0.047 | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 129-00-0 |      |



### ANALYTICAL RESULTS

Project: 1569 TWO RIVERS FORMER MGP

Pace Project No.: 4051272

Sample: 092011004 Lab ID: 4051272004 Collected: 09/20/11 10:35 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |      |    |                |                |             |      |
| 2-Fluorobiphenyl (S)  | 67 %.   |       | 27-130 |      | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 321-60-8    |      |
| Terphenyl-d14 (S)   | 113 %.  |       | 66-140 |      | 1  | 09/27/11 12:00 | 09/27/11 21:09 | 1718-51-0   |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |        |      |    |                |                |             |      |
| Benzene   | <0.41   | ug/L  | 1.0    | 0.41 | 1  |                | 09/28/11 10:11 | 71-43-2     |      |
| Ethylbenzene  | <0.54   | ug/L  | 1.0    | 0.54 | 1  |                | 09/28/11 10:11 | 100-41-4    |      |
| Toluene   | <0.67   | ug/L  | 1.0    | 0.67 | 1  |                | 09/28/11 10:11 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene  | <0.97   | ug/L  | 1.0    | 0.97 | 1  |                | 09/28/11 10:11 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | <0.83   | ug/L  | 1.0    | 0.83 | 1  |                | 09/28/11 10:11 | 108-67-8    |      |
| m&p-Xylene  | <1.8    | ug/L  | 2.0    | 1.8  | 1  |                | 09/28/11 10:11 | 179601-23-1 |      |
| o-Xylene  | <0.83   | ug/L  | 1.0    | 0.83 | 1  |                | 09/28/11 10:11 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)  | 89 %.   |       | 70-130 |      | 1  |                | 09/28/11 10:11 | 460-00-4    |      |
| Dibromofluoromethane (S)  | 89 %.   |       | 70-130 |      | 1  |                | 09/28/11 10:11 | 1868-53-7   |      |
| Toluene-d8 (S)  | 96 %.   |       | 70-130 |      | 1  |                | 09/28/11 10:11 | 2037-26-5   |      |

Sample: 092011005 Lab ID: 4051272005 Collected: 09/20/11 11:06 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD    | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |        |    |                |                |           |      |
| Acenaphthene  | 5.2     | ug/L  | 0.47   | 0.045  | 10 | 09/27/11 12:00 | 09/27/11 19:43 | 83-32-9   | M1   |
| Acenaphthylene  | 2.3     | ug/L  | 0.47   | 0.036  | 10 | 09/27/11 12:00 | 09/27/11 19:43 | 208-96-8  | M1   |
| Anthracene  | 1.8     | ug/L  | 0.47   | 0.057  | 10 | 09/27/11 12:00 | 09/27/11 19:43 | 120-12-7  | M1   |
| Benzo(a)anthracene  | 0.47    | ug/L  | 0.047  | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 11:50 | 56-55-3   | M1   |
| Benzo(a)pyrene  | 0.12    | ug/L  | 0.047  | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 11:50 | 50-32-8   |      |
| Benzo(b)fluoranthene  | 0.059   | ug/L  | 0.047  | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 11:50 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | 0.040J  | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 11:50 | 191-24-2  |      |
| Benzo(k)fluoranthene  | 0.084   | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 11:50 | 207-08-9  |      |
| Chrysene  | 0.38    | ug/L  | 0.047  | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 11:50 | 218-01-9  | M1   |
| Dibenz(a,h)anthracene   | 0.0088J | ug/L  | 0.047  | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 11:50 | 53-70-3   |      |
| Fluoranthene  | 2.1     | ug/L  | 0.47   | 0.044  | 10 | 09/27/11 12:00 | 09/27/11 19:43 | 206-44-0  | M1   |
| Fluorene  | 2.3     | ug/L  | 0.47   | 0.048  | 10 | 09/27/11 12:00 | 09/27/11 19:43 | 86-73-7   | M1   |
| Indeno(1,2,3-cd)pyrene  | 0.029J  | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 11:50 | 193-39-5  |      |
| 1-Methylnaphthalene   | 3.5     | ug/L  | 0.47   | 0.050  | 10 | 09/27/11 12:00 | 09/27/11 19:43 | 90-12-0   | M1   |
| 2-Methylnaphthalene   | 0.030J  | ug/L  | 0.047  | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 11:50 | 91-57-6   |      |
| Naphthalene   | 1.1     | ug/L  | 0.47   | 0.048  | 10 | 09/27/11 12:00 | 09/27/11 19:43 | 91-20-3   | B,M1 |
| Phenanthrene  | 3.6     | ug/L  | 0.47   | 0.081  | 10 | 09/27/11 12:00 | 09/27/11 19:43 | 85-01-8   | M1   |
| Pyrene  | 2.9     | ug/L  | 0.47   | 0.047  | 10 | 09/27/11 12:00 | 09/27/11 19:43 | 129-00-0  | M1   |
| 2-Fluorobiphenyl (S)  | 71 %.   |       | 27-130 |        | 1  | 09/27/11 12:00 | 09/27/11 11:50 | 321-60-8  |      |
| Terphenyl-d14 (S)   | 113 %.  |       | 66-140 |        | 1  | 09/27/11 12:00 | 09/27/11 11:50 | 1718-51-0 |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |        |        |    |                |                |           |      |
| Benzene   | 30.2    | ug/L  | 1.0    | 0.41   | 1  |                | 09/28/11 10:34 | 71-43-2   |      |
| Ethylbenzene  | 9.7     | ug/L  | 1.0    | 0.54   | 1  |                | 09/28/11 10:34 | 100-41-4  |      |



**ANALYTICAL RESULTS**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

Sample: 092011005 Lab ID: 4051272005 Collected: 09/20/11 11:06 Received: 09/23/11 15:30 Matrix: Water

| Parameters                                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| Toluene                                     | 2.9     | ug/L  | 1.0    | 0.67 | 1  |          | 09/28/11 10:34 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                      | <0.97   | ug/L  | 1.0    | 0.97 | 1  |          | 09/28/11 10:34 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                      | <0.83   | ug/L  | 1.0    | 0.83 | 1  |          | 09/28/11 10:34 | 108-67-8    |      |
| m&p-Xylene                                  | <1.8    | ug/L  | 2.0    | 1.8  | 1  |          | 09/28/11 10:34 | 179601-23-1 |      |
| o-Xylene                                    | 2.2     | ug/L  | 1.0    | 0.83 | 1  |          | 09/28/11 10:34 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)                    | 89      | %     | 70-130 |      | 1  |          | 09/28/11 10:34 | 460-00-4    |      |
| Dibromofluoromethane (S)                    | 88      | %     | 70-130 |      | 1  |          | 09/28/11 10:34 | 1868-53-7   |      |
| Toluene-d8 (S)                              | 95      | %     | 70-130 |      | 1  |          | 09/28/11 10:34 | 2037-26-5   |      |

Sample: 092011006 Lab ID: 4051272006 Collected: 09/20/11 11:50 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD   | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|-----|----------------|----------------|-----------|------|
| <b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |       |     |                |                |           |      |
| Acenaphthene  | 73.7    | ug/L  | 18.9   | 1.8   | 400 | 09/27/11 12:00 | 09/28/11 11:57 | 83-32-9   |      |
| Acenaphthylene  | 2.7     | ug/L  | 0.94   | 0.072 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 208-96-8  |      |
| Anthracene  | 6.4     | ug/L  | 0.94   | 0.11  | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 120-12-7  |      |
| Benzo(a)anthracene  | 0.097J  | ug/L  | 0.94   | 0.072 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 56-55-3   |      |
| Benzo(a)pyrene  | 0.079J  | ug/L  | 0.94   | 0.057 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.068  | ug/L  | 0.94   | 0.068 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.096  | ug/L  | 0.94   | 0.096 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.087  | ug/L  | 0.94   | 0.087 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 207-08-9  |      |
| Chrysene  | 0.20J   | ug/L  | 0.94   | 0.070 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <0.064  | ug/L  | 0.94   | 0.064 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 53-70-3   |      |
| Fluoranthene  | 1.9     | ug/L  | 0.94   | 0.088 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 206-44-0  |      |
| Fluorene  | 34.2    | ug/L  | 18.9   | 1.9   | 400 | 09/27/11 12:00 | 09/28/11 11:57 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <0.094  | ug/L  | 0.94   | 0.094 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 193-39-5  |      |
| 1-Methylnaphthalene   | 149     | ug/L  | 18.9   | 2.0   | 400 | 09/27/11 12:00 | 09/28/11 11:57 | 90-12-0   |      |
| 2-Methylnaphthalene   | 0.48J   | ug/L  | 0.94   | 0.077 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 91-57-6   |      |
| Naphthalene   | 14.7    | ug/L  | 0.94   | 0.097 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 91-20-3   | B    |
| Phenanthrene  | 18.2    | ug/L  | 0.94   | 0.16  | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 85-01-8   |      |
| Pyrene  | 2.0     | ug/L  | 0.94   | 0.095 | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 129-00-0  |      |
| 2-Fluorobiphenyl (S)  | 0       | %     | 27-130 |       | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 321-60-8  | S4   |
| Terphenyl-d14 (S)   | 0       | %     | 66-140 |       | 20  | 09/27/11 12:00 | 09/27/11 14:10 | 1718-51-0 | S4   |

|   |      |      |        |      |   |  |                |             |  |
|---|------|------|--------|------|---|--|----------------|-------------|--|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |      |      |        |      |   |  |                |             |  |
| Benzene                                     | 242  | ug/L | 1.0    | 0.41 | 1 |  | 09/28/11 10:57 | 71-43-2     |  |
| Ethylbenzene                                | 87.1 | ug/L | 1.0    | 0.54 | 1 |  | 09/28/11 10:57 | 100-41-4    |  |
| Toluene                                     | 3.9  | ug/L | 1.0    | 0.67 | 1 |  | 09/28/11 10:57 | 108-88-3    |  |
| 1,2,4-Trimethylbenzene                      | 18.0 | ug/L | 1.0    | 0.97 | 1 |  | 09/28/11 10:57 | 95-63-6     |  |
| 1,3,5-Trimethylbenzene                      | 3.4  | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 10:57 | 108-67-8    |  |
| m&p-Xylene                                  | 20.1 | ug/L | 2.0    | 1.8  | 1 |  | 09/28/11 10:57 | 179601-23-1 |  |
| o-Xylene                                    | 50.7 | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 10:57 | 95-47-6     |  |
| 4-Bromofluorobenzene (S)                    | 92   | %    | 70-130 |      | 1 |  | 09/28/11 10:57 | 460-00-4    |  |



### ANALYTICAL RESULTS

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

**Sample: 092011006**      **Lab ID: 4051272006**      Collected: 09/20/11 11:50      Received: 09/23/11 15:30      Matrix: Water

| Parameters               | Results | Units                       | LOQ    | LOD | DF | Prepared | Analyzed       | CAS No.   | Qual |
|--------------------------|---------|-----------------------------|--------|-----|----|----------|----------------|-----------|------|
| <b>8260 MSV</b>          |         | Analytical Method: EPA 8260 |        |     |    |          |                |           |      |
| Dibromofluoromethane (S) | 89 %    |                             | 70-130 |     | 1  |          | 09/28/11 10:57 | 1868-53-7 |      |
| Toluene-d8 (S)           | 95 %    |                             | 70-130 |     | 1  |          | 09/28/11 10:57 | 2037-26-5 |      |

**Sample: 092011007**      **Lab ID: 4051272007**      Collected: 09/20/11 13:07      Received: 09/23/11 15:30      Matrix: Water

| Parameters                  | Results | Units  | LOQ    | LOD  | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|-----------------------------|---------|--|--------|------|-----|----------------|----------------|-----------|------|
| <b>8270 MSSV PAH by SIM</b> |         | Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510 |        |      |     |                |                |           |      |
| Acenaphthene                | 9.4     | ug/L   | 4.7    | 0.45 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 83-32-9   |      |
| Acenaphthylene              | 0.62J   | ug/L   | 4.7    | 0.36 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 208-96-8  |      |
| Anthracene                  | 1.3J    | ug/L   | 4.7    | 0.57 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 120-12-7  |      |
| Benzo(a)anthracene          | <0.36   | ug/L   | 4.7    | 0.36 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 56-55-3   |      |
| Benzo(a)pyrene              | <0.29   | ug/L   | 4.7    | 0.29 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 50-32-8   |      |
| Benzo(b)fluoranthene        | <0.34   | ug/L   | 4.7    | 0.34 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 205-99-2  |      |
| Benzo(g,h,i)perylene        | <0.48   | ug/L   | 4.7    | 0.48 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 191-24-2  |      |
| Benzo(k)fluoranthene        | <0.44   | ug/L   | 4.7    | 0.44 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 207-08-9  |      |
| Chrysene                    | <0.35   | ug/L   | 4.7    | 0.35 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 218-01-9  |      |
| Dibenz(a,h)anthracene       | <0.32   | ug/L   | 4.7    | 0.32 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 53-70-3   |      |
| Fluoranthene                | <0.44   | ug/L   | 4.7    | 0.44 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 206-44-0  |      |
| Fluorene                    | 4.5J    | ug/L   | 4.7    | 0.48 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene      | <0.47   | ug/L   | 4.7    | 0.47 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 193-39-5  |      |
| 1-Methylnaphthalene         | 20.8    | ug/L   | 4.7    | 0.50 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 90-12-0   |      |
| 2-Methylnaphthalene         | <0.39   | ug/L   | 4.7    | 0.39 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 91-57-6   |      |
| Naphthalene                 | <0.48   | ug/L   | 4.7    | 0.48 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 91-20-3   |      |
| Phenanthrene                | 4.5J    | ug/L   | 4.7    | 0.81 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 85-01-8   |      |
| Pyrene                      | 0.66J   | ug/L   | 4.7    | 0.47 | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 129-00-0  |      |
| 2-Fluorobiphenyl (S)        | 0 %     |  | 27-130 |      | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 321-60-8  | S4   |
| Terphenyl-d14 (S)           | 0 %     |  | 66-140 |      | 100 | 09/27/11 12:00 | 09/27/11 14:45 | 1718-51-0 | S4   |

|                          |       |                             |        |      |   |  |                |             |  |
|--------------------------|-------|-----------------------------|--------|------|---|--|----------------|-------------|--|
| <b>8260 MSV</b>          |       | Analytical Method: EPA 8260 |        |      |   |  |                |             |  |
| Benzene                  | 103   | ug/L                        | 1.0    | 0.41 | 1 |  | 09/28/11 11:20 | 71-43-2     |  |
| Ethylbenzene             | 9.6   | ug/L                        | 1.0    | 0.54 | 1 |  | 09/28/11 11:20 | 100-41-4    |  |
| Toluene                  | 1.1   | ug/L                        | 1.0    | 0.67 | 1 |  | 09/28/11 11:20 | 108-88-3    |  |
| 1,2,4-Trimethylbenzene   | <0.97 | ug/L                        | 1.0    | 0.97 | 1 |  | 09/28/11 11:20 | 95-63-6     |  |
| 1,3,5-Trimethylbenzene   | <0.83 | ug/L                        | 1.0    | 0.83 | 1 |  | 09/28/11 11:20 | 108-67-8    |  |
| m&p-Xylene               | <1.8  | ug/L                        | 2.0    | 1.8  | 1 |  | 09/28/11 11:20 | 179601-23-1 |  |
| o-Xylene                 | 1.4   | ug/L                        | 1.0    | 0.83 | 1 |  | 09/28/11 11:20 | 95-47-6     |  |
| 4-Bromofluorobenzene (S) | 92 %  |                             | 70-130 |      | 1 |  | 09/28/11 11:20 | 460-00-4    |  |
| Dibromofluoromethane (S) | 90 %  |                             | 70-130 |      | 1 |  | 09/28/11 11:20 | 1868-53-7   |  |
| Toluene-d8 (S)           | 95 %  |                             | 70-130 |      | 1 |  | 09/28/11 11:20 | 2037-26-5   |  |



**ANALYTICAL RESULTS**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

Sample: 092011008 Lab ID: 4051272008 Collected: 09/20/11 13:30 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD    | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |        |        |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |        |    |                |                |           |      |
| Acenaphthene  | 0.013J  | ug/L  | 0.047  | 0.0045 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 83-32-9   |      |
| Acenaphthylene  | 0.0069J | ug/L  | 0.047  | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 208-96-8  |      |
| Anthracene  | <0.0057 | ug/L  | 0.047  | 0.0057 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.0036 | ug/L  | 0.047  | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 56-55-3   |      |
| Benzo(a)pyrene  | 0.0030J | ug/L  | 0.047  | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.0034 | ug/L  | 0.047  | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.0048 | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.0044 | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 207-08-9  |      |
| Chrysene  | 0.0062J | ug/L  | 0.047  | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <0.0032 | ug/L  | 0.047  | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 53-70-3   |      |
| Fluoranthene  | 0.011J  | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 206-44-0  |      |
| Fluorene  | <0.0048 | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <0.0047 | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 193-39-5  |      |
| 1-Methylnaphthalene   | 0.015J  | ug/L  | 0.047  | 0.0050 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 90-12-0   |      |
| 2-Methylnaphthalene   | 0.0085J | ug/L  | 0.047  | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 91-57-6   |      |
| Naphthalene   | 0.038J  | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 91-20-3   | B    |
| Phenanthrene  | 0.015J  | ug/L  | 0.047  | 0.0081 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 85-01-8   |      |
| Pyrene  | 0.019J  | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 129-00-0  |      |
| 2-Fluorobiphenyl (S)  | 59 %    |       | 27-130 |        | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 321-60-8  |      |
| Terphenyl-d14 (S)   | 110 %   |       | 66-140 |        | 1  | 09/27/11 12:00 | 09/27/11 15:55 | 1718-51-0 |      |

|                             |       |      |        |      |   |  |                |             |  |
|-----------------------------|-------|------|--------|------|---|--|----------------|-------------|--|
| <b>8260 MSV</b>             |       |      |        |      |   |  |                |             |  |
| Analytical Method: EPA 8260 |       |      |        |      |   |  |                |             |  |
| Benzene                     | <0.41 | ug/L | 1.0    | 0.41 | 1 |  | 09/28/11 18:48 | 71-43-2     |  |
| Ethylbenzene                | <0.54 | ug/L | 1.0    | 0.54 | 1 |  | 09/28/11 18:48 | 100-41-4    |  |
| Toluene                     | <0.67 | ug/L | 1.0    | 0.67 | 1 |  | 09/28/11 18:48 | 108-88-3    |  |
| 1,2,4-Trimethylbenzene      | <0.97 | ug/L | 1.0    | 0.97 | 1 |  | 09/28/11 18:48 | 95-63-6     |  |
| 1,3,5-Trimethylbenzene      | <0.83 | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 18:48 | 108-67-8    |  |
| m&p-Xylene                  | <1.8  | ug/L | 2.0    | 1.8  | 1 |  | 09/28/11 18:48 | 179601-23-1 |  |
| o-Xylene                    | <0.83 | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 18:48 | 95-47-6     |  |
| 4-Bromofluorobenzene (S)    | 87 %  |      | 70-130 |      | 1 |  | 09/28/11 18:48 | 460-00-4    |  |
| Dibromofluoromethane (S)    | 90 %  |      | 70-130 |      | 1 |  | 09/28/11 18:48 | 1868-53-7   |  |
| Toluene-d8 (S)              | 97 %  |      | 70-130 |      | 1 |  | 09/28/11 18:48 | 2037-26-5   |  |

Sample: 092011009 Lab ID: 4051272009 Collected: 09/20/11 14:16 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ   | LOD    | DF | Prepared       | Analyzed       | CAS No.  | Qual |
|---|---------|-------|-------|--------|----|----------------|----------------|----------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |       |        |    |                |                |          |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |       |        |    |                |                |          |      |
| Acenaphthene  | 1.7     | ug/L  | 0.24  | 0.023  | 5  | 09/27/11 12:00 | 09/28/11 13:24 | 83-32-9  |      |
| Acenaphthylene  | 0.27    | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 208-96-8 |      |
| Anthracene  | 0.37    | ug/L  | 0.047 | 0.0057 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 120-12-7 |      |
| Benzo(a)anthracene  | 0.0078J | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 56-55-3  |      |
| Benzo(a)pyrene  | <0.0029 | ug/L  | 0.047 | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 50-32-8  |      |
| Benzo(b)fluoranthene  | <0.0034 | ug/L  | 0.047 | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 205-99-2 |      |

Date: 09/29/2011 04:02 PM

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

Sample: 092011009 Lab ID: 4051272009 Collected: 09/20/11 14:16 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD    | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |        |        |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |        |    |                |                |           |      |
| Benzo(g,h,i)perylene  | <0.0048 | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.0044 | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 207-08-9  |      |
| Chrysene  | 0.0095J | ug/L  | 0.047  | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <0.0032 | ug/L  | 0.047  | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 53-70-3   |      |
| Fluoranthene  | 0.16    | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 206-44-0  |      |
| Fluorene  | 1.9     | ug/L  | 0.24   | 0.024  | 5  | 09/27/11 12:00 | 09/28/11 13:24 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <0.0047 | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 193-39-5  |      |
| 1-Methylnaphthalene   | 0.33    | ug/L  | 0.047  | 0.0050 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 90-12-0   |      |
| 2-Methylnaphthalene   | <0.0039 | ug/L  | 0.047  | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 91-57-6   |      |
| Naphthalene   | 0.83    | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 91-20-3   | B    |
| Phenanthrene  | 2.6     | ug/L  | 0.24   | 0.040  | 5  | 09/27/11 12:00 | 09/28/11 13:24 | 85-01-8   |      |
| Pyrene  | 0.13    | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 129-00-0  |      |
| 2-Fluorobiphenyl (S)  | 47 %    |       | 27-130 |        | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 321-60-8  |      |
| Terphenyl-d14 (S)   | 127 %   |       | 66-140 |        | 1  | 09/27/11 12:00 | 09/27/11 16:13 | 1718-51-0 |      |

|                             |       |      |        |      |   |  |                |             |  |
|-----------------------------|-------|------|--------|------|---|--|----------------|-------------|--|
| <b>8260 MSV</b>             |       |      |        |      |   |  |                |             |  |
| Analytical Method: EPA 8260 |       |      |        |      |   |  |                |             |  |
| Benzene                     | <0.41 | ug/L | 1.0    | 0.41 | 1 |  | 09/28/11 11:44 | 71-43-2     |  |
| Ethylbenzene                | <0.54 | ug/L | 1.0    | 0.54 | 1 |  | 09/28/11 11:44 | 100-41-4    |  |
| Toluene                     | <0.67 | ug/L | 1.0    | 0.67 | 1 |  | 09/28/11 11:44 | 108-88-3    |  |
| 1,2,4-Trimethylbenzene      | <0.97 | ug/L | 1.0    | 0.97 | 1 |  | 09/28/11 11:44 | 95-63-6     |  |
| 1,3,5-Trimethylbenzene      | <0.83 | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 11:44 | 108-67-8    |  |
| m&p-Xylene                  | <1.8  | ug/L | 2.0    | 1.8  | 1 |  | 09/28/11 11:44 | 179601-23-1 |  |
| o-Xylene                    | <0.83 | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 11:44 | 95-47-6     |  |
| 4-Bromofluorobenzene (S)    | 89 %  |      | 70-130 |      | 1 |  | 09/28/11 11:44 | 460-00-4    |  |
| Dibromofluoromethane (S)    | 88 %  |      | 70-130 |      | 1 |  | 09/28/11 11:44 | 1868-53-7   |  |
| Toluene-d8 (S)              | 97 %  |      | 70-130 |      | 1 |  | 09/28/11 11:44 | 2037-26-5   |  |

Sample: 092011010 Lab ID: 4051272010 Collected: 09/20/11 14:45 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ   | LOD    | DF | Prepared       | Analyzed       | CAS No.  | Qual |
|---|---------|-------|-------|--------|----|----------------|----------------|----------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |       |        |    |                |                |          |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |       |        |    |                |                |          |      |
| Acenaphthene  | 0.033J  | ug/L  | 0.047 | 0.0045 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 83-32-9  |      |
| Acenaphthylene  | 0.049   | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 208-96-8 |      |
| Anthracene  | 0.036J  | ug/L  | 0.047 | 0.0057 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 120-12-7 |      |
| Benzo(a)anthracene  | 0.053   | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 56-55-3  |      |
| Benzo(a)pyrene  | 0.049   | ug/L  | 0.047 | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 50-32-8  |      |
| Benzo(b)fluoranthene  | 0.030J  | ug/L  | 0.047 | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 205-99-2 |      |
| Benzo(g,h,i)perylene  | 0.031J  | ug/L  | 0.047 | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 191-24-2 |      |
| Benzo(k)fluoranthene  | 0.031J  | ug/L  | 0.047 | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 207-08-9 |      |
| Chrysene  | 0.058   | ug/L  | 0.047 | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 218-01-9 |      |
| Dibenz(a,h)anthracene   | 0.0042J | ug/L  | 0.047 | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 53-70-3  |      |
| Fluoranthene  | 0.11    | ug/L  | 0.047 | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 206-44-0 |      |
| Fluorene  | 0.027J  | ug/L  | 0.047 | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 86-73-7  |      |



**ANALYTICAL RESULTS**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

Sample: 092011010 Lab ID: 4051272010 Collected: 09/20/11 14:45 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD    | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |        |        |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |        |    |                |                |           |      |
| Indeno(1,2,3-cd)pyrene  | 0.020J  | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 193-39-5  |      |
| 1-Methylnaphthalene   | 0.42    | ug/L  | 0.047  | 0.0050 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 90-12-0   |      |
| 2-Methylnaphthalene   | 0.026J  | ug/L  | 0.047  | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 91-57-6   |      |
| Naphthalene   | 4.1     | ug/L  | 0.47   | 0.048  | 10 | 09/27/11 12:00 | 09/28/11 13:42 | 91-20-3   | B    |
| Phenanthrene  | 0.12    | ug/L  | 0.047  | 0.0081 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 85-01-8   |      |
| Pyrene  | 0.16    | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 129-00-0  |      |
| 2-Fluorobiphenyl (S)  | 47 %    |       | 27-130 |        | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 321-60-8  |      |
| Terphenyl-d14 (S)   | 108 %   |       | 66-140 |        | 1  | 09/27/11 12:00 | 09/27/11 16:30 | 1718-51-0 |      |

|                             |       |      |        |      |   |  |                |             |  |
|-----------------------------|-------|------|--------|------|---|--|----------------|-------------|--|
| <b>8260 MSV</b>             |       |      |        |      |   |  |                |             |  |
| Analytical Method: EPA 8260 |       |      |        |      |   |  |                |             |  |
| Benzene                     | 84.3  | ug/L | 1.0    | 0.41 | 1 |  | 09/28/11 19:34 | 71-43-2     |  |
| Ethylbenzene                | 1.0   | ug/L | 1.0    | 0.54 | 1 |  | 09/28/11 19:34 | 100-41-4    |  |
| Toluene                     | 0.81J | ug/L | 1.0    | 0.67 | 1 |  | 09/28/11 19:34 | 108-88-3    |  |
| 1,2,4-Trimethylbenzene      | 5.3   | ug/L | 1.0    | 0.97 | 1 |  | 09/28/11 19:34 | 95-63-6     |  |
| 1,3,5-Trimethylbenzene      | <0.83 | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 19:34 | 108-67-8    |  |
| m&p-Xylene                  | <1.8  | ug/L | 2.0    | 1.8  | 1 |  | 09/28/11 19:34 | 179601-23-1 |  |
| o-Xylene                    | 11.9  | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 19:34 | 95-47-6     |  |
| 4-Bromofluorobenzene (S)    | 93 %  |      | 70-130 |      | 1 |  | 09/28/11 19:34 | 460-00-4    |  |
| Dibromofluoromethane (S)    | 90 %  |      | 70-130 |      | 1 |  | 09/28/11 19:34 | 1868-53-7   |  |
| Toluene-d8 (S)              | 96 %  |      | 70-130 |      | 1 |  | 09/28/11 19:34 | 2037-26-5   |  |

Sample: 092011011 Lab ID: 4051272011 Collected: 09/20/11 15:05 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ   | LOD    | DF | Prepared       | Analyzed       | CAS No.  | Qual |
|---|---------|-------|-------|--------|----|----------------|----------------|----------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |       |        |    |                |                |          |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |       |        |    |                |                |          |      |
| Acenaphthene  | 0.019J  | ug/L  | 0.047 | 0.0045 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 83-32-9  |      |
| Acenaphthylene  | 0.0068J | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 208-96-8 |      |
| Anthracene  | 0.010J  | ug/L  | 0.047 | 0.0057 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 120-12-7 |      |
| Benzo(a)anthracene  | 0.0064J | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 56-55-3  |      |
| Benzo(a)pyrene  | 0.0065J | ug/L  | 0.047 | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 50-32-8  |      |
| Benzo(b)fluoranthene  | 0.0047J | ug/L  | 0.047 | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 205-99-2 |      |
| Benzo(g,h,i)perylene  | 0.0057J | ug/L  | 0.047 | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 191-24-2 |      |
| Benzo(k)fluoranthene  | 0.0069J | ug/L  | 0.047 | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 207-08-9 |      |
| Chrysene  | 0.011J  | ug/L  | 0.047 | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 218-01-9 |      |
| Dibenz(a,h)anthracene   | <0.0032 | ug/L  | 0.047 | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 53-70-3  |      |
| Fluoranthene  | 0.014J  | ug/L  | 0.047 | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 206-44-0 |      |
| Fluorene  | 0.0059J | ug/L  | 0.047 | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 86-73-7  |      |
| Indeno(1,2,3-cd)pyrene  | <0.0047 | ug/L  | 0.047 | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 193-39-5 |      |
| 1-Methylnaphthalene   | 0.029J  | ug/L  | 0.047 | 0.0050 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 90-12-0  |      |
| 2-Methylnaphthalene   | 0.0080J | ug/L  | 0.047 | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 91-57-6  |      |
| Naphthalene   | 0.12    | ug/L  | 0.047 | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 91-20-3  | B    |
| Phenanthrene  | 0.022J  | ug/L  | 0.047 | 0.0081 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 85-01-8  |      |
| Pyrene  | 0.017J  | ug/L  | 0.047 | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 129-00-0 |      |



**ANALYTICAL RESULTS**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

Sample: 092011011 Lab ID: 4051272011 Collected: 09/20/11 15:05 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |      |    |                |                |             |      |
| 2-Fluorobiphenyl (S)  | 45 %    |       | 27-130 |      | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 321-60-8    |      |
| Terphenyl-d14 (S)   | 106 %   |       | 66-140 |      | 1  | 09/27/11 12:00 | 09/27/11 16:48 | 1718-51-0   |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |        |      |    |                |                |             |      |
| Benzene   | <0.41   | ug/L  | 1.0    | 0.41 | 1  |                | 09/28/11 12:07 | 71-43-2     |      |
| Ethylbenzene  | <0.54   | ug/L  | 1.0    | 0.54 | 1  |                | 09/28/11 12:07 | 100-41-4    |      |
| Toluene   | <0.67   | ug/L  | 1.0    | 0.67 | 1  |                | 09/28/11 12:07 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene  | <0.97   | ug/L  | 1.0    | 0.97 | 1  |                | 09/28/11 12:07 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | <0.83   | ug/L  | 1.0    | 0.83 | 1  |                | 09/28/11 12:07 | 108-67-8    |      |
| m&p-Xylene  | <1.8    | ug/L  | 2.0    | 1.8  | 1  |                | 09/28/11 12:07 | 179601-23-1 |      |
| o-Xylene  | <0.83   | ug/L  | 1.0    | 0.83 | 1  |                | 09/28/11 12:07 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)  | 89 %    |       | 70-130 |      | 1  |                | 09/28/11 12:07 | 460-00-4    |      |
| Dibromofluoromethane (S)  | 88 %    |       | 70-130 |      | 1  |                | 09/28/11 12:07 | 1868-53-7   |      |
| Toluene-d8 (S)  | 97 %    |       | 70-130 |      | 1  |                | 09/28/11 12:07 | 2037-26-5   |      |

Sample: 092011012 Lab ID: 4051272012 Collected: 09/20/11 16:22 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD   | DF   | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|------|----------------|----------------|-----------|------|
| <b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |       |      |                |                |           |      |
| Acenaphthene  | 83.0J   | ug/L  | 94.3   | 9.1   | 2000 | 09/27/11 12:00 | 09/28/11 12:32 | 83-32-9   |      |
| Acenaphthylene  | 3.3     | ug/L  | 0.94   | 0.072 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 208-96-8  |      |
| Anthracene  | <0.11   | ug/L  | 0.94   | 0.11  | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.072  | ug/L  | 0.94   | 0.072 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.057  | ug/L  | 0.94   | 0.057 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.068  | ug/L  | 0.94   | 0.068 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.096  | ug/L  | 0.94   | 0.096 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.087  | ug/L  | 0.94   | 0.087 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 207-08-9  |      |
| Chrysene  | <0.070  | ug/L  | 0.94   | 0.070 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <0.064  | ug/L  | 0.94   | 0.064 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 53-70-3   |      |
| Fluoranthene  | <0.088  | ug/L  | 0.94   | 0.088 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 206-44-0  |      |
| Fluorene  | 2.3     | ug/L  | 0.94   | 0.095 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <0.094  | ug/L  | 0.94   | 0.094 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 193-39-5  |      |
| 1-Methylnaphthalene   | 117     | ug/L  | 94.3   | 10.0  | 2000 | 09/27/11 12:00 | 09/28/11 12:32 | 90-12-0   |      |
| 2-Methylnaphthalene   | 14.5    | ug/L  | 0.94   | 0.077 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 91-57-6   |      |
| Naphthalene   | 507     | ug/L  | 94.3   | 9.7   | 2000 | 09/27/11 12:00 | 09/28/11 12:32 | 91-20-3   | B    |
| Phenanthrene  | <0.16   | ug/L  | 0.94   | 0.16  | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 85-01-8   |      |
| Pyrene  | <0.095  | ug/L  | 0.94   | 0.095 | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 129-00-0  |      |
| 2-Fluorobiphenyl (S)  | 0 %     |       | 27-130 |       | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 321-60-8  | S4   |
| Terphenyl-d14 (S)   | 0 %     |       | 66-140 |       | 20   | 09/27/11 12:00 | 09/27/11 14:28 | 1718-51-0 | S4   |
| <b>8260 MSV</b> Analytical Method: EPA 8260   |         |       |        |       |      |                |                |           |      |
| Benzene   | 1030    | ug/L  | 10.0   | 4.1   | 10   |                | 09/28/11 16:44 | 71-43-2   |      |
| Ethylbenzene  | 667     | ug/L  | 10.0   | 5.4   | 10   |                | 09/28/11 16:44 | 100-41-4  |      |



**ANALYTICAL RESULTS**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

Sample: 092011012 Lab ID: 4051272012 Collected: 09/20/11 16:22 Received: 09/23/11 15:30 Matrix: Water

| Parameters                                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| Toluene                                     | 14.3    | ug/L  | 10.0   | 6.7  | 10 |          | 09/28/11 16:44 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                      | 124     | ug/L  | 10.0   | 9.7  | 10 |          | 09/28/11 16:44 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                      | 23.0    | ug/L  | 10.0   | 8.3  | 10 |          | 09/28/11 16:44 | 108-67-8    |      |
| m&p-Xylene                                  | 71.3    | ug/L  | 20.0   | 18.0 | 10 |          | 09/28/11 16:44 | 179601-23-1 |      |
| o-Xylene                                    | 165     | ug/L  | 10.0   | 8.3  | 10 |          | 09/28/11 16:44 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)                    | 91      | %     | 70-130 |      | 10 |          | 09/28/11 16:44 | 460-00-4    |      |
| Dibromofluoromethane (S)                    | 86      | %     | 70-130 |      | 10 |          | 09/28/11 16:44 | 1868-53-7   |      |
| Toluene-d8 (S)                              | 97      | %     | 70-130 |      | 10 |          | 09/28/11 16:44 | 2037-26-5   |      |

Sample: 092011013 Lab ID: 4051272013 Collected: 09/20/11 16:49 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD    | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |        |    |                |                |           |      |
| Acenaphthene  | 0.27    | ug/L  | 0.047  | 0.0045 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 83-32-9   |      |
| Acenaphthylene  | 0.018J  | ug/L  | 0.047  | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 208-96-8  |      |
| Anthracene  | 0.0072J | ug/L  | 0.047  | 0.0057 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.0036 | ug/L  | 0.047  | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.0029 | ug/L  | 0.047  | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.0034 | ug/L  | 0.047  | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.0048 | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.0044 | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 207-08-9  |      |
| Chrysene  | 0.0055J | ug/L  | 0.047  | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <0.0032 | ug/L  | 0.047  | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 53-70-3   |      |
| Fluoranthene  | 0.0097J | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 206-44-0  |      |
| Fluorene  | 0.015J  | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <0.0047 | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 193-39-5  |      |
| 1-Methylnaphthalene   | 0.055   | ug/L  | 0.047  | 0.0050 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 90-12-0   |      |
| 2-Methylnaphthalene   | <0.0039 | ug/L  | 0.047  | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 91-57-6   |      |
| Naphthalene   | 0.088   | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 91-20-3   | B    |
| Phenanthrene  | 0.012J  | ug/L  | 0.047  | 0.0081 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 85-01-8   |      |
| Pyrene  | 0.013J  | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 129-00-0  |      |
| 2-Fluorobiphenyl (S)  | 53      | %     | 27-130 |        | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 321-60-8  |      |
| Terphenyl-d14 (S)   | 108     | %     | 66-140 |        | 1  | 09/27/11 12:00 | 09/27/11 17:05 | 1718-51-0 |      |

|   |       |      |        |      |   |  |                |             |  |
|---|-------|------|--------|------|---|--|----------------|-------------|--|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |       |      |        |      |   |  |                |             |  |
| Benzene                                     | <0.41 | ug/L | 1.0    | 0.41 | 1 |  | 09/28/11 12:30 | 71-43-2     |  |
| Ethylbenzene                                | <0.54 | ug/L | 1.0    | 0.54 | 1 |  | 09/28/11 12:30 | 100-41-4    |  |
| Toluene                                     | <0.67 | ug/L | 1.0    | 0.67 | 1 |  | 09/28/11 12:30 | 108-88-3    |  |
| 1,2,4-Trimethylbenzene                      | <0.97 | ug/L | 1.0    | 0.97 | 1 |  | 09/28/11 12:30 | 95-63-6     |  |
| 1,3,5-Trimethylbenzene                      | <0.83 | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 12:30 | 108-67-8    |  |
| m&p-Xylene                                  | <1.8  | ug/L | 2.0    | 1.8  | 1 |  | 09/28/11 12:30 | 179601-23-1 |  |
| o-Xylene                                    | <0.83 | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 12:30 | 95-47-6     |  |
| 4-Bromofluorobenzene (S)                    | 88    | %    | 70-130 |      | 1 |  | 09/28/11 12:30 | 460-00-4    |  |

Date: 09/29/2011 04:02 PM

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

| Parameters   | Results | Units | LOQ    | LOD | DF | Prepared | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-----|----|----------|----------------|-----------|------|
| <b>Sample: 092011013      Lab ID: 4051272013      Collected: 09/20/11 16:49      Received: 09/23/11 15:30      Matrix: Water</b> |         |       |        |     |    |          |                |           |      |
| Analytical Method: EPA 8260  |         |       |        |     |    |          |                |           |      |
| Dibromofluoromethane (S)   | 90 %.   |       | 70-130 |     | 1  |          | 09/28/11 12:30 | 1868-53-7 |      |
| Toluene-d8 (S)   | 97 %.   |       | 70-130 |     | 1  |          | 09/28/11 12:30 | 2037-26-5 |      |

| Parameters   | Results      | Units | LOQ    | LOD    | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|--------------|-------|--------|--------|----|----------------|----------------|-----------|------|
| <b>Sample: 092011014      Lab ID: 4051272014      Collected: 09/20/11 16:53      Received: 09/23/11 15:30      Matrix: Water</b> |              |       |        |        |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510   |              |       |        |        |    |                |                |           |      |
| Acenaphthene   | 1.7 ug/L     |       | 0.24   | 0.023  | 5  | 09/27/11 12:00 | 09/28/11 13:59 | 83-32-9   |      |
| Acenaphthylene   | 0.089 ug/L   |       | 0.047  | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 208-96-8  |      |
| Anthracene   | 0.81 ug/L    |       | 0.047  | 0.0057 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 120-12-7  |      |
| Benzo(a)anthracene   | 0.046J ug/L  |       | 0.047  | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 56-55-3   |      |
| Benzo(a)pyrene   | 0.054 ug/L   |       | 0.047  | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 50-32-8   |      |
| Benzo(b)fluoranthene   | 0.028J ug/L  |       | 0.047  | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | 0.041J ug/L  |       | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 191-24-2  |      |
| Benzo(k)fluoranthene   | 0.036J ug/L  |       | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 207-08-9  |      |
| Chrysene   | 0.063 ug/L   |       | 0.047  | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | 0.0067J ug/L |       | 0.047  | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 53-70-3   |      |
| Fluoranthene   | 0.45 ug/L    |       | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 206-44-0  |      |
| Fluorene   | 0.89 ug/L    |       | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | 0.028J ug/L  |       | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 193-39-5  |      |
| 1-Methylnaphthalene  | 0.61 ug/L    |       | 0.047  | 0.0050 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 90-12-0   |      |
| 2-Methylnaphthalene  | 0.072 ug/L   |       | 0.047  | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 91-57-6   |      |
| Naphthalene  | 1.0 ug/L     |       | 0.24   | 0.024  | 5  | 09/27/11 12:00 | 09/28/11 13:59 | 91-20-3   | B    |
| Phenanthrene   | 2.8 ug/L     |       | 0.24   | 0.040  | 5  | 09/27/11 12:00 | 09/28/11 13:59 | 85-01-8   |      |
| Pyrene   | 0.83 ug/L    |       | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 129-00-0  |      |
| 2-Fluorobiphenyl (S)   | 64 %.        |       | 27-130 |        | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 321-60-8  |      |
| Terphenyl-d14 (S)  | 97 %.        |       | 66-140 |        | 1  | 09/27/11 12:00 | 09/27/11 17:23 | 1718-51-0 |      |

| Parameters                                       | Results    | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--|------------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV      Analytical Method: EPA 8260</b> |            |       |        |      |    |          |                |             |      |
| Benzene  | 1.6 ug/L   |       | 1.0    | 0.41 | 1  |          | 09/28/11 12:53 | 71-43-2     |      |
| Ethylbenzene                                     | <0.54 ug/L |       | 1.0    | 0.54 | 1  |          | 09/28/11 12:53 | 100-41-4    |      |
| Toluene  | <0.67 ug/L |       | 1.0    | 0.67 | 1  |          | 09/28/11 12:53 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                           | <0.97 ug/L |       | 1.0    | 0.97 | 1  |          | 09/28/11 12:53 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                           | <0.83 ug/L |       | 1.0    | 0.83 | 1  |          | 09/28/11 12:53 | 108-67-8    |      |
| m&p-Xylene                                       | <1.8 ug/L  |       | 2.0    | 1.8  | 1  |          | 09/28/11 12:53 | 179601-23-1 |      |
| o-Xylene   | <0.83 ug/L |       | 1.0    | 0.83 | 1  |          | 09/28/11 12:53 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)                         | 89 %.      |       | 70-130 |      | 1  |          | 09/28/11 12:53 | 460-00-4    |      |
| Dibromofluoromethane (S)                         | 88 %.      |       | 70-130 |      | 1  |          | 09/28/11 12:53 | 1868-53-7   |      |
| Toluene-d8 (S)                                   | 97 %.      |       | 70-130 |      | 1  |          | 09/28/11 12:53 | 2037-26-5   |      |



### ANALYTICAL RESULTS

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

Sample: 092011015 Lab ID: 4051272015 Collected: 09/20/11 17:10 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD  | DF   | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|------|----------------|----------------|-----------|------|
| <b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |      |      |                |                |           |      |
| Acenaphthene  | 83.0J   | ug/L  | 94.3   | 9.1  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 83-32-9   |      |
| Acenaphthylene  | <7.2    | ug/L  | 94.3   | 7.2  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 208-96-8  |      |
| Anthracene  | 41.1J   | ug/L  | 94.3   | 11.5 | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 120-12-7  |      |
| Benzo(a)anthracene  | <7.2    | ug/L  | 94.3   | 7.2  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 56-55-3   |      |
| Benzo(a)pyrene  | <5.7    | ug/L  | 94.3   | 5.7  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <6.8    | ug/L  | 94.3   | 6.8  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <9.6    | ug/L  | 94.3   | 9.6  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <8.7    | ug/L  | 94.3   | 8.7  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 207-08-9  |      |
| Chrysene  | <7.0    | ug/L  | 94.3   | 7.0  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <6.4    | ug/L  | 94.3   | 6.4  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 53-70-3   |      |
| Fluoranthene  | 10.5J   | ug/L  | 94.3   | 8.8  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 206-44-0  |      |
| Fluorene  | 40.6J   | ug/L  | 94.3   | 9.5  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <9.4    | ug/L  | 94.3   | 9.4  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 193-39-5  |      |
| 1-Methylnaphthalene   | 80.8J   | ug/L  | 94.3   | 10.0 | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 90-12-0   |      |
| 2-Methylnaphthalene   | 67.9J   | ug/L  | 94.3   | 7.7  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 91-57-6   |      |
| Naphthalene   | 978     | ug/L  | 94.3   | 9.7  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 91-20-3   | B    |
| Phenanthrene  | 76.4J   | ug/L  | 94.3   | 16.2 | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 85-01-8   |      |
| Pyrene  | 14.8J   | ug/L  | 94.3   | 9.5  | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 129-00-0  |      |
| 2-Fluorobiphenyl (S)  | 0 %     |       | 27-130 |      | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 321-60-8  | S4   |
| Terphenyl-d14 (S)   | 0 %     |       | 66-140 |      | 2000 | 09/27/11 12:00 | 09/28/11 14:34 | 1718-51-0 | S4   |

|   |       |      |        |      |    |  |                |             |  |
|---|-------|------|--------|------|----|--|----------------|-------------|--|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |       |      |        |      |    |  |                |             |  |
| Benzene                                     | 2780  | ug/L | 25.0   | 10.2 | 25 |  | 09/28/11 15:12 | 71-43-2     |  |
| Ethylbenzene                                | 666   | ug/L | 25.0   | 13.5 | 25 |  | 09/28/11 15:12 | 100-41-4    |  |
| Toluene                                     | 23.1J | ug/L | 25.0   | 16.8 | 25 |  | 09/28/11 15:12 | 108-88-3    |  |
| 1,2,4-Trimethylbenzene                      | 57.4  | ug/L | 25.0   | 24.2 | 25 |  | 09/28/11 15:12 | 95-63-6     |  |
| 1,3,5-Trimethylbenzene                      | <20.8 | ug/L | 25.0   | 20.8 | 25 |  | 09/28/11 15:12 | 108-67-8    |  |
| m&p-Xylene                                  | 269   | ug/L | 50.0   | 45.0 | 25 |  | 09/28/11 15:12 | 179601-23-1 |  |
| o-Xylene                                    | 180   | ug/L | 25.0   | 20.8 | 25 |  | 09/28/11 15:12 | 95-47-6     |  |
| 4-Bromofluorobenzene (S)                    | 90 %  |      | 70-130 |      | 25 |  | 09/28/11 15:12 | 460-00-4    |  |
| Dibromofluoromethane (S)                    | 87 %  |      | 70-130 |      | 25 |  | 09/28/11 15:12 | 1868-53-7   |  |
| Toluene-d8 (S)                              | 97 %  |      | 70-130 |      | 25 |  | 09/28/11 15:12 | 2037-26-5   |  |

Sample: 092011016 Lab ID: 4051272016 Collected: 09/20/11 17:29 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ   | LOD    | DF | Prepared       | Analyzed       | CAS No.  | Qual |
|---|---------|-------|-------|--------|----|----------------|----------------|----------|------|
| <b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |       |        |    |                |                |          |      |
| Acenaphthene  | 0.046J  | ug/L  | 0.047 | 0.0045 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 83-32-9  |      |
| Acenaphthylene  | 0.083   | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 208-96-8 |      |
| Anthracene  | 0.11    | ug/L  | 0.047 | 0.0057 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 120-12-7 |      |
| Benzo(a)anthracene  | 0.18    | ug/L  | 0.047 | 0.0036 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 56-55-3  |      |
| Benzo(a)pyrene  | 0.18    | ug/L  | 0.047 | 0.0029 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 50-32-8  |      |
| Benzo(b)fluoranthene  | 0.078   | ug/L  | 0.047 | 0.0034 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 205-99-2 |      |



### ANALYTICAL RESULTS

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

**Sample: 092011016**      **Lab ID: 4051272016**      Collected: 09/20/11 17:29      Received: 09/23/11 15:30      Matrix: Water

| Parameters   | Results | Units | LOQ    | LOD    | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| <b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510 |         |       |        |        |    |                |                |           |      |
| Benzo(g,h,i)perylene   | 0.099   | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 191-24-2  |      |
| Benzo(k)fluoranthene   | 0.11    | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 207-08-9  |      |
| Chrysene   | 0.18    | ug/L  | 0.047  | 0.0035 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | 0.016J  | ug/L  | 0.047  | 0.0032 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 53-70-3   |      |
| Fluoranthene   | 0.37    | ug/L  | 0.047  | 0.0044 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 206-44-0  |      |
| Fluorene   | 0.035J  | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | 0.069   | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 193-39-5  |      |
| 1-Methylnaphthalene  | 0.010J  | ug/L  | 0.047  | 0.0050 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 90-12-0   |      |
| 2-Methylnaphthalene  | 0.0097J | ug/L  | 0.047  | 0.0039 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 91-57-6   |      |
| Naphthalene  | 0.024J  | ug/L  | 0.047  | 0.0048 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 91-20-3   | B    |
| Phenanthrene   | 0.32    | ug/L  | 0.047  | 0.0081 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 85-01-8   |      |
| Pyrene   | 0.50    | ug/L  | 0.047  | 0.0047 | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 129-00-0  |      |
| 2-Fluorobiphenyl (S)   | 55 %    |       | 27-130 |        | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 321-60-8  |      |
| Terphenyl-d14 (S)  | 113 %   |       | 66-140 |        | 1  | 09/27/11 12:00 | 09/27/11 17:40 | 1718-51-0 |      |

|   |       |      |        |      |   |  |                |             |  |
|---|-------|------|--------|------|---|--|----------------|-------------|--|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |       |      |        |      |   |  |                |             |  |
| Benzene                                     | <0.41 | ug/L | 1.0    | 0.41 | 1 |  | 09/28/11 19:11 | 71-43-2     |  |
| Ethylbenzene                                | <0.54 | ug/L | 1.0    | 0.54 | 1 |  | 09/28/11 19:11 | 100-41-4    |  |
| Toluene                                     | <0.67 | ug/L | 1.0    | 0.67 | 1 |  | 09/28/11 19:11 | 108-88-3    |  |
| 1,2,4-Trimethylbenzene                      | <0.97 | ug/L | 1.0    | 0.97 | 1 |  | 09/28/11 19:11 | 95-63-6     |  |
| 1,3,5-Trimethylbenzene                      | <0.83 | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 19:11 | 108-67-8    |  |
| m&p-Xylene                                  | <1.8  | ug/L | 2.0    | 1.8  | 1 |  | 09/28/11 19:11 | 179601-23-1 |  |
| o-Xylene                                    | <0.83 | ug/L | 1.0    | 0.83 | 1 |  | 09/28/11 19:11 | 95-47-6     |  |
| 4-Bromofluorobenzene (S)                    | 88 %  |      | 70-130 |      | 1 |  | 09/28/11 19:11 | 460-00-4    |  |
| Dibromofluoromethane (S)                    | 88 %  |      | 70-130 |      | 1 |  | 09/28/11 19:11 | 1868-53-7   |  |
| Toluene-d8 (S)                              | 98 %  |      | 70-130 |      | 1 |  | 09/28/11 19:11 | 2037-26-5   |  |

**Sample: 092011017**      **Lab ID: 4051272017**      Collected: 09/20/11 17:45      Received: 09/23/11 15:30      Matrix: Water

| Parameters   | Results | Units | LOQ | LOD  | DF  | Prepared       | Analyzed       | CAS No.  | Qual |
|--|---------|-------|-----|------|-----|----------------|----------------|----------|------|
| <b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510 |         |       |     |      |     |                |                |          |      |
| Acenaphthene   | 18.7    | ug/L  | 4.7 | 0.45 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 83-32-9  |      |
| Acenaphthylene   | 7.9     | ug/L  | 4.7 | 0.36 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 208-96-8 |      |
| Anthracene   | 11.0    | ug/L  | 4.7 | 0.57 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 120-12-7 |      |
| Benzo(a)anthracene   | 4.3J    | ug/L  | 4.7 | 0.36 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 56-55-3  |      |
| Benzo(a)pyrene   | 4.6J    | ug/L  | 4.7 | 0.29 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 50-32-8  |      |
| Benzo(b)fluoranthene   | 2.4J    | ug/L  | 4.7 | 0.34 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 205-99-2 |      |
| Benzo(g,h,i)perylene   | 2.7J    | ug/L  | 4.7 | 0.48 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 191-24-2 |      |
| Benzo(k)fluoranthene   | 2.8J    | ug/L  | 4.7 | 0.44 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 207-08-9 |      |
| Chrysene   | 4.7     | ug/L  | 4.7 | 0.35 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 218-01-9 |      |
| Dibenz(a,h)anthracene  | 0.36J   | ug/L  | 4.7 | 0.32 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 53-70-3  |      |
| Fluoranthene   | 7.8     | ug/L  | 4.7 | 0.44 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 206-44-0 |      |
| Fluorene   | 15.3    | ug/L  | 4.7 | 0.48 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 86-73-7  |      |



### ANALYTICAL RESULTS

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

Sample: 092011017 Lab ID: 4051272017 Collected: 09/20/11 17:45 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ    | LOD  | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|-----|----------------|----------------|-----------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |        |      |     |                |                |           |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |        |      |     |                |                |           |      |
| Indeno(1,2,3-cd)pyrene  | 1.9J    | ug/L  | 4.7    | 0.47 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 193-39-5  |      |
| 1-Methylnaphthalene   | 24.9    | ug/L  | 4.7    | 0.50 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 90-12-0   |      |
| 2-Methylnaphthalene   | 22.9    | ug/L  | 4.7    | 0.39 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 91-57-6   |      |
| Naphthalene   | 81.9    | ug/L  | 4.7    | 0.48 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 91-20-3   | B    |
| Phenanthrene  | 28.2    | ug/L  | 4.7    | 0.81 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 85-01-8   |      |
| Pyrene  | 12.4    | ug/L  | 4.7    | 0.47 | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 129-00-0  |      |
| 2-Fluorobiphenyl (S)  | 0 %     |       | 27-130 |      | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 321-60-8  | S4   |
| Terphenyl-d14 (S)   | 0 %     |       | 66-140 |      | 100 | 09/27/11 12:00 | 09/28/11 11:39 | 1718-51-0 | S4   |

|                             |       |      |        |      |     |  |                |             |  |
|-----------------------------|-------|------|--------|------|-----|--|----------------|-------------|--|
| <b>8260 MSV</b>             |       |      |        |      |     |  |                |             |  |
| Analytical Method: EPA 8260 |       |      |        |      |     |  |                |             |  |
| Benzene                     | 3730  | ug/L | 100    | 41.0 | 100 |  | 09/28/11 15:58 | 71-43-2     |  |
| Ethylbenzene                | 112   | ug/L | 100    | 54.0 | 100 |  | 09/28/11 15:58 | 100-41-4    |  |
| Toluene                     | 1070  | ug/L | 100    | 67.0 | 100 |  | 09/28/11 15:58 | 108-88-3    |  |
| 1,2,4-Trimethylbenzene      | <97.0 | ug/L | 100    | 97.0 | 100 |  | 09/28/11 15:58 | 95-63-6     |  |
| 1,3,5-Trimethylbenzene      | <83.0 | ug/L | 100    | 83.0 | 100 |  | 09/28/11 15:58 | 108-67-8    |  |
| m&p-Xylene                  | <180  | ug/L | 200    | 180  | 100 |  | 09/28/11 15:58 | 179601-23-1 |  |
| o-Xylene                    | <83.0 | ug/L | 100    | 83.0 | 100 |  | 09/28/11 15:58 | 95-47-6     |  |
| 4-Bromofluorobenzene (S)    | 88 %  |      | 70-130 |      | 100 |  | 09/28/11 15:58 | 460-00-4    |  |
| Dibromofluoromethane (S)    | 88 %  |      | 70-130 |      | 100 |  | 09/28/11 15:58 | 1868-53-7   |  |
| Toluene-d8 (S)              | 96 %  |      | 70-130 |      | 100 |  | 09/28/11 15:58 | 2037-26-5   |  |

Sample: 092011018 Lab ID: 4051272018 Collected: 09/20/11 18:00 Received: 09/23/11 15:30 Matrix: Water

| Parameters  | Results | Units | LOQ | LOD  | DF    | Prepared       | Analyzed       | CAS No.  | Qual |
|---|---------|-------|-----|------|-------|----------------|----------------|----------|------|
| <b>8270 MSSV PAH by SIM</b>                                     |         |       |     |      |       |                |                |          |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |     |      |       |                |                |          |      |
| Acenaphthene  | 402J    | ug/L  | 590 | 56.6 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 83-32-9  |      |
| Acenaphthylene  | 112J    | ug/L  | 590 | 45.0 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 208-96-8 |      |
| Anthracene  | 155J    | ug/L  | 590 | 71.7 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 120-12-7 |      |
| Benzo(a)anthracene  | <45.3   | ug/L  | 590 | 45.3 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 56-55-3  |      |
| Benzo(a)pyrene  | <35.7   | ug/L  | 590 | 35.7 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 50-32-8  |      |
| Benzo(b)fluoranthene  | <42.5   | ug/L  | 590 | 42.5 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 205-99-2 |      |
| Benzo(g,h,i)perylene  | <60.1   | ug/L  | 590 | 60.1 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 191-24-2 |      |
| Benzo(k)fluoranthene  | <54.6   | ug/L  | 590 | 54.6 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 207-08-9 |      |
| Chrysene  | 133J    | ug/L  | 590 | 43.5 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 218-01-9 |      |
| Dibenz(a,h)anthracene   | <40.0   | ug/L  | 590 | 40.0 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 53-70-3  |      |
| Fluoranthene  | 128J    | ug/L  | 590 | 55.1 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 206-44-0 |      |
| Fluorene  | 116J    | ug/L  | 590 | 59.7 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 86-73-7  |      |
| Indeno(1,2,3-cd)pyrene  | <58.5   | ug/L  | 590 | 58.5 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 193-39-5 |      |
| 1-Methylnaphthalene   | 667     | ug/L  | 590 | 62.5 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 90-12-0  |      |
| 2-Methylnaphthalene   | 798     | ug/L  | 590 | 48.2 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 91-57-6  |      |
| Naphthalene   | 4840    | ug/L  | 590 | 60.6 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 91-20-3  | B    |
| Phenanthrene  | 465J    | ug/L  | 590 | 101  | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 85-01-8  |      |
| Pyrene  | 192J    | ug/L  | 590 | 59.3 | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 129-00-0 |      |





**ANALYTICAL RESULTS**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

Sample: 092011018 Lab ID: 4051272018 Collected: 09/20/11 18:00 Received: 09/23/11 15:30 Matrix: Water

| Parameters                  | Results   | Units   | LOQ    | LOD  | DF    | Prepared       | Analyzed       | CAS No.     | Qual |
|-----------------------------|-----------|---|--------|------|-------|----------------|----------------|-------------|------|
| <b>8270 MSSV PAH by SIM</b> |           | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |        |      |       |                |                |             |      |
| 2-Fluorobiphenyl (S)        | 0 %       |   | 27-130 |      | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 321-60-8    | S4   |
| Terphenyl-d14 (S)           | 0 %       |   | 66-140 |      | 12500 | 09/27/11 12:00 | 09/28/11 14:51 | 1718-51-0   | S4   |
| <b>8260 MSV</b>             |           | Analytical Method: EPA 8260                                     |        |      |       |                |                |             |      |
| Benzene                     | 1060 ug/L |   | 40.0   | 16.4 | 40    |                | 09/28/11 16:21 | 71-43-2     |      |
| Ethylbenzene                | 3160 ug/L |   | 40.0   | 21.6 | 40    |                | 09/28/11 16:21 | 100-41-4    |      |
| Toluene                     | 4050 ug/L |   | 40.0   | 26.8 | 40    |                | 09/28/11 16:21 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene      | 266 ug/L  |   | 40.0   | 38.8 | 40    |                | 09/28/11 16:21 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | 72.5 ug/L |   | 40.0   | 33.2 | 40    |                | 09/28/11 16:21 | 108-67-8    |      |
| m&p-Xylene                  | 1820 ug/L |   | 80.0   | 72.0 | 40    |                | 09/28/11 16:21 | 179601-23-1 |      |
| o-Xylene                    | 949 ug/L  |   | 40.0   | 33.2 | 40    |                | 09/28/11 16:21 | 95-47-6     |      |
| 4-Bromofluorobenzene (S)    | 91 %      |   | 70-130 |      | 40    |                | 09/28/11 16:21 | 460-00-4    |      |
| Dibromofluoromethane (S)    | 87 %      |   | 70-130 |      | 40    |                | 09/28/11 16:21 | 1868-53-7   |      |
| Toluene-d8 (S)              | 95 %      |   | 70-130 |      | 40    |                | 09/28/11 16:21 | 2037-26-5   |      |

Sample: TRIP BLANK Lab ID: 4051272019 Collected: 09/20/11 00:00 Received: 09/23/11 15:30 Matrix: Water

| Parameters               | Results    | Units                       | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------|------------|-----------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>          |            | Analytical Method: EPA 8260 |        |      |    |          |                |             |      |
| Benzene                  | <0.41 ug/L |                             | 1.0    | 0.41 | 1  |          | 09/28/11 09:24 | 71-43-2     |      |
| Ethylbenzene             | <0.54 ug/L |                             | 1.0    | 0.54 | 1  |          | 09/28/11 09:24 | 100-41-4    |      |
| Toluene                  | <0.67 ug/L |                             | 1.0    | 0.67 | 1  |          | 09/28/11 09:24 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene   | <0.97 ug/L |                             | 1.0    | 0.97 | 1  |          | 09/28/11 09:24 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene   | <0.83 ug/L |                             | 1.0    | 0.83 | 1  |          | 09/28/11 09:24 | 108-67-8    |      |
| m&p-Xylene               | <1.8 ug/L  |                             | 2.0    | 1.8  | 1  |          | 09/28/11 09:24 | 179601-23-1 |      |
| o-Xylene                 | <0.83 ug/L |                             | 1.0    | 0.83 | 1  |          | 09/28/11 09:24 | 95-47-6     |      |
| 4-Bromofluorobenzene (S) | 87 %       |                             | 70-130 |      | 1  |          | 09/28/11 09:24 | 460-00-4    |      |
| Dibromofluoromethane (S) | 89 %       |                             | 70-130 |      | 1  |          | 09/28/11 09:24 | 1868-53-7   |      |
| Toluene-d8 (S)           | 96 %       |                             | 70-130 |      | 1  |          | 09/28/11 09:24 | 2037-26-5   |      |



**QUALITY CONTROL DATA**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

QC Batch: OEXT/12638 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV  
 Associated Lab Samples: 4051272001, 4051272002, 4051272003, 4051272004, 4051272005, 4051272006, 4051272007, 4051272008,  
 4051272009, 4051272010, 4051272011, 4051272012, 4051272013, 4051272014, 4051272015, 4051272016

METHOD BLANK: 508479 Matrix: Water  
 Associated Lab Samples: 4051272001, 4051272002, 4051272003, 4051272004, 4051272005, 4051272006, 4051272007, 4051272008,  
 4051272009, 4051272010, 4051272011, 4051272012, 4051272013, 4051272014, 4051272015, 4051272016

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| 1-Methylnaphthalene    | ug/L  | <0.0053      | 0.050           | 09/27/11 10:23 |            |
| 2-Methylnaphthalene    | ug/L  | <0.0041      | 0.050           | 09/27/11 10:23 |            |
| Acenaphthene           | ug/L  | <0.0048      | 0.050           | 09/27/11 10:23 |            |
| Acenaphthylene         | ug/L  | <0.0038      | 0.050           | 09/27/11 10:23 |            |
| Anthracene             | ug/L  | <0.0061      | 0.050           | 09/27/11 10:23 |            |
| Benzo(a)anthracene     | ug/L  | <0.0038      | 0.050           | 09/27/11 10:23 |            |
| Benzo(a)pyrene         | ug/L  | <0.0030      | 0.050           | 09/27/11 10:23 |            |
| Benzo(b)fluoranthene   | ug/L  | <0.0036      | 0.050           | 09/27/11 10:23 |            |
| Benzo(g,h,i)perylene   | ug/L  | <0.0051      | 0.050           | 09/27/11 10:23 |            |
| Benzo(k)fluoranthene   | ug/L  | <0.0046      | 0.050           | 09/27/11 10:23 |            |
| Chrysene               | ug/L  | <0.0037      | 0.050           | 09/27/11 10:23 |            |
| Dibenz(a,h)anthracene  | ug/L  | <0.0034      | 0.050           | 09/27/11 10:23 |            |
| Fluoranthene           | ug/L  | <0.0047      | 0.050           | 09/27/11 10:23 |            |
| Fluorene               | ug/L  | <0.0051      | 0.050           | 09/27/11 10:23 |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | <0.0050      | 0.050           | 09/27/11 10:23 |            |
| Naphthalene            | ug/L  | 0.0056J      | 0.050           | 09/27/11 10:23 |            |
| Phenanthrene           | ug/L  | <0.0086      | 0.050           | 09/27/11 10:23 |            |
| Pyrene                 | ug/L  | <0.0050      | 0.050           | 09/27/11 10:23 |            |
| 2-Fluorobiphenyl (S)   | %     | 68           | 27-130          | 09/27/11 10:23 |            |
| Terphenyl-d14 (S)      | %     | 99           | 66-140          | 09/27/11 10:23 |            |

LABORATORY CONTROL SAMPLE: 508480

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1-Methylnaphthalene    | ug/L  | .2          | 0.14       | 68        | 32-130       |            |
| 2-Methylnaphthalene    | ug/L  | .2          | 0.13       | 64        | 29-130       |            |
| Acenaphthene           | ug/L  | .2          | 0.15       | 73        | 30-130       |            |
| Acenaphthylene         | ug/L  | .2          | 0.14       | 71        | 23-130       |            |
| Anthracene             | ug/L  | .2          | 0.15       | 75        | 20-130       |            |
| Benzo(a)anthracene     | ug/L  | .2          | 0.19       | 93        | 34-130       |            |
| Benzo(a)pyrene         | ug/L  | .2          | 0.20       | 102       | 41-130       |            |
| Benzo(b)fluoranthene   | ug/L  | .2          | 0.22       | 109       | 31-131       |            |
| Benzo(g,h,i)perylene   | ug/L  | .2          | 0.22       | 109       | 51-130       |            |
| Benzo(k)fluoranthene   | ug/L  | .2          | 0.22       | 110       | 56-130       |            |
| Chrysene               | ug/L  | .2          | 0.23       | 117       | 55-130       |            |
| Dibenz(a,h)anthracene  | ug/L  | .2          | 0.21       | 107       | 40-130       |            |
| Fluoranthene           | ug/L  | .2          | 0.21       | 106       | 38-130       |            |
| Fluorene               | ug/L  | .2          | 0.16       | 80        | 27-130       |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | .2          | 0.22       | 109       | 48-130       |            |
| Naphthalene            | ug/L  | .2          | 0.14       | 69        | 33-130       |            |

Date: 09/29/2011 04:02 PM

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

LABORATORY CONTROL SAMPLE: 508480

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Phenanthrene         | ug/L  | .2          | 0.16       | 79        | 28-130       |            |
| Pyrene               | ug/L  | .2          | 0.19       | 95        | 41-130       |            |
| 2-Fluorobiphenyl (S) | %     |             |            | 62        | 27-130       |            |
| Terphenyl-d14 (S)    | %     |             |            | 100       | 66-140       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 508490 508491

| Parameter              | 4051272005 |         | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | RPD | Qual  |
|------------------------|------------|---------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|-----|-------|
|                        | Units      | Result  | Conc.          | Conc.           |           |            |          |           |              |         |     |       |
| 1-Methylnaphthalene    | ug/L       | 3.5     | .19            | .19             | 4.0       | 3.1        | 264      | -233      | 15-130       | 26      | 34  | M1    |
| 2-Methylnaphthalene    | ug/L       | 0.030J  | .19            | .19             | 0.18J     | 0.13J      | 78       | 53        | 14-130       |         | 37  |       |
| Acenaphthene           | ug/L       | 5.2     | .19            | .19             | 5.9       | 4.7        | 377      | -247      | 10-130       | 22      | 34  | M1    |
| Acenaphthylene         | ug/L       | 2.3     | .19            | .19             | 2.7       | 1.8        | 246      | -270      | 10-130       | 43      | 32  | D6,M1 |
| Anthracene             | ug/L       | 1.8     | .19            | .19             | 1.8       | 2.0        | 36       | 132       | 10-130       | 9       | 39  | M1    |
| Benzo(a)anthracene     | ug/L       | 0.47    | .19            | .19             | 0.44J     | 0.46J      | -15      | -1        | 34-131       |         | 21  | M1    |
| Benzo(a)pyrene         | ug/L       | 0.12    | .19            | .19             | 0.22J     | 0.27J      | 52       | 80        | 35-130       |         | 24  |       |
| Benzo(b)fluoranthene   | ug/L       | 0.059   | .19            | .19             | 0.19J     | 0.17J      | 71       | 56        | 17-154       |         | 32  |       |
| Benzo(g,h,i)perylene   | ug/L       | 0.040J  | .19            | .19             | 0.19J     | 0.18J      | 80       | 76        | 42-130       |         | 25  |       |
| Benzo(k)fluoranthene   | ug/L       | 0.084   | .19            | .19             | 0.21J     | 0.22J      | 66       | 71        | 41-144       |         | 26  |       |
| Chrysene               | ug/L       | 0.38    | .19            | .19             | 0.47J     | 0.56       | 46       | 95        | 47-134       |         | 21  | M1    |
| Dibenz(a,h)anthracene  | ug/L       | 0.0088J | .19            | .19             | 0.14J     | 0.13J      | 69       | 65        | 37-130       |         | 22  |       |
| Fluoranthene           | ug/L       | 2.1     | .19            | .19             | 1.9       | 3.4        | -111     | 643       | 12-159       | 54      | 31  | D6,M1 |
| Fluorene               | ug/L       | 2.3     | .19            | .19             | 2.7       | 2.1        | 215      | -118      | 13-130       | 26      | 37  | M1    |
| Indeno(1,2,3-cd)pyrene | ug/L       | 0.029J  | .19            | .19             | 0.18J     | 0.16J      | 77       | 69        | 27-134       |         | 25  |       |
| Naphthalene            | ug/L       | 1.1     | .19            | .19             | 1.2       | 0.18J      | 44       | -496      | 10-130       |         | 41  | M1    |
| Phenanthrene           | ug/L       | 3.6     | .19            | .19             | 3.8       | 3.5        | 153      | -23       | 12-130       | 9       | 32  | M1    |
| Pyrene                 | ug/L       | 2.9     | .19            | .19             | 2.6       | 4.3        | -112     | 786       | 12-161       | 48      | 33  | D6,M1 |
| 2-Fluorobiphenyl (S)   | %          |         |                |                 |           |            | 94       | 61        | 27-130       |         |     |       |
| Terphenyl-d14 (S)      | %          |         |                |                 |           |            | 101      | 71        | 66-140       |         |     |       |



**QUALITY CONTROL DATA**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

QC Batch: OEXT/12639 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV  
 Associated Lab Samples: 4051272017, 4051272018

METHOD BLANK: 508482 Matrix: Water  
 Associated Lab Samples: 4051272017, 4051272018

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| 1-Methylnaphthalene    | ug/L  | <0.0053      | 0.050           | 09/27/11 10:58 |            |
| 2-Methylnaphthalene    | ug/L  | <0.0041      | 0.050           | 09/27/11 10:58 |            |
| Acenaphthene           | ug/L  | <0.0048      | 0.050           | 09/27/11 10:58 |            |
| Acenaphthylene         | ug/L  | <0.0038      | 0.050           | 09/27/11 10:58 |            |
| Anthracene             | ug/L  | <0.0061      | 0.050           | 09/27/11 10:58 |            |
| Benzo(a)anthracene     | ug/L  | <0.0038      | 0.050           | 09/27/11 10:58 |            |
| Benzo(a)pyrene         | ug/L  | <0.0030      | 0.050           | 09/27/11 10:58 |            |
| Benzo(b)fluoranthene   | ug/L  | <0.0036      | 0.050           | 09/27/11 10:58 |            |
| Benzo(g,h,i)perylene   | ug/L  | <0.0051      | 0.050           | 09/27/11 10:58 |            |
| Benzo(k)fluoranthene   | ug/L  | <0.0046      | 0.050           | 09/27/11 10:58 |            |
| Chrysene               | ug/L  | <0.0037      | 0.050           | 09/27/11 10:58 |            |
| Dibenz(a,h)anthracene  | ug/L  | <0.0034      | 0.050           | 09/27/11 10:58 |            |
| Fluoranthene           | ug/L  | <0.0047      | 0.050           | 09/27/11 10:58 |            |
| Fluorene               | ug/L  | <0.0051      | 0.050           | 09/27/11 10:58 |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | <0.0050      | 0.050           | 09/27/11 10:58 |            |
| Naphthalene            | ug/L  | 0.0082J      | 0.050           | 09/27/11 10:58 |            |
| Phenanthrene           | ug/L  | <0.0086      | 0.050           | 09/27/11 10:58 |            |
| Pyrene                 | ug/L  | <0.0050      | 0.050           | 09/27/11 10:58 |            |
| 2-Fluorobiphenyl (S)   | %     | 51           | 27-130          | 09/27/11 10:58 |            |
| Terphenyl-d14 (S)      | %     | 95           | 66-140          | 09/27/11 10:58 |            |

LABORATORY CONTROL SAMPLE & LCSD: 508483 508484

| Parameter              | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1-Methylnaphthalene    | ug/L  | .2          | 0.15       | 0.14        | 75        | 71         | 32-130       | 6   | 50      |            |
| 2-Methylnaphthalene    | ug/L  | .2          | 0.14       | 0.13        | 70        | 64         | 29-130       | 9   | 50      |            |
| Acenaphthene           | ug/L  | .2          | 0.16       | 0.15        | 81        | 77         | 30-130       | 5   | 49      |            |
| Acenaphthylene         | ug/L  | .2          | 0.16       | 0.15        | 80        | 77         | 23-130       | 4   | 48      |            |
| Anthracene             | ug/L  | .2          | 0.17       | 0.16        | 84        | 78         | 20-130       | 7   | 46      |            |
| Benzo(a)anthracene     | ug/L  | .2          | 0.16       | 0.18        | 82        | 89         | 34-130       | 9   | 21      |            |
| Benzo(a)pyrene         | ug/L  | .2          | 0.19       | 0.21        | 96        | 105        | 41-130       | 9   | 20      |            |
| Benzo(b)fluoranthene   | ug/L  | .2          | 0.19       | 0.21        | 93        | 107        | 31-131       | 14  | 24      |            |
| Benzo(g,h,i)perylene   | ug/L  | .2          | 0.20       | 0.23        | 100       | 114        | 51-130       | 13  | 20      |            |
| Benzo(k)fluoranthene   | ug/L  | .2          | 0.22       | 0.24        | 109       | 118        | 56-130       | 8   | 23      |            |
| Chrysene               | ug/L  | .2          | 0.23       | 0.24        | 115       | 122        | 55-130       | 6   | 20      |            |
| Dibenz(a,h)anthracene  | ug/L  | .2          | 0.19       | 0.22        | 97        | 110        | 40-130       | 13  | 20      |            |
| Fluoranthene           | ug/L  | .2          | 0.21       | 0.22        | 104       | 108        | 38-130       | 3   | 40      |            |
| Fluorene               | ug/L  | .2          | 0.11       | 0.16        | 56        | 82         | 27-130       | 38  | 50      |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | .2          | 0.20       | 0.23        | 99        | 113        | 48-130       | 13  | 20      |            |
| Naphthalene            | ug/L  | .2          | 0.15       | 0.14        | 73        | 68         | 33-130       | 8   | 50      |            |
| Phenanthrene           | ug/L  | .2          | 0.16       | 0.15        | 82        | 75         | 28-130       | 9   | 47      |            |

Date: 09/29/2011 04:02 PM

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

| LABORATORY CONTROL SAMPLE & LCSD: 508483 |       | 508484      |            |             |           |            |              |     |         |            |  |
|--|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|--|
| Parameter                                | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |  |
| Pyrene                                   | ug/L  | .2          | 0.20       | 0.19        | 101       | 96         | 41-130       | 5   | 40      |            |  |
| 2-Fluorobiphenyl (S)                     | %     |             |            |             | 69        | 63         | 27-130       |     |         |            |  |
| Terphenyl-d14 (S)                        | %     |             |            |             | 103       | 105        | 66-140       |     |         |            |  |



**QUALITY CONTROL DATA**

Project: 1569 TWO RIVERS FORMER MGP  
 Pace Project No.: 4051272

QC Batch: MSV/12706 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 4051272001, 4051272002, 4051272003, 4051272004, 4051272005, 4051272006, 4051272007, 4051272008, 4051272009, 4051272010, 4051272011, 4051272012, 4051272013, 4051272014, 4051272015, 4051272016, 4051272017, 4051272018, 4051272019

METHOD BLANK: 508430 Matrix: Water  
 Associated Lab Samples: 4051272001, 4051272002, 4051272003, 4051272004, 4051272005, 4051272006, 4051272007, 4051272008, 4051272009, 4051272010, 4051272011, 4051272012, 4051272013, 4051272014, 4051272015, 4051272016, 4051272017, 4051272018, 4051272019

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2,4-Trimethylbenzene   | ug/L  | <0.97        | 1.0             | 09/28/11 07:06 |            |
| 1,3,5-Trimethylbenzene   | ug/L  | <0.83        | 1.0             | 09/28/11 07:06 |            |
| Benzene                  | ug/L  | <0.41        | 1.0             | 09/28/11 07:06 |            |
| Ethylbenzene             | ug/L  | <0.54        | 1.0             | 09/28/11 07:06 |            |
| m&p-Xylene               | ug/L  | <1.8         | 2.0             | 09/28/11 07:06 |            |
| o-Xylene                 | ug/L  | <0.83        | 1.0             | 09/28/11 07:06 |            |
| Toluene                  | ug/L  | <0.67        | 1.0             | 09/28/11 07:06 |            |
| 4-Bromofluorobenzene (S) | %     | 87           | 70-130          | 09/28/11 07:06 |            |
| Dibromofluoromethane (S) | %     | 87           | 70-130          | 09/28/11 07:06 |            |
| Toluene-d8 (S)           | %     | 96           | 70-130          | 09/28/11 07:06 |            |

LABORATORY CONTROL SAMPLE & LCSD: 508431 508432

| Parameter                | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|--------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Benzene                  | ug/L  | 50          | 45.1       | 46.6        | 90        | 93         | 70-130       | 3   | 20      |            |
| Ethylbenzene             | ug/L  | 50          | 50.2       | 49.3        | 100       | 99         | 70-130       | 2   | 20      |            |
| m&p-Xylene               | ug/L  | 100         | 103        | 99.8        | 103       | 100        | 70-130       | 3   | 20      |            |
| o-Xylene                 | ug/L  | 50          | 50.0       | 48.6        | 100       | 97         | 70-130       | 3   | 20      |            |
| Toluene                  | ug/L  | 50          | 51.0       | 49.6        | 102       | 99         | 70-130       | 3   | 20      |            |
| 4-Bromofluorobenzene (S) | %     |             |            |             | 92        | 93         | 70-130       |     |         |            |
| Dibromofluoromethane (S) | %     |             |            |             | 89        | 90         | 70-130       |     |         |            |
| Toluene-d8 (S)           | %     |             |            |             | 97        | 98         | 70-130       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 509159 509160

| Parameter                | Units | 4051272001 |       | MS          |             | MSD    |        | % Rec | % Rec | % Rec Limits | Max RPD | Qual |
|--------------------------|-------|------------|-------|-------------|-------------|--------|--------|-------|-------|--------------|---------|------|
|                          |       | Result     | Conc. | Spike Conc. | Spike Conc. | Result | Result |       |       |              |         |      |
| Benzene                  | ug/L  | <0.41      | 50    | 50          | 50          | 46.8   | 46.4   | 94    | 93    | 70-130       | .9      | 20   |
| Ethylbenzene             | ug/L  | <0.54      | 50    | 50          | 50          | 50.0   | 51.1   | 100   | 102   | 70-130       | 2       | 20   |
| m&p-Xylene               | ug/L  | <1.8       | 100   | 100         | 100         | 101    | 104    | 101   | 104   | 70-130       | 3       | 20   |
| o-Xylene                 | ug/L  | <0.83      | 50    | 50          | 50          | 49.4   | 50.4   | 99    | 101   | 70-130       | 2       | 20   |
| Toluene                  | ug/L  | <0.67      | 50    | 50          | 50          | 50.8   | 52.2   | 102   | 104   | 70-130       | 3       | 20   |
| 4-Bromofluorobenzene (S) | %     |            |       |             |             |        |        | 93    | 94    | 70-130       |         |      |
| Dibromofluoromethane (S) | %     |            |       |             |             |        |        | 92    | 90    | 70-130       |         |      |
| Toluene-d8 (S)           | %     |            |       |             |             |        |        | 97    | 97    | 70-130       |         |      |

## QUALIFIERS

Project: 1569 TWO RIVERS FORMER MGP  
Pace Project No.: 4051272

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

### BATCH QUALIFIERS

Batch: MSSV/3895

[IP] Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

Batch: MSSV/3896

[IP] Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

1q There was no sample volume available for reextraction and reanalysis.

B Analyte was detected in the associated method blank.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.