→ Vicky Storall HQ

NATURAL RESOURCE TECHNOLOGY
ENVIRONMENTAL CONSULTANTS

23713 W. PAUL ROAD, SUITE D
PEWAUKEE, WI 53072
(P) 262.523.9000
(F) 262.523.9001

FID ~~#026000045~~ 460134950

March 24, 2011
(1313)

Mr. Pablo Valentín
United States Environmental Protection Agency, Region 5
77 W. Jackson Boulevard
Mailcode SR-6J
Chicago, IL 60604-3590

RE: Groundwater Quality Data Transmittal
2010 Groundwater Monitoring Events
Wisconsin Public Service Corporation (WPSC)
Former Campmarina Manufactured Gas Plant Site
Sheboygan, Wisconsin
BRRTS # 02-60-000095 / USEPA # WIN000510058

Dear Mr. Valentín:

On behalf of Integrys Business Support, LLC (IBS) managing WPSC's former Manufactured Gas Plant (MGP) sites, Natural Resource Technology, Inc. (NRT) is providing analytical results from the 2010 groundwater monitoring events performed at the Former Campmarina Manufactured Gas Plant site in Sheboygan, Wisconsin (Figures 1 and 2).

Groundwater samples and water level measurements were collected on June 8 and December 2, 2010. Groundwater water level measurements and field geochemical parameters were collected on March 30 and September 8, 2010. During September 2010 event, samples were collected from BW-6 and all wells except for MW-705 for dissolved iron and dissolved manganese. Groundwater elevations and vertical gradients are presented on Table 1. Groundwater contours for water table and piezometric surface are presented on Figure 3 and 4, respectively.

Groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) (Table 2), and polynuclear aromatic hydrocarbons (PAH; Table 3) at all wells except for MW-705, as planned. Monitoring also included natural attenuation indicator parameters at select wells (Table 4). Benzene and naphthalene analytical data are presented on Figure 5. Trends in groundwater elevations versus river water elevations are presented in Figure 6. In addition, air samples were collected from the biosparge system sump vent and analyzed for BTEX during March and June sampling events. The laboratory analytical reports are included as Appendix A.

The annual cap inspection was conducted on March 30, 2010. The cap inspection log is included in Appendix B.

On March 22, 2011, water levels and field geochemical parameters were collected. The next sampling event is anticipated in June 2011 (Table 5). This schedule may be modified pending discussions with USEPA on site status. Please contact Mr. Brian Bartoszek (920.433.2643) of IBS or either of the undersigned if you have questions or comments regarding this report.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

Heather M. Simon, PE
Environmental Engineer

Jennifer M. Kahler, PE
Senior Engineer

RECEIVED
MAR 29 2011
By PSS, KS

NATURAL RESOURCE TECHNOLOGY

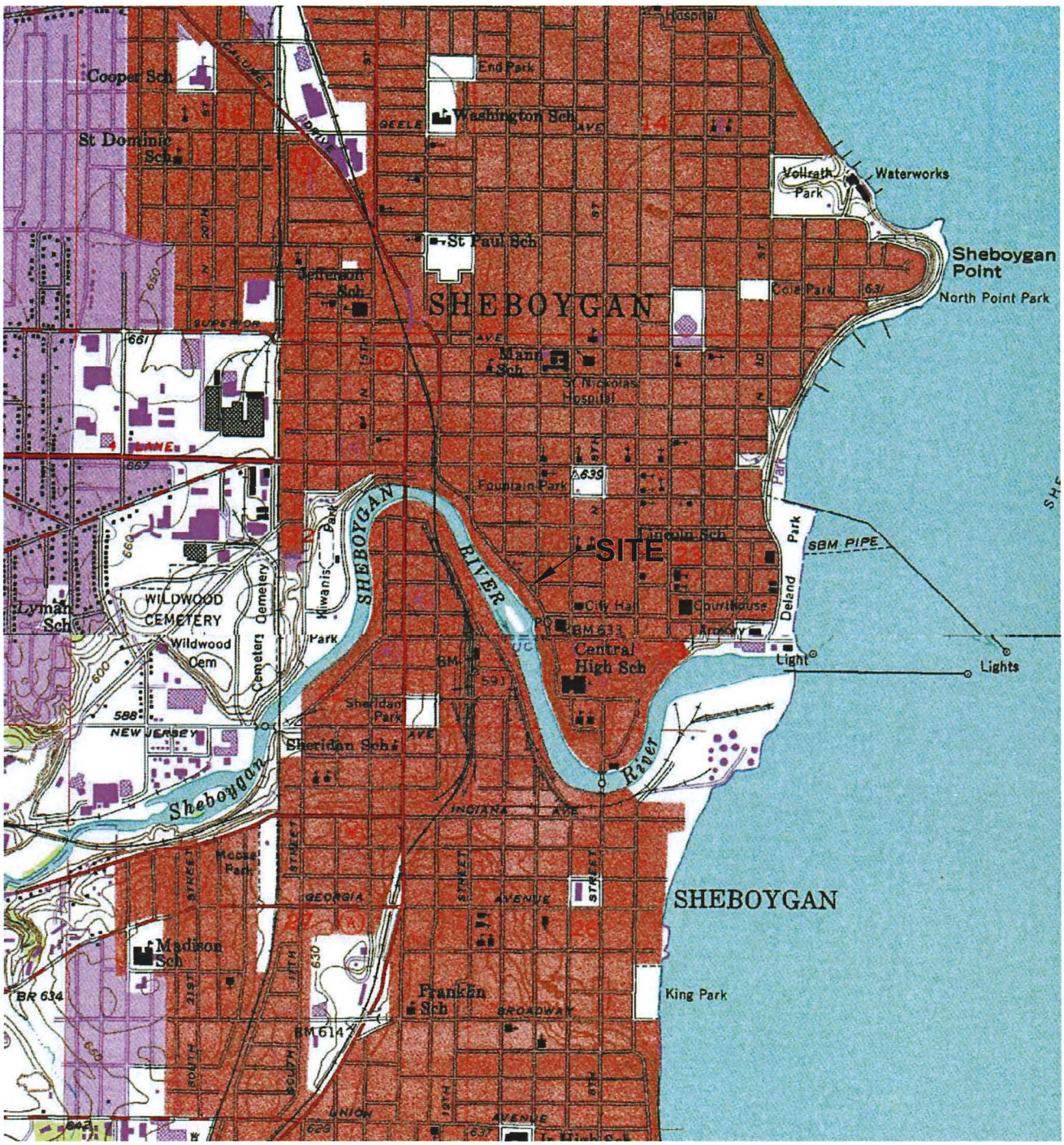
Encls.:

	Figure 1	Site Location Map (1313-4-A01)
	Figure 2	Site Layout (1313-6-B06)
	Figure 3	Water Table Elevation Contours, 09/08/10 (1313-6.4-B01)
	Figure 4	Potentiometric Surface Contours, 09/08/10 (1313-6.4-B02)
	Figure 5	Groundwater Analytical Summary 2002-2010 (1313-6.4-B03)
	Figure 6	Groundwater Elevations vs River Water Elevations
	Table 1	Groundwater Elevations and Vertical Gradients
	Table 2	Groundwater Analytical Summary - BTEX (µg/L), and Cyanides (mg/L)
	Table 3	Groundwater Laboratory Analytical Results – PAH (µg/L)
	Table 4	Groundwater Analytical Results - Laboratory and Field Remedial Natural Attenuation (RNA) Parameters
	Table 5	Groundwater and Biosparge System Monitoring Schedule (2011)
	Appendix A	2010 Laboratory Analytical Reports and Field Forms
	Appendix B	Cap Inspection Log

cc: Mr. Brian Bartoszek, IBS (electronic copy)
Mr. John Feeney, WDNR – Plymouth (1 copy)
Mark Thimke, Foley & Lardner (cover letter only)

[P:\1300\1313\Plans And Reports\O & M Reports\2010\1313 GW 2010 Updt LTR FINAL 110324.Doc]

FIGURES



SOURCE: USGS 7.5 MINUTE QUADRANGLE, SHEBOYGAN NORTH. DATED 1954. PHOTOREVISED 1973.

SITE LOCATION MAP

CAMPMARINA AND CENTER AVENUE RIGHT-OF-WAY
WISCONSIN PUBLIC SERVICE CORPORATION
SHEBOYGAN, WISCONSIN

NATURAL RESOURCE TECHNOLOGY

PROJECT NO. 1313

DRAWING NO. 1313-4-A01C

FIGURE NO. 1

DRAWN: KNW 02/09/10 CHK'D: RMN APP'D: HMS DATE: 02/09/10

SITE LAYOUT

TECHNICAL LETTER REPORT–UPLAND OU
CAMPMARINA FORMER MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
SHEBOYGAN, WISCONSIN

DRAWN BY: BJK	DATE: 03/12/07	
CHECKED BY: HMS	DATE: 03/20/07	
APPROVED BY: RHW	DATE: 04/25/07	
DRAWING NO: 1313-6-B06		
REFERENCE: .		

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1313/6.0

FIGURE NO.
2

10TH STREET
NEW YORK AVE
FORMER CAMPMARINA PROPERTY BOUNDARY
PROPOSED BUILDING
PROPOSED BUILDING
PARKING
EXISTING BUILDING
PENNSYLVANIA BRIDGE
MW-707R
PZ-703
MW-708
PZ-702
MW-706
BASKETBALL COURT
PZ-701
MW-701R
CONTAINMENT BARRIER
VOLLEYBALL COURT
MW-705
BOAT ISLAND
SHED
MW-709R
JUNGLE GYM AREA
BIOSPARGE SYSTEM ENCLOSURE
PARKING
BOATHOUSE
SG-703
BOAT DOCK
EXISTING BUILDING
SHEBOYGAN RIVER FLOW

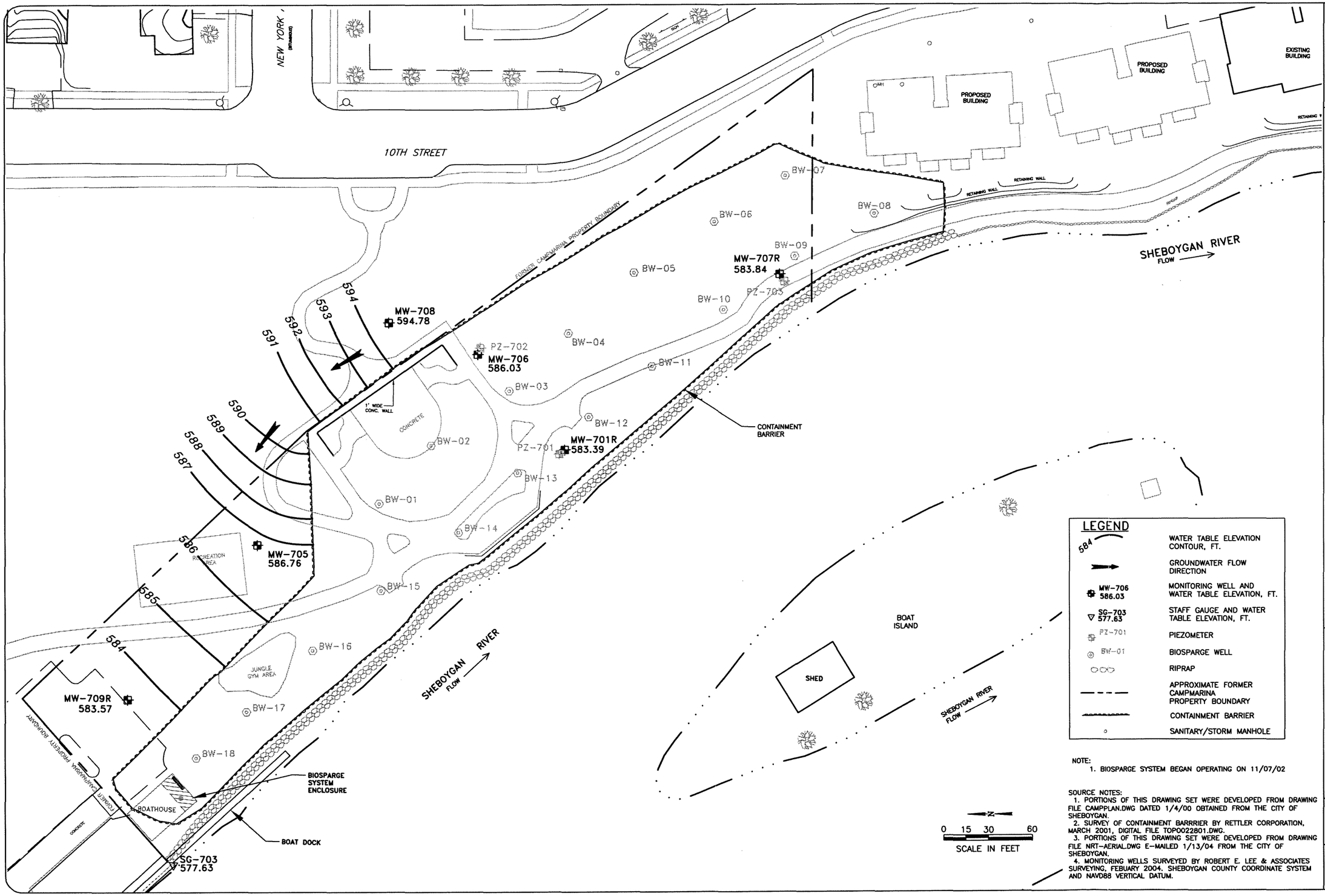
LEGEND

- MW-706 — MONITORING WELL
- PZ-701 — PIEZOMETER
- SG — STAFF GAUGE
- TREES
- RIPRAP
- LIGHT POLE
- CLEANOUTS
- 601 — EXISTING GRADE (ELEVATION (NGVD 29), FEET)
- APPROXIMATE FORMER CAMPMARINA PROPERTY BOUNDARY
- CONTAINMENT BARRIER
- RIVERS EDGE

SOURCE NOTES:
1. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE CAMPPLAN.DWG DATED 1/4/00 OBTAINED FROM THE CITY OF SHEBOYGAN.
2. SURVEY OF CONTAINMENT BARRRIER BY RETTLER CORPORATION, MARCH 2001, DIGITAL FILE TOPO022801.DWG.
3. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE NRT–AERIAL.DWG E–MAILED 1/13/04 FROM THE CITY OF SHEBOYGAN.
4. MONITORING WELLS SURVEYED BY ROBERT E. LEE & ASSOCIATES SURVEYING, FEBUARY 2004. SHEBOYGAN COUNTY COORDINATE SYSTEM AND NAVD88 VERTICAL DATUM.
5. STAFF GAUGE (SG–703) IS LOCATED AT 177021.72 NORTHING, 217575.20 EASTING AND ELEVATION: 582.27 FEET (NAVD 88).

N

0 20 40 80
SCALE IN FEET



NOTE:
1. BIOSPARGE SYSTEM BEGAN OPERATING ON 11/07/02

SOURCE NOTES:
1. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE CAMPPLAN.DWG DATED 1/4/00 OBTAINED FROM THE CITY OF SHEBOYGAN.
2. SURVEY OF CONTAINMENT BARRIER BY RETTLER CORPORATION, MARCH 2001, DIGITAL FILE TOPO022801.DWG.
3. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE NRT-AERIAL.DWG E-MAILED 1/13/04 FROM THE CITY OF SHEBOYGAN.
4. MONITORING WELLS SURVEYED BY ROBERT E. LEE & ASSOCIATES SURVEYING, FEBUARY 2004. SHEBOYGAN COUNTY COORDINATE SYSTEM AND NAVD88 VERTICAL DATUM.

DRAWN BY: KNW DATE: 03/09/11
CHECKED BY: HMS DATE: 03/10/11
APPROVED BY: HMS DATE: 03/14/11
DRAWING NO: 1313-64-B03
REFERENCE: .

WATER TABLE ELEVATION CONTOURS-09/08/10

GROUNDWATER MONITORING UPDATE
CAMPMARINA FORMER MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
CITY OF SHEBOYGAN, WISCONSIN

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1313/6.4

FIGURE NO.
3

10TH STREET

NEW YORK

CORMIER CAMPMARINA PROPERTY BOUNDARY

PROPOSED BUILDING

PROPOSED BUILDING

EXISTING BUILDING

RETAINING WALL

RETAINING WALL

SHEBOYGAN RIVER FLOW

BW-05 BW-06 BW-07 BW-08 BW-09 BW-10 BW-11 BW-12 BW-13 BW-14 BW-15 BW-16 BW-17 BW-18

MW-707R

PZ-703 582.08

MW-708

PZ-702 588.56

MW-706

MW-701R

PZ-701 584.20

MW-705

MW-709R

584 585 586 587 588

1' WIDE CONC. WALL

CONCRETE

CONTAINMENT BARRIER

RECREATION AREA

JUNGLE GYM AREA

CAMPMARINA PROPERTY BOUNDARY

CONCRETE

BOATHOUSE

BIOSPARGE SYSTEM ENCLOSURE

BOAT DOCK

SG-703 577.63

SHEBOYGAN RIVER FLOW

BOAT ISLAND

SHED

SHEBOYGAN RIVER FLOW

LEGEND

584	POTENTIOMETRIC ELEVATION CONTOUR, FT.
	GROUNDWATER FLOW DIRECTION
MW-706	MONITORING WELL AND WATER TABLE ELEVATION, FT.
SG-703 577.63	STAFF GAUGE AND WATER TABLE ELEVATION, FT.
PZ-701 584.20	PIEZOMETER AND POTENTIOMETRIC ELEVATION, FT.
BW-01	BIOSPARGE WELL
	RIPRAP
	APPROXIMATE FORMER CAMPMARINA PROPERTY BOUNDARY
	CONTAINMENT BARRIER
	SANITARY/STORM MANHOLE

NOTE:
1. BIOSPARGE SYSTEM BEGAN OPERATING ON 11/07/02

SOURCE NOTES:
1. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE CAMPPLAN.DWG DATED 1/4/00 OBTAINED FROM THE CITY OF SHEBOYGAN.
2. SURVEY OF CONTAINMENT BARRRIER BY RETTLER CORPORATION, MARCH 2001, DIGITAL FILE TOP0022801.DWG.
3. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE NRT-AERIAL.DWG E-MAILED 1/13/04 FROM THE CITY OF SHEBOYGAN.
4. MONITORING WELLS SURVEYED BY ROBERT E. LEE & ASSOCIATES SURVEYING, FEBUARY 2004. SHEBOYGAN COUNTY COORDINATE SYSTEM AND NAVD88 VERTICAL DATUM.

0 15 30 60
SCALE IN FEET

DRAWN BY: KNW DATE: 03/09/11
CHECKED BY: HMS DATE: 03/10/11
APPROVED BY: HMS DATE: 03/14/11
DRAWING NO: 1313-64-B04
REFERENCE: .

POTENTIOMETRIC SURFACE CONTOURS-09/08/10

GROUNDWATER MONITORING UPDATE
CAMPMARINA FORMER MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
CITY OF SHEBOYGAN, WISCONSIN

NATURAL RESOURCE TECHNOLOGY

PROJECT NO.
1313/6.4

FIGURE NO.
4

GROUNDWATER ANALYTICAL SUMMARY 2002–2010

GROUNDWATER MONITORING UPDATE
CAMPMARINA FORMER MGP SITE
WISCONSIN PUBLIC SERVICE CORPORATION
CITY OF SHEBOYGAN, WISCONSIN

DRAWN BY: KNW DATE: 03/09/11
CHECKED BY: HMS DATE: 03/10/11
APPROVED BY: HMS DATE: 03/14/11

DRAWING NO: 1313-64-B05
REFERENCE: P:\CAD\1313\tables for figs 110304.xls

NATURAL RESOURCE TECHNOLOGY

PROJECT NO. 1313/6.4

FIGURE NO. 5

MW-706	BEN	BTEX	NAPH	PAH
6/25/2002	1,900	4,490	7,100 Q	24,070
7/1/2003	6,500	10,930	2,200 Q	4,109
11/10/2003	3,200	5,410	2,900 Q	6,516
5/20/2004	1,100	2,600	680 Q	1,937
11/24/2004	4,000	7,310	2,600 Q	7,395
5/19/2005	1,800	2,876	500 Q	775
12/13/2005	2,200	2,050	8.3 Q	629
6/26/2006	1,900	4,030	0.42 Q	20
12/13/2006	2,400	4,630	5.2	235
6/18/2007	15,000	30,480	420,000 Q	1,217,600
12/5/2007	2,600	5,760	2,900 Q	5,503
6/26/2008	594	837	<1.6	174
12/18/2008	15,100	24,560	5,550,000	17,123,200
6/30/2009	4,080	7,405	1,240 Q	1,727
12/8/2009	6,510	11,775	841 Q	1,466
6/8/2010	9,340	17,784	2,910 Q	4,030
12/2/2010	2,230	3,085	1,340 Q	2,056

PZ-702	BEN	BTEX	NAPH	PAH
6/25/2002	<0.45	nd	0.42	0.60
11/7/2002	<0.25	nd	0.087	0.40
4/15/2003	<0.41	nd	0.12	0.30
4/15/2003	<0.41	nd	0.20	0.40
7/1/2003	<0.30	nd	0.045 Q	0.30
9/30/2003	<0.30	nd	0.049 Q	0.10
11/10/2003	<0.30	nd	0.13 Q	0.65
11/10/2003	<0.30	nd	0.11	1.2
5/20/2004	<0.41	nd	0.6 Q	0.78
11/24/2004	<0.14	nd	0.46	0.61
5/19/2005	<0.14	nd	0.16	0.21
12/13/2005	<0.14	nd	<0.047	nd
6/26/2006	<0.14	nd	0.022 Q	0.05
12/13/2006	<0.14	nd	0.014 Q	1.2
6/18/2007	<0.21	nd	0.028 Q	0.70
12/5/2007	<0.21	0.47 Q	0.033 Q	0.20
6/26/2008	<0.14	nd	0.17	0.49
12/18/2008	<0.23	nd	0.097 Q	0.11
6/30/2009	<0.23	nd	0.057 Q	0.10
12/8/2009	<0.39	nd	0.038 Q	0.07
6/8/2010	<0.41	nd	0.031 Q	0.05
12/2/2010	<0.41	nd	1.1 Q	1.5

MW-707R	BEN	BTEX	NAPH	PAH
6/25/2002	1,100	4,211	1,600 Q	1,634
7/1/2003	1,300	5,123	1,800 Q	2,170
11/10/2003	1,500	5,626	2,000 Q	2,474
5/20/2004	1,000	4,486	1,600 Q	2,067
11/24/2004	1,300	4,564	1,700 Q	2,105
5/19/2005	1,300	4,803	1,900 Q	2,326
12/13/2005	1,300	4,919	1,700 Q	2,030
6/26/2006	1,300	4,659	1,800 Q	2,167
12/13/2006	960	3,466	310 Q	488
6/18/2007	1,500	5,144	1,500 Q	1,660
12/5/2007	1,200	4,219	1,100 Q	1,364
6/26/2008	990	2,701	520	618
12/18/2008	951	2,868	1260 Q	1,457
6/30/2009	1,550	4,468	839 Q	1,022
12/8/2009	1,510	3,989	417 Q	523
6/8/2010	1,660	4,214	455 Q	614
12/2/2010	2,230	5,559	974 Q	1,255

MW-708	BEN	BTEX	NAPH	PAH
6/25/2002	<0.45	nd	<0.027	0.01
11/7/2002	<0.25	nd	<0.024	nd
11/7/2002	<0.25	nd	<0.024	nd
4/15/2003	<0.41	nd	0.088	0.1
7/1/2003	<0.30	nd	1.5 Q	2.0
9/30/2003	<0.30	nd	0.23	0.2
11/10/2003	<0.30	nd	0.38 Q	2.4
5/20/2004	<0.41	nd	0.29	0.4
11/24/2004	11	11	1.8 Q	2.6
5/19/2005	<0.14	nd	0.31	0.4
12/13/2005	<0.14	nd	<0.047	nd
6/26/2006	<0.14	nd	0.04 Q	0.3
12/13/2006	<0.14	nd	0.014 Q	0.01
6/18/2007	<0.21	nd	0.046	0.18
12/5/2007	<0.21	0.51 Q	0.015 Q	0.14
6/26/2008	<0.14	nd	<0.016	0.09
12/18/2008	<0.23	nd	0.036 Q	0.036
6/30/2009	<0.23	nd	0.37 Q	0.62
12/8/2009	<0.39	nd	0.012 Q	0.012
6/8/2010	<0.41	nd	0.026 Q	0.031
12/2/2010	<0.41	nd	0.010 Q	0.026

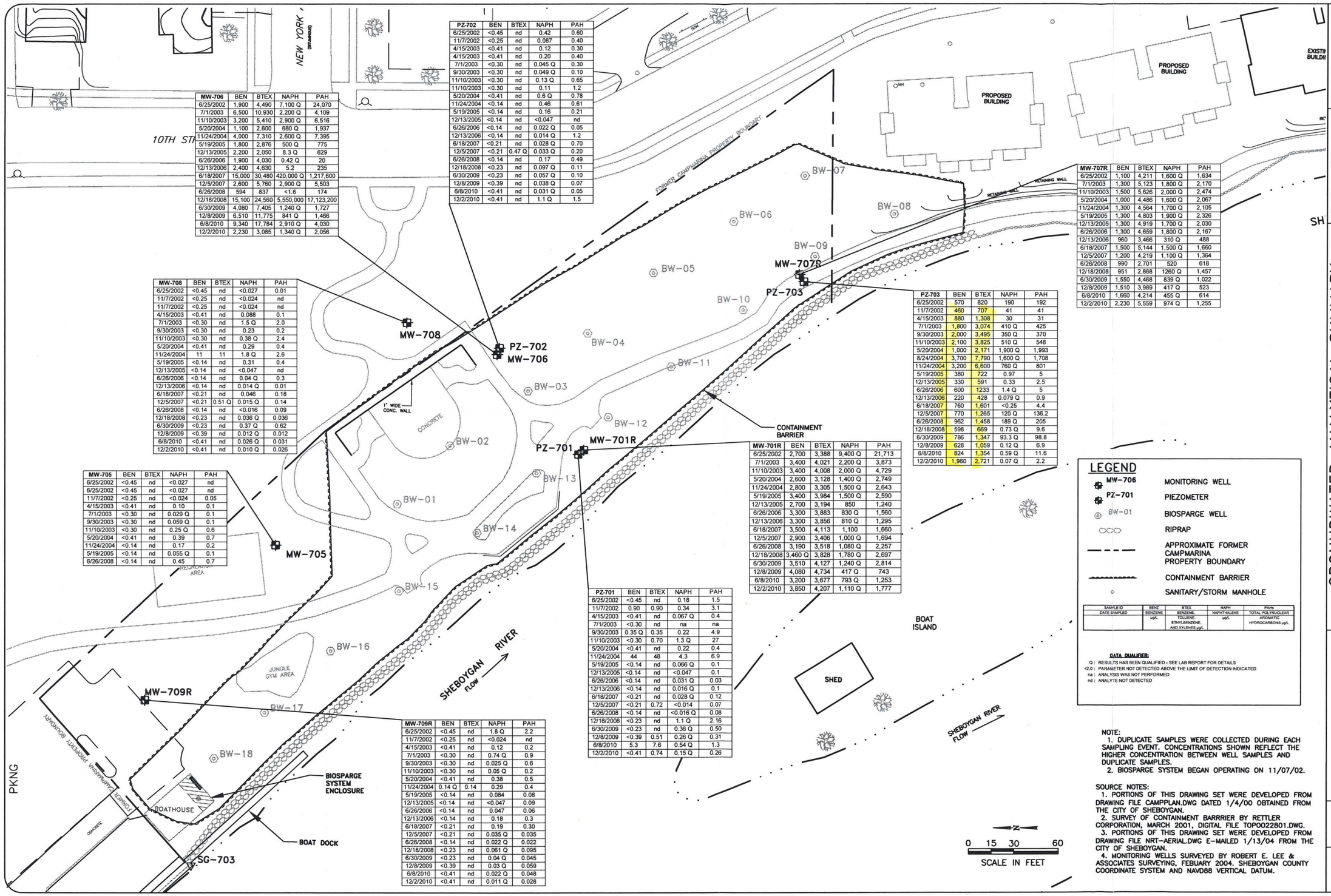
PZ-703	BEN	BTEX	NAPH	PAH
6/25/2002	570	820	190	192
11/7/2002	460	707	41	41
4/15/2003	880	1,308	30	31
7/1/2003	1,800	3,074	410 Q	425
9/30/2003	2,000	3,495	350 Q	370
11/10/2003	2,100	3,825	510 Q	548
5/20/2004	1,000	2,171	1,900 Q	1,993
8/24/2004	3,700	7,790	1,600 Q	1,708
11/24/2004	3,200	6,600	760 Q	801
5/19/2005	380	722	0.97	5
12/13/2005	330	591	0.33	2.5
6/26/2006	600	1233	1.4 Q	5
12/13/2006	220	428	0.079 Q	0.9
6/18/2007	760	1,601	<0.25	4.4
12/5/2007	770	1,265	120 Q	136.2
6/26/2008	962	1,458	189 Q	205
12/18/2008	598	669	0.73 Q	9.6
6/30/2009	786	1,347	93.3 Q	98.8
12/8/2009	628	1,059	0.12 Q	6.9
6/8/2010	824	1,354	0.59 Q	11.6
12/2/2010	1,960	2,721	0.07 Q	2.2

MW-705	BEN	BTEX	NAPH	PAH
6/25/2002	<0.45	nd	<0.027	nd
6/25/2002	<0.45	nd	<0.027	nd
11/7/2002	<0.25	nd	<0.024	0.05
4/15/2003	<0.41	nd	0.10	0.1
7/1/2003	<0.30	nd	0.029 Q	0.1
9/30/2003	<0.30	nd	0.059 Q	0.1
11/10/2003	<0.30	nd	0.25 Q	0.6
5/20/2004	<0.41	nd	0.39	0.7
11/24/2004	<0.14	nd	0.17	0.2
5/19/2005	<0.14	nd	0.055 Q	0.1
6/26/2008	<0.14	nd	0.45	0.7

MW-701R	BEN	BTEX	NAPH	PAH
6/25/2002	2,700	3,388	9,400 Q	21,713
7/1/2003	3,400	4,021	2,200 Q	3,873
11/10/2003	3,400	4,008	2,000 Q	4,729
5/20/2004	2,600	3,128	1,400 Q	2,749
11/24/2004	2,800	3,305	1,500 Q	2,643
5/19/2005	3,400	3,984	1,500 Q	2,590
12/13/2005	2,700	3,194	850	1,240
6/26/2006	3,300	3,883	830 Q	1,560
12/13/2006	3,300	3,856	810 Q	1,295
6/18/2007	3,500	4,113	1,100	1,660
12/5/2007	2,900	3,406	1,000 Q	1,694
6/26/2008	3,190	3,518	1,080 Q	2,257
12/18/2008	3,460 Q	3,828	1,780 Q	2,697
6/30/2009	3,510	4,127	1,240 Q	2,814
12/8/2009	4,080	4,734	417 Q	743
6/8/2010	3,200	3,677	793 Q	1,253
12/2/2010	3,850	4,207	1,110 Q	1,777

PZ-701	BEN	BTEX	NAPH	PAH
6/25/2002	<0.45	nd	0.18	1.5
11/7/2002	0.90	0.90	0.34	3.1
4/15/2003	<0.41	nd	0.067 Q	0.4
7/1/2003	<0.30	nd	na	na
9/30/2003	0.35 Q	0.35	0.22	4.9
11/10/2003	<0.30	0.70	1.3 Q	27
5/20/2004	<0.41	nd	0.22	0.4
11/24/2004	44	48	4.3	6.9
5/19/2005	<0.14	nd	0.066 Q	0.1
12/13/2005	<0.14	nd	<0.047	0.1
6/26/2006	<0.14	nd	0.031 Q	0.03
12/13/2006	<0.14	nd	0.016 Q	0.1
6/18/2007	<0.21	nd	0.028 Q	0.12
12/5/2007	<0.21	0.72	<0.014	0.07
6/26/2008	<0.14	nd	<0.016 Q	0.08
12/18/2008	<0.23	nd	1.1 Q	2.16
6/30/2009	<0.23	nd	0.36 Q	0.50
12/8/2009	<0.39	0.51	0.26 Q	0.31
6/8/2010	5.3	7.6	0.54 Q	1.3
12/2/2010	<0.41	0.74	0.15 Q	0.26

MW-709R	BEN	BTEX	NAPH	PAH
6/25/2002	<0.45	nd	1.8 Q	2.2
11/7/2002	<0.25	nd	<0.024	nd
4/15/2003	<0.41	nd	0.12	0.2
7/1/2003	<0.30	nd	0.74 Q	0.9
9/30/2003	<0.30	nd	0.025 Q	0.6
11/10/2003	<0.30	nd	0.05 Q	0.2
5/20/2004	<0.41	nd	0.38	0.5
11/24/2004	0.14 Q	0.14	0.29	0.4
5/19/2005	<0.14	nd	0.084	0.08
12/13/2005	<0.14	nd	<0.047	0.09
6/26/2006	<0.14	nd	0.047	0.06
12/13/2006	<0.14	nd	0.18	0.3
6/18/2007	<0.21	nd	0.19	0.30
12/5/2007	<0.21	nd	0.035 Q	0.035
6/26/2008	<0.14	nd	0.022 Q	0.022
12/18/2008	<0.23	nd	0.061 Q	0.095
6/30/2009	<0.23	nd	0.04 Q	0.045
12/8/2009	<0.39	nd	0.03 Q	0.059
6/8/2010	<0.41	nd	0.022 Q	0.048
12/2/2010	<0.41	nd	0.011 Q	0.028



LEGEND

- MW-706 — MONITORING WELL
- PZ-701 — PIEZOMETER
- BW-01 — BIOSPARGE WELL
- RIPRAP
- APPROXIMATE FORMER CAMPMARINA PROPERTY BOUNDARY
- CONTAINMENT BARRIER
- SANITARY/STORM MANHOLE

SAMPLE ID / DATE SAMPLED	BENZ	BTEX	NAPH	PAHs
	BENZENE µg/L	BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES µg/L	NAPHTHALENE µg/L	TOTAL POLYNUCLEAR AROMATIC HYDROCARBONS µg/L

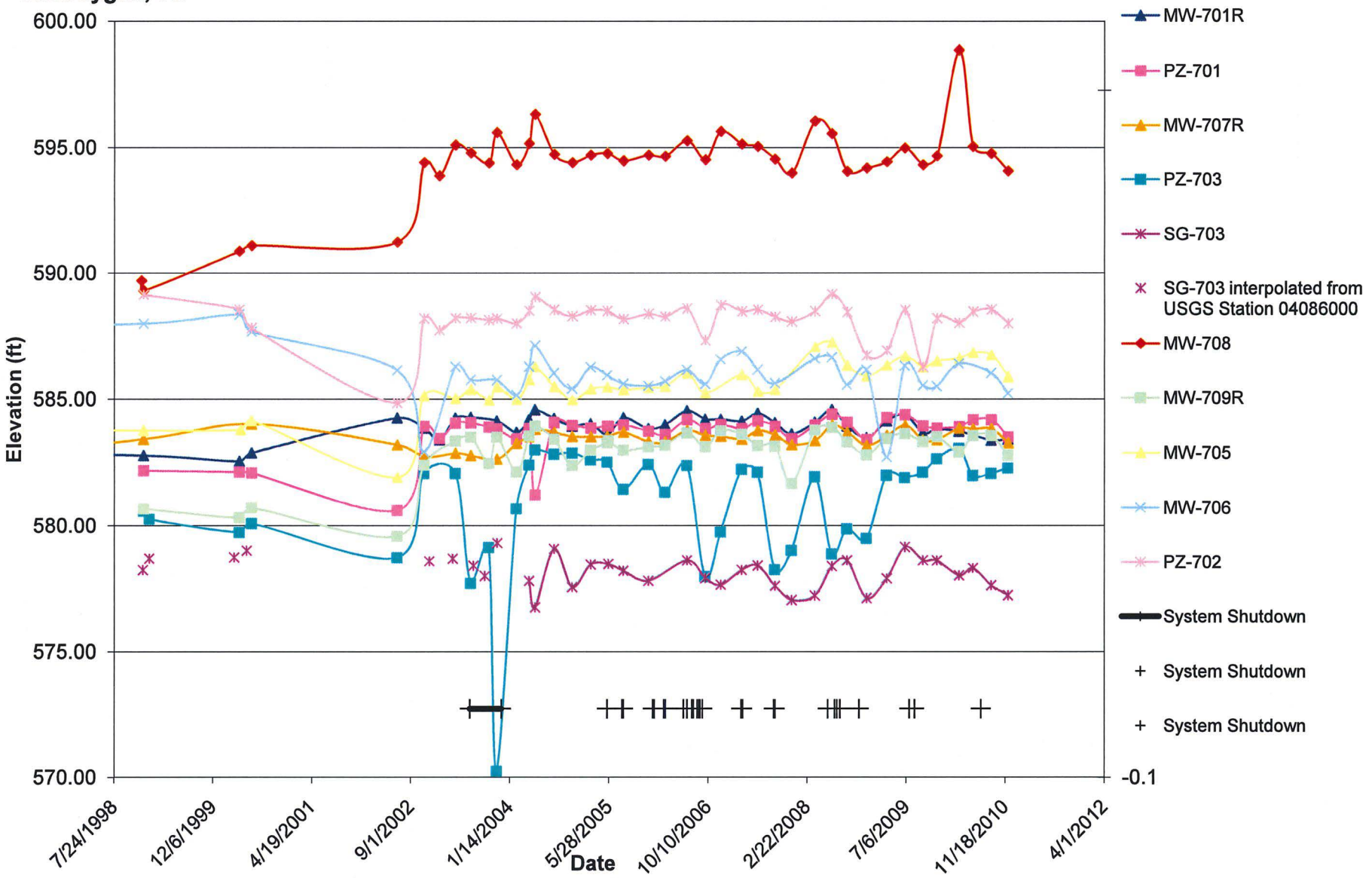
DATA QUALIFIER:
Q: RESULTS HAS BEEN QUALIFIED - SEE LAB REPORT FOR DETAILS
<2.0: PARAMETER NOT DETECTED ABOVE THE LIMIT OF DETECTION INDICATED
na: ANALYSIS WAS NOT PERFORMED
nd: ANALYTE NOT DETECTED

0 15 30 60
SCALE IN FEET

NOTE:
1. DUPLICATE SAMPLES WERE COLLECTED DURING EACH SAMPLING EVENT. CONCENTRATIONS SHOWN REFLECT THE HIGHER CONCENTRATION BETWEEN WELL SAMPLES AND DUPLICATE SAMPLES.
2. BIOSPARGE SYSTEM BEGAN OPERATING ON 11/07/02.

SOURCE NOTES:
1. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE CAMPPLAN.DWG DATED 1/4/00 OBTAINED FROM THE CITY OF SHEBOYGAN.
2. SURVEY OF CONTAINMENT BARRRIER BY RETTLER CORPORATION, MARCH 2001, DIGITAL FILE TOPO022801.DWG.
3. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE NRT–AERIAL.DWG E–MAILED 1/13/04 FROM THE CITY OF SHEBOYGAN.
4. MONITORING WELLS SURVEYED BY ROBERT E. LEE & ASSOCIATES SURVEYING, FEBUARY 2004. SHEBOYGAN COUNTY COORDINATE SYSTEM AND NAVD88 VERTICAL DATUM.

Figure 6. Groundwater Elevations vs River Water Elevations
Wisconsin Public Service - Campmarina Former MGP Site
Sheboygan, WI



TABLES

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet)	Top of PVC Elevation (feet)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet)	Middle of Screen Elevation (feet)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-701	588.97	588.51	13.4	10	585.11		8/14/1995	5.51	583.00	7.38	27.63	2.67E-01	downward
							8/20/1995	5.63	582.88	9.14	27.51	3.32E-01	downward
							9/25/1995	5.58	582.93	10.30	27.56	3.74E-01	downward
							12/21/1998	5.72	582.79	0.60	27.42	2.19E-02	downward
							4/18/2000	5.95	582.56	0.42	27.19	1.54E-02	downward
							6/19/2000	5.62	582.89	0.78	27.52	2.83E-02	downward
							Well Replaced	–	–				
MW-701R		590.47	10.80	5	584.67		6/25/2002	6.20	584.27	3.64	28.90	1.26E-01	downward
							11/7/2002	6.60	583.87	-0.08	28.50	-2.81E-03	upward
							1/24/2003	7.06	583.41	-0.06	28.04	-2.14E-03	upward
							4/15/2003	6.21	584.26	0.19	28.89	6.58E-03	downward
							7/1/2003	6.18	584.29	0.21	28.92	7.26E-03	downward
							11/10/2003	6.31	584.16	0.32	28.79	1.11E-02	downward
	590.43	590.23	10.56	5	584.67		2/17/2004	6.53	583.70	0.25	28.33	8.82E-03	downward
							4/20/2004	6.02	584.21	0.36	28.84	1.25E-02	downward
							5/20/2004	5.63	584.60	3.36	29.23	1.15E-01	downward
							8/24/2004	5.98	584.25	0.15	28.88	5.19E-03	
							11/24/2004	6.28	583.95	-0.04	28.58	-1.40E-03	upward
							2/25/2005	6.19	584.04	0.16	28.67	5.58E-03	downward
							5/19/2005	6.61	583.62	-0.34	28.25	-1.20E-02	upward
							8/9/2005	5.95	584.28	0.28	28.91	9.69E-03	downward
							12/13/2005	6.38	583.85	0.10	28.48	3.51E-03	downward
							3/7/2006	6.23	584.00	0.39	28.63	1.36E-02	downward
							6/26/2006	5.68	584.55	0.34	29.18	1.17E-02	downward
							9/26/2006	6.01	584.22	0.37	28.85	1.28E-02	downward
							12/13/2006	6.01	584.22	0.21	28.85	7.28E-03	downward
							3/29/2007	6.08	584.15	0.30	28.78	1.04E-02	downward
							6/18/2007	5.78	584.45	0.30	29.08	1.03E-02	downward
							9/13/2007	6.15	584.08	0.14	28.71	4.88E-03	downward
	590.24	590.04	10.37	5	584.67		12/6/2007	6.41	583.63	0.18	28.26	6.37E-03	downward
							4/1/2008	5.94	584.10	0.10	28.73	3.48E-03	downward
							6/26/2008	5.44	584.60	0.18	29.23	6.16E-03	downward
							9/11/2008	6.09	583.95	-0.15	28.58	-5.25E-03	upward
							12/18/2008	6.55	583.49	0.07	28.12	2.49E-03	downward
							3/30/2009	5.89	584.15	-0.13	28.78	-4.52E-03	upward
							6/30/2009	5.64	584.40	0.00	29.03	0.00E+00	
							9/29/2009	6.36	583.68	-0.28	28.31	-9.89E-03	upward
							12/8/2009	6.23	583.81	-0.06	28.44	-2.11E-03	upward
							3/30/2010	6.30	583.74	-0.19	28.37	-6.70E-03	upward
							6/8/2010	nm	nm	nm	nm	nm	nm
							9/8/2010	6.65	583.39	-0.81	28.02	-2.89E-02	upward
							12/2/2010	6.61	583.43	-0.09	28.06	-3.21E-03	upward

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet)	Top of PVC Elevation (feet)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet)	Middle of Screen Elevation (feet)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
PZ-701	589.28	588.89	36.02	5	557.87	555.37	8/14/1995	13.27	575.62				
							8/20/1995	15.15	573.74				
							9/25/1995	16.26	572.63				
							12/21/1998	6.70	582.19				
							4/18/2000	6.75	582.14				
							6/19/2000	6.78	582.11				
		590.53	37.66	5	557.87	555.37	6/25/2002	9.90	580.63				
							11/7/2002	6.58	583.95				
							1/24/2003	7.06	583.47				
							4/15/2003	6.46	584.07				
							7/1/2003	6.45	584.08				
							9/30/2003	6.61	583.92				
							11/10/2003	6.69	583.84				
	590.45	590.25	37.38	5	557.87	555.37	2/17/2004	6.80	583.45				
							4/20/2004	6.40	583.85				
							5/20/2004	9.01	581.24				
							8/24/2004	6.15	584.10				
							11/24/2004	6.26	583.99				
							2/25/2005	6.37	583.88				
							5/19/2005	6.29	583.96				
							5/25/2005	6.30	583.95				
							8/9/2005	6.25	584.00				
							12/13/2005	6.50	583.75				
							3/7/2006	6.64	583.61				
							6/26/2006	6.04	584.21				
							9/26/2006	6.40	583.85				
							12/13/2006	6.24	584.01				
							3/29/2007	6.40	583.85				
							6/18/2007	6.10	584.15				
							9/13/2007	6.31	583.94				
	590.28	590.08	37.21	5	557.87	555.37	12/6/2007	6.63	583.45				
							4/1/2008	6.08	584.00				
							6/26/2008	5.66	584.42				
							9/11/2008	5.98	584.10				
							12/18/2008	6.66	583.42				
							3/30/2009	5.80	584.28				
							6/30/2009	5.68	584.40				
							9/29/2009	6.12	583.96				
							12/8/2009	6.21	583.87				
							3/30/2010	6.15	583.93				
							6/8/2010	5.88	584.20				
							9/8/2010	5.88	584.20				
							12/2/2010	6.56	583.52				

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Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet)	Top of PVC Elevation (feet)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet)	Middle of Screen Elevation (feet)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-702	590.39	590.09	13.40	10	586.69		8/14/1995	4.86	585.23				
							8/20/1995	4.69	585.40				
							9/25/1995	4.88	585.21				
							12/21/1998	4.83	585.26				
							4/18/2000	4.52	585.57				
							6/19/2000	2.68	587.41				
							Abandoned Monitoring Well						
MW-703	589.16	588.80	13.46	10	585.34		8/14/1995	5.63	583.17				
							8/20/1995	5.69	583.11				
							9/25/1995	5.74	583.06				
							12/21/1998	5.7	583.10				
							4/18/2000	5.99	582.81				
							6/19/2000	5.56	583.24				
							Abandoned Monitoring Well						
MW-704	589.43	589.05	13.20	10	585.85		8/14/1995	5.93	583.12				
							8/20/1995	5.96	583.09				
							9/25/1995	6.00	583.05				
							12/21/1998	5.63	583.42				
							4/18/2000	5.64	583.41				
							6/19/2000	5.62	583.43				
							Abandoned Monitoring Well						

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet)	Top of PVC Elevation (feet)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet)	Middle of Screen Elevation (feet)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-705	590.22	589.91	16.66	10	583.25		8/14/1995	6.95	582.96				
							8/20/1995	6.07	583.84				
							9/25/1995	6.09	583.82				
							12/21/1998	6.14	583.77				
							4/25/2000	6.11	583.80				
							6/19/2000	5.74	584.17				
	593.57	592.20	18.95	10	583.25		6/25/2002	10.27	581.93				
							11/7/2002	7.05	585.15				
							4/15/2003	7.17	585.03				
							7/1/2003	6.80	585.40				
							9/30/2003	7.23	584.97				
							11/10/2003	6.70	585.50				
							2/17/2004	7.20	585.00				
							4/20/2004	6.41	585.79				
							5/20/2004	5.91	586.29				
							8/24/2004	6.68	585.52				
							11/24/2004	7.22	584.98				
							2/25/2005	6.78	585.42				
							5/19/2005	6.71	585.49				
							8/9/2005	6.81	585.39				
							12/13/2005	6.73	585.47				
							3/7/2006	6.68	585.52				
							6/26/2006	6.15	586.05				
							9/26/2006	6.93	585.27				
							12/13/2006	nm	nm				
							3/29/2007	6.22	585.98				
							6/18/2007	6.88	585.32				
							9/13/2007	6.81	585.39				
	593.33	593.04	19.79	10	583.25		12/6/2007	nm	nm	well buried under snow, could not locate			
							4/1/2008	5.95	587.09				
							6/26/2008	5.77	587.27				
							9/11/2008	6.70	586.34				
							12/18/2008	7.12	585.92				
							3/30/2009	6.69	586.35				
							6/30/2009	6.33	586.71				
							9/29/2009	6.76	586.28				
							12/8/2009	6.52	586.52				
							3/30/2010	6.41	586.63				
							6/8/2010	6.19	586.85				
							9/8/2010	6.28	586.76				
							12/2/2010	7.15	585.89				

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet)	Top of PVC Elevation (feet)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet)	Middle of Screen Elevation (feet)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-706	591.51	591.34	14.10	10	587.94		8/14/1995	3.5 *	587.8 *				
							8/20/1995	3.4 *	587.9 *				
							9/25/1995	3.5 *	587.8 *				
							12/21/1998	3.34	588.00	-1.15	29.34	-3.92E-02	upward
							4/18/2000	2.98	588.36	-0.20	29.70	-6.73E-03	upward
							6/19/2000	3.65	587.69	-0.15	29.03	-5.17E-03	upward
	595.2	594.54	16.60	10	587.94		6/25/2002	8.40	586.14	1.27	27.48	4.62E-02	downward
							11/7/2002	9.22	582.94	-5.28	24.28	-2.17E-01	upward
							1/24/2003	--	--				
							4/15/2003	8.25	586.29	-1.94	27.63	-7.02E-02	upward
							7/1/2003	8.77	585.77	-2.47	27.11	-9.11E-02	upward
							11/10/2003	8.78	585.76	-2.46	27.10	-9.08E-02	upward
							2/17/2004	9.37	585.17	-2.86	26.51	-1.08E-01	upward
							4/20/2004	8.25	586.29	-2.23	27.63	-8.07E-02	upward
							5/20/2004	7.41	587.13	-1.93	28.47	-6.78E-02	upward
							8/24/2004	8.51	586.03	-2.53	27.37	-9.24E-02	upward
							11/24/2004	9.11	585.43	-2.88	26.77	-1.08E-01	upward
							2/25/2005	8.27	586.27	-2.27	27.61	-8.22E-02	upward
							5/19/2005	8.59	585.95	-2.56	27.29	-9.38E-02	upward
							8/9/2005	8.92	585.62	-2.58	26.96	-9.57E-02	upward
							12/13/2005	9.00	585.54	-2.86	26.88	-1.06E-01	upward
							3/7/2006	8.82	585.72	-2.57	27.06	-9.50E-02	upward
							6/26/2006	8.38	586.16	-2.45	27.50	-8.91E-02	upward
							9/26/2006	8.93	585.61	-1.75	26.95	-6.49E-02	upward
							12/13/2006	7.96	586.58	-2.15	27.92	-7.70E-02	upward
							3/29/2007	7.64	586.90	-1.59	28.24	-5.63E-02	upward
							6/18/2007	8.37	586.17	-2.39	27.51	-8.69E-02	upward
							9/13/2007	8.90	585.64	-2.64	26.98	-9.79E-02	upward
	595.00	594.36	16.42	10	587.94		12/6/2007	nm	nm	coal tar present			
							4/1/2008	7.75	586.61	-1.89	27.95	-6.76E-02	upward
							6/26/2008	7.70	586.66	-2.51	28.00	-8.96E-02	upward
							9/11/2008	8.78	585.58	-2.88	26.92	-1.07E-01	upward
							12/18/2008	8.20	586.16	-0.59	27.50	-2.15E-02	upward
							3/30/2009	11.63	582.73	-4.22	24.07	-1.75E-01	upward
							6/30/2009	8.04	586.32	-2.22	27.66	-8.03E-02	upward
							9/29/2009	8.81	585.55	-0.74	26.89	-2.75E-02	upward
							12/8/2009	8.84	585.52	-2.70	26.86	-1.01E-01	upward
							3/30/2010	7.96	586.40	-1.64	27.74	-5.91E-02	upward
							6/8/2010	nm	nm	nm	nm	nm	nm
							9/8/2010	8.33	586.03	-2.53	27.37	-9.24E-02	upward
							12/2/2010	9.12	585.24	-2.78	26.58	-1.05E-01	upward

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Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet)	Top of PVC Elevation (feet)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet)	Middle of Screen Elevation (feet)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
PZ-702	591.62	591.16	38.62	5	561.2	558.7	12/21/1998	2.01	589.15				
							4/18/2000	2.60	588.56				
							6/19/2000	3.32	587.84				
	596.16	595.34	39.1	5	561.2	558.7	6/25/2002	10.47	584.87				
							11/7/2002	7.12	588.22				
							1/24/2003	7.58	587.76				
							4/15/2003	7.11	588.23				
							7/1/2003	7.10	588.24				
							9/30/2003	7.18	588.16				
							11/10/2003	7.12	588.22				
							2/17/2004	7.31	588.03				
							4/20/2004	6.82	588.52				
							5/20/2004	6.28	589.06				
							8/24/2004	6.78	588.56				
							11/24/2004	7.03	588.31				
							2/25/2005	6.80	588.54				
							5/19/2005	6.83	588.51				
							8/9/2005	7.14	588.20				
							12/13/2005	6.94	588.40				
							3/7/2006	7.05	588.29				
							6/26/2006	6.73	588.61				
							9/26/2006	7.98	587.36				
							12/13/2006	6.61	588.73				
							3/29/2007	6.85	588.49				
							6/18/2007	6.78	588.56				
							9/13/2007	7.06	588.28				
	595.91	595.17	38.97	5	561.2	558.7	12/6/2007	7.07	588.10				
							4/1/2008	6.67	588.50				
							6/26/2008	6.00	589.17				
							9/11/2008	6.71	588.46				
							12/18/2008	8.42	586.75				
							3/30/2009	8.22	586.95				
							6/30/2009	6.63	588.54				
							9/29/2009	8.88	586.29				
							12/8/2009	6.95	588.22				
							3/30/2010	7.13	588.04				
							6/8/2010	6.70	588.47				
							9/8/2010	6.61	588.56				
							12/2/2010	7.15	588.02				

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Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet)	Top of PVC Elevation (feet)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet)	Middle of Screen Elevation (feet)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-707	590.29	590.08	13.35	10	586.73		8/14/1995	7.48	582.60				
							8/20/1995	7.71	582.37				
							9/25/1995	7.67	582.41				
							12/21/1998	6.65	583.43	2.84	26.71	1.06E-01	downward
							4/18/2000	--	--				
							6/19/2000	6.05	584.03	3.94	27.31	1.44E-01	downward
							Well Replaced	--	--				
MW-707R		587.78	11.97	10	585.81		6/25/2002	4.57	583.21	4.48	26.49	1.69E-01	downward
							11/7/2002	5.04	582.74	0.66	26.02	2.54E-02	downward
							1/24/2003	--	--	--	--	--	--
							4/15/2003	4.9	582.88	0.80	26.16	3.06E-02	downward
							7/1/2003	4.99	582.79	5.09	26.07	1.95E-01	downward
							11/10/2003	5.13	582.65	12.41	25.93	4.79E-01	downward
	588.9	588.57	12.76	10	585.81		2/17/2004	5.30	583.27	2.59	26.55	9.76E-02	downward
							4/20/2004	5.03	583.54	1.13	26.82	4.21E-02	downward
							5/20/2004	4.75	583.82	0.81	27.10	2.99E-02	downward
							8/24/2004	4.87	583.70	0.86	26.98	3.19E-02	downward
							11/24/2004	5.03	583.54	0.66	26.82	2.46E-02	downward
							2/25/2005	5.04	583.53	0.91	26.81	3.39E-02	downward
							5/19/2005	5.03	583.54	1.01	26.82	3.77E-02	downward
							8/9/2005	4.86	583.71	2.26	26.99	8.37E-02	downward
							12/13/2005	5.24	583.33	0.90	26.61	3.38E-02	downward
							3/7/2006	5.25	583.32	1.98	26.60	7.44E-02	downward
							6/26/2006	4.80	583.77	1.38	27.05	5.10E-02	downward
							9/26/2006	4.99	583.58	5.61	26.86	2.09E-01	downward
							12/13/2006	5.02	583.55	3.80	26.83	1.42E-01	downward
							3/29/2007	5.13	583.44	1.19	26.72	4.45E-02	downward
							6/18/2007	4.80	583.77	1.64	27.05	6.06E-02	downward
							9/13/2007	4.97	583.60	5.35	26.88	1.99E-01	downward
	588.63	588.18	12.37	10	585.81		12/6/2007	4.97	583.21	4.19	26.49	1.58E-01	downward
							4/1/2008	4.80	583.38	1.44	26.66	5.40E-02	downward
							6/26/2008	4.19	583.99	5.12	27.27	1.88E-01	downward
							9/11/2008	4.48	583.70	3.83	26.98	1.42E-01	downward
							12/18/2008	5.00	583.18	3.69	26.46	1.39E-01	downward
							3/30/2009	4.61	583.57	1.56	26.85	5.81E-02	downward
							6/30/2009	4.20	583.98	2.07	27.26	7.59E-02	downward
							9/29/2009	4.79	583.39	1.26	26.67	4.72E-02	downward
							12/8/2009	4.77	583.41	0.76	26.69	2.85E-02	downward
							3/30/2010	4.32	583.86	0.80	27.14	2.95E-02	downward
							6/8/2010	4.35	583.83	1.83	27.11	6.75E-02	downward
							9/8/2010	4.34	583.84	1.76	27.12	6.49E-02	downward
							12/2/2010	4.90	583.28	0.99	26.56	3.73E-02	downward

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet)	Top of PVC Elevation (feet)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet)	Middle of Screen Elevation (feet)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
PZ-703	589.85	589.22	33.94	5	559.2	556.7	12/21/1998	8.63	580.59				
							1/19/1999	8.96	580.26				
							4/18/2000	9.49	579.73				
							6/19/2000	9.13	580.09				
	588.81	588.53	34.33	5	559.2	556.7	6/25/2002	9.80	578.73				
							11/7/2002	6.45	582.08				
							1/24/2003	--	--				
							4/15/2003	6.45	582.08				
							7/1/2003	10.83	577.70				
							9/30/2003	9.40	579.13				
							11/10/2003	18.29	570.24				
							2/17/2004	7.85	580.68				
							4/20/2004	6.12	582.41				
							5/20/2004	5.52	583.01				
							8/24/2004	5.69	582.84				
							11/24/2004	5.65	582.88				
							2/25/2005	5.91	582.62				
							5/19/2005	6.00	582.53				
							8/9/2005	7.08	581.45				
							12/13/2005	6.10	582.43				
							3/7/2006	7.19	581.34				
							6/26/2006	6.14	582.39				
							9/26/2006	10.56	577.97				
							12/13/2006	8.78	579.75				
							3/29/2007	6.28	582.25				
							6/18/2007	6.40	582.13				
							9/13/2007	10.28	578.25				
	588.57	588.29	34.09	5	559.2	556.7	12/6/2007	9.27	579.02				
							4/1/2008	6.35	581.94				
							6/26/2008	9.42	578.87				
							9/11/2008	8.42	579.87				
							12/18/2008	8.80	579.49				
							3/30/2009	6.28	582.01				
							6/30/2009	6.38	581.91				
							9/29/2009	6.16	582.13				
							12/8/2009	5.64	582.65				
							3/30/2010	5.23	583.06				
							6/8/2010	6.29	582.00				
							9/8/2010	6.21	582.08				
							12/2/2010	6.00	582.29				

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet)	Top of PVC Elevation (feet)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet)	Middle of Screen Elevation (feet)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-708	606.45	606.09	18.86	15	602.23		12/10/1998	16.39	589.70				
							12/21/1998	16.78	589.31				
							4/18/2000	15.21	590.88				
							6/19/2000	14.98	591.11				
	605.87	605.47	18.24	15	602.23		6/25/2002	14.22	591.25				
							11/7/2002	11.05	594.42				
							1/24/2003	11.58	593.89				
							4/15/2003	10.35	595.12				
							7/1/2003	10.66	594.81				
							9/30/2003	11.07	594.40				
							11/10/2003	9.85	595.62				
							2/17/2004	11.13	594.34				
							4/20/2004	10.28	595.19				
							5/20/2004	9.12	596.35				
							8/24/2004	10.72	594.75				
							11/24/2004	11.05	594.42				
							2/25/2005	10.75	594.72				
							5/19/2005	10.68	594.79				
							8/9/2005	10.98	594.49				
							12/13/2005	10.75	594.72				
							3/7/2006	10.8	594.67				
							6/26/2006	10.17	595.30				
							9/26/2006	10.93	594.54				
							12/13/2006	9.80	595.67				
							3/29/2007	10.31	595.16				
							6/18/2007	10.40	595.07				
							9/13/2007	10.91	594.56				
	605.53	605.28	18.05	15	602.23		12/6/2007	11.28	594.00				
							4/1/2008	9.20	596.08				
							6/26/2008	9.70	595.58				
							9/11/2008	11.21	594.07				
							12/18/2008	11.08	594.20				
							3/30/2009	10.83	594.45				
							6/30/2009	10.28	595.00				
							9/29/2009	10.95	594.33				
							12/8/2009	10.60	594.68				
							3/30/2010	6.38	598.90				
							6/8/2010	10.22	595.06				
							9/8/2010	10.50	594.78				
							12/2/2010	11.20	594.08				

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet)	Top of PVC Elevation (feet)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet)	Middle of Screen Elevation (feet)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
MW-709	588.51	587.95	12.50	10	585.45		12/21/1998	7.27	580.68				
							4/18/2000	7.62	580.33				
							6/19/2000	7.23	580.72				
							Well Replaced	–	–				
MW-709R	589.15	588.81	16.54	10	582.27		6/25/2002	9.23	579.58				
							11/7/2002	6.40	582.41				
							4/15/2003	5.45	583.36				
							7/1/2003	5.30	583.51				
							9/30/2003	6.33	582.48				
							11/10/2003	5.29	583.52				
	588.96	588.58	16.31	10	582.27		2/17/2004	6.44	582.14				
							4/20/2004	5.02	583.56				
							5/20/2004	4.63	583.95				
							8/24/2004	5.14	583.44				
							11/24/2004	6.19	582.39				
							2/25/2005	5.58	583.00				
							5/19/2005	5.29	583.29				
							5/25/2005	5.20	583.38				
							8/9/2005	5.58	583.00				
							12/13/2005	5.46	583.12				
							3/7/2006	5.38	583.20				
							6/26/2006	4.90	583.68				
							9/26/2006	5.46	583.12				
							12/13/2006	4.81	583.77				
							3/29/2007	4.95	583.63				
							6/18/2007	5.40	583.18				
							9/13/2007	5.43	583.15				
	588.76	588.41	16.14	10	582.27		12/6/2007	6.73	581.68				
							4/1/2008	4.62	583.79				
							6/26/2008	4.51	583.90				
							9/11/2008	5.09	583.32				
							12/18/2008	5.60	582.81				
							3/30/2009	4.95	583.46				
							6/30/2009	4.76	583.65				
							9/29/2009	5.08	583.33				
							12/8/2009	4.88	583.53				
							3/30/2010	5.48	582.93				
							6/8/2010	4.84	583.57				
							9/8/2010	4.84	583.57				
							12/2/2010	5.62	582.79				

Table 1. Groundwater Elevations and Vertical Gradients
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

Monitoring Location	Ground Surface Elevation (feet)	Top of PVC Elevation (feet)	Total Well Depth (feet)	Screen Length (feet)	Top of Screen Elevation (feet)	Middle of Screen Elevation (feet)	Monitoring Date	Depth to Water (feet)	Groundwater Elevation (feet)	Change in head (feet)	Change in distance (feet)	Vertical Gradient	Direction
SG-701	na	582.02	na	na	na		8/14/1995	2.00	580.02				
							8/20/1995	2.33	579.69				
							9/25/1995	2.49	579.53				
							Abandoned						
SG-702	na	581.37	na	na	na		`"""""""""`	2.33	579.04				
							Abandoned						
SG-703	na	582.27	na	na	na		4/20/2004	4.45	577.82				
							5/20/2004	5.5	576.77				
							8/24/2004	3.18	579.09				
							11/24/2004	4.7	577.57				
							2/25/2005	3.80	578.47				
							5/25/2005	3.78	578.49				
							8/9/2005	4.05	578.22				
							12/13/2005	4.45	577.82				
							6/26/2006	3.64	578.63				
							9/26/2006	4.34	577.93				
							12/13/2006	4.61	577.66				
							3/29/2007	4.02	578.25				
							6/18/2007	3.84	578.43				
							9/13/2007	4.65	577.62				
	na	582.03	na	na	na		12/6/2007	4.97	577.06	top of ice			
							4/1/2008	4.80	577.23				
							6/26/2008	3.63	578.40				
							9/11/2008	3.40	578.63				
							12/18/2008	4.90	577.13	top of ice			
							3/30/2009	4.12	577.91				
							6/30/2009	2.87	579.16				
							9/29/2009	3.40	578.63				
							12/8/2009	3.41	578.62				
							3/30/2010	4.00	578.03				
							6/8/2010	3.71	578.32				
							9/8/2010	4.40	577.63				
							12/2/2010	4.79	577.24	top of ice			

MS/LJH 6/4/04 U-HMS/MJR 9/17/04 U-HMS/JTB 12/13/04 U-HMS/PAR 3/05 U-HMS/RTB 6/05 U-HMS/PAR 9/05 U-HMS/JTB 12/05 U-RJG/HMS 7/06 U-HMS/JCB 12/06 U-PAR/JTB 4/07 U-HMS/RJG 8/07 U-RJG/HMS 9/07 U-HMS/KJB 2/09 U-RMN/AMM 1/10 U-HMS/AMM 3/10]

Notes:

1. PZ-701, MW-701R and MW-707R were surveyed on 7/17/01 by Rettler Corporation from Stevens Point, Wisconsin.
   PZ-101 was extended from pre-remedial ground surface elevation to existing ground surface elevation.
2. Elevations are referenced to NAVD88 Datum.
3. * Estimated value.
4. MW-709 was surveyed on 12/22/03 by NRT using MW-701R TOC as a bench mark and a laser level.
5. – Not Measured
6. On February 17, 2004, Robert E. Lee Associates surveyed top of casing and flushmount covers, and established a staff gauge
   located at the southwest corner,west face, of the Marina's concrete boat dock (chisel marked blue).
   Wells MW-705, MW-706, PZ-702, PZ-703, and MW-708 were extended or reduced to match final grades during remedial construction activities in 2002
   Consequently, the surveyed elevations for these wells were used in groundwater elevation calculations as of 2002.
7. All monitoring wells and staff gauge were suveyed on June 5, 2008 by Integrys surveyor from Green Bay, Wisconsin. Well MW-707R was trimmed on 9/24/07.

Table 2. Groundwater Analytical Summary - BTEX (µg/L) and Cyanides (mg/L)

Groundwater Monitoring Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
BW06								
	5/20/2004	< 0.41	< 0.54	< 0.67	< 1.8	0.0032	--	--
	11/24/2004	< 0.14	< 0.4	< 0.36	< 0.74	--	--	< 0.0053
	5/19/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	0.003 Q
	6/18/2007	0.58 Q	0.51 Q	< 0.36	< 0.74	--	--	--
BW15								
	5/20/2004	2.8	2.5	< 0.67	2.6 Q	0.077	--	--
	11/24/2004	< 0.14	< 0.4	< 0.36	< 0.74	--	--	0.0097 Q
	5/19/2005	**1400**	670	10 Q	144	--	--	0.0045 Q
MW701								
	8/15/1995	**10000**	**880**	96	820	0.11	< 0.005	0.025
	9/25/1995	**12000**	**780**	53	680	0.088	< 0.005	0.02
	12/21/1998	**10200**	**818**	77 Q	717	0.17	0.05	0.11

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Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
MW701R								
	6/25/2002	**2700**	330	28	330	0.16	0.15	0.012
	7/1/2003	**3400**	340	21 Q	260	0.13	--	--
	11/10/2003	**3400**	330	18 Q	260	0.16	--	--
	5/20/2004	**2600**	300	17 Q	211	0.15	--	--
	11/24/2004	**2800**	280	17 Q	208	--	--	0.0067 Q
	5/19/2005	**3400**	340	20 Q	224	--	--	0.0036 Q
	12/13/2005	**2700**	280	18	196	--	--	--
	6/26/2006	**3300**	330	21 Q	232	--	--	--
	12/13/2006	--	330	17 Q	209	--	--	--
	6/18/2007	**3500**	360	20 Q	233	--	--	--
	12/5/2007	**2900**	300	18 Q	188	--	--	--
	6/26/2008	**3190**	312	16 Q	181	--	--	--
	12/18/2008	**3460 Q**	349	18.9 Q	212	--	--	--
	6/30/2009	**3510**	370	19.7 Q	226.8 Q	--	--	--
	12/8/2009	**4080**	391	23.2 Q	239.5	--	--	--
	6/8/2010	**3200**	346	17.2 Q	114	--	--	--
	12/2/2010	**3850**	275	< 26.8	82.1	--	--	--
MW702								
	8/15/1995	**5900**	**1500**	**2300**	1600	0.2	< 0.005	0.043
	9/25/1995	**6100**	**1400**	**2100**	1400	0.072	< 0.005	0.032
MW703								
	8/15/1995	**1300**	**980**	29	430	0.12	< 0.005	0.039
	9/25/1995	**1300**	**1100**	23	450	0.14	< 0.005	0.028
	12/21/1998	**1190**	**973**	9.2 Q	408	0.2	0.05	0.074
	6/25/2002	monitoring well previously abandoned						

Groundwater Monitoring Update
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BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
MW704								
	8/15/1995	**340**	280	200	430	0.31	< 0.005	0.056
	9/25/1995	**1100**	670	380	970	0.28	< 0.005	0.062
	12/21/1998	**29**	13	1.6 Q	11.3	0.31	0.22	0.017
	6/25/2002	monitoring well previously abandoned						
MW705								
	8/15/1995	< 1	< 1	< 1	< 3	< 0.005	< 0.005	< 0.005
	9/25/1995	< 0.5	< 1	< 1	< 3	< 0.005	< 0.005	< 0.005
	12/21/1998	< 0.5	< 0.6	< 0.6	< 2.2	< 0.001	< 0.001	< 0.001
	6/25/2002	< 0.45	< 0.82	< 0.68	< 1.7	0.08	0.076	0.013
	11/7/2002	< 0.25	< 0.53	< 0.84	< 1.1	0.06	0.11	< 0.0027
	4/15/2003	< 0.41	< 0.54	< 0.67	< 1.8	0.1	0.1	0.0064
	7/1/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.14	--	--
	9/30/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.15	--	--
	11/10/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.17	--	--
	5/20/2004	< 0.41	< 0.54	< 0.67	< 1.8	0.15	--	--
	11/24/2004	< 0.14	< 0.4	< 0.36	< 0.74	--	--	0.0058 Q
	5/19/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	0.01
	6/26/2008	< 0.14	< 0.4	< 0.36	< 1.1	--	--	--

Groundwater Monitoring Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
MW706								
	8/15/1995	**34000**	560	**13000**	**7900**	< 0.005	< 0.005	< 0.005
	9/25/1995	**31000**	< 2	**12000**	**7700**	< 0.005	< 0.005	< 0.005
	6/25/2002	**1900**	270	**1300**	1020	0.081	0.078	0.0099
	7/1/2003	**6500**	360	**2200**	1870	0.099	--	--
	11/10/2003	**3200**	150	**1300**	760	0.086	--	--
	5/20/2004	**1100**	110	**990**	400	0.15	--	--
	11/24/2004	**4000**	230	**1700**	1380	--	--	0.0086 Q
	5/19/2005	**1800**	56	500	520	--	--	0.0046 Q
	12/13/2005	**2200**	140	**990**	700	--	--	--
	6/26/2006	**1900**	23	470	360	--	--	--
	12/13/2006	**2400**	120	**1300**	810	--	--	--
	6/18/2007	**15000**	**780**	**8800**	**5900**	--	--	--
	12/5/2007	**2600**	410	**1600**	1150	--	--	--
	6/26/2008	**594**	26.1	217	227	--	--	--
	12/18/2008	**15100**	**770**	**8690**	**5480**	--	--	--
	6/30/2009	**4080**	252	**1970**	1103	--	--	--
	12/8/2009	**6510**	412	**3160**	1693	--	--	--
	6/8/2010	**9340**	**734**	**5960**	1750	--	--	--
	12/2/2010	**2230**	227	360	267.5	--	--	--
MW707								
	8/15/1995	**1500**	**3600**	190	1400	0.38	0.21	0.042
	9/25/1995	**1200**	**3500**	130	1200	0.44	< 0.005	0.058
	12/21/1998	**830**	**3110**	82 Q	990 Q	0.64	0.13	0.033

Groundwater Monitoring Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
MW707R								
	6/25/2002	**1100**	**2300**	51	760	0.78	0.76	0.01
	7/1/2003	**1300**	**2800**	73	950	0.26	--	--
	11/10/2003	**1500**	**3000**	76	1050	0.3	--	--
	5/20/2004	**1000**	**2500**	76	910	--	--	--
	11/24/2004	**1300**	**2400**	74	790	--	--	0.0087 Q
	5/19/2005	**1300**	**2500**	93	910	--	--	0.0051 Q
	12/13/2005	**1300**	**2600**	99	920	--	--	--
	6/26/2006	**1300**	**2400**	89	870	--	--	--
	12/13/2006	**960**	**1800**	66	640	--	--	--
	6/18/2007	**1500**	**2600**	94	950	--	--	--
	12/5/2007	**1200**	**2200**	79	740	--	--	--
	6/26/2008	**990**	**1660**	50.9	535	--	--	--
	12/18/2008	**951**	**1850**	66.9	700	--	--	--
	6/30/2009	**1550**	**2140**	55.2	723	--	--	--
	12/8/2009	**1510**	**1730**	52.3	697	--	--	--
	6/8/2010	**1660**	**1850**	38	666	--	--	--
	12/2/2010	**2230**	**2600**	46.5	682	--	--	--

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Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
MW708								
	12/21/1998	< 0.5	< 0.6	< 0.6	< 2.2	< 0.001	< 0.001	< 0.001
	6/25/2002	< 0.45	< 0.82	< 0.68	< 1.7	0.0036 Q	0.003 Q	< 0.00084
	11/7/2002	< 0.25	< 0.53	< 0.84	< 1.1	0.006 Q	< 0.0027	< 0.0027
	4/15/2003	< 0.41	< 0.54	< 0.67	< 1.8	< 0.0015	< 0.0015	0.0022 Q
	7/1/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.0046 Q	--	--
	9/30/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.0034 Q	--	--
	11/10/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.0046 Q	--	--
	5/20/2004	< 0.41	< 0.54	< 0.67	< 1.8	0.0042 Q	--	--
	11/24/2004	11	0.43 Q	< 0.36	< 0.74	--	--	< 0.0053
	5/19/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	0.0027 Q
	12/13/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	6/26/2006	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	12/13/2006	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	6/18/2007	< 0.21	< 0.4	< 0.36	< 0.74	--	--	--
	12/5/2007	< 0.21	< 0.4	0.51 Q	< 0.74	--	--	--
	6/26/2008	< 0.14	< 0.4	< 0.36	< 1.1	--	--	--
	12/18/2008	< 0.23	< 0.4	< 0.36	< 1.1	--	--	--
	6/30/2009	< 0.23	< 0.4	< 0.36	< 0.74	--	--	--
	12/8/2009	< 0.39	< 0.41	< 0.42	< 0.87	--	--	--
	6/8/2010	< 0.41	< 0.54	< 0.67	< 2.6	--	--	--
	12/2/2010	< 0.41	< 0.54	< 0.67	< 1.8	--	--	--
MW709								
	12/21/1998	< 0.5	< 0.6	< 0.6	< 2.2	0.03	0.03	0.014

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Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
MW709R								
	6/25/2002	< 0.45	< 0.82	< 0.68	< 1.7	0.48	0.45	0.027
	11/7/2002	< 0.25	< 0.53	< 0.84	< 1.1	0.16	0.038	0.007 Q
	4/15/2003	< 0.41	< 0.54	< 0.67	< 1.8	0.28	0.28	0.01
	7/1/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.25	--	--
	9/30/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.11	--	--
	11/10/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.1	--	--
	5/20/2004	< 0.41	< 0.54	< 0.67	< 1.8	0.046	--	--
	11/24/2004	< 0.14	< 0.4	< 0.36	< 0.74	--	--	0.0057 Q
	5/19/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	0.0037 Q
	12/13/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	6/26/2006	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	12/13/2006	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	6/18/2007	< 0.21	< 0.4	< 0.36	< 0.74	--	--	--
	12/5/2007	< 0.21	< 0.4	< 0.36	< 0.74	--	--	--
	6/26/2008	< 0.14	< 0.4	< 0.36	< 1.1	--	--	--
	12/18/2008	< 0.23	< 0.4	< 0.36	< 1.1	--	--	--
	6/30/2009	< 0.23	< 0.4	< 0.36	< 0.74	--	--	--
	12/8/2009	< 0.39	< 0.41	< 0.42	< 0.87	--	--	--
	6/8/2010	< 0.41	< 0.54	< 0.67	< 2.6	--	--	--
	12/2/2010	< 0.41	< 0.54	< 0.67	< 1.8	--	--	--

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Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
PZ701								
	8/17/1995	**5**	3.6	6.3	11	0.02	0.02	< 0.005
	9/25/1995	2.2	1.7	6.6	6.8	0.014	0.014	< 0.005
	12/21/1998	0.96 Q	1.1 Q	1.8 Q	4.2 Q	--	--	--
	6/25/2002	< 0.45	< 0.82	< 0.68	< 1.7	0.83	0.74	0.19
	11/7/2002	0.9	< 0.53	< 0.84	< 1.1	0.18	0.042	0.049
	4/15/2003	< 0.41	< 0.54	< 0.67	< 1.8	0.47	0.47	0.028
	7/1/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.34	--	--
	9/30/2003	0.35 Q	< 0.6	< 0.58	< 1.2	0.26	--	--
	11/10/2003	< 0.3	0.7 Q	< 0.58	< 1.2	0.21	--	--
	5/20/2004	< 0.41	< 0.54	< 0.67	< 1.8	0.1	--	--
	11/24/2004	**44**	2.3	< 0.36	1.47 Q	--	--	< 0.0053
	5/19/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	0.0045 Q
	12/13/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	6/26/2006	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	12/13/2006	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	6/18/2007	< 0.21	< 0.4	< 0.36	< 0.74	--	--	--
	12/5/2007	< 0.21	< 0.4	0.72 Q	< 0.74	--	--	--
	6/26/2008	< 0.14	< 0.4	< 0.36	< 1.1	--	--	--
	12/18/2008	< 0.23	< 0.4	< 0.36	< 1.1	--	--	--
	6/30/2009	< 0.23	< 0.4	< 0.36	< 0.74	--	--	--
	12/8/2009	< 0.39	0.51 Q	< 0.42	< 0.87	--	--	--
	6/8/2010	**5.3**	0.93 Q	1.4	< 2.6	--	--	--
	12/2/2010	< 0.41	0.74 Q	< 0.67	< 1.8	--	--	--

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Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
PZ702								
	12/21/1998	< 0.5	< 0.6	1.5 Q	< 2.2	< 0.002	< 0.002	< 0.002
	6/25/2002	< 0.45	< 0.82	< 0.68	< 1.7	< 0.0023	< 0.0023	< 0.00084
	11/7/2002	< 0.25	< 0.53	< 0.84	< 1.1	< 0.0027	< 0.0027	< 0.0027
	4/15/2003	< 0.41	< 0.54	< 0.67	< 1.8	< 0.0015	< 0.0015	< 0.0019
	7/1/2003	< 0.3	< 0.6	< 0.58	< 1.2	< 0.0015	--	--
	9/30/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.0033 Q	--	--
	11/10/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.01	--	--
	5/20/2004	< 0.41	< 0.54	< 0.67	< 1.8	< 0.0016	--	--
	11/24/2004	< 0.14	< 0.4	< 0.36	< 0.74	--	--	< 0.0053
	5/19/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	< 0.0025
	12/13/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	6/26/2006	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	12/13/2006	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	6/18/2007	< 0.21	< 0.4	< 0.36	< 0.74	--	--	--
	12/5/2007	< 0.21	< 0.4	0.47 Q	< 0.74	--	--	--
	6/26/2008	< 0.14	< 0.4	< 0.36	< 1.1	--	--	--
	12/18/2008	< 0.23	< 0.4	< 0.36	< 1.1	--	--	--
	6/30/2009	< 0.23	< 0.4	< 0.36	< 0.74	--	--	--
	12/8/2009	< 0.39	< 0.41	< 0.42	< 0.87	--	--	--
	6/8/2010	< 0.41	< 0.54	< 0.67	< 2.6	--	--	--
	12/2/2010	< 0.41	< 0.54	< 0.67	< 1.8	--	--	--

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Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
PZ703								
	12/21/1998	**1170 Q**	429 Q	26 Q	299 Q	0.002 Q	0.002 Q	0.002 Q
	1/19/1999	**71**	12	9.6	15.2	--	--	--
	6/25/2002	**570**	150	14	86	< 0.0023	< 0.0023	0.0009 Q
	11/7/2002	**460**	130	16	101	0.007 Q	0.008 Q	< 0.0027
	4/15/2003	**880**	260	22	146	0.0025 Q	0.0025 Q	< 0.0019
	7/1/2003	**1800**	**760**	64	450	0.0019 Q	--	--
	9/30/2003	**2000**	**910**	65	520	0.0039 Q	--	--
	11/10/2003	**2100**	**1100**	65	560	0.0051	--	--
	5/20/2004	**1000**	**750**	31	390	0.039	--	--
	8/24/2004	**3700**	**2800**	110	1180	--	--	< 0.011
	11/24/2004	**3200**	**2200**	110	1090	--	--	< 0.0053
	5/19/2005	**380**	220	9.3	113	--	--	0.0036 Q
	12/13/2005	**330**	140	9.3	112	--	--	--
	6/26/2006	**600**	400	22	211	--	--	--
	12/13/2006	**220**	23	7.6	177	--	--	--
	6/18/2007	**760**	520	31	290	--	--	--
	12/5/2007	**770**	150	25	320	--	--	--
	6/26/2008	**962**	465	31	270	--	--	--
	12/18/2008	**598**	53.2	18.2	291	--	--	--
	6/30/2009	**786**	263	23.5	274	--	--	--
	12/8/2009	**628**	69.4	17.7	344	--	--	--
	6/8/2010	**824**	202	26.1	302	--	--	--
	12/2/2010	**1960**	417	42.7	301	--	--	--

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Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
QC01								
(MW704)	8/15/1995	**310**	280	190	440	0.29	0.19	0.022
(MW704)	9/25/1995	**1100**	610	360	900	0.36	0.02	0.041
(MW705)	12/21/1998	< 0.5	< 0.6	< 0.6	< 2.2	< 0.001	< 0.001	0.004
(MW705)	6/25/2002	< 0.45	< 0.82	< 0.68	< 1.7	0.1	0.088	0.0084
(MW708)	11/7/2002	< 0.25	< 0.53	< 0.84	< 1.1	0.004 Q	0.004 Q	< 0.0027
(PZ702)	4/15/2003	< 0.41	< 0.54	< 0.67	< 1.8	< 0.0015	< 0.0015	< 0.0095
(MW709R)	7/1/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.24 Q	--	--
(MW709R)	9/30/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.12	--	--
(PZ702)	11/10/2003	< 0.3	< 0.6	< 0.58	< 1.2	0.0032 Q	--	--
(MW709R)	5/20/2004	< 0.41	< 0.54	< 0.67	< 1.8	0.041	--	--
(MW709R)	11/24/2004	0.14 Q	< 0.4	< 0.36	< 0.74	--	--	0.0064 Q
(MW709R)	5/19/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	0.0052 Q
(MW709R)	12/13/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
(MW709R)	6/26/2006	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
(MW706)	12/13/2006	**110**	8.6	64	57	--	--	--
(MW708)	6/18/2007	< 0.21	< 0.4	< 0.36	< 0.74	--	--	--
(MW709R)	12/5/2007	< 0.21	< 0.4	< 0.36	< 0.74	--	--	--
(MW701R)	6/26/2008	**3150**	308	19.4 Q	184	--	--	--
(PZ702)	12/18/2008	< 0.23	< 0.4	< 0.36	< 1.1	--	--	--
(MW707R)	6/30/2009	**1540**	**2070**	52.1	698	--	--	--
(MW709R)	12/8/2009	< 0.39	< 0.41	< 0.42	< 0.87	--	--	--
(PZ702)	6/8/2010	< 0.41	< 0.54	< 0.67	< 2.6	--	--	--
(MW709R)	12/2/2010	< 0.41	< 0.54	< 0.67	< 1.8	--	--	--
QC02								
(MW704)	12/21/1998	**22**	9.5	1.2 Q	8.7 Q	0.29	0.29	0.023

Table 2. Groundwater Analytical Summary - BTEX (µg/L) and Cyanides (mg/L)

NATURAL RESOURCE TECHNOLOGY

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Sample ID	*Collection Date*	*BTEX*				*Cyanides*		
		Benzene	*Ethylbenzene*	*Toluene*	*Xylenes, Total*	*Total*	*Amenable*	*Weak Acid Dissociable*
Groundwater Screening Benchmarks								
Wisconsin Residential Water		5	700	800	2000	200	NS	NS
TB								
	12/13/2005	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	6/26/2006	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	12/13/2006	< 0.14	< 0.4	< 0.36	< 0.74	--	--	--
	6/18/2007	< 0.21	< 0.4	< 0.36	< 0.74	--	--	--
	12/5/2007	< 0.21	< 0.4	< 0.36	< 0.74	--	--	--
	12/18/2008	< 0.23	< 0.4	< 0.36	< 1.1	--	--	--
	6/30/2009	< 0.23	< 0.4	< 0.36	< 0.74	--	--	--
	12/8/2009	< 0.39	< 0.41	< 0.42	< 0.87	--	--	--
	6/8/2010	< 0.41	< 0.54	< 0.67	< 2.6	--	--	--
	12/2/2010	< 0.41	< 0.54	< 0.67	< 1.8	--	--	--

Notes

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

<2.0 : Parameter not detected above the Limit of Detection indicated.
NS : NR 140 Wisconsin Groundwater Quality Standard not established for this parameter.
Q : Analyte result has been qualified, see laboratory analytical report for additional information.
--: Analysis not performed.
TB : Trip Blank for QA/QC.
QC: Quality Control duplicate sample.

Table 3. Groundwater Laboratory Analytical Results - Polynuclear Aromatic Hydrocarbon (PAH) µg/L

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Sample ID	Collection Date	1-Methyl naphthalene	2-Methyl naphthalene	Acenaphthene	Acenaph - thylene	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	Naphthalene	Phenanthrene	Pyrene
Groundwater Screening Benchmarks																			
Wisconsin Residential Water		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
BW06																			
	5/20/2004	< 0.017	< 0.016	< 0.017	< 0.018	< 0.019	< 0.011	< 0.013	< 0.012	< 0.015	< 0.018	< 0.013	< 0.015	< 0.012	< 0.016	< 0.02	0.075 Q	< 0.015	< 0.016
	11/24/2004	< 0.2	< 0.23	< 0.19	< 0.19	< 0.18	< 0.2	< 0.18	< 0.018	< 0.21	< 0.19	< 0.16	< 0.22	< 0.16	< 0.22	< 0.17	< 0.22	< 0.2	< 0.16
	5/19/2005	< 0.02	< 0.023	< 0.2	< 0.2	0.025 Q	**0.045 Q**	0.091	0.047 Q	0.083	0.053 Q	0.048 Q	< 0.022	0.037 Q	< 0.22	**0.048 Q**	0.036 Q	0.024 Q	0.066
BW15																			
	5/20/2004	1.3 Q	0.32	0.22	< 0.018	< 0.019	< 0.011	< 0.013	< 0.012	< 0.015	< 0.018	< 0.013	< 0.015	< 0.012	0.043 Q	< 0.02	5.9 Q	0.031 Q	< 0.016
	11/24/2004	**28 Q**	0.68 Q	11 Q	< 0.39	< 0.35	< 0.39	< 0.36	< 0.36	< 0.41	< 0.39	< 0.33	< 0.44	< 0.33	1.8	< 0.34	1.9	0.97 Q	< 0.33
	5/19/2005	**110 Q**	< 0.45	38 Q	0.99 Q	0.36 Q	< 0.39	< 0.36	< 0.36	< 0.41	< 0.39	< 0.33	< 0.44	< 0.33	6.1	< 0.34	**130 Q**	2.2	< 0.33
MW701																			
	8/15/1995	--	--	800	< 2	23	**3.4**	**1.8**	**0.6**	1.2	**0.54**	**1.7**	**0.25**	49	130	**0.76**	**220**	100	20
	9/25/1995	--	--	680	1100	17	**2**	**1**	**0.24**	0.67	**0.3**	**1**	**0.4**	29	100	**0.36**	**3800**	81	11
	12/21/1998	**367**	**188**	420	< 1.3	32	**15**	**7.7**	**5.4**	4.5	**2.5**	**7.6**	**6.7**	56	92	**4.3**	**3740**	129	98
MW701R																			
	6/25/2002	--	--	**2500 Q**	< 770	1300 Q	< 630	**420 Q**	< 470	< 500	< 430	**640 Q**	**63**	**1300 Q**	**790 Q**	< 470	**9400 Q**	3500 Q	**1800 Q**
	7/1/2003	**420 Q**	**480 Q**	310 Q	17 Q	< 200	**45**	**35**	**16**	15	**19**	**42**	**3.5 Q**	< 130	< 170	**10**	**2200 Q**	260 Q	< 170
	11/10/2003	**420 Q**	**480 Q**	400 Q	25	120 Q	**100**	**66**	**28**	24	**30**	**72**	**6.2 Q**	140 Q	110 Q	**18**	**2000 Q**	420 Q	**270 Q**
	5/20/2004	**270 Q**	**280 Q**	250 Q	10	< 94	**30**	**21**	**9.4**	8.7	**11**	**24**	**1.9 Q**	67 Q	< 80	**6 Q**	**1400 Q**	240 Q	120 Q
	11/24/2004	**260 Q**	**250 Q**	180 Q	11 Q	50	**23**	**17**	**6.4 Q**	6.9 Q	**9.1 Q**	**21**	< 4.4	49	51 Q	**4.9 Q**	**1500 Q**	140 Q	64
	5/19/2005	**240 Q**	**230 Q**	180 Q	8.3 Q	44	**18**	**16**	**7.8 Q**	7.6 Q	**9.9 Q**	**21**	< 4.4	43	49	**4.8 Q**	**1500 Q**	150 Q	61
	12/13/2005	**180**	< 190	110	< 32	< 46	< 62	< 73	< 63 Q	< 77	< 77 Q	< 76	< 75	< 62	< 36	< 75	**850**	100 Q	< 58
	6/26/2006	**150**	**160**	120	8.7 Q	28	**13 Q**	**11 Q**	< 7.8 Q	< 9.6	< 9.7 Q	**14 Q**	< 9.4	29	32	< 9.4	**830 Q**	120	44
	12/13/2006	**130 Q**	130 Q	90 Q	3.6	16	**4.8 Q**	**3.7 Q**	**1.8 Q**	< 1.9	**2.3 Q**	**4.4 Q**	< 1.9	11	26	< 1.9	**810 Q**	45 Q	16
	6/18/2007	**170**	130 Q	160	< 41	< 58	< 78	< 92	< 78 Q	< 96	< 97 Q	< 95	< 94	< 77	< 45	< 94	**1100**	100 Q	< 73 Q
	12/5/2007	**160 Q**	150 Q	140 Q	5.4 Q	33	**7 Q**	**6.5 Q**	< 3.1 Q	< 3.9	**4.9 Q**	**12 Q**	< 3.8	22	34	< 3.8	**1000 Q**	90	30
	6/26/2008	**270**	**152 Q**	189 Q	18.9	132 Q	**28.3**	**27.2**	**12.8**	16.9	**15.1**	**24.2**	**2.6 Q**	44.8	52.4 Q	**10.3**	**1080 Q**	118 Q	62.7 Q
	12/18/2008	**275 Q**	**252 Q**	203 Q	5.4 Q	24.6 Q	**5.4 Q**	**4.1 Q**	**1.9 Q**	1.9 Q	**2.6 Q**	**5.3 Q**	**0.33 Q**	< 20.2 Q	43.2 Q	**1.3 Q**	**1780 Q**	91.4 Q	< 25.6 Q
	6/30/2009	**240**	**231 Q**	258	< 18	129 Q	**42.9 Q**	**36.8 Q**	< 17	< 24.1	< 21.8	**41.5 Q**	< 16	92 Q	83 Q	< 23.4	**1240 Q**	289	131 Q
	12/8/2009	**67.4**	68.7	55.9	3.3 Q	18.8 Q	**4.9 Q**	**3.7 Q**	**3.2 Q**	< 2.4	**2.2 Q**	**6.8 Q**	**0.88 Q**	12.7 Q	13.9 Q	< 2.3	**417 Q**	44	19.6 Q
	6/8/2010	**113**	109	95.7	1.8 Q	16.7	**2 Q**	**1.6 Q**	**0.62 Q**	0.95 Q	**1.2 Q**	**2.8 Q**	< 0.34	8.2	29.5	**0.58 Q**	**793 Q**	64.6	12
	12/2/2010	**151**	**155**	135	3	36.3 Q	**5.4**	**4**	**2.1**	1.8	**2.1**	**4.8**	**0.35 Q**	14.9	39.4 Q	**1.2**	**1110 Q**	90.8 Q	20.3 Q
MW702																			
	8/15/1995	--	--	390	< 2	19	**2.9**	**1.4**	**0.32**	0.93	**0.48**	**1.5**	**0.23**	41	150	**0.55**	**7300**	96	35
	9/25/1995	--	--	400	1400	17	**3.7**	**1.8**	**0.66**	1.6	**0.73**	**1.9**	**0.28**	32	140	**0.76**	**6400**	90	13
MW703																			
	8/15/1995	--	--	180	< 2	17	**1.4**	**0.46**	0.1	0.24	0.16	**0.55**	**0.17**	28	70	**0.16**	**2400**	74	9.2
	9/25/1995	--	--	220	430	14	**1.2**	**0.37**	0.05	0.34	0.12	**0.51**	**0.23**	19	54	**0.19**	**2700**	58	5.9
	12/21/1998	**408**	< 0.92	262	< 1.3	5.9	**8.7**	**2.4**	**1.7**	1.6	**0.91**	< 0.092	< 0.25	10	45	**1.4**	**3080**	24	16
	6/25/2002	monitoring well previously abandoned																	

Groundwater Update Report
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*1-Methyl naphthalene*	*2-Methyl naphthalene*	*Acenaphthene*	*Acenaph - thylene*	*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*	*Naphthalene*	*Phenanthrene*	*Pyrene*
Groundwater Screening Benchmarks																			
Wisconsin Residential Water		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
MW704																			
	8/15/1995	--	--	770	< 2	44	**26**	**22**	**8.9**	17	**7.9**	**19**	< 0.1	150	180	**10**	**5200**	220	56
	9/25/1995	--	--	440	1400	20	**5**	**3.1**	**2.7**	< 0.1	**2.3**	**3.5**	< 0.1	36	120	< 0.1	**4200**	120	13
	12/21/1998	**14**	3.6	1.6 Q	5.9	6	**8.9**	**9.5**	**8.1**	7	**3.5**	**4.4**	< 0.25	21	10	**7.7**	22	19	26
	6/25/2002	monitoring well previously abandoned																	
MW705																			
	8/15/1995	--	--	< 1	< 2	< 0.2	< 0.05	< 0.2	< 0.05	< 0.1	< 0.05	< 0.1	< 0.1	< 0.2	< 0.4	< 0.1	< 1	< 0.4	< 0.2
	9/25/1995	--	--	< 1	< 2	< 0.2	< 0.05	< 0.2	< 0.05	< 0.1	< 0.05	< 0.1	< 0.1	< 0.2	< 0.4	< 0.1	< 1	< 0.4	< 0.2
	12/21/1998	< 0.94	< 0.92	< 1.4	< 1.3	< 0.1	< 0.1	< 0.21	< 0.12	< 0.23	< 0.23	< 0.092	< 0.25	< 0.23	< 0.056	< 0.11	< 0.73	< 0.11	< 0.39
	6/25/2002	--	--	< 0.018	< 0.023	< 0.02	< 0.019	< 0.012	< 0.014	< 0.015	< 0.013	< 0.018	< 0.017	< 0.028	< 0.021	< 0.014	< 0.027	< 0.019	< 0.02
	11/7/2002	< 0.017	< 0.017	< 0.018	< 0.019	< 0.02	< 0.012	0.017 Q	0.013 Q	< 0.016	< 0.019	< 0.014	< 0.016	0.016 Q	< 0.017	< 0.021	< 0.024	< 0.016	< 0.017
	4/15/2003	< 0.018	0.031 Q	< 0.018	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	0.1	< 0.016	< 0.017
	7/1/2003	< 0.018	< 0.017	< 0.018	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	0.015 Q	< 0.017	< 0.021	0.029 Q	< 0.016	0.018 Q
	9/30/2003	< 0.018	< 0.017	< 0.018	< 0.019	< 0.02	0.016 Q	0.014 Q	< 0.013	< 0.016	< 0.019	0.014 Q	< 0.016	0.014 Q	< 0.017	< 0.021	0.059 Q	< 0.016	0.02 Q
	11/10/2003	0.044 Q	0.053 Q	< 0.018	0.044 Q	0.024 Q	0.021 Q	0.017 Q	< 0.013	< 0.016	< 0.019	0.014 Q	< 0.016	0.028 Q	0.019 Q	< 0.021	0.25 Q	0.071	0.039 Q
	5/20/2004	0.082	0.04	0.019 Q	< 0.018	< 0.019	0.017 Q	0.02 Q	0.015 Q	< 0.015	< 0.018	0.016 Q	< 0.015	0.025 Q	< 0.016	< 0.02	0.39	0.022 Q	0.029 Q
	11/24/2004	< 0.02	< 0.023	< 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	0.17	< 0.02	< 0.016
	5/19/2005	< 0.02	< 0.023	< 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	0.055 Q	< 0.02	< 0.016
	6/26/2008	0.071	0.087	0.011 Q	0.023 Q	0.0066 Q	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	0.0058 Q	0.0088 Q	< 0.0036	0.45	0.015 Q	< 0.0068
MW706																			
	8/15/1995	--	--	**197000**	--	**177000**	**129000**	**83000**	**31000**	**62000**	**29000**	**82000**	**13000**	**266000**	**640000**	**32000**	--	**730000**	**142000**
	9/25/1995	--	--	**9400**	**82000**	**15000**	**11000**	**6700**	**2400**	**4900**	**980**	**5400**	< 10	**8400**	**57000**	**2700**	**166000**	**56000**	**9700**
	6/25/2002	--	--	< 290	**2700 Q**	1400 Q	**1000 Q**	**830 Q**	**270 Q**	270 Q	**460 Q**	**920 Q**	< 270	**2200 Q**	**1200**	**320 Q**	**7100 Q**	3200 Q	**2200**
	7/1/2003	**510 Q**	**640 Q**	34 Q	370 Q	< 200	< 120	< 140	**29**	21	**31**	< 140	**6.4**	< 130	< 170	**18**	**2200 Q**	250 Q	< 170
	11/10/2003	**510 Q**	**640 Q**	41 Q	400 Q	140	**190**	**130**	**70**	43	**70**	**130**	**14 Q**	280	150	**38 Q**	**2900 Q**	410 Q	**360 Q**
	5/20/2004	**130 Q**	140 Q	16	220 Q	43	**65 Q**	**87 Q**	**44**	31	**36**	**47**	**11**	80 Q	40	**27**	**680 Q**	110 Q	130 Q
	11/24/2004	**640 Q**	**840 Q**	97	510 Q	240 Q	**270 Q**	**180**	**78**	60	**98**	**190 Q**	**18 Q**	260 Q	240 Q	**54**	**2600 Q**	720 Q	**300 Q**
	5/19/2005	**120**	75	< 7.8	80	< 7.1	< 7.8	< 7.2	< 7.2	< 8.3	< 7.7	< 6.6	< 8.8	< 6.6	< 8.7	< 6.8	**500 Q**	< 8.2	< 6.5
	12/13/2005	**130 Q**	35	12	74 Q	34	**30**	**34**	**19 Q**	14	**16 Q**	**23**	**3.9 Q**	38	40	**12**	8.3 Q	56 Q	50 Q
	6/26/2006	0.28 Q	< 0.28	1.6	5.2	0.83 Q	**1.1 Q**	**1.8**	**0.99 Q**	0.83 Q	**0.81 Q**	**0.87 Q**	< 0.47	1.8	0.47 Q	**0.69 Q**	0.42 Q	0.52 Q	2.2
	12/13/2006	**10**	5.1	5.9	31	11	**16**	**21**	**11 Q**	8.9	**11 Q**	**13**	**1.9 Q**	22	6.7	**6.8**	5.2	14	26
	6/18/2007	**110000 Q**	**200000 Q**	< 18000 Q	**99000 Q**	**49000 Q**	< 35000 Q	< 41000 Q	< 35000 Q	< 43000 Q	< 43000 Q	< 43000 Q	**2600**	**54000 Q**	**55000 Q**	< 42000 Q	**420000 Q**	**170000 Q**	**58000 Q**
	12/5/2007	**620 Q**	**680 Q**	44	430 Q	< 120 Q	**56**	**52**	**23 Q**	23	**33 Q**	**59**	**5.1 Q**	120 Q	130 Q	**18**	**2900 Q**	170 Q	140 Q
	6/26/2008	**42.6**	7.8	4.2 Q	40.1	6.3	**5.8**	**6.9**	**3.6 Q**	3.5 Q	**4.5 Q**	**7.3**	< 0.43	11.2	4.4 Q	**2.3 Q**	< 1.6	7.1	16.4
	12/18/2008	**1570000**	**2420000**	**140000 Q**	**1210000**	**596000**	**265000 Q**	**200000 Q**	**105000 Q**	**106000 Q**	**177000 Q**	**350000 Q**	< 41900	**624000**	**729000**	**86200 Q**	**5550000**	**2080000**	**915000**
	6/30/2009	**163 Q**	**158 Q**	7.6	92.5 Q	7.9	**0.76 Q**	**0.36 Q**	< 0.34	< 0.48	**0.46 Q**	**0.81 Q**	< 0.32	3.5 Q	26.2	< 0.47	**1240 Q**	21.7	4.1 Q
	12/8/2009	**178**	**191**	9.5	138 Q	11.8	**1.8 Q**	**1.3 Q**	**0.92 Q**	0.48 Q	**0.59 Q**	**1.6 Q**	< 0.32	5.3	40.7	< 0.47	**841 Q**	36.6	7.2
	6/8/2010	**322**	**433**	15.9	206 Q	14.3	**1.6 Q**	**1 Q**	**0.49 Q**	0.6 Q	**0.83 Q**	**1.8 Q**	< 0.34	5.2	55.6	< 0.5	**2910 Q**	53	8.9
	12/2/2010	**251 Q**	144 Q	15.5 Q	200 Q	11.2 Q	**0.75 Q**	**0.52 Q**	< 0.34 Q	< 0.48 Q	< 0.44 Q	**0.94 Q**	< 0.32 Q	4.3 Q	47.9 Q	< 0.47 Q	**1340 Q**	33.9 Q	5.5 Q

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732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	Collection Date	1-Methyl naphthalene	2-Methyl naphthalene	Acenaphthene	Acenaph - thylene	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	Naphthalene	Phenanthrene	Pyrene
Groundwater Screening Benchmarks																			
Wisconsin Residential Water		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
MW707																			
	8/15/1995	--	--	430	< 2	12	**2.2**	**1.6**	**0.38**	1.3	**0.52**	**1.3**	**0.25**	27	93	**0.74**	**3100**	60	12
	9/25/1995	--	--	240	1400	10	**0.4**	**0.66**	**0.23**	0.83	0.19	**0.64**	**0.4**	21	81	**0.35**	**3400**	60	4.8
	12/21/1998	**454**	< 0.92	221	< 1.3	15	< 0.1	**2.1**	< 0.12	1.7	**0.76**	**2.2**	< 0.25	28	64	**1.3**	**3470**	69	58
MW707R																			
	6/25/2002	--	--	< 120	6.4	6.2	**1.8**	**1.2**	**0.73 Q**	0.61 Q	**0.51 Q**	**1.2**	< 0.34	7.5	< 130	**0.48 Q**	**1600 Q**	< 120	7.3
	7/1/2003	**270 Q**	18 Q	< 180	6.8 Q	9	**1.8 Q**	**1.5 Q**	< 1.3	< 1.6	< 1.9	**1.8 Q**	< 1.6	9.6	39	< 2.1	**1800 Q**	< 160	12
	11/10/2003	**310 Q**	21	< 180	11	13	**6.8**	**5.2**	**2.7 Q**	2.3 Q	**2.6 Q**	**5.6**	< 1.6	18	47	< 2.1	**2000 Q**	< 160	29
	5/20/2004	**230 Q**	14	43	6.1	12	**5.2**	**4.1 Q**	**2 Q**	2.2 Q	**2.3 Q**	**4.4**	< 1.5	15	31	< 2	**1600 Q**	77 Q	19
	11/24/2004	**250 Q**	14 Q	57	6.3 Q	6.1 Q	< 3.9	< 3.6	< 3.6	< 4.1	< 3.9	< 3.3	< 4.4	3.6 Q	31	< 3.4	**1700 Q**	34	3.4 Q
	5/19/2005	**250 Q**	21 Q	55	< 7.8	8.3 Q	< 7.9	< 7.3	< 7.2	< 8.3	< 7.8	< 6.6	< 8.9	6.9 Q	29 Q	< 6.9	**1900 Q**	48	7.7 Q
	12/13/2005	**200 Q**	16	39	3.9	5.7	< 1.6	< 1.8	< 1.6 Q	< 1.9	< 1.9 Q	< 1.9	< 1.9	3.7 Q	25	< 1.9	**1700 Q**	33	4.1 Q
	6/26/2006	**220**	16 Q	50	5.9 Q	8.4 Q	< 7.8	< 9.2	< 7.8 Q	< 9.6	< 9.7 Q	< 9.5	< 9.4	< 7.7	29	< 9.4	**1800 Q**	38	< 7.3
	12/13/2006	**110**	4.8 Q	25	2.7 Q	4.9 Q	< 3.9	< 4.6	< 3.9 Q	< 4.8	< 4.8 Q	< 4.7	< 4.7	< 3.9	14	< 4.7	**310 Q**	17	< 3.6
	6/18/2007	**160 Q**	< 56 Q	< 41 Q	< 41 Q	< 58 Q	< 78 Q	< 92 Q	< 78 Q	< 96 Q	< 97 Q	< 95 Q	< 94 Q	< 77 Q	< 45 Q	< 94 Q	**1500 Q**	< 57 Q	< 73 Q
	12/5/2007	**130 Q**	9.1	37 Q	3.8	9.4	**0.32 Q**	< 0.37	< 0.31 Q	< 0.39	< 0.39 Q	< 0.38	< 0.38	5.3	24 Q	< 0.38	**1100 Q**	40 Q	5.6
	6/26/2008	**70.9 Q**	3.5	< 15.6	2.1	2	**0.16 Q**	0.15 Q	< 0.1	< 0.12	< 0.16	0.18 Q	< 0.086	1	9	< 0.072	**520**	7.8	1.4
	12/18/2008	**157 Q**	< 42.8	40 Q	< 19.9	< 26	< 13.9	< 21.6	< 20.6	< 25	< 31.1	< 28	< 17.2	< 21.4	< 25.1	< 14.4	**1260 Q**	< 29.9	< 27
	6/30/2009	**107**	10 Q	33.8 Q	< 7.2	< 11.5	**0.11**	0.042 Q	0.026 Q	0.013 Q	0.023 Q	0.088	< 0.0032	< 8.8	15.1 Q	0.01 Q	**839 Q**	17.2 Q	< 9.5
	12/8/2009	**80.7**	4.7 Q	25.2	2 Q	4 Q	**0.088**	0.041 Q	0.03 Q	0.018 Q	0.024 Q	0.076 Q	**0.0032 Q**	< 2.2	8.6 Q	0.011 Q	**417 Q**	10.4 Q	< 2.4
	6/8/2010	**80.6**	7.9	29.1	1.9 Q	3.8 Q	< 0.38	< 0.3	< 0.36	< 0.51	< 0.46	< 0.37	< 0.34	1.6 Q	14.4	< 0.5	**455 Q**	17.7	1.8 Q
	12/2/2010	**150**	13.1	51.2 Q	4.1	7.5	**0.14 Q**	< 0.057	< 0.068	< 0.096	< 0.087	0.17 Q	< 0.064	3	21.7 Q	< 0.094	**974 Q**	26.7 Q	3.4

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732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*1-Methyl naphthalene*	*2-Methyl naphthalene*	*Acenaphthene*	*Acenaph - thylene*	*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*	*Naphthalene*	*Phenanthrene*	*Pyrene*
Groundwater Screening Benchmarks																			
Wisconsin Residential Water		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
MW708																			
	12/21/1998	< 0.94	< 0.92	< 1.4	< 1.3	< 0.1	< 0.1	< 0.21	< 0.12	< 0.23	< 0.23	< 0.092	< 0.25	< 0.23	< 0.056	< 0.11	< 0.73	< 0.11	< 0.39
	6/25/2002	--	--	< 0.018	< 0.023	< 0.02	< 0.019	0.014 Q	< 0.014	< 0.015	< 0.013	< 0.018	< 0.017	< 0.028	< 0.021	< 0.014	< 0.027	< 0.019	< 0.02
	11/7/2002	< 0.017	< 0.017	< 0.018	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	< 0.024	< 0.016	< 0.017
	4/15/2003	0.019 Q	0.026 Q	< 0.018	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	0.088	< 0.016	< 0.017
	7/1/2003	0.2 Q	0.2 Q	0.056 Q	0.032 Q	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	0.02 Q	< 0.021	1.5 Q	0.024 Q	< 0.017
	9/30/2003	< 0.018	< 0.017	< 0.018	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	0.23	< 0.016	< 0.017
	11/10/2003	0.16	0.19	0.031 Q	0.27	0.11	**0.11**	0.068	0.033 Q	0.026 Q	0.038 Q	0.071	< 0.016	0.15	0.11	0.022 Q	0.38 Q	0.36	0.22
	5/20/2004	0.048 Q	0.02 Q	< 0.017	< 0.018	< 0.019	< 0.011	< 0.013	< 0.012	< 0.015	< 0.018	< 0.013	< 0.015	< 0.012	< 0.016	< 0.02	0.29	< 0.015	< 0.016
	11/24/2004	0.2	0.19	0.14	< 0.02	0.039 Q	< 0.02	< 0.018	< 0.018	< 0.021	< 0.019	< 0.017	< 0.022	0.036 Q	0.046 Q	< 0.017	1.8 Q	0.13	0.043 Q
	5/19/2005	0.1	< 0.023	0.028 Q	< 0.02	< 0.018	< 0.02	< 0.018	< 0.018	< 0.021	< 0.02	< 0.017	< 0.022	< 0.017	< 0.022	< 0.017	0.31	< 0.021	< 0.017
	12/13/2005	< 0.01	< 0.011	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.047	< 0.011	< 0.015
	6/26/2006	< 0.01	< 0.011	< 0.0082	0.029	0.016 Q	0.025 Q	0.021 Q	< 0.016 Q	< 0.019	< 0.019 Q	0.023 Q	< 0.019	0.035 Q	< 0.0091	< 0.019	0.04 Q	0.023 Q	0.046 Q
	12/13/2006	< 0.01	< 0.011	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.014 Q	< 0.011	< 0.015
	6/18/2007	0.012 Q	0.019 Q	< 0.0082	0.022 Q	< 0.012	< 0.016	0.019 Q	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	0.018 Q	< 0.0091	< 0.019	0.046	0.02 Q	0.023 Q
	12/5/2007	< 0.01	< 0.012	< 0.0084	0.016 Q	< 0.012	0.016 Q	< 0.019	< 0.016 Q	< 0.02	< 0.02 Q	0.03 Q	< 0.019	0.026 Q	< 0.0093	< 0.019	0.015 Q	< 0.012	0.034 Q
	6/26/2008	< 0.0095	< 0.011	< 0.0078	0.013 Q	0.0086 Q	0.0087 Q	0.0075 Q	0.0051 Q	0.0071 Q	< 0.0078	0.0083 Q	< 0.0043	0.011 Q	< 0.0063	< 0.0036	< 0.016	0.0098 Q	0.013 Q
	12/18/2008	< 0.0095	< 0.011	< 0.0078	< 0.005	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	0.036 Q	< 0.0075	< 0.0068
	6/30/2009	0.061	0.085 Q	0.0077 Q	0.025 Q	< 0.0057	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	0.012 Q	0.017 Q	< 0.0047	0.37 Q	0.038 Q	0.0071 Q
	12/8/2009	< 0.005	< 0.0039	< 0.0045	< 0.0036	< 0.0057	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	< 0.0048	< 0.0047	0.012 Q	< 0.0081	< 0.0047
	6/8/2010	< 0.0053	0.005 Q	< 0.0048	< 0.0038	< 0.0061	< 0.0038	< 0.003	< 0.0036	< 0.0051	< 0.0046	< 0.0037	< 0.0034	< 0.0047	< 0.0051	< 0.005	0.026 Q	< 0.0086	< 0.005
	12/2/2010	< 0.005	< 0.0039	< 0.0045	< 0.0036	< 0.0057	< 0.0036	0.003 Q	0.0037 Q	< 0.0048	< 0.0044	0.0045 Q	< 0.0032	0.0047 Q	< 0.0048	< 0.0047	0.01 Q	< 0.0081	< 0.0047
MW709																			
	12/21/1998	< 0.94	< 0.92	3.4 Q	< 1.3	2.9	**1.3**	**0.3 Q**	**0.51**	< 0.23	< 0.23	**0.66**	< 0.25	6.6	3.3	< 0.11	4.6	8.4	10

Groundwater Update Report
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*1-Methyl naphthalene*	*2-Methyl naphthalene*	*Acenaphthene*	*Acenaph - thylene*	*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*	*Naphthalene*	*Phenanthrene*	*Pyrene*
Groundwater Screening Benchmarks																			
Wisconsin Residential Water		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
MW709R																			
	6/25/2002	–	–	0.13	< 0.023	0.032 Q	< 0.019	0.1	< 0.014	< 0.015	< 0.013	< 0.018	< 0.017	< 0.028	0.041 Q	< 0.014	1.8 Q	0.084	0.027 Q
	11/7/2002	< 0.017	< 0.017	< 0.018	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	< 0.024	< 0.016	< 0.017
	4/15/2003	0.02 Q	0.034 Q	< 0.018	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	0.12	< 0.016	< 0.017
	7/1/2003	0.02 Q	0.019 Q	< 0.018	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	0.04 Q	< 0.016	< 0.017
	9/30/2003	< 0.018	< 0.017	< 0.018	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	< 0.024	< 0.016	< 0.017
	11/10/2003	< 0.018	< 0.017	< 0.018	< 0.019	0.022 Q	0.016 Q	< 0.014	< 0.013	< 0.016	< 0.019	0.015 Q	< 0.016	0.027 Q	< 0.017	< 0.021	0.05 Q	0.064	0.033 Q
	5/20/2004	0.057	0.023 Q	< 0.017	< 0.018	< 0.019	< 0.011	< 0.013	< 0.012	< 0.015	< 0.018	< 0.013	< 0.015	< 0.012	< 0.016	< 0.02	0.38	< 0.015	< 0.016
	11/24/2004	< 0.02	< 0.023	< 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	0.032 Q	< 0.02	< 0.016
	5/19/2005	< 0.02	< 0.023	< 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	0.084	< 0.02	< 0.016
	12/13/2005	< 0.01	0.012 Q	< 0.0082	< 0.0081	0.015 Q	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	0.017 Q	< 0.0091	< 0.019	< 0.047	0.016 Q	0.025 Q
	6/26/2006	< 0.01	< 0.011	< 0.0082	< 0.0081	0.013 Q	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.047	< 0.011	< 0.015
	12/13/2006	0.029 Q	0.031 Q	0.012 Q	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.18	< 0.011	< 0.015
	6/18/2007	0.032 Q	0.056	< 0.0082	0.012 Q	< 0.012	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.19	0.012 Q	< 0.015 Q
	12/5/2007	< 0.01	< 0.011	< 0.0082	< 0.0082	< 0.012	< 0.016	< 0.019	< 0.016 Q	< 0.019	< 0.02 Q	< 0.019	< 0.019	< 0.016	< 0.0091	< 0.019	0.035 Q	< 0.011	< 0.015
	6/26/2008	< 0.0095	< 0.011	< 0.0078	< 0.005	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	0.022 Q	< 0.0075	< 0.0068
	12/18/2008	< 0.0095	0.014 Q	< 0.0078	< 0.005	0.02 Q	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	0.061 Q	< 0.0075	< 0.0068
	6/30/2009	< 0.005	0.0053 Q	< 0.0045	< 0.0036	< 0.0057	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	< 0.0048	< 0.0047	0.04 Q	< 0.0081	< 0.0047
	12/8/2009	< 0.005	0.0086 Q	< 0.0045	0.0039 Q	0.016 Q	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	< 0.0048	< 0.0047	0.03 Q	< 0.0081	< 0.0047
	6/8/2010	< 0.0053	0.006 Q	< 0.0048	< 0.0038	0.02 Q	< 0.0038	< 0.003	< 0.0036	< 0.0051	< 0.0046	< 0.0037	< 0.0034	< 0.0047	< 0.0051	< 0.005	0.022 Q	< 0.0086	< 0.005
	12/2/2010	< 0.005	0.004 Q	< 0.0045	< 0.0036	0.012 Q	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	0.005 Q	< 0.0048	< 0.0047	0.011 Q	< 0.0081	< 0.0047

Groundwater Update Report
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*1-Methyl naphthalene*	*2-Methyl naphthalene*	*Acenaphthene*	*Acenaph - thylene*	*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*	*Naphthalene*	*Phenanthrene*	*Pyrene*
Groundwater Screening Benchmarks																			
Wisconsin Residential Water		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
PZ701																			
	8/17/1995	--	--	< 1	< 2	1.5	**0.89**	**0.43**	**0.21**	0.24	0.18	**0.61**	< 0.1	3.3	1	< 0.1	< 1	6.6	2.1
	9/26/1995	--	--	< 1	< 2	0.25	**0.13**	< 0.2	< 0.05	< 0.1	< 0.05	0.13	< 0.1	0.7	< 0.4	< 0.1	< 1	0.8	0.77
	12/21/1998	< 0.94	< 0.92	< 1.4	< 1.3	0.23 Q	**0.25 Q**	< 0.21	< 0.12	< 0.23	< 0.23	< 0.092	< 0.25	0.6 Q	0.42	< 0.11	7.3	0.8	1.1 Q
	6/25/2002	--	--	0.04 Q	0.059 Q	0.073	**0.13**	0.1	0.084	0.059	0.065	0.092	**0.018 Q**	0.23	< 0.021	**0.058**	0.18	0.1	0.19
	11/7/2002	0.076 Q	< 0.051	0.11 Q	0.087 Q	0.15 Q	**0.19 Q**	0.16	0.17	0.16	0.14 Q	0.16	< 0.048	0.44 Q	0.053	**0.13 Q**	0.34	0.38	0.38
	4/15/2003	0.045 Q	0.045 Q	< 0.018	< 0.019	0.023 Q	0.019 Q	0.017 Q	0.017 Q	0.017 Q	< 0.019	0.015 Q	< 0.016	0.029 Q	< 0.017	< 0.021	0.067 Q	0.032 Q	0.034 Q
	9/30/2003	0.046 Q	0.042 Q	0.043 Q	0.13	0.23	**0.42**	**0.24**	0.19	0.15	0.17	**0.27**	**0.067**	0.82 Q	0.056 Q	**0.14**	0.22	0.89 Q	0.82 Q
	11/10/2003	0.27	0.17	0.28 Q	0.68 Q	1.2 Q	**2.4 Q**	**1.5 Q**	**1.1 Q**	0.65 Q	**1.1 Q**	**1.5 Q**	**0.24**	4.4 Q	0.34	**0.6 Q**	1.3 Q	4.6 Q	4.2 Q
	5/24/2004	0.05 Q	0.017 Q	0.055 Q	< 0.018	0.022 Q	< 0.011	< 0.013	< 0.012	< 0.015	< 0.018	< 0.013	< 0.015	0.014 Q	0.018 Q	< 0.02	0.22	0.029 Q	0.017 Q
	11/24/2004	0.81 Q	0.72 Q	0.44	0.084	0.077	< 0.02	< 0.018	< 0.018	< 0.021	< 0.02	< 0.017	< 0.022	0.029 Q	0.13	< 0.017	4.3 Q	0.23	0.038 Q
	5/19/2005	< 0.02	< 0.023	< 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	0.066 Q	< 0.002	< 0.016
	12/13/2005	0.061	0.023 Q	< 0.0082	0.016 Q	< 0.012	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.047	< 0.011	< 0.015
	6/26/2006	< 0.01	< 0.011	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.031 Q	< 0.011	< 0.015
	12/13/2006	< 0.01	< 0.011	< 0.0082	0.017 Q	< 0.012	0.017 Q	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	0.024 Q	< 0.0091	< 0.019	0.016 Q	0.013 Q	0.026 Q
	6/18/2007	< 0.01	< 0.011	< 0.0082	0.012 Q	< 0.012	< 0.016	0.019 Q	< 0.016 Q	< 0.019	< 0.019 Q	0.019 Q	< 0.019	0.02 Q	< 0.0091	< 0.019	0.028 Q	< 0.011	0.023 Q
	12/5/2007	< 0.011	< 0.013	< 0.0091	0.011 Q	< 0.013	< 0.017	< 0.02	< 0.017 Q	< 0.022	< 0.022 Q	< 0.021	< 0.021	0.028 Q	< 0.01	< 0.021	< 0.014	< 0.013	0.027 Q
	6/26/2008	< 0.0095	< 0.011 Q	< 0.0078	< 0.005	< 0.0065	0.01 Q	0.0072 Q	0.0097 Q	0.0096 Q	0.01 Q	0.0096 Q	**0.0052 Q**	0.0075 Q	< 0.0063	0.0069 Q	< 0.016 Q	< 0.0075	< 0.0068
	12/18/2008	0.2	0.35	0.03 Q	0.13	0.051	0.0085 Q	0.0058 Q	0.0064 Q	< 0.0062	< 0.0078	0.0093 Q	< 0.0043	0.021 Q	0.082	< 0.0036	1.1 Q	0.14	0.024 Q
	6/30/2009	0.035 Q	0.023 Q	0.017 Q	0.0045 Q	0.0078 Q	0.0039 Q	0.0037 Q	0.0035 Q	< 0.0048	< 0.0044	0.0041 Q	< 0.0032	0.0075 Q	0.0067 Q	< 0.0047	0.36 Q	0.014 Q	0.0087 Q
	12/8/2009	0.036 Q	0.0089 Q	0.0088 Q	< 0.0036	< 0.0057	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	< 0.0048	< 0.0047	0.26 Q	< 0.0081	< 0.0047
	6/8/2010	0.11 Q	0.13 Q	0.031 Q	0.07 Q	0.05	0.0066 Q	0.0059 Q	0.0051 Q	0.0071 Q	0.0054 Q	0.01 Q	< 0.0034	0.037 Q	0.066 Q	< 0.005	0.54 Q	0.18 Q	0.045 Q
	12/2/2010	0.027 Q	0.016 Q	0.022 Q	0.0075 Q	0.0084 Q	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	0.0055 Q	0.0083 Q	< 0.0047	0.15 Q	0.011 Q	0.0069 Q

Groundwater Update Report
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*1-Methyl naphthalene*	*2-Methyl naphthalene*	*Acenaphthene*	*Acenaph - thylene*	*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*	*Naphthalene*	*Phenanthrene*	*Pyrene*
Groundwater Screening Benchmarks																			
Wisconsin Residential Water		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
PZ702																			
	12/21/1998	< 0.94	< 0.92	< 1.4	< 1.3	0.44	**0.9**	< 0.21	**0.2 Q**	< 0.23	< 0.23	**0.27 Q**	< 0.25	1.5	0.5	< 0.11	1.2 Q	1.5	2.3
	6/25/2002	–	–	< 0.018	0.059 Q	< 0.02	< 0.019	< 0.012	< 0.014	< 0.015	< 0.013	< 0.018	< 0.017	< 0.028	0.03 Q	< 0.014	0.42	0.063	0.021 Q
	11/7/2002	0.031 Q	0.032 Q	< 0.018	0.023 Q	< 0.02	0.015 Q	< 0.014	< 0.013	0.016 Q	< 0.019	0.023 Q	< 0.016	0.039 Q	0.02 Q	< 0.021	0.087	0.084	0.046 Q
	4/15/2003	0.054 Q	0.045 Q	< 0.018	< 0.019	< 0.02	0.013 Q	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	0.013	0.017	< 0.021	0.12	0.042 Q	0.018 Q
	7/1/2003	0.029 Q	0.022 Q	< 0.018	0.037 Q	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	0.014 Q	< 0.016	0.022 Q	< 0.017	< 0.021	0.045 Q	0.058 Q	0.033 Q
	9/30/2003	< 0.018	< 0.017	< 0.018	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	0.049 Q	0.019 Q	< 0.017
	11/10/2003	0.03 Q	0.032 Q	0.027 Q	0.03 Q	0.025 Q	**0.038 Q**	0.034 Q	0.019 Q	0.019 Q	< 0.019	0.033 Q	< 0.016	0.046	0.02	< 0.021	0.13 Q	0.082	0.08
	5/20/2004	0.029 Q	0.034 Q	< 0.017	0.031 Q	< 0.019	< 0.011	< 0.013	< 0.012	< 0.015	< 0.018	0.015 Q	< 0.015	0.017 Q	< 0.016	< 0.02	0.6 Q	0.028 Q	0.027 Q
	11/24/2004	0.068	0.063 Q	< 0.019	0.023 Q	< 0.018	< 0.02	< 0.018	< 0.018	< 0.021	< 0.019	< 0.016	< 0.022	< 0.016	< 0.022	< 0.017	0.46	< 0.02	< 0.016
	5/19/2005	0.023 Q	0.026 Q	< 0.02	< 0.02	< 0.019	< 0.021	< 0.019	< 0.019	< 0.022	< 0.02	< 0.017	< 0.023	< 0.017	< 0.023	< 0.018	0.16	< 0.021	< 0.017
	12/13/2005	< 0.01	< 0.011	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.047	< 0.011	< 0.015
	6/26/2006	< 0.01	< 0.011	< 0.0082	0.0099 Q	< 0.012	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	0.022 Q	< 0.011	0.017 Q
	12/13/2006	0.01 Q	< 0.011	0.013 Q	0.13	0.054	**0.14**	0.12	0.065 Q	0.048 Q	0.071 Q	0.11	< 0.019	0.16	0.011 Q	**0.037 Q**	0.014 Q	0.064	0.2
	6/18/2007	< 0.01	< 0.011	< 0.0082	0.059	0.019 Q	**0.067**	0.074	0.037 Q	0.041 Q	0.049 Q	0.074	< 0.019	0.075	0.012 Q	0.028 Q	0.028 Q	0.039	0.1 Q
	12/5/2007	< 0.01	< 0.011	< 0.0082	0.025 Q	0.012 Q	0.018 Q	< 0.019	< 0.016 Q	< 0.019	< 0.02 Q	0.025 Q	< 0.019	0.026 Q	< 0.0091	< 0.019	0.033 Q	0.012 Q	0.029 Q
	6/26/2008	0.03 Q	< 0.011	< 0.008	0.037 Q	0.013 Q	0.026 Q	0.021	0.012 Q	0.014 Q	0.018 Q	0.027 Q	< 0.0044	0.035 Q	0.0087 Q	0.0093 Q	0.17	0.02 Q	0.047 Q
	12/18/2008	0.013 Q	< 0.011	< 0.0078	< 0.005	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	0.097 Q	< 0.0075	< 0.0068
	6/30/2009	0.0059 Q	0.0099 Q	< 0.0045	0.0071 Q	< 0.0057	0.0036 Q	0.0032 Q	< 0.0034	< 0.0048	< 0.0044	0.0045 Q	< 0.0032	0.0052 Q	< 0.0048	< 0.0047	0.057 Q	< 0.0081	0.006 Q
	12/8/2009	0.01 Q	0.02 Q	< 0.0045	< 0.0036	< 0.0057	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	< 0.0048	< 0.0047	0.038 Q	< 0.0081	< 0.0047
	6/8/2010	< 0.0053	0.0057 Q	< 0.0048	< 0.0038	< 0.0061	0.004 Q	< 0.003	0.004 Q	< 0.0051	< 0.0046	0.0049 Q	< 0.0034	0.0049 Q	< 0.0051	< 0.005	0.031 Q	< 0.0086	< 0.005
	12/2/2010	0.15	0.071 Q	0.054	0.012 Q	0.011 Q	0.007 Q	0.0057 Q	< 0.0034	< 0.0048	0.0072 Q	0.0078 Q	< 0.0032	0.011 Q	0.019 Q	< 0.0047	1.1 Q	0.023 Q	0.014 Q

Groundwater Update Report
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*1-Methyl naphthalene*	*2-Methyl naphthalene*	*Acenaphthene*	*Acenaph - thylene*	*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*	*Naphthalene*	*Phenanthrene*	*Pyrene*
Groundwater Screening Benchmarks																			
Wisconsin Residential Water		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
PZ703																			
	12/21/1998	**2.8 Q**	< 0.92	< 1.4	< 1.3	0.2 Q	**0.22 Q**	< 0.21	< 0.12	< 0.23	< 0.23	< 0.092	< 0.25	0.25 Q	0.44	< 0.11	86	0.53	0.64 Q
	6/25/2002	--	--	1.2	< 0.46	0.45 Q	< 0.38	< 0.24	< 0.28	< 0.3	< 0.26	< 0.36	< 0.34	< 0.56	< 0.42	< 0.28	**190**	0.38 Q	< 0.4
	11/7/2002	< 1.7	< 1.7	< 1.8	< 1.9	< 2	< 1.2	< 1.4	< 1.3	< 1.6	< 1.9	< 1.4	< 1.6	< 1.3	< 1.7	< 2.1	41	< 1.6	< 1.7
	4/15/2003	< 1.4	< 1.4	< 1.4	< 1.5	< 1.6	< 0.96	< 1.1	< 1	< 1.3	< 1.5	< 1.1	< 1.3	< 1	< 1.4	< 1.7	30	1.4 Q	< 1.4
	7/1/2003	**7 Q**	5 Q	2.8 Q	< 1.9	< 2	< 1.2	< 1.4	< 1.3	< 1.6	< 1.9	< 1.4	< 1.6	< 1.3	< 1.7	< 2.1	**410 Q**	< 1.6	< 1.7
	9/30/2003	**8.4**	7.2	3.9	0.47	< 0.4	< 0.24	< 0.28	< 0.26	< 0.32	< 0.38	< 0.28	< 0.32	< 0.26	0.41 Q	< 0.42	**350 Q**	0.41 Q	< 0.34
	11/10/2003	**13**	12	7.4 Q	< 1.9	< 2	< 1.2	< 1.4	< 1.3	< 1.6	< 1.9	< 1.4	< 1.6	< 1.3	< 1.7	< 2.1	**510 Q**	4.2 Q	1.8 Q
	5/20/2004	**38**	40	15	< 1.8	< 1.9	< 1.1	< 1.3	< 1.2	< 1.5	< 1.8	< 1.3	< 1.5	< 1.2	< 1.6	< 2	**1900 Q**	< 1.5	< 1.6
	8/24/2004	**45**	42	21 Q	< 7.7	< 7.1	< 7.8	< 7.2	< 7.2	< 8.3	< 7.7	< 6.6	< 8.8	< 6.6	< 8.7	< 6.8	**1600 Q**	< 8.2	< 6.5
	11/24/2004	**18**	17	5.9 Q	< 3.9	< 3.6	< 4	< 3.7	< 3.6	< 4.2	< 3.9	< 3.3	< 4.4	< 3.3	< 4.4	< 3.4	**760 Q**	< 4.1	< 3.3
	5/19/2005	1.9 Q	0.59	1.1	0.087	< 0.071	< 0.078	< 0.072	< 0.072	< 0.083	< 0.077	< 0.066	< 0.088	< 0.066	0.097 Q	< 0.068	0.97	< 0.082	0.065
	12/13/2005	0.89	0.16	0.87	0.05 Q	0.024 Q	< 0.031	< 0.037	< 0.031 Q	< 0.039	< 0.039 Q	< 0.038	< 0.038	< 0.031	0.11	< 0.038	0.33	0.06 Q	< 0.029
	6/26/2006	0.97 Q	0.044	2.3 Q	0.14	0.029 Q	< 0.016	< 0.019	< 0.016 Q	< 0.019	< 0.02 Q	< 0.019	< 0.019	< 0.016	0.28	< 0.019	1.4 Q	0.19	< 0.015
	12/13/2006	0.042 Q	< 0.023	0.62 Q	0.096	< 0.023	< 0.031	< 0.037	< 0.032 Q	< 0.039	< 0.039 Q	< 0.038	< 0.038	< 0.031	0.056 Q	< 0.038	0.079 Q	< 0.023	< 0.029
	6/18/2007	1.2	< 0.22	3	< 0.16	< 0.23	< 0.31	< 0.37	< 0.31 Q	< 0.39	< 0.39 Q	< 0.38	< 0.38	< 0.31	0.22 Q	< 0.38	< 0.25	< 0.23	< 0.29
	12/5/2007	**5.7**	4.7	4.7	0.33 Q	< 0.23	< 0.31	< 0.37	< 0.31 Q	< 0.39	< 0.39 Q	< 0.38	< 0.38	< 0.31	0.48 Q	< 0.38	**120 Q**	0.31 Q	< 0.29
	6/26/2008	**6.2**	5.9 Q	3	0.27 Q	< 0.13	< 0.069	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	< 0.11	0.23 Q	< 0.072	**189 Q**	< 0.15	< 0.14
	12/18/2008	**2.4**	0.27 Q	5	0.66 Q	< 0.13	< 0.069	< 0.11	< 0.1	< 0.12	< 0.16	< 0.14	< 0.086	< 0.11	0.5 Q	< 0.072	0.73 Q	< 0.15	< 0.14
	6/30/2009	2.3 Q	2.6 Q	< 1.8 Q	0.16 Q	0.046 Q	0.0037 Q	0.003 Q	< 0.0034 Q	< 0.0048 Q	< 0.0044 Q	0.0035 Q	< 0.0032 Q	0.015 Q	0.22 Q	< 0.0047 Q	93.3 Q	0.14 Q	0.015 Q
	12/8/2009	**2.4**	1.2	2.3	0.14	0.069	0.0039 Q	0.0029 Q	0.0035 Q	< 0.0048	< 0.0044	0.0042 Q	< 0.0032	0.017 Q	0.46	< 0.0047	0.12 Q	0.19	0.018 Q
	6/8/2010	**4.2**	1.7	2.9	0.32 Q	0.18 Q	< 0.077	< 0.061	< 0.072	< 0.1	< 0.093	< 0.074	< 0.068	0.11 Q	0.57 Q	< 0.099	0.59 Q	0.83 Q	0.15 Q
	12/2/2010	0.59	0.016 Q	1.2	0.034 Q	0.028 Q	< 0.014	< 0.011	< 0.014	< 0.019	< 0.017	< 0.014	< 0.013	< 0.018	0.19	< 0.019	0.067 Q	0.071 Q	< 0.019

Groundwater Update Report
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **USEPA# : WIN000510058**

Sample ID	Collection Date	1-Methyl naphthalene	2-Methyl naphthalene	Acenaphthene	Acenaph - thylene	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	Naphthalene	Phenanthrene	Pyrene
Groundwater Screening Benchmarks																			
Wisconsin Residential Water		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																			
(MW704)	8/15/1995	--	--	660	< 2	44	**25**	**21**	**8.7**	16	**7.3**	**19**	< 0.1	140	190	**9.2**	**3600**	220	55
(MW704)	9/25/1995	--	--	420	1100	64	**46**	**38**	**14**	31	**15**	**31**	**3.2**	210	170	**20**	**3100**	310	83
(MW705)	12/21/1998	< 0.94	< 0.92	< 1.4	< 1.3	< 0.1	< 0.1	< 0.21	< 0.12	< 0.23	< 0.23	< 0.092	< 0.25	< 0.23	< 0.056	< 0.11	< 0.73	< 0.11	< 0.39
(MW705)	6/25/2002	--	--	< 0.018	< 0.023	< 0.02	< 0.019	< 0.012	< 0.014	< 0.015	< 0.013	< 0.018	< 0.017	< 0.028	< 0.021	< 0.014	< 0.027	< 0.019	< 0.02
(MW708)	11/7/2002	< 0.017	< 0.017	< 0.018	< 0.019	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	< 0.024	< 0.016	< 0.017
(PZ702)	4/15/2003	0.042 Q	0.072	< 0.018	< 0.019	< 0.02	0.012 Q	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	0.2	0.026 Q	< 0.017
(MW709R)	7/1/2003	0.084 Q	0.044 Q	0.023 Q	0.019 Q	< 0.02	< 0.012	< 0.014	< 0.013	< 0.016	< 0.019	< 0.014	< 0.016	< 0.013	< 0.017	< 0.021	0.74 Q	< 0.016	< 0.017
(MW709R)	9/30/2003	< 0.018	< 0.017	< 0.018	< 0.019	< 0.02	**0.065**	0.059	0.066	0.098	0.056 Q	0.057	**0.093**	< 0.013	< 0.017	**0.094**	0.025 Q	< 0.016	< 0.017
(PZ702)	11/10/2003	0.022 Q	0.025 Q	< 0.018	0.22 Q	< 0.02	0.025 Q	0.021 Q	0.014 Q	< 0.016	< 0.019	0.028 Q	< 0.016	0.034 Q	< 0.017	< 0.021	0.11	0.068	0.054 Q
(MW709R)	5/20/2004	0.031 Q	0.044 Q	< 0.017	< 0.018	< 0.019	< 0.011	< 0.013	< 0.012	< 0.015	< 0.018	< 0.013	< 0.015	< 0.012	< 0.016	< 0.02	0.15	< 0.015	< 0.016
(MW709R)	11/24/2004	0.048 Q	0.063 Q	< 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	0.29	< 0.02	< 0.016
(MW709R)	5/19/2005	< 0.02	< 0.023	< 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	0.027 Q	< 0.02	< 0.016
(MW709R)	12/13/2005	< 0.01	0.018 Q	< 0.0082	< 0.0081	< 0.012	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	< 0.015	< 0.0091	< 0.019	< 0.047	< 0.011	< 0.015
(MW709R)	6/26/2006	0.07	0.011 Q	0.016 Q	< 0.0081	0.012 Q	< 0.016	< 0.018	< 0.016 Q	< 0.019	< 0.019 Q	< 0.019	< 0.019	< 0.015	0.0098 Q	< 0.019	0.5 Q	0.012 Q	< 0.015
(MW706)	12/13/2006	0.42 Q	0.33 Q	0.71	4.2	1	**1.5**	**2.7**	**1.5 Q**	1.1 Q	**1.3 Q**	**1.4**	< 0.38	2	0.3 Q	**0.9 Q**	0.42 Q	0.8	2.6
(MW708)	6/18/2007	0.02 Q	0.031 Q	< 0.0082	0.039	0.016 Q	0.018 Q	0.024 Q	< 0.016 Q	< 0.019	< 0.019 Q	0.022 Q	< 0.019	0.028 Q	0.012 Q	< 0.019	0.092	0.036 Q	0.035 Q
(MW709R)	12/5/2007	0.015 Q	< 0.012	< 0.0084	< 0.0083	< 0.012	< 0.016	< 0.019	< 0.016 Q	< 0.02	< 0.02 Q	< 0.02	< 0.019	< 0.016	< 0.0093	< 0.019	0.099	< 0.012	< 0.015
(MW701R)	6/26/2008	**237**	125 Q	131 Q	12.5	36.9	**16.5**	**16.7**	**7**	10.3	**10**	**14**	**1.6 Q**	29.6	43.7	**6.3**	**985 Q**	68.9 Q	42.7
(PZ702)	12/18/2008	0.3	0.58	0.023 Q	0.14	0.074	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	0.028 Q	0.075	< 0.0036	1.6 Q	0.18	0.025 Q
(MW707R)	6/30/2009	**97.4**	8.1 Q	30.8 Q	< 7.2	< 11.5	**0.1**	0.035 Q	0.019 Q	0.011 Q	0.023 Q	0.083	< 0.0032	< 8.8	13.2 Q	0.0092 Q	**763 Q**	< 16.2	< 9.5
(MW709R)	12/8/2009	< 0.005	0.0055 Q	< 0.0045	< 0.0036	0.013 Q	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	< 0.0048	< 0.0047	0.015 Q	< 0.0081	< 0.0047
(PZ702)	6/8/2010	0.018 Q	0.019 Q	0.0092 Q	< 0.0038	< 0.0061	< 0.0038	< 0.003	< 0.0036	< 0.0051	< 0.0046	< 0.0037	< 0.0034	< 0.0047	< 0.0051	< 0.005	0.16 Q	< 0.0086	< 0.005
(MW709R)	12/2/2010	< 0.005	0.0045 Q	< 0.0045	< 0.0036	0.0092 Q	< 0.0036	< 0.0029	< 0.0034	< 0.0048	< 0.0044	< 0.0035	< 0.0032	< 0.0044	< 0.0048	< 0.0047	0.011 Q	< 0.0081	< 0.0047
QC02																			
(MW704)	12/21/1998	**9.5**	< 0.92	1.6 Q	< 1.3	4.9	**6.6**	**7.6**	**6**	5.3	**2.4**	**3**	< 0.25	16	6.8	**5.8**	17	16	20

Notes

1) Parameters that attain or exceed the Groundwater Screeing Benchmarks are identified in bold and underlined.
2) The hierarchy for the Groundwater Screening Benchmarks is MCL, WI NR 140, RSL.
<2.0 : Parameter not detected above the Limit of Detection indicated.
NS : NR 140 Wisconsin Groundwater Quality Standard has not been established for this parameter.
TB : Trip Blank for QA/QC.
QC: Quality Control duplicate sample.
Q: Analyte result has been qualified, see laboratory analytical report for additional information.
--: Analysis not performed.

Table 4. Groundwater Analytical Results - Laboratory and Field Remedial Natural Attenuation (RNA) Parameters

Groundwater Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **FID# : 460134950** **USEPA# : WIN000510058**

Sample ID	Collection Date	Laboratory Parameters: Alkalinity (mg/L)	Iron - Dissolved (µg/L)	Manganese - Dissolved (µg/L)	Iron - Total (µg/L)	Methane (µg/L)	NO3 + NO2 (mg/L)	Sulfate (mg/L)	Field Parameters: pH (SU)	Temperature (Degrees C)	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Comments
Groundwater Screening Benchmarks															
Wisconsin Residential Water		NS	26000	300	26000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
BW06															
	11/07/02	--	< 61	--	--	< 10	0.13	35	8.36	10.72	0.004	3.4	391	--	
	05/20/04	--	--	--	--	< 10	< 0.063	30	--	--	--	--	--	--	
	11/24/04	--	--	--	--	< 10	< 0.063	41	--	--	--	--	--	--	
	05/19/05	--	--	--	--	< 10	0.23	39	--	--	--	--	--	--	
	08/09/05	--	--	--	--	--	--	--	8.59	14.68	0.86	2.52	103	--	
	12/13/05	--	--	--	--	< 10	< 0.061	42	6.95	8.75	0.88	8.6	184	--	
	06/26/06	--	--	--	--	< 10	< 0.11	41	7.03	15.35	0.89	0.93	97	--	
	12/13/06	--	--	--	--	< 10	< 0.11	39	7.29	9.47	0.903	8.77	-304	--	
	06/18/07	--	--	--	--	< 10	0.15 Q	39	--	--	--	--	--	--	
	12/05/07	--	--	--	--	--	--	--	--	--	--	--	--	--	unable to locate due to snow
	12/18/08	--	--	--	--	< 2	0.13 Q	40.2	7.86	7.79	0.946	10.98	-23	--	
	06/30/09	--	--	--	--	< 0.93	0.27	41.4	7.83	10.7	0.625	1.99	-11.3	522.9	
	12/08/09	--	--	--	--	< 0.93	0.21 Q	36.7	--	--	--	--	--	--	
	03/30/10	--	--	--	--	--	--	--	7.76	10.61	0.767	1.8	-20.7	97	
	06/08/10	--	--	--	--	< 0.93	0.3	36.9	8.3	14.23	0.001	5.9	-15	40	
	09/08/10	--	16 Q	13.5	--	--	--	--	7.83	11.85	0.843	0.31	-55	2000	
	12/02/10	--	--	--	--	2.6 Q	< 0.12	39.7	7.63	10.54	0.179	0.92	-111	128	
BW15															
	05/20/04	--	--	--	--	< 10	1.1	1500	--	--	--	--	--	--	
	11/24/04	--	--	--	--	190	< 0.063	560	--	--	--	--	--	--	
	05/19/05	--	--	--	--	4900	< 0.061	72	--	--	--	--	--	--	
	12/13/05	--	--	--	--	7500	< 0.061	190	6.92	9.79	2.18	0.93	46	--	
	06/26/06	--	--	--	--	6600	< 0.11	110	6.95	14.83	2.11	0.67	47	--	
	12/13/06	--	--	--	--	400	0.21 Q	1100	7.31	10.81	2.79	2.76	-83	--	

Groundwater Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **FID# : 460134950** **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*Laboratory Parameters*							*Field Parameters*						*Comments*
		Alkalinity (mg/L)	*Iron - Dissolved (µg/L)*	*Manganese - Dissolved (µg/L)*	*Iron - Total (µg/L)*	*Methane (µg/L)*	*NO3 + NO2 (mg/L)*	*Sulfate (mg/L)*	*pH (SU)*	*Temperature (Degrees C)*	*Conductivity (mmhos/cm)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Turbidity (NTU)*	
Groundwater Screening Benchmarks															
Wisconsin Residential Water		NS	26000	300	26000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW701R															
	06/25/02	1200	20000	--	**52000**	--	< 0.23	3.8 Q	--	--	--	--	--	--	Coal Tar Present
	11/07/02	--	--	--	--	--	--	--	7.18	13.39	1.267	1.08	541	--	
	01/24/03	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	07/01/03	--	18000	--	--	11000	< 0.047	2.3	9.32	12.84	1.243	4.29	214	--	
	11/10/03	--	**40000**	--	--	5800	< 0.047	< 1.1	9.12	12.38	1.001	0.25	-12	--	
	02/17/04	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	05/20/04	--	--	--	--	6700	< 0.063	1 Q	9.74	9.9	0.173	7.36	13	--	
	08/24/04	--	--	--	--	--	--	--	6.46	15.66	2.244	0.74	179	--	
	11/24/04	--	--	--	--	8100	< 0.063	2.4	6.84	11.86	2.418	2.12	126	--	
	02/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	05/19/05	--	--	--	--	8100	< 0.061	1.7	--	--	--	--	--	--	Coal Tar Present
	08/09/05	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	12/13/05	--	--	--	--	6800	< 0.061	1.4 Q	--	--	--	--	--	--	Coal Tar Present
	03/08/06	--	--	--	--	--	--	--	6.47	6.94	2.46	2.35	-233	--	Coal Tar Present
	06/26/06	--	--	--	--	8300	< 0.11	3.1	--	--	--	--	--	--	Coal Tar Present
	09/26/06	--	--	--	--	--	--	--	6.04	17.34	2.057	--	-214	--	
	12/13/06	--	--	--	--	5300	< 0.11	2.8	--	--	--	--	--	--	product present
	03/29/07	--	--	--	--	--	--	--	6.79	5.38	0.522	12.25	-52.4	--	
	06/18/07	--	--	--	--	9600	< 0.096	2.4	6.77	12.14	2.21	1.22	-121	--	
	09/13/07	--	--	--	--	--	--	--	6.08	16.94	0.522	2.02	-78.5	--	
	12/05/07	--	--	--	--	11000	< 0.096	2.4 Q	6.55	12.26	2.3	0.62	-159	--	
	04/02/08	--	--	--	--	--	--	--	6.09	6.81	2.5	0.42	-124	--	
	06/26/08	--	--	--	--	5250	< 0.096	3.2 Q	6.41	13.89	2.04	0.15	-142	366	
	09/11/08	--	--	--	--	--	--	--	6.54	15.22	2.14	0.23	-79	41	
	12/18/08	--	--	--	--	--	--	--	6.58	9.78	2.35	0.6	-98	--	
	03/30/09	--	--	--	--	--	--	--	6.43	7.6	1.952	0.15	-85.1	48.2	
	06/30/09	--	--	--	--	21200	< 0.12	2.5 Q	6.29	10.75	1.739	0.73	-132.3	100.3	sheen
	09/29/09	--	--	--	--	--	--	--	10.56	14.52	2.36	1.43	-229	202	
	12/08/09	--	--	--	--	13900	< 0.12	2 Q	6.6	9.53	2.3	0.54	-173	2000	
	03/30/10	--	--	--	--	--	--	--	6.2	10.67	1.803	1.19	-159.9	19.9	
	06/08/10	--	--	--	--	17600	< 0.12	3.9 Q	6.59	11.03	2.49	0.47	-117	41	
	09/08/10	--	11400	**364**	--	--	--	--	6.62	16.01	2.45	0.25	-177	112	
	12/02/10	--	--	--	--	12100	< 0.12	2.2 Q	6.76	11.52	2.27	0.66	-203	20.1	
MW702															
	12/21/98	--	--	--	--	--	--	--	--	--	--	--	--	--	monitoring well previously abandoned

Groundwater Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **FID# : 460134950** **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*Laboratory Parameters*							*Field Parameters*						*Comments*
		Alkalinity (mg/L)	*Iron - Dissolved (µg/L)*	*Manganese - Dissolved (µg/L)*	*Iron - Total (µg/L)*	*Methane (µg/L)*	*NO3 + NO2 (mg/L)*	*Sulfate (mg/L)*	*pH (SU)*	*Temperature (Degrees C)*	*Conductivity (mmhos/cm)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Turbidity (NTU)*	
Groundwater Screening Benchmarks															
Wisconsin Residential Water		NS	26000	300	26000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW705															
	06/25/02	460	410	--	1200	--	< 0.023	190	8.7	10.85	1.232	4.75	403	--	
	11/07/02	--	< 61	--	--	--	< 0.075	< 1.1	7.76	11.02	1.407	6.42	539	--	
	04/15/03	--	--	--	--	--	--	--	8.41	7.45	1.404	6.28	262	--	
	07/01/03	--	670	--	--	93	< 0.047	380	9.25	12.4	1.5	4.26	262	--	
	09/30/03	--	--	--	--	--	--	--	6.98	13.9	2.63	--	--	--	
	11/10/03	--	310	--	--	74	0.21	380	9.84	12.21	1.084	0.27	36	--	
	02/17/04	--	--	--	--	--	--	--	6.68	6.52	3.3	7.61	200.7	--	
	05/20/04	--	--	--	--	32	< 0.063	350	9.71	11.35	0.058	1.53	10	--	
	08/24/04	--	--	--	--	--	--	--	6.83	15.09	2.916	1.2	192	--	
	11/24/04	--	--	--	--	99	< 0.063	400	7.46	12.4	2.889	2.58	136	--	
	02/25/05	--	--	--	--	--	--	--	7.86	5.94	2.31	0.29	150	--	
	05/19/05	--	--	--	--	190	< 0.061	450	7.06	9.48	2.75	1.26	193	--	
	08/09/05	--	--	--	--	--	--	--	8.12	14.06	2.71	1.45	95	--	
	03/08/06	--	--	--	--	--	--	--	7.01	8.53	2.8	1.49	-211	--	
	06/18/07	--	--	--	--	--	--	--	7.12	12.24	2.78	1.65	-80	--	
	12/05/07	--	--	--	--	--	--	--	--	--	--	--	--	--	unable to locate due to snow
	04/02/08	--	--	--	--	--	--	--	6.67	7.07	1.55	0.27	-25	--	
	06/26/08	--	--	--	--	53.8	< 0.096	119	7.05	12.22	1.163	1.7	-44	33.8	
	09/11/08	--	--	--	--	--	--	--	7.26	14.08	1.81	0.76	-57	18.2	

Groundwater Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **FID# : 460134950** **USEPA# : WIN000510058**

Sample ID	Collection Date	Alkalinity (mg/L)	Iron - Dissolved (µg/L)	Manganese - Dissolved (µg/L)	Iron - Total (µg/L)	Methane (µg/L)	NO3 + NO2 (mg/L)	Sulfate (mg/L)	pH (SU)	Temperature (Degrees C)	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Comments
		Laboratory Parameters							*Field Parameters*						
Groundwater Screening Benchmarks															
Wisconsin Residential Water		NS	26000	300	26000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW706															
	06/25/02	140	620	--	3800	--	23	1200	--	--	--	--	--	--	Coal Tar Present
	11/07/02	--	--	--	--	--	--	--	7.69	9.44	0.011	1.88	541	--	
	01/24/03	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	07/01/03	--	140	--	--	25	0.67	880	9.35	10.71	1.358	2.51	270	--	
	11/10/03	--	280	--	--	< 10	7.6	500	9.51	12.8	0.749	0.08	14	--	
	02/17/04	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	05/20/04	--	--	--	--	< 10	0.85	880	9.98	10.15	0.385	8.9	-4	--	
	08/24/04	--	--	--	--	--	--	--	6.59	13.93	2.413	0.72	235	--	
	11/24/04	--	--	--	--	29	0.15	740	--	--	--	--	--	--	Coal Tar Present
	02/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	05/19/05	--	--	--	--	25	0.48	830	--	--	--	--	--	--	Coal Tar Present
	08/09/05	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	12/13/05	--	--	--	--	< 10	0.4	1000	--	--	--	--	--	--	Coal Tar Present
	03/08/06	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	06/26/06	--	--	--	--	< 10	0.14 Q	800	6.78	12.76	2	1.37	83	--	Coal Tar Present
	09/26/06	--	--	--	--	--	--	--	6.26	15.5	1.622	--	-223.9	--	
	12/13/06	--	--	--	--	< 10	0.11 Q	910	--	--	--	--	--	--	product present
	03/29/07	--	--	--	--	--	--	--	7.28	6.17	1.077	12.1	8.4	--	
	06/18/07	--	--	--	--	< 10	< 0.096	730	--	--	--	--	--	--	Coal Tar Present
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	12/05/07	--	--	--	--	11	< 0.096	420	--	--	--	--	--	--	Coal Tar Present
	04/02/08	--	--	--	--	--	--	--	7.01	6.89	1.95	2.35	-103	--	odor
	06/26/08	--	--	--	--	4.2	0.097 Q	310	7.11	13.5	0.808	0.35	-133	57.4	
	09/11/08	--	--	--	--	--	--	--	7.37	14.57	1.207	1.21	-41	3.9	
	12/18/08	--	--	--	--	44.8	< 1.9 Q	< 510 Q	6.91	9.73	1.3	3.29	-97	--	droplets of oily like substance, sheen
	03/30/09	--	--	--	--	--	--	--	7.1	7.59	1.202	1.7	-31.1	-1.2	odor
	06/30/09	--	--	--	--	107	< 0.12	446	6.75	11.93	1.107	1.01	-120.1	0.8	sheen
	09/29/09	--	--	--	--	--	--	--	10.62	14.23	1.355	0.61	-246	13.8	odor
	12/08/09	--	--	--	--	22.1	< 0.12	627	6.74	10.15	1.67	0.71	-181	39	
	03/30/10	--	--	--	--	--	--	--	6.85	11.66	1.083	2.57	-113.1	1.2	odor
	06/08/10	--	--	--	--	7.9	< 0.12	405	7.21	11.8	1.59	1.38	-162	10.3	
	09/08/10	--	333	**44**	--	--	--	--	7.45	15.8	1.457	0.41	-205	13.7	
	12/02/10	--	--	--	--	118 Q	< 0.12	235	7.32	12.74	1.323	0.8	-264	14.1	

Groundwater Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **FID# : 460134950** **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*Laboratory Parameters*							*Field Parameters*						*Comments*
		Alkalinity (mg/L)	*Iron - Dissolved (µg/L)*	*Manganese - Dissolved (µg/L)*	*Iron - Total (µg/L)*	*Methane (µg/L)*	*NO3 + NO2 (mg/L)*	*Sulfate (mg/L)*	*pH (SU)*	*Temperature (Degrees C)*	*Conductivity (mmhos/cm)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Turbidity (NTU)*	
Groundwater Screening Benchmarks															
Wisconsin Residential Water		NS	26000	300	26000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW707R															
	06/25/02	460	730	--	25000	--	< 0.023	40	--	--	--	--	--	--	Coal Tar Present
	11/07/02	--	--	--	--	--	--	--	7.39	12.86	1.099	1.39	523	--	
	01/24/03	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	07/01/03	--	510	--	--	5800	0.049 Q	30	9.58	13.81	0.87	1.93	198	--	
	11/10/03	--	1.1	--	--	1800	< 0.047	20	9.76	13.01	0.785	3.36	-85	--	
	02/17/04	--	--	--	--	--	--	--	--	--	--	--	--	--	Coal Tar Present
	05/20/04	--	--	--	--	3400	< 0.063	41	10.19	10.15	0.349	5.23	-73	--	
	08/24/04	--	--	--	--	--	--	--	6.81	17.15	1.65	1.08	214	--	
	11/24/04	--	--	--	--	7200	< 0.063	3.7	8.25	11.15	1.69	1.37	149	--	
	02/25/05	--	--	--	--	--	--	--	8.08	5.34	1.47	0.51	105	--	
	05/19/05	--	--	--	--	3800	0.062	14	--	--	--	--	--	--	Coal Tar Present
	08/09/05	--	--	--	--	--	--	--	8.41	14.84	1.59	0.45	205	--	
	12/13/05	--	--	--	--	5000	< 0.061	4.4	--	--	--	--	--	--	
	03/08/06	--	--	--	--	--	--	--	6.6	7.46	3.12	2.58	-230	--	
	06/26/06	--	--	--	--	5500	< 0.11	43	6.88	12.82	1.7	0.26	-51	--	
	09/26/06	--	--	--	--	--	--	--	6.94	17.4	1.477	--	-259.8	--	
	12/13/06	--	--	--	--	3900	< 0.11	190	6.78	9.15	1.93	0.33	-468	--	
	03/29/07	--	--	--	--	--	--	--	6.9	5.96	1.009	6.6	-134.2	--	
	06/18/07	--	--	--	--	8000	< 0.096	19	7.27	13.12	1.4	1.14	-154	--	
	09/13/07	--	--	--	--	--	--	--	6.85	17.8	1.306	3.17	-92.3	--	
	12/05/07	--	--	--	--	6900	< 0.096	3 Q	8.45	11.23	1.069	0.36	-225	--	
	04/02/08	--	--	--	--	--	--	--	6.83	5.26	1.73	0.61	-119	--	
	06/26/08	--	--	--	--	5830	< 0.096	89.8	7.15	15.28	1.463	0.16	-168	40.8	
	09/11/08	--	--	--	--	--	--	--	7.2	16.28	1.51	0.45	-167	0.2	
	12/18/08	--	--	--	--	9130	< 0.096	3.7 Q	6.92	8.78	1.376	0.42	-100	--	
	03/30/09	--	--	--	--	--	--	--	7.23	5.69	1.164	0.1	-81.3	-2.3	
	06/30/09	--	--	--	--	11400	< 0.12	43.2	7.05	12.1	1.258	0.55	-173.1	-0.1	
	09/29/09	--	--	--	--	--	--	--	10.97	15.19	1.65	0.69	-273	13.4	
	12/08/09	--	--	--	--	5850	< 0.12	10.6	7.09	9.89	1.5	0.55	-209	44.3	
	03/30/10	--	--	--	--	--	--	--	7.07	11.77	1.275	1.06	-161.9	0.2	
	06/08/10	--	--	--	--	6310	< 0.12	40	7.3	11.09	11.78	0.61	-173	18.8	
	09/08/10	--	1340	**365**	--	--	--	--	7.2	17.26	1.8	0.32	-221	24.3	
	12/02/10	--	--	--	--	10400	< 0.12	3.7 Q	7.18	9.77	1.58	0.48	-238	6	

Groundwater Update
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Sample ID	*Collection Date*	*Laboratory Parameters*							*Field Parameters*						*Comments*
		Alkalinity (mg/L)	*Iron - Dissolved (µg/L)*	*Manganese - Dissolved (µg/L)*	*Iron - Total (µg/L)*	*Methane (µg/L)*	*NO3 + NO2 (mg/L)*	*Sulfate (mg/L)*	*pH (SU)*	*Temperature (Degrees C)*	*Conductivity (mmhos/cm)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Turbidity (NTU)*	
Groundwater Screening Benchmarks															
Wisconsin Residential Water		NS	26000	300	26000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW708															
	06/25/02	520	2500	–	**35000**	--	0.18	63	7.35	13.49	2.301	4.56	406	--	
	11/07/02	–	< 61	--	–	< 10	0.13 Q	66	7.82	14.37	2.407	2.72	516	--	
	01/24/03	–	--	--	–	--	–	–	7.83	10.49	4.941	1.93	248	--	
	04/15/03	–	--	--	–	--	–	–	8.67	9.19	2.875	2.52	258	--	
	07/01/03	–	51 Q	--	–	< 10	0.14 Q	70	9.43	12.36	2.771	2.32	250	--	
	09/30/03	–	--	--	–	--	–	–	7.09	13.6	5.13	--	–	--	
	11/10/03	–	< 18	--	–	< 10	0.12 Q	71	9.34	13.63	2.103	0.13	20	--	
	02/17/04	–	--	--	–	--	–	–	6.88	10.55	5.014	4.71	200.6	--	
	05/20/04	–	--	--	–	< 10	0.18	68	9.91	9.67	1.041	6.1	-14	--	
	08/24/04	–	--	--	–	--	–	–	6.9	14.38	4.948	1.63	345	--	
	11/24/04	–	--	--	–	< 10	0.17 Q	79	7.53	13.66	4.923	0.8	174	--	
	02/25/05	–	--	--	–	--	–	–	8.07	7.46	4.88	1.21	158	--	
	05/19/05	–	--	--	–	< 10	0.15	67	7.12	9.51	5.18	0.91	162	--	
	08/09/05	–	--	--	–	--	–	–	8.21	12.74	4.93	1.23	13	--	
	12/13/05	–	--	--	–	--	–	–	6.83	11.91	5.07	0.97	1	--	
	03/08/06	–	--	--	–	--	–	–	6.95	9.71	5.18	2.02	-224	--	
	06/26/06	–	--	--	–	< 10	0.16 Q	80	7.01	12.43	5.34	0.46	-68	--	
	09/26/06	–	--	--	–	--	–	–	6.52	15.05	4.745	--	-205.1	--	
	12/13/06	–	--	--	–	--	–	–	6.55	11.47	4.98	1.29	-441	--	
	03/29/07	–	--	--	–	--	–	–	7.15	9.69	3.573	7.66	69.8	--	
	06/18/07	–	--	--	–	< 10	< 0.096	78	7.51	12.88	4.63	1.16	41	--	
	09/13/07	–	--	--	–	--	–	–	6.65	13.89	4.094	1.99	71.5	--	
	12/05/07	–	--	--	–	--	–	–	7.19	12.05	4.23	1.54	48	--	
	04/02/08	–	--	--	–	--	–	–	7.02	9.13	4.21	0.88	68	--	
	06/26/08	–	--	--	–	< 2	< 0.096	72.6	7.12	13.83	4.37	1.24	25	145	
	09/11/08	–	--	--	–	--	–	–	7.34	14.58	4.28	0.81	-4	370	
	12/18/08	–	--	--	–	< 2	< 0.096	81.6	7.15	11.48	4.06	2.3	45	--	
	03/30/09	–	--	--	–	--	–	–	7.28	9.14	3.424	1.61	-3.8	5.1	
	06/30/09	–	--	--	–	< 0.93	< 0.12	81	7.1	11.86	3.636	1.75	14.2	7.7	
	09/29/09	–	--	--	–	--	–	–	10.79	13.71	4.56	3.44	-142	23.8	
	12/08/09	–	--	--	–	< 0.93	< 0.12	81.2	7.26	12.1	4.22	0.92	-33	54.3	
	03/30/10	–	--	--	–	--	–	–	7.14	11.74	2.618	5.15	15.2	8.7	
	06/08/10	–	--	--	–	< 0.93	< 0.12	75.7	7.38	11.54	5.13	2.25	-12	18.4	
	09/08/10	–	< 8.3 Q	2.6 Q	–	--	–	–	7.36	15.56	4.9	1.41	-32	13.6	
	12/02/10	–	--	--	–	< 0.93	< 0.12	77.6	7.23	12.55	4.43	0.97	-92	7.4	

Groundwater Update
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732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **FID# : 460134950** **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*Laboratory Parameters*							*Field Parameters*						*Comments*
		Alkalinity (mg/L)	*Iron - Dissolved (µg/L)*	*Manganese - Dissolved (µg/L)*	*Iron - Total (µg/L)*	*Methane (µg/L)*	*NO3 + NO2 (mg/L)*	*Sulfate (mg/L)*	*pH (SU)*	*Temperature (Degrees C)*	*Conductivity (mmhos/cm)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Turbidity (NTU)*	
Groundwater Screening Benchmarks															
Wisconsin Residential Water		NS	26000	300	26000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW709R															
	06/25/02	900	490	–	4000	–	2.7	440	7.97	14.74	1.32	4.44	415	--	
	11/07/02	–	--	--	–	–	–	–	7.57	13.99	1.534	1.82	549	--	
	04/15/03	–	--	--	–	–	–	–	8.65	6.92	1.48	10.14	246	--	
	07/01/03	–	820	–	–	< 10	0.093 Q	500	9.72	16.03	0.462	4.34	253	--	
	09/30/03	–	--	--	–	–	–	–	6.92	16.2	3.35	--	–	--	
	11/10/03	–	90	–	–	< 10	0.94	210	9.54	12.22	1.066	1.06	42	--	
	02/17/04	–	--	--	–	--	–	–	6.86	5.02	2.68	9.38	200.6	--	
	05/20/04	–	--	--	–	< 10	0.79	130	9.7	11.63	0.221	1.23	-13	--	
	08/24/04	–	--	--	–	–	–	–	7.04	17.22	1.524	1.86	195	--	
	11/24/04	–	--	--	–	420	0.082 Q	240	8.16	11.81	3.45	6.3	182	--	
	02/25/05	–	--	--	–	--	–	–	8.52	4.09	0.93	1.06	262	--	
	05/19/05	–	--	--	–	190	0.094 Q	260	7.3	8.79	2.94	0.5	169	--	
	08/09/05	–	--	--	–	–	–	–	7.76	16.98	3.25	1.17	140	--	
	12/13/05	–	--	--	–	–	–	–	7.41	8.75	2.96	0.64	20	--	
	03/08/06	–	--	--	–	--	–	–	7.38	8.3	3.22	3.15	-135	--	
	06/26/06	–	--	--	–	530	< 0.11	310	6.81	12.95	3.11	0.27	-66	--	
	09/26/06	–	--	--	–	–	–	–	6.68	17.72	2.87	--	-253.5	--	
	12/13/06	–	--	--	–	–	–	–	6.47	9.73	2.84	0.38	-462	--	
	03/29/07	–	--	--	–	–	–	–	7.36	5.56	1.147	6.4	11.9	--	
	06/18/07	–	--	--	–	780	< 0.096	240	6.74	13.26	2.64	2.72	-165	--	
	09/13/07	–	--	--	–	--	–	–	7.05	18.2	2.298	3.02	-118.4	--	
	12/05/07	–	--	--	–	–	–	–	7.17	11.08	2.98	1.76	-98	--	
	04/02/08	–	--	--	–	–	–	–	6.71	5.19	1.85	1.44	109	--	
	06/26/08	–	--	--	–	190	< 0.096	130	7.03	13.6	0.985	0.73	-77	10.1	
	09/11/08	–	--	--	–	–	–	–	7.18	16.22	2.52	0.53	-67	113	
	12/18/08	–	--	--	–	557	< 0.096	141	6.95	7.89	2.55	6.32	-84	--	
	03/30/09	–	--	--	–	–	–	–	7.18	6.31	1.552	0.95	6.1	-3.6	
	06/30/09	–	--	--	–	1220	< 0.12	148	6.96	13.52	1.949	0.53	-104.2	0	
	09/29/09	–	--	--	–	--	–	–	12.29	13.79	2.72	1.16	-252	13.6	
	12/08/09	–	--	--	–	–	–	113	7.39	10.35	2.51	0.86	-181	23.4	
	03/30/10	–	--	--	–	–	–	–	6.89	13.41	1.863	2.81	-63.3	0.6	
	06/08/10	–	--	--	–	2000	< 0.12	123	7.16	10.99	2.36	0.83	-133	9.4	
	09/08/10	–	1700	**915**	–	–	–	–	7.22	16.82	2.38	1.02	-174	11.6	
	12/02/10	–	--	--	–	1610	< 0.12	50	7.09	10.59	2.45	0.61	-214	9.7	

Groundwater Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **FID# : 460134950** **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*Laboratory Parameters*							*Field Parameters*						*Comments*
		Alkalinity (mg/L)	*Iron - Dissolved (µg/L)*	*Manganese - Dissolved (µg/L)*	*Iron - Total (µg/L)*	*Methane (µg/L)*	*NO3 + NO2 (mg/L)*	*Sulfate (mg/L)*	*pH (SU)*	*Temperature (Degrees C)*	*Conductivity (mmhos/cm)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Turbidity (NTU)*	
Groundwater Screening Benchmarks															
Wisconsin Residential Water		NS	26000	300	26000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
PZ701															
	06/25/02	150	440	--	7300	--	0.12	320	8.25	12.52	0.871	5.92	392	--	
	11/07/02	--	300	--	--	250	< 0.075	200	7.74	14.02	0.562	1.92	511	--	
	01/24/03	--	--	--	--	--	--	--	--	--	--	--	--	--	Quality probe could not fit in well
	04/15/03	--	--	--	--	--	--	--	8.84	9.79	0.159	7.49	264	--	
	07/01/03	--	170	--	--	490	0.057 Q	98	--	--	--	--	--	--	Quality probe could not fit in well
	09/30/03	--	--	--	--	--	--	--	7.56	10.5	0.595	--	--	--	
	11/10/03	--	92	--	--	250	0.048 Q	58	--	--	--	--	--	--	Quality probe could not fit in well
	02/17/04	--	--	--	--	--	--	--	--	--	--	--	--	--	Quality probe could not fit in well
	05/20/04	--	--	--	--	57	0.14	51	9.91	18.06	0	1.01	13	--	
	08/24/04	--	--	--	--	--	--	--	6.76	16.6	0.712	3.73	268	--	
	11/24/04	--	--	--	--	610	< 0.063	100	7.75	10.92	0.698	0.58	98	--	
	02/25/05	--	--	--	--	--	--	--	8.54	7.14	0.6	2.89	159	--	
	05/19/05	--	--	--	--	< 10	0.19 Q	67	7.14	9.01	0.6	2.98	134	--	
	08/09/05	--	--	--	--	--	--	--	8.62	18.45	0.56	3.4	40	--	
	12/13/05	--	--	--	--	< 10	< 0.061	48	7.18	10.65	0.54	0.71	7	--	
	03/08/06	--	--	--	--	--	--	--	7.52	7.68	0.58	3.24	-143	--	
	06/26/06	--	--	--	--	10	0.15 Q	39	6.78	12.16	0.535	1.43	95	--	
	09/26/06	--	--	--	--	--	--	--	7.04	17.52	0.272	--	-201	--	
	12/13/06	--	--	--	--	< 10	< 0.11	30	6.95	11.61	0.5	4.92	-400	--	
	03/29/07	--	--	--	--	--	--	--	7.24	7.13	0.342	11.13	-84.8	--	
	06/18/07	--	--	--	--	< 10	0.14 Q	24	8.07	12.05	0.432	3.07	140	--	
	09/13/07	--	--	--	--	--	--	--	7.05	17.68	0.397	7	-43.1	--	
	12/05/07	--	--	--	--	250	< 0.096	20 Q	7.07	9.96	0.43	--	-123	--	
	04/02/08	--	--	--	--	--	--	--	7.32	9.54	0.543	4.68	148	--	
	06/26/08	--	--	--	--	27.9	< 0.096	43.4	7.87	13.34	0.444	0.21	-81	5.7	
	09/11/08	--	--	--	--	--	--	--	7.81	13.36	0.438	0.22	-90	0	
	12/18/08	--	--	--	--	3.8	< 0.096	27.5	7.32	10.74	0.451	2.7	-12	--	
	03/30/09	--	--	--	--	--	--	--	7.73	9.3	0.375	1.22	-76.2	-4.2	
	06/30/09	--	--	--	--	89.7	< 0.12	17	7.45	10.41	0.359	0.64	-56.7	-0.4	
	09/29/09	--	--	--	--	--	--	--	11.54	12.59	0.43	0.85	-239	21.2	
	12/08/09	--	--	--	--	523	< 0.12	12.1	7.79	10.83	0.49	0.59	-170	33.2	
	03/30/10	--	--	--	--	--	--	--	7.39	10.32	0.324	0.94	-57.2	19.1	
	06/08/10	--	--	--	--	3.1	0.12 Q	10.2	7.62	10.85	0.447	1.36	-66	9.8	
	09/08/10	--	222	60.4	--	--	--	--	7.52	14.82	0.443	0.37	-138	36.5	
	12/02/10	--	--	--	--	1220	< 0.12	6.8	7.46	9.42	0.405	0.66	-226	4.5	

Groundwater Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **FID# : 460134950** **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*Laboratory Parameters*							*Field Parameters*						*Comments*
		Alkalinity (mg/L)	*Iron - Dissolved (µg/L)*	*Manganese - Dissolved (µg/L)*	*Iron - Total (µg/L)*	*Methane (µg/L)*	*NO3 + NO2 (mg/L)*	*Sulfate (mg/L)*	*pH (SU)*	*Temperature (Degrees C)*	*Conductivity (mmhos/cm)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Turbidity (NTU)*	
Groundwater Screening Benchmarks															
Wisconsin Residential Water		NS	26000	300	26000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
PZ702															
	06/25/02	50	25	--	15000	--	< 0.023	3.7 Q	8.5	11.32	0.154	3.42	362	--	
	11/07/02	--	--	--	--	22	--	--	8.04	13.76	0.22	1.51	515	--	
	01/24/03	--	--	--	--	--	--	--	8.02	10.02	0.2	2.33	247	--	
	04/15/03	--	--	--	--	--	--	--	9.01	7.63	0.216	2.48	260	--	
	07/01/03	--	48 Q	--	--	39	0.053 Q	3.6	9.71	10.76	0.103	4.52	277	--	
	09/30/03	--	--	--	--	--	--	--	8.22	10.6	0.217	--	--	--	
	11/10/03	--	< 18	--	--	< 10	< 0.047	< 1.1	10.36	10.28	0.095	2	13	--	
	02/17/04	--	--	--	--	--	--	--	7.54	8.83	0.265	7.76	179.5	--	
	05/20/04	--	--	--	--	16	0.2 Q	3.2	10	9.53	0.101	1.06	4	--	
	08/24/04	--	--	--	--	--	--	--	7.43	14.4	0.317	4.41	319	--	
	11/24/04	--	--	--	--	< 10	0.14 Q	3.8	8.35	12.39	3	1.96	180	--	
	02/25/05	--	--	--	--	--	--	--	8.68	7.46	0.32	2.64	132	--	
	05/19/05	--	--	--	--	< 10	0.16 Q	4.9	7.19	9.24	0.29	3.55	167	--	
	08/09/05	--	--	--	--	--	--	--	8.9	14.52	0.29	3.16	62	--	
	12/13/05	--	--	--	--	< 10	0.13 Q	4.3	7.21	11.75	0.35	3.3	33	--	
	03/08/06	--	--	--	--	--	--	--	7.75	9.58	0.38	2.62	-246	--	
	06/26/06	--	--	--	--	< 10	0.21 Q	5.1	6.57	11.44	0.536	1.88	79	--	
	09/26/06	--	--	--	--	--	--	--	7.17	16.25	0.316	--	-229.5	--	
	12/13/06	--	--	--	--	< 10	0.16 Q	3.9	6.99	11.25	0.28	4.2	-390	--	
	03/29/07	--	--	--	--	--	--	--	7.8	7.52	0.199	9.47	16.9	--	
	06/18/07	--	--	--	--	< 10	< 0.096	3.1	8.12	11.64	0.231	2.94	-17	--	
	09/13/07	--	--	--	--	--	--	--	7.13	14.28	0.205	3.85	14.1	--	
	12/05/07	--	--	--	--	< 10	0.11 Q	3.3 Q	7.74	10.04	0.223	1.65	-65	--	
	04/02/08	--	--	--	--	--	--	--	7.58	9.72	0.211	4.03	-25	--	
	06/26/08	--	--	--	--	< 2	0.21 Q	3.6 Q	7.73	14.52	0.251	3.36	23	115	
	09/11/08	--	--	--	--	--	--	--	8.27	13.02	0.289	2.11	-27	7.1	
	12/18/08	--	--	--	--	< 2	< 0.096	3.2 Q	7.74	9.73	0.249	3.45	4	--	
	03/30/09	--	--	--	--	--	--	--	8.01	10.15	0.222	2.42	-24.5	-3.2	
	06/30/09	--	--	--	--	< 0.93	< 0.12	4.1 Q	7.77	11.88	0.262	3.1	22.2	4	
	09/29/09	--	--	--	--	--	--	--	11.71	11.95	0.236	3.46	-85	--	
	12/08/09	--	--	--	--	< 0.93	< 0.12	2.9 Q	8.16	11.51	0.212	2.81	-43	28	
	03/30/10	--	--	--	--	--	--	--	7.83	11.73	0.269	4.22	19	5.7	
	06/08/10	--	--	--	--	< 0.93	< 0.12	3.1 Q	8.04	11.18	0.232	4.02	42	8.2	
	09/08/10	--	< 8.3 Q	2.8 Q	--	--	--	--	8.85	13.91	0.224	1.57	-60	27.4	
	12/02/10	--	--	--	--	< 0.93	< 0.12	2.8 Q	8.16	11	0.203	1.82	-192	8.2	

Groundwater Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **FID# : 460134950** **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*Laboratory Parameters*							*Field Parameters*						*Comments*
		Alkalinity (mg/L)	*Iron - Dissolved (µg/L)*	*Manganese - Dissolved (µg/L)*	*Iron - Total (µg/L)*	*Methane (µg/L)*	*NO3 + NO2 (mg/L)*	*Sulfate (mg/L)*	*pH (SU)*	*Temperature (Degrees C)*	*Conductivity (mmhos/cm)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Turbidity (NTU)*	
Groundwater Screening Benchmarks															
Wisconsin Residential Water		NS	26000	300	26000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
PZ703															
	06/25/02	73	370	--	**27000**	--	< 0.023	4.7 Q	8.95	11.7	0.283	0.64	377	--	
	11/07/02	--	< 61	--	--	71	< 0.075	4.2	8.33	13.01	0.028	1.49	492	--	
	01/24/03	--	--	--	--	--	--	--	--	--	--	--	--	--	Quality probe could not fit in well
	04/15/03	--	--	--	--	--	--	--	9.08	7.28	0.687	2.25	249	--	
	07/01/03	--	100	--	--	230	< 0.047	4.3	9.99	9.91	0.204	2.51	130	--	
	09/30/03	--	--	--	--	--	--	--	8.61	10.6	0.32	--	--	--	
	11/10/03	--	< 18	--	--	53	< 0.047	4.7	10.68	9.94	0.162	4.82	-80	--	
	02/17/04	--	--	--	--	--	--	--	10.42	6.69	0.429	6.55	178	--	
	05/20/04	--	--	--	--	120	< 0.063	77	9.95	10.36	0.105	8.07	6	--	
	08/24/04	--	--	--	--	--	--	--	7.7	17.72	0.574	1.72	450	--	
	11/24/04	--	--	--	--	130	< 0.063	32	9.03	11.7	0.4	1.35	317	--	
	02/25/05	--	--	--	--	--	--	--	8.37	5.59	6.4	0.72	188	--	
	05/19/05	--	--	--	--	180	< 0.061	57	7.42	8.6	0.83	0.98	191	--	
	08/09/05	--	--	--	--	--	--	--	8.48	13.31	5.44	0.43	207	--	
	12/13/05	--	--	--	--	280	< 0.061	37	7.12	11.02	5.07	0.28	114	--	
	03/08/06	--	--	--	--	--	--	--	6.94	9.21	4.59	0.92	-299	--	
	06/26/06	--	--	--	--	470	< 0.11	29	6.77	16.21	3.5	0.42	134	--	
	09/26/06	--	--	--	--	--	--	--	6.93	15.51	2.515	--	-211.9	--	
	12/13/06	--	--	--	--	460	< 0.11	18	7.27	10	2.29	1.93	-61	--	
	03/29/07	--	--	--	--	--	--	--	8.39	6.22	1.163	7.17	-7.9	--	
	06/18/07	--	--	--	--	1100	< 0.096	13	10.28	12.57	1.356	1.09	-183	--	
	09/13/07	--	--	--	--	--	--	--	7.41	14.44	1.08	0.82	-172.2	--	
	12/05/07	--	--	--	--	380	< 0.096	10 Q	7.05	10.44	1.39	--	-151	--	
	04/02/08	--	--	--	--	--	--	--	8.06	9.28	5.31	0.81	-180	--	
	06/26/08	--	--	--	--	1170	< 0.096	17.5	8.75	15.9	2.63	0.25	-223	21.8	
	09/11/08	--	--	--	--	--	--	--	10.13	13.84	1.462	0.62	-192	0.2	
	12/18/08	--	--	--	--	1040	< 0.096	8.2	7.32	11.04	1.285	0.69	-55	--	
	03/30/09	--	--	--	--	--	--	--	8.53	9.08	1.038	0.08	-59.1	-3.6	
	06/30/09	--	--	--	--	2610	< 0.12	8.1	9.08	10.54	1.053	0.31	-203.1	-0.1	
	09/29/09	--	--	--	--	--	--	--	13.12	12.6	0.762	1.38	-298	18.5	
	12/08/09	--	--	--	--	1410	< 0.12	4.6	7.63	10.82	0.706	0.48	-222	24.1	
	03/30/10	--	--	--	--	--	--	--	9.01	10.49	1.225	1.59	-187.1	1.5	
	06/08/10	--	--	--	--	1620	< 0.12	12	7.56	11.49	3.28	0.52	-171	23.6	
	09/08/10	--	< 8.3 Q	0.64 Q	--	--	--	--	11.25	12.93	0.75	0.5	-264	48.7	
	12/02/10	--	--	--	--	1590	< 0.12	4.2	9.98	9.01	1.07	1.5	-283	16.1	

Groundwater Update
Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS# : 0260000095 **FID# : 460134950** **USEPA# : WIN000510058**

Sample ID	*Collection Date*	*Laboratory Parameters*							*Field Parameters*						*Comments*
		Alkalinity (mg/L)	*Iron - Dissolved (µg/L)*	*Manganese - Dissolved (µg/L)*	*Iron - Total (µg/L)*	*Methane (µg/L)*	*NO3 + NO2 (mg/L)*	*Sulfate (mg/L)*	*pH (SU)*	*Temperature (Degrees C)*	*Conductivity (mmhos/cm)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Turbidity (NTU)*	
Groundwater Screening Benchmarks															
Wisconsin Residential Water		NS	26000	300	26000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
QC01															
(MW705)	06/25/02	300	240	--	3200	--	< 0.023	91	8.7	10.85	1.232	4.75	403	--	
(MW708)	11/07/02	--	< 61	--	--	< 10	0.18 Q	67	--	--	--	--	--	--	
(MW709R)	07/01/03	--	830	--	--	17	0.13 Q	510	--	--	--	--	--	--	
(PZ702)	11/10/03	--	< 18	--	--	14	< 0.047	< 1.1	--	--	--	--	--	--	
(MW709R)	05/20/04	--	--	--	--	< 10	0.8	130	--	--	--	--	--	--	
(MW709R)	11/24/04	--	--	--	--	430	0.085	240	--	--	--	--	--	--	
(MW709R)	05/19/05	--	--	--	--	240	< 0.061	290	--	--	--	--	--	--	
(MW709R)	06/26/06	--	--	--	--	380	< 0.11	270	--	--	--	--	--	--	
(MW706)	12/13/06	--	--	--	--	< 10	0.45	800	--	--	--	--	--	--	
(MW708)	06/18/07	--	--	--	--	< 10	< 0.096	77	--	--	--	--	--	--	
(MW709R)	12/05/07	--	--	--	--	1600	--	--	--	--	--	--	--	--	
(MW701R)	06/26/08	--	--	--	--	5270	< 0.096	3.4 Q	--	--	--	--	--	--	
(PZ702)	12/18/08	--	--	--	--	< 2	< 0.096	3.2 Q	7.74	9.73	0.249	3.45	4	--	
(MW707R)	06/30/09	--	--	--	--	6000	< 0.12	42.8	--	--	--	--	--	--	
(MW709R)	12/08/09	--	--	--	--	1470	< 0.12	114	--	--	--	--	--	--	
(PZ702)	06/08/10	--	--	--	--	< 0.93	--	--	--	--	--	--	--	--	

Notes

1) Parameters that attain or exceed the Groundwater Screening Benchmarks are identified in bold and underlined.
2) The hierarchy for the Groundwater Screening Benchmarks is MCL, WI NR 140, RSL.
<2.0 : Parameter not detected above the Limit of Detection indicated.
ns : NR 140 standard not established
Q: Analyte result has been qualified, see laboratory analytical report for additional information.
QC: Quality Control duplicate sample.
--: Analysis not performed.

Table 5. Groundwater and Biosparge System Monitoring Schedule (2011)
Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site
Sheboygan, WI

	Mar-11	Jun-11	Sep-11	Dec-11
Biosparge System Monitoring				
Vent Monitoring				
BTEX (8021)	X		X	
PID	X	X	X	X
Sump Monitoring				
Water Level	X	X	X	X
Groundwater Monitoring				
Monitoring Wells				
BW-6		G		G
MW-701R	F	CG	F	CG
PZ-701	F	CG	F	CG
MW-706	F	CG	F	CG
PZ-702	F	CG	F	CG
MW-707R	F	CG	F	CG
PZ-703	F	CG	F	CG
MW-705	W	W	W	W
MW-708	F	CG	F	CG
MW-709R	F	CG	F	CG
SG-703 (staff gauge)	W	W	W	W
Field Parameters				
Water Quality	X	X	X	X
Water Levels	X	X	X	X
Geochemical Parameters				
Nitrogen, Nitrate, Nitrite (EPA 353.2)		X		X
Methane (SW846 8015)		X		X
Sulfate (EPA 300)		X		X
Contaminant Parameters				
BTEX (SW846 8260B)		X		X
PAHs (SW846 8270C)		X		X

Notes:

1. X - Indicates planned site visit, scheduled activity or sample collected during that visit.
2. F - Field parameters only includes water level and flow through cell to measure field parameters.
3. W - Water level only.
4. G - Geochemical parameters
5. C - Contaminant parameters
6. Water quality parameters will only be collected from monitoring wells that do not contain coal tar as observed during that monitoring event.
7. Water quality parameters include dissolved oxygen, pH, temperature, specific conductance oxidation / reduction potential, and turbidity.

APPENDIX A

2010 LABORATORY ANALYTICAL REPORTS AND FIELD FORMS

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

April 12, 2010

Heather Simon
Natural Resource Technology
23713 West Paul Road
Unit D
Pewaukee, WI 53072

RE: Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4030110

Dear Heather Simon:
Enclosed are the analytical results for sample(s) received by the laboratory on April 02, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC 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: Brian Hennings, NATURAL RESOURCE TECHNOLOGY

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CERTIFICATIONS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4030110

Green Bay Certification IDs
1241 Bellevue Street Green Bay, WI 54302
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
North Dakota Certification #: R-150
North Carolina Certification #: 503
California Certification #: 09268CA
New York Certification #: 11887
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04168
Kentucky Certification #: 82
Illinois Certification #: 200050
Florida/NELAP Certification #: E87948
New York Certification #: 11888

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SAMPLE SUMMARY

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4030110

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4030110001	**031010001**	Air	03/30/10 00:00	04/02/10 07:45
4030110002	**TRIP**	Air	03/30/10 00:00	04/02/10 07:45

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SAMPLE ANALYTE COUNT

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4030110

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4030110001	**031010001**	EPA 8021	PMS	6	PASI-G
4030110002	**TRIP**	EPA 8021	PMS	6	PASI-G

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PROJECT NARRATIVE

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4030110

Method: **EPA 8021**
Description: 8021 GCV Impingers
Client: Natural Resources Technologies
Date: April 12, 2010

General Information:
2 samples were analyzed for EPA 8021. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5030 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4030110

Sample: 031010001 **Lab ID: 4030110001** Collected: 03/30/10 00:00 Received: 04/02/10 07:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Impingers	Analytical Method: EPA 8021 Preparation Method: EPA 5030								
Benzene	**<0.040**	ug/L	0.30	0.040	50	04/08/10 11:23	04/09/10 13:04	71-43-2	
Ethylbenzene	**<0.053**	ug/L	0.75	0.053	50	04/08/10 11:23	04/09/10 13:04	100-41-4	
Toluene	**<0.089**	ug/L	0.75	0.089	50	04/08/10 11:23	04/09/10 13:04	108-88-3	
m&p-Xylene	**<0.056**	ug/L	1.5	0.056	50	04/08/10 11:23	04/09/10 13:04	1330-20-7	
o-Xylene	**<0.032**	ug/L	0.75	0.032	50	04/08/10 11:23	04/09/10 13:04	95-47-6	
a,a,a-Trifluorotoluene (S)	85	%-	69-146		50	04/08/10 11:23	04/09/10 13:04	98-08-8	

Sample: TRIP **Lab ID: 4030110002** Collected: 03/30/10 00:00 Received: 04/02/10 07:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Impingers	Analytical Method: EPA 8021 Preparation Method: EPA 5030								
Benzene	**<0.040**	ug/L	0.30	0.040	50	04/08/10 11:23	04/09/10 13:30	71-43-2	
Ethylbenzene	**<0.053**	ug/L	0.75	0.053	50	04/08/10 11:23	04/09/10 13:30	100-41-4	
Toluene	**<0.089**	ug/L	0.75	0.089	50	04/08/10 11:23	04/09/10 13:30	108-88-3	
m&p-Xylene	**<0.056**	ug/L	1.5	0.056	50	04/08/10 11:23	04/09/10 13:30	1330-20-7	
o-Xylene	**<0.032**	ug/L	0.75	0.032	50	04/08/10 11:23	04/09/10 13:30	95-47-6	
a,a,a-Trifluorotoluene (S)	77	%-	69-146		50	04/08/10 11:23	04/09/10 13:30	98-08-8	

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QUALITY CONTROL DATA

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4030110

QC Batch: GCV/4831
QC Batch Method: EPA 5030
Analysis Method: EPA 8021
Analysis Description: 8021 Impingers
Associated Lab Samples: 4030110001, 4030110002

METHOD BLANK: 283939
Matrix: Air
Associated Lab Samples: 4030110001, 4030110002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.040	0.30	04/09/10 08:46	
Ethylbenzene	ug/L	<0.053	0.75	04/09/10 08:46	
m&p-Xylene	ug/L	<0.056	1.5	04/09/10 08:46	
o-Xylene	ug/L	<0.032	0.75	04/09/10 08:46	
Toluene	ug/L	<0.089	0.75	04/09/10 08:46	
a,a,a-Trifluorotoluene (S)	%-	102	69-146	04/09/10 08:46	

LABORATORY CONTROL SAMPLE & LCSD: 283940 283941

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	15	14.1	13.3	94	89	80-120	6	20	
Ethylbenzene	ug/L	15	14.7	14.1	98	94	80-120	4	20	
m&p-Xylene	ug/L	30	29.0	27.7	97	92	80-120	5	20	
o-Xylene	ug/L	15	14.5	14.0	97	93	80-120	3	20	
Toluene	ug/L	15	14.6	13.9	98	93	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%-				103	100	69-146			

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QUALIFIERS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4030110

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.

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

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Sample Control Log

Project Name: WPSC Campmarina MGP Site

Project ID: 1313 / CERCLIS ID WIN000510058

Task ID: 6.4

Analytical Laboratory: Pace Analytical, Green Bay, WI

Geotechnical Laboratory: N/a

Field Staff ID(s): Sarah Grunwaldt

Month (2-digit)	Date (2-digit)	Year (2-digit)	Sample Number (3-digit)	Unique Sample ID	Sample Media	Sample Location	Sample Depth (feet)	QC Sample Information (duplicate, blank, etc...)	COC Number	Notes (turnaround time, handling notes
03	30	10	001	033010001	AIR	INTERIOR Shelter	N/a	N/a	100330001	Standard TAT & TRIP BLANK

March 30 2010 SCL

1313-SCL-002
SCL

NATURAL RESOURCE TECHNOLOGY

WELL CONDITION FIELD FORM

Site : WPSC Campmarina MGP Site
Project # : 1313 / CERCLIS ID WIN000510058
Task # : 614

Date : March 30, 2010
Samplers : Sarah Gansworth

	EVERY SAMPLING EVENT									AT LEAST ONCE A YEAR			
Location	Surface Seal	Lid	Gasket	Lock	Cap	Protection (bumper posts, etc.)	Bailer	Pump	Well Casing	Expected Well Depth (feet)	Field Measured Well Depth (feet)	Well Base Sediment Thickness (feet)	Field Comments:
PZ-701	G	G	G	G	G	NA	Na	NA	G	33.65			—
MW-701R	G	G	G	G	G	NA	Na	NA	G	12.40			—
PZ-702	G	G	G	G	G	NA	Na	NA	G	47.35			—
PZ-703	G	P	G	G	G	NA	Na	NA	G	33.28			CAP/LID "off"
MW-705	G	G	G	G	G	NA	Na	NA	G	16.76			Water level only possible impact well
MW-706	G	G	G	G	G	NA	Na	NA	G	13.50			
MW-707R	G	G	G	G	G	NA	Na	NA	G	11.89			—
MW-708	G	G	G	G	G	NA	~~NA~~	NA	G	18.95			—
MW-709R	G	G	G	G	G	NA	Na	NA	G	15.58			—
BW-6	G	G	G	G	G	NA	Na	NA	G	23.00			—
							March 30 2010 SAG						

P : Poor - Potential or Evident Sample Integrity Issues (additional comments required, picture(s) desirable)
F ; Fair - Future Sample Integrity May Be Compromised if Well Repair/Upgrade Is Not Undertaken (additional comments required, picture(s) desirable)
G : Good (additional comments not required)
n/a : Not Applicable

WELL LEVEL AND FIELD PARAMETERS FIELD FORM

General Information

Site : WPSC Campmarina MGP
Project # : 1313 / CERCLIS ID WIN000510058
Task # : 6.4
Date : March 30 2010
Samplers : Sarah Gansweide

Water Level Indicator Serial # : Heron
Purge Device and Serial # : GeoPump
Quality Probe Type and Serial # : QED MP20
Calibration Check : March 30 2010 12:10 PM (AK)

Location	Time (military)	Depth to Water (feet below TOC)	Product Top Depth (feet below TOC)	Product Bottom Depth (feet below TOC)	Product Notes	Time (military)	pH (su)	Conductivity (us/cm)	Temperature (°C)	Oxidation/Reduction Potential (ORP) (mV)	Turbidity (NTU)	Dissolved Oxygen (DO) (mg/L)	Field Comments:
PZ-701		6.15	Na	Na	Na	Na							None
MW-701R		6.30	Na	Na	Na	Na							
PZ-702		7.13	Na	Na	Na	Na							
PZ-703 *		5.23	Na	Na	Na	Na							
MW-705		6.41	Na	Na	Na	Na							
MW-706		7.96	Na	Na	Na	Na							
MW-707R *		4.38	Na	Na	Na	Na							
MW-708		6.38	Na	Na	Na	Na							
MW-709R	8:59 AM	5.48	n/a	Na	Na	n/a							
BW-6		11.12	Na	Na	Na	Na							
Sump	8:20 AM	5.00	Na	Na	Na	Na							
Staff Gauge	8:25 AM	4.00	Na	Na	Na	Na							
						March 30 2010 SAG							

n/a : Not Applicable nm : Not Measured TOC: Top of Well Casing

P:\1500\1515\Field Documentation\1313-Camp Marine Sheboygan\Field Notebook 002-needs edits\1313-WLFP-002 Front

Natural Resource Technology

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #:
Start Date: March 30 2010 Time: 1230
Field Personnel: Sarah Crosby
Finish Date: March 30 2010 Time: 1248

WELL INFORMATION

Well ID: **PZ-701**
Casing ID: 2 Inches
Screen Interval: 23.65-33.65
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump 9022
Tube/Pump Intake Depth: ~31.65
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	na	na	na
Groundwater	6.15	1230	6.26	1248
DNAPL	na	na	na	na
Casing Base	N/A	na	na	na

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: na feet
1 Well Volume: na Gallons 3 Well Volumes: na Gallons
5 Well Volumes: na Gallons 10 Well Volumes: na Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1230	0	6.15	NA	10.37	7.38	0.340	7.10	33.2	-77.4	clear
purge	1234	800	6.23	0.08	10.32	7.40	0.336	5.42	54.2	-63.1	cloudy
	1239	200	6.25	0.02	10.36	7.39	0.328	3.18	31.1	-60.2	clear
	1242	0	6.25	0.00	10.30	7.39	0.329	1.01	49.8	-59.8	cloudy
	1245	0	6.25	0.00	10.33	7.40	0.324	0.97	22.3	-57.2	clear
	1248	100	6.26	0.01	10.32	7.39	0.324	0.94	19.1	-57.2	clear
											clear

NOTES

None

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #:
Start Date: March 30 2010 Time: —
Field Personnel: Sarah Brauwinde
Finish Date: March 30 2010 Time: —

WELL INFORMATION

Well ID: PZ-701
Casing ID: 2 inches

EVENT TYPE

☐ Well Development
☒ Low-Flow / Low Stress Sampling
☐ Well Volume Approach Sampling
☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity

March 30 2010 SAS

NOTES (continued)

Name

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: March 30 2010 Time: 1305
Field Personnel: [illegible]
Finish Date: March 30 2010 Time: 1334

WELL INFORMATION

Well ID: MW-701R
Casing ID: 2 Inches
Screen Interval: 7.40-12.40
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump 9022
Tube/Pump Intake Depth: 10.40
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	na	na	na
Groundwater	6.30	1305	6.47	1334
DNAPL	na	na	na	na
Casing Base	na	na	na	na

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: N/A feet
1 Well Volume: na Gallons 3 Well Volumes: na Gallons
5 Well Volumes: na Gallons 10 Well Volumes: na Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # MP 20 QTD

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1305	0	6.30	NA	10.98	6.28	1,888	5.82	69.1	-169.1	Clear
purge	1308	1,000	6.38	.08	10.90	6.22	1,878	4.33	69.2	-171.3	Clear
	1313	500	6.42	.04	10.83	6.21	1,823	3.27	44.3	-183.2	Clear
	1317	250	6.44	0.02	10.72	6.21	1,810	2.10	40.1	-168.7	Clear
	1321	250	6.46	0.02	10.69	6.20	1,802	1.55	31.8	-164.2	Clear
	1324	0	6.46	0.00	10.68	6.20	1,800	1.27	22.1	-160.1	Clear
	1328	0	6.46	0.00	10.67	6.21	1,803	1.20	20.3	-159.8	Clear
	1334	125	6.47	0.01	10.67	6.20	1,803	1.19	19.9	-159.9	Clear

NOTES

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin Client: WPSC

Project Number: 1313 Task #: 1.4 Start Date: March 30 2010 Time:

Field Personnel: [illegible] Finish Date: Time:

WELL INFORMATION

Well ID: MW-701R

Casing ID: 2 inches

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity

March 30 2010

NOTES (continued)

none

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: March 30, 2018 Time: 1000
Field Personnel: Sarah Jonsen
Finish Date: March 30, 2018 Time: 1014

WELL INFORMATION

Well ID: PZ-702
Casing ID: 2 Inches
Screen Interval: 37.35-47.35
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump 9022
Tube/Pump Intake Depth: 45.00
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	na	na	na
Groundwater	7.13	1000am	7.29	1014
DNAPL	na	na	na	na
Casing Base	na	na	na	na

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: na feet
1 Well Volume: na Gallons 3 Well Volumes: na Gallons
5 Well Volumes: na Gallons 10 Well Volumes: na Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: HERON
Water Quality Probe Type and Serial # MP20 QED

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1000am	0	7.13	0	11.62	7.90	0.299	6.88	13.7	36.3	Clear
purge	1004	270	7.16	0.03	11.69	7.88	0.293	4.51	6.4	25.4	Clear
↓	1008	540	7.19	0.03	11.70	7.85	0.277	4.23	5.3	20.8	Clear
	1011	675	7.25	0.06	11.73	7.84	0.270	4.20	5.8	19.2	Clear
	1014	810	7.29	0.04	11.73	7.83	0.269	4.22	5.7	19.0	Clear Beep

NOTES

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
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ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 2014
Start Date: March 30, 2010
Time:
Field Personnel: Sarah Carnow
Finish Date:
Time:

WELL INFORMATION

Well ID: PZ-702
Casing ID: 2 inches

EVENT TYPE

- ☐ Well Development
- ☐ Well Volume Approach Sampling
- ☒ Low-Flow / Low Stress Sampling
- ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity

March 30 2010

NOTES (continued)

None

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
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ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: March 30 2010 Time: 1120
Field Personnel: Sarah Carlson, Rob
Finish Date: March 30 2010 Time: 1137

WELL INFORMATION

Well ID: PZ-703
Casing ID: 2 Inches
Screen Interval: 23.28-33.28
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED pump 9022
Tube/Pump Intake Depth: 32.28
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	na	na	na
Groundwater	5.23	1120	5.43	1137
DNAPL	na	na	na	na
Casing Base	na	na	na	na

Water Level Serial #: Heron

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: na feet
1 Well Volume: na Gallons 3 Well Volumes: na Gallons
5 Well Volumes: na Gallons 10 Well Volumes: na Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Quality Probe Type and Serial # QED MP 20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed mls (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen mg/L	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1120	0	5.23	na	10.38	9.08	1,444	4.38	10.2	-153.0	Clear
purge	1124	250	5.27	0.04	10.42	8.93	1,492	2.01	6.3	-161.8	
↓	1129	500	5.32	0.05	10.44	9.00	1,221	1.93	1.3	-183.3	
	1133	500	5.37	0.05	10.48	9.01	1,223	1.60	1.5	-189.2	
↓	1137	700	5.43	0.06	10.49	9.01	1,225	1.59	1.5	-187.1	↓ Clear Beep

NOTES

Slight odor (?)
Metal Well Lid in Shed.

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
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ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313 Task #
Start Date: March 30 2010 Time:
Field Personnel: Finish Date: Time:

WELL INFORMATION

Well ID: PZ-703
Casing ID: 2 inches

EVENT TYPE

- ☐ Well Development
- ☐ Well Volume Approach Sampling
- ☒ Low-Flow / Low Stress Sampling
- ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity

March 30 2010

NOTES (continued)

Done

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: March 30 2010 Time: 1025
Field Personnel: Derek Gansen, DS
Finish Date: March 30 2010 Time: 1039

WELL INFORMATION

Well ID: MW-706
Casing ID: 2 Inches
Screen Interval: 3.50-13.50
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump 9022
Tube/Pump Intake Depth: 11.50
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	n/a	n/a	n/a	n/a
Groundwater	7.96	10.25	8.13	1039
DNAPL	n/a	n/a	n/a	n/a
Casing Base	n/a	n/a	n/a	n/a

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: n/a
Standing Water Column: n/a feet
1 Well Volume: n/a Gallons
3 Well Volumes: n/a Gallons
5 Well Volumes: n/a Gallons
10 Well Volumes: n/a Gallons
Total Volumes Produced: n/a Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # QED MP 20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (mLs gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1025	0	7.96	NA	11.44	6.98	1.055	6.22	6.4	-103.5	Clear x ODOR
purge	1028	800	8.03	0.07	11.52	6.90	1.059	3.33	5.4	-110.2	Clear
↓	1032	300	8.06	0.03	11.61	6.83	1.075	2.51	1.9	-111.9	Clear
	1036	400	8.10	0.04	11.66	6.86	1.079	2.58	1.8	-110.2	Clear
↓	1039	300	8.13	0.03	11.66	6.85	1.083	2.57	1.2	-113.1	Clear Beg

NOTES

No visual product or sheen ODOR

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
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ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313 Task #: 6.4
Start Date: March 30 2010 Time: —
Field Personnel: Jack Connaughton
Finish Date: March 30 2010 Time: —

WELL INFORMATION

Well ID: MW-706
Casing ID: 2 inches

EVENT TYPE

☐ Well Development
☒ Low-Flow / Low Stress Sampling
☐ Well Volume Approach Sampling
☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity

March 30 2010 BAT

NOTES (continued)

none

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: March 30 2016 Time: 10.45
Field Personnel: Sarah Jonsen, [illegible]
Finish Date: March 30 2016 Time: 11.09

WELL INFORMATION

Well ID: MW-707R
Casing ID: 2 Inches
Screen Interval: 1.89-11.89
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump 9022
Tube/Pump Intake Depth: 9.89
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	na	na	na
Groundwater	4.32	1045	4.53	1109
DNAPL	na	na	na	na
Casing Base	na	na	na	na

Water Level Serial #: Heron

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: na feet
1 Well Volume: na Gallons 3 Well Volumes: na Gallons
5 Well Volumes: na Gallons 10 Well Volumes: na Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No
Water Quality Probe Type and Serial # YSI ProDSS

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1045	0	4.32	NA	11.50	7.07	1,302	6.58	38.1	-189.3	clear
purge	1049	600	4.38	0.06	11.62	7.17	1,273	3.21	22.3	-180.9	clear
	1100	200	4.40	0.02	11.73	7.08	1,278	2.20	12.4	-173.2	
	1103	300	4.45	0.05	11.76	7.06	1,279	1.78	9.1	-160.8	
	1106	300	4.48	0.03	11.78	7.07	1,276	1.09	2.3	-162.2	
	1109	300	4.53	0.05	11.77	7.04	1,275	1.06	0.2	-161.9	Clear Beep

NOTES

SI: SRO

ABBREVIATIONS

Cond. - Actual Conductivity
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nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin Client: WPSC

Project Number: 1313 Task #: 4.4 Start Date: march 30 2010 Time: —

Field Personnel: Scott Crossen, JDS Finish Date: march 30 2010 Time: —

WELL INFORMATION

Well ID: MW-707R

Casing ID: 2 inches

EVENT TYPE

☐ Well Development ☒ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (~~µs/cm~~)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity

march 30 2010

NOTES (continued)

Done

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: March 30 2018 Time: 935
Field Personnel: Sarah Gaesser, Rob
Finish Date: March 30 2018 Time: 950

WELL INFORMATION

Well ID: MW-708
Casing ID: 2 inch Inches
Screen Interval: 3.95-18.95
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump 9022
Tube/Pump Intake Depth: 16.95
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	Na	Na	Na	Na
Groundwater	6.38	935	6.60	950
DNAPL	Na	Na	Na	Na
Casing Base	Na	Na	Na	Na

Water Level Serial #: Heron

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: Na
Standing Water Column: Na feet
1 Well Volume: Na Gallons 3 Well Volumes: Na Gallons
5 Well Volumes: Na Gallons 10 Well Volumes: Na Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Quality Probe Type and Serial # YSI ProPlus

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	935	0	6.38	NA	12.01	7.31	2.644	7.98	28.8	1.9	clear
purge	940	500	6.43	0.05	11.64	7.28	2.631	5.43	19.2	11.3	clear
	943	400	6.47	0.04	11.67	7.19	2.625	5.22	8.9	12.9	clear
	946	700	6.54	0.07	11.70	7.13	2.619	5.10	8.8	13.6	clear
	948	400	6.58	0.04	11.72	7.14	2.618	5.16	8.8	14.9	clear
	950	200	6.60	0.02	11.74	7.14	2618	5.15	8.7	15.2	clear Beep

NOTES

None

10.38

ABBREVIATIONS

Cond. - Actual Conductivity
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Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: March 30 2010 Time:
Field Personnel: Zach Canaway
Finish Date: March 30 2010 Time:

WELL INFORMATION

Well ID: MW-708
Casing ID: inches

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity

March 30 2010

NOTES (continued)

None

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: March 30 2010 Time: 8:59
Field Personnel: Sarah Garswindt
Finish Date: March 30 2010 Time: 9:20

WELL INFORMATION

Well ID: MW-709R
Casing ID: 2 Inches
Screen Interval: 5.58-15.58
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump 9022
Tube/Pump Intake Depth: 13.58
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	Na	Na	Na	Na
Groundwater	5.48	8:59	5.50	9:20
DNAPL	Na	Na	Na	Na
Casing Base	Na	Na	Na	Na

Water Level Serial #: HERON 9020

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: Na
Standing Water Column: Na feet
1 Well Volume: Na Gallons 3 Well Volumes: Na Gallons
5 Well Volumes: Na Gallons 10 Well Volumes: Na Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Quality Probe Type and Serial # YSI MP20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	8:59	0	5.48	N/A	13.48	6.83	1.833	5.46	4.0	-63.1	clear
purge	9:03	100	5.49	0.01	13.03	6.89	1.840	4.23	7.7	-55.4	clear
↓	9:06	0	5.49	0.00	13.28	6.85	1.862	4.00	7.4	-59.8	clear
↓	9:10	100	5.50	0.01	13.36	6.88	1.866	3.50	3.5	-60.2	clear
↓	9:13	0	5.50	0.00	13.40	6.89	1.866	2.83	1.9	-61.4	clear
↓	9:17	100	5.51	0.01	13.41	6.89	1.863	2.84	0.6	-63.3	clear
final	9:20	0	5.50	0.00	13.42	6.89	1.860	2.84	0.6	-64.5	clear

Bleep

NOTES

* NO ODOR

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: March 30 2010 Time: 859
Field Personnel: Sarah Carswell
Finish Date: March 30 2010 Time: 929

WELL INFORMATION

Well ID: MW-709R
Casing ID: 2 inches

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity

March 30 2010 SAE

NOTES (continued)

None

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: March 30 2010 Time: 1150
Field Personnel: Scott Cumbee mds
Finish Date: March 30 2010 Time: 1209

WELL INFORMATION

Well ID: BW-6
Casing ID: 2 Inches
Screen Interval: 20.5-23.00
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☐ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump 9022
Tube/Pump Intake Depth: 22.00
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	na	na	na
Groundwater	11.12	1150	11.24	1209
DNAPL	na	na	na	na
Casing Base	na	na	na	na

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: na feet
1 Well Volume: na Gallons 3 Well Volumes: na Gallons
5 Well Volumes: na Gallons 10 Well Volumes: na Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # QED MP 20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (mls gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Initial	1150	0	11.12	N/A	10.93	8.03	0.777	6.91	200.0	-43.0	Clear - Slightly C/C
purge	1154	600	11.18	0.06	10.87	7.81	0.763	5.42	175.1	-38.5	Clear - Slightly
	1157	100	11.19	0.01	10.76	7.76	0.750	3.61	120.6	-29.8	Slightly Cloudy
	1200	0	11.19	0.00	10.64	7.75	0.750	2.13	100.3	-20.2	Clear
	1205	100	11.20	0.01	10.62	7.76	0.768	1.84	98.2	-20.5	Clear
	1209	400	11.24	0.04	10.61	7.76	0.767	1.80	97.0	-20.7	Clear Beep

NOTES

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin Client: WPSC

Project Number: 1313 Task #: 06.04 Start Date: March 30 2010 Time:

Field Personnel: Sarah Comowicz Finish Date: Time:

WELL INFORMATION

Well ID: BW-6

Casing ID: inches

EVENT TYPE

- ☐ Well Development
- ☐ Well Volume Approach Sampling
- ☒ Low-Flow / Low Stress Sampling
- ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity

March 30 2010

NOTES (continued)

none

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

CHAIN-OF-CUSTODY COPIES ONLY Original COCs must be filed in accordance with NRT Data Management Policies.	
	Derek A Carswell
	March 30, 2010

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Harrisburg, PA 17112
E-Mail: equipmentsup@saic.com

RENTALS: 800-739-7706
717-901-8891
SUPPLIES: 717-901-8894
FAX: 717-901-8114

CERTIFICATE OF INSTRUMENT CALIBRATION
SAIC ASSET#16369

This is to certify that the QED MP20, Serial Number# **QDO3376** was calibrated with the fluid listed below using the calibration procedure in the manual.

Turbidity:	0.0 NTU using AutoCal Solution
Conductivity:	4.490 mS/cm using AutoCal Solution
3 Point pH Calibration:	pH 4.00 pH 7.00 pH10.00
Dissolved Oxygen:	Calibrated using ambient air.

As long as the instrument reads to the standards it is calibrated to, according to the procedure outlined in the Operator's Manual, the instrument is performing correctly.

I have inspected the operation, calibration, and appearance of this instrument and approve it for meeting the specified range of calibration.

APPROVED BY: Casey J. Kornotto

DATE: 03/26/10

DISCLAIMER: Any adjustments made to this instrument with out proper knowledge of calibration procedures and calibration solutions will void the preset calibration and readings. This certificate will no longer be valid and Benham/Equipment and Supply WILL NOT be responsible.

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

clam 100330001

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Natural Resource Tech.
Branch/Location:	Pewaukee WI
Project Contact:	Heather Simon
Phone:	262-523-9000
Project Number:	1313
Project Name:	Camp Marina Former MGP
Project State:	WI
Sampled By (Print):	Scott A. Goswick
Sampled By (Sign):	
PO #:	1313
Regulatory Program:	

Quote #:	IBS PO 3400002393
Mail To Contact:	Jody Barbeau
Mail To Company:	Natural Resource Tech
Mail To Address:	2373 W. Paul Road Pewaukee WI 53072
Invoice To Contact:	Accounts Payable
Invoice To Company:	Integrys Business Support
Invoice To Address:	PO Box 19800 Green Bay, WI 54307-9864
Invoice To Phone:	920-433-2929

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☒ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

FILTERED? (YES/NO): Y/N = N
PRESERVATION (CODE)*: Pick Letter = F
Analysis Requested: BTEX (8021)

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX			CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	031010 001	3/30/10		A		X		1-40ml F	
002	TRIP	↓		A		X		↓	

Custody Seal # 103003002
Custody Seal # 103003003

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit ~~Prelim Rush~~ Results by (complete what you want):

Email #1:	JBARbeau(AT)
Email #2:	NATURALRT.COM
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	4/1/10 1045	[signature]	4/1/10 1045
[signature]	4/1/10 1700		
CS Logistics	4/2/10 0745	K. Meike	4/2/10 0745

PACE Project No.: 4030110

Receipt Temp = 3.0 °C

Sample Receipt pH ~~OK / Adjusted~~

Cooler Custody Seal: Present / Not Present (Present) — Intact / Not Intact

Version 8.0 06/14/08

(27Jun[illegible])

FINAL

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June 22, 2010

Heather Simon
Natural Resource Technology
23713 West Paul Road
Unit D
Pewaukee, WI 53072

RE: Project: CAMP MARINA
Pace Project No.: 4033015

Dear Heather Simon:
Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC 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

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CERTIFICATIONS

Project: CAMP MARINA
Pace Project No.: 4033015

Green Bay Certification IDs
1241 Bellevue Street Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: CAMP MARINA
Pace Project No.: 4033015

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4033015001	**060810001**	Water	06/08/10 00:00	06/10/10 09:00
4033015002	**060810002**	Water	06/08/10 00:00	06/10/10 09:00
4033015003	**060810003**	Water	06/08/10 00:00	06/10/10 09:00
4033015004	**060810004**	Water	06/08/10 00:00	06/10/10 09:00
4033015005	**060810005**	Water	06/08/10 00:00	06/10/10 09:00
4033015006	**060810006**	Water	06/08/10 00:00	06/10/10 09:00
4033015007	**060810007**	Water	06/08/10 00:00	06/10/10 09:00
4033015008	**060810008**	Water	06/08/10 00:00	06/10/10 09:00
4033015009	**060810009**	Water	06/08/10 00:00	06/10/10 09:00
4033015010	**060810010**	Water	06/08/10 00:00	06/10/10 09:00
4033015011	**TRIP BLANK**	Water	06/08/10 00:00	06/10/10 09:00

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SAMPLE ANALYTE COUNT

Project: CAMP MARINA
Pace Project No.: 4033015

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4033015001	**060810001**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4033015002	**060810002**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4033015003	**060810003**	EPA 8015B Modified	SES	1	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4033015004	**060810004**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4033015005	**060810005**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	9	PASI-G
4033015006	**060810006**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4033015007	**060810007**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4033015008	**060810008**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4033015009	**060810009**	EPA 8015B Modified	SES	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: CAMP MARINA
Pace Project No.: 4033015

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4033015010	**060810010**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4033015011	**TRIP BLANK**	EPA 8260	HNW	9	PASI-G

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PROJECT NARRATIVE

Project: CAMP MARINA
Pace Project No.: 4033015

Method: **EPA 8015B Modified**
Description: Methane, Ethane, Ethene GCV
Client: NATURAL RESOURCE TECHNOLOGY
Date: June 22, 2010

General Information:
10 samples were analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CAMP MARINA
Pace Project No.: 4033015

Method: **EPA 8270 by SIM**
Description: 8270 MSSV PAH by SIM
Client: NATURAL RESOURCE TECHNOLOGY
Date: June 22, 2010

General Information:
9 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/7517

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

- 060810006 (Lab ID: 4033015006)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- 060810007 (Lab ID: 4033015007)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- 060810008 (Lab ID: 4033015008)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- 060810010 (Lab ID: 4033015010)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: CAMP MARINA
Pace Project No.: 4033015

Method: **EPA 8270 by SIM**
Description: 8270 MSSV PAH by SIM
Client: NATURAL RESOURCE TECHNOLOGY
Date: June 22, 2010

QC Batch: OEXT/7517

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4033015009

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 313895)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Acenaphthylene
  - Naphthalene
  - Phenanthrene
- MSD (Lab ID: 313896)
  - Naphthalene

R1: RPD value was outside control limits.

- MSD (Lab ID: 313896)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Acenaphthylene
  - Fluorene
  - Naphthalene
  - Phenanthrene
  - Pyrene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CAMP MARINA
Pace Project No.: 4033015

Method: **EPA 8260**
Description: 8260 MSV UST
Client: NATURAL RESOURCE TECHNOLOGY
Date: June 22, 2010

General Information:
10 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CAMP MARINA
Pace Project No.: 4033015

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: NATURAL RESOURCE TECHNOLOGY
Date: June 22, 2010

General Information:
9 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CAMP MARINA
Pace Project No.: 4033015

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: NATURAL RESOURCE TECHNOLOGY
Date: June 22, 2010

General Information:
9 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CAMP MARINA
Pace Project No.: 4033015

Sample: 060810001 **Lab ID: 4033015001** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**2000**	ug/L	56.0	18.5	20		06/16/10 10:33	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**<0.0048**	ug/L	0.050	0.0048	1	06/15/10 07:00	06/15/10 15:34	83-32-9	
Acenaphthylene	**<0.0038**	ug/L	0.050	0.0038	1	06/15/10 07:00	06/15/10 15:34	208-96-8	
Anthracene	**0.020J**	ug/L	0.050	0.0061	1	06/15/10 07:00	06/15/10 15:34	120-12-7	
Benzo(a)anthracene	**<0.0038**	ug/L	0.050	0.0038	1	06/15/10 07:00	06/15/10 15:34	56-55-3	
Benzo(a)pyrene	**<0.0030**	ug/L	0.050	0.0030	1	06/15/10 07:00	06/15/10 15:34	50-32-8	
Benzo(b)fluoranthene	**<0.0036**	ug/L	0.050	0.0036	1	06/15/10 07:00	06/15/10 15:34	205-99-2	
Benzo(g,h,i)perylene	**<0.0051**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 15:34	191-24-2	
Benzo(k)fluoranthene	**<0.0046**	ug/L	0.050	0.0046	1	06/15/10 07:00	06/15/10 15:34	207-08-9	
Chrysene	**<0.0037**	ug/L	0.050	0.0037	1	06/15/10 07:00	06/15/10 15:34	218-01-9	
Dibenz(a,h)anthracene	**<0.0034**	ug/L	0.050	0.0034	1	06/15/10 07:00	06/15/10 15:34	53-70-3	
Fluoranthene	**<0.0047**	ug/L	0.050	0.0047	1	06/15/10 07:00	06/15/10 15:34	206-44-0	
Fluorene	**<0.0051**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 15:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0050**	ug/L	0.050	0.0050	1	06/15/10 07:00	06/15/10 15:34	193-39-5	
1-Methylnaphthalene	**<0.0053**	ug/L	0.050	0.0053	1	06/15/10 07:00	06/15/10 15:34	90-12-0	
2-Methylnaphthalene	**0.0060J**	ug/L	0.050	0.0041	1	06/15/10 07:00	06/15/10 15:34	91-57-6	
Naphthalene	**0.022J**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 15:34	91-20-3	B
Phenanthrene	**<0.0086**	ug/L	0.050	0.0086	1	06/15/10 07:00	06/15/10 15:34	85-01-8	
Pyrene	**<0.0050**	ug/L	0.050	0.0050	1	06/15/10 07:00	06/15/10 15:34	129-00-0	
2-Fluorobiphenyl (S)	44	%-	25-130		1	06/15/10 07:00	06/15/10 15:34	321-60-8	
Terphenyl-d14 (S)	91	%-	36-140		1	06/15/10 07:00	06/15/10 15:34	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		06/11/10 14:13	71-43-2	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		06/11/10 14:13	100-41-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		06/11/10 14:13	108-88-3	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		06/11/10 14:13	1330-20-7	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		06/11/10 14:13	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		06/11/10 14:13	95-47-6	
Dibromofluoromethane (S)	92	%-	70-134		1		06/11/10 14:13	1868-53-7	
Toluene-d8 (S)	96	%-	70-130		1		06/11/10 14:13	2037-26-5	
4-Bromofluorobenzene (S)	93	%-	69-130		1		06/11/10 14:13	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**123**	mg/L	20.0	10.0	5		06/22/10 02:19	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		06/18/10 13:20		

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ANALYTICAL RESULTS

Project: CAMP MARINA
Pace Project No.: 4033015

Sample: 060810002 **Lab ID: 4033015002** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**<0.93**	ug/L	2.8	0.93	1		06/16/10 08:07	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**<0.0048**	ug/L	0.050	0.0048	1	06/15/10 07:00	06/15/10 15:51	83-32-9	
Acenaphthylene	**<0.0038**	ug/L	0.050	0.0038	1	06/15/10 07:00	06/15/10 15:51	208-96-8	
Anthracene	**<0.0061**	ug/L	0.050	0.0061	1	06/15/10 07:00	06/15/10 15:51	120-12-7	
Benzo(a)anthracene	**<0.0038**	ug/L	0.050	0.0038	1	06/15/10 07:00	06/15/10 15:51	56-55-3	
Benzo(a)pyrene	**<0.0030**	ug/L	0.050	0.0030	1	06/15/10 07:00	06/15/10 15:51	50-32-8	
Benzo(b)fluoranthene	**<0.0036**	ug/L	0.050	0.0036	1	06/15/10 07:00	06/15/10 15:51	205-99-2	
Benzo(g,h,i)perylene	**<0.0051**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 15:51	191-24-2	
Benzo(k)fluoranthene	**<0.0046**	ug/L	0.050	0.0046	1	06/15/10 07:00	06/15/10 15:51	207-08-9	
Chrysene	**<0.0037**	ug/L	0.050	0.0037	1	06/15/10 07:00	06/15/10 15:51	218-01-9	
Dibenz(a,h)anthracene	**<0.0034**	ug/L	0.050	0.0034	1	06/15/10 07:00	06/15/10 15:51	53-70-3	
Fluoranthene	**<0.0047**	ug/L	0.050	0.0047	1	06/15/10 07:00	06/15/10 15:51	206-44-0	
Fluorene	**<0.0051**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 15:51	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0050**	ug/L	0.050	0.0050	1	06/15/10 07:00	06/15/10 15:51	193-39-5	
1-Methylnaphthalene	**<0.0053**	ug/L	0.050	0.0053	1	06/15/10 07:00	06/15/10 15:51	90-12-0	
2-Methylnaphthalene	**0.0050J**	ug/L	0.050	0.0041	1	06/15/10 07:00	06/15/10 15:51	91-57-6	
Naphthalene	**0.026J**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 15:51	91-20-3	B
Phenanthrene	**<0.0086**	ug/L	0.050	0.0086	1	06/15/10 07:00	06/15/10 15:51	85-01-8	
Pyrene	**<0.0050**	ug/L	0.050	0.0050	1	06/15/10 07:00	06/15/10 15:51	129-00-0	
2-Fluorobiphenyl (S)	52	%-	25-130		1	06/15/10 07:00	06/15/10 15:51	321-60-8	
Terphenyl-d14 (S)	87	%-	36-140		1	06/15/10 07:00	06/15/10 15:51	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		06/11/10 14:37	71-43-2	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		06/11/10 14:37	100-41-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		06/11/10 14:37	108-88-3	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		06/11/10 14:37	1330-20-7	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		06/11/10 14:37	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		06/11/10 14:37	95-47-6	
Dibromofluoromethane (S)	92	%-	70-134		1		06/11/10 14:37	1868-53-7	
Toluene-d8 (S)	94	%-	70-130		1		06/11/10 14:37	2037-26-5	
4-Bromofluorobenzene (S)	90	%-	69-130		1		06/11/10 14:37	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**75.7**	mg/L	20.0	10.0	5		06/22/10 02:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		06/18/10 13:20		

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ANALYTICAL RESULTS

Project: CAMP MARINA
Pace Project No.: 4033015

Sample: 060810003 **Lab ID: 4033015003** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**<0.93**	ug/L	2.8	0.93	1		06/16/10 08:16	74-82-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**36.9**	mg/L	4.0	2.0	1		06/22/10 02:43	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.30**	mg/L	0.25	0.12	1		06/18/10 13:21		

Sample: 060810004 **Lab ID: 4033015004** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**<0.93**	ug/L	2.8	0.93	1		06/16/10 08:25	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**<0.0048**	ug/L	0.050	0.0048	1	06/15/10 07:00	06/15/10 16:09	83-32-9	
Acenaphthylene	**<0.0038**	ug/L	0.050	0.0038	1	06/15/10 07:00	06/15/10 16:09	208-96-8	
Anthracene	**<0.0061**	ug/L	0.050	0.0061	1	06/15/10 07:00	06/15/10 16:09	120-12-7	
Benzo(a)anthracene	**0.0040J**	ug/L	0.050	0.0038	1	06/15/10 07:00	06/15/10 16:09	56-55-3	
Benzo(a)pyrene	**<0.0030**	ug/L	0.050	0.0030	1	06/15/10 07:00	06/15/10 16:09	50-32-8	
Benzo(b)fluoranthene	**0.0040J**	ug/L	0.050	0.0036	1	06/15/10 07:00	06/15/10 16:09	205-99-2	
Benzo(g,h,i)perylene	**<0.0051**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 16:09	191-24-2	
Benzo(k)fluoranthene	**<0.0046**	ug/L	0.050	0.0046	1	06/15/10 07:00	06/15/10 16:09	207-08-9	
Chrysene	**0.0049J**	ug/L	0.050	0.0037	1	06/15/10 07:00	06/15/10 16:09	218-01-9	
Dibenz(a,h)anthracene	**<0.0034**	ug/L	0.050	0.0034	1	06/15/10 07:00	06/15/10 16:09	53-70-3	
Fluoranthene	**0.0049J**	ug/L	0.050	0.0047	1	06/15/10 07:00	06/15/10 16:09	206-44-0	
Fluorene	**<0.0051**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 16:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0050**	ug/L	0.050	0.0050	1	06/15/10 07:00	06/15/10 16:09	193-39-5	
1-Methylnaphthalene	**<0.0053**	ug/L	0.050	0.0053	1	06/15/10 07:00	06/15/10 16:09	90-12-0	
2-Methylnaphthalene	**0.0057J**	ug/L	0.050	0.0041	1	06/15/10 07:00	06/15/10 16:09	91-57-6	
Naphthalene	**0.031J**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 16:09	91-20-3	B
Phenanthrene	**<0.0086**	ug/L	0.050	0.0086	1	06/15/10 07:00	06/15/10 16:09	85-01-8	
Pyrene	**<0.0050**	ug/L	0.050	0.0050	1	06/15/10 07:00	06/15/10 16:09	129-00-0	
2-Fluorobiphenyl (S)	53	%-	25-130		1	06/15/10 07:00	06/15/10 16:09	321-60-8	
Terphenyl-d14 (S)	86	%-	36-140		1	06/15/10 07:00	06/15/10 16:09	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		06/11/10 15:00	71-43-2	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		06/11/10 15:00	100-41-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		06/11/10 15:00	108-88-3	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		06/11/10 15:00	1330-20-7	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		06/11/10 15:00	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		06/11/10 15:00	95-47-6	

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ANALYTICAL RESULTS

Project: CAMP MARINA
Pace Project No.: 4033015

Sample: 060810004 **Lab ID: 4033015004** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Dibromofluoromethane (S)	93	%-	70-134		1		06/11/10 15:00	1868-53-7	
Toluene-d8 (S)	95	%-	70-130		1		06/11/10 15:00	2037-26-5	
4-Bromofluorobenzene (S)	94	%-	69-130		1		06/11/10 15:00	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**3.1J**	mg/L	4.0	2.0	1		06/22/10 03:20	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		06/18/10 13:22		

Sample: 060810005 **Lab ID: 4033015005** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**<0.93**	ug/L	2.8	0.93	1		06/16/10 08:34	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.0092J**	ug/L	0.050	0.0048	1	06/15/10 07:00	06/15/10 16:27	83-32-9	
Acenaphthylene	**<0.0038**	ug/L	0.050	0.0038	1	06/15/10 07:00	06/15/10 16:27	208-96-8	
Anthracene	**<0.0061**	ug/L	0.050	0.0061	1	06/15/10 07:00	06/15/10 16:27	120-12-7	
Benzo(a)anthracene	**<0.0038**	ug/L	0.050	0.0038	1	06/15/10 07:00	06/15/10 16:27	56-55-3	
Benzo(a)pyrene	**<0.0030**	ug/L	0.050	0.0030	1	06/15/10 07:00	06/15/10 16:27	50-32-8	
Benzo(b)fluoranthene	**<0.0036**	ug/L	0.050	0.0036	1	06/15/10 07:00	06/15/10 16:27	205-99-2	
Benzo(g,h,i)perylene	**<0.0051**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 16:27	191-24-2	
Benzo(k)fluoranthene	**<0.0046**	ug/L	0.050	0.0046	1	06/15/10 07:00	06/15/10 16:27	207-08-9	
Chrysene	**<0.0037**	ug/L	0.050	0.0037	1	06/15/10 07:00	06/15/10 16:27	218-01-9	
Dibenz(a,h)anthracene	**<0.0034**	ug/L	0.050	0.0034	1	06/15/10 07:00	06/15/10 16:27	53-70-3	
Fluoranthene	**<0.0047**	ug/L	0.050	0.0047	1	06/15/10 07:00	06/15/10 16:27	206-44-0	
Fluorene	**<0.0051**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 16:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0050**	ug/L	0.050	0.0050	1	06/15/10 07:00	06/15/10 16:27	193-39-5	
1-Methylnaphthalene	**0.018J**	ug/L	0.050	0.0053	1	06/15/10 07:00	06/15/10 16:27	90-12-0	
2-Methylnaphthalene	**0.019J**	ug/L	0.050	0.0041	1	06/15/10 07:00	06/15/10 16:27	91-57-6	
Naphthalene	**0.16**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 16:27	91-20-3	B
Phenanthrene	**<0.0086**	ug/L	0.050	0.0086	1	06/15/10 07:00	06/15/10 16:27	85-01-8	
Pyrene	**<0.0050**	ug/L	0.050	0.0050	1	06/15/10 07:00	06/15/10 16:27	129-00-0	
2-Fluorobiphenyl (S)	47	%-	25-130		1	06/15/10 07:00	06/15/10 16:27	321-60-8	
Terphenyl-d14 (S)	72	%-	36-140		1	06/15/10 07:00	06/15/10 16:27	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		06/11/10 15:24	71-43-2	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		06/11/10 15:24	100-41-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		06/11/10 15:24	108-88-3	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		06/11/10 15:24	1330-20-7	

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ANALYTICAL RESULTS

Project: CAMP MARINA
Pace Project No.: 4033015

Sample: 060810005 **Lab ID: 4033015005** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		06/11/10 15:24	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		06/11/10 15:24	95-47-6	
Dibromofluoromethane (S)	94	%-	70-134		1		06/11/10 15:24	1868-53-7	
Toluene-d8 (S)	96	%-	70-130		1		06/11/10 15:24	2037-26-5	
4-Bromofluorobenzene (S)	91	%-	69-130		1		06/11/10 15:24	460-00-4	

Sample: 060810006 **Lab ID: 4033015006** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**7.9**	ug/L	2.8	0.93	1		06/16/10 09:14	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**15.9**	ug/L	5.0	0.48	100	06/15/10 07:00	06/15/10 13:14	83-32-9	
Acenaphthylene	**206J**	ug/L	250	19.1	5000	06/15/10 07:00	06/16/10 01:10	208-96-8	
Anthracene	**14.3**	ug/L	5.0	0.61	100	06/15/10 07:00	06/15/10 13:14	120-12-7	
Benzo(a)anthracene	**1.6J**	ug/L	5.0	0.38	100	06/15/10 07:00	06/15/10 13:14	56-55-3	
Benzo(a)pyrene	**1.0J**	ug/L	5.0	0.30	100	06/15/10 07:00	06/15/10 13:14	50-32-8	
Benzo(b)fluoranthene	**0.49J**	ug/L	5.0	0.36	100	06/15/10 07:00	06/15/10 13:14	205-99-2	
Benzo(g,h,i)perylene	**0.60J**	ug/L	5.0	0.51	100	06/15/10 07:00	06/15/10 13:14	191-24-2	
Benzo(k)fluoranthene	**0.83J**	ug/L	5.0	0.46	100	06/15/10 07:00	06/15/10 13:14	207-08-9	
Chrysene	**1.8J**	ug/L	5.0	0.37	100	06/15/10 07:00	06/15/10 13:14	218-01-9	
Dibenz(a,h)anthracene	**<0.34**	ug/L	5.0	0.34	100	06/15/10 07:00	06/15/10 13:14	53-70-3	
Fluoranthene	**5.2**	ug/L	5.0	0.47	100	06/15/10 07:00	06/15/10 13:14	206-44-0	
Fluorene	**55.6**	ug/L	5.0	0.51	100	06/15/10 07:00	06/15/10 13:14	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.50**	ug/L	5.0	0.50	100	06/15/10 07:00	06/15/10 13:14	193-39-5	
1-Methylnaphthalene	**322**	ug/L	250	26.5	5000	06/15/10 07:00	06/16/10 01:10	90-12-0	
2-Methylnaphthalene	**433**	ug/L	250	20.4	5000	06/15/10 07:00	06/16/10 01:10	91-57-6	
Naphthalene	**2910**	ug/L	250	25.7	5000	06/15/10 07:00	06/16/10 01:10	91-20-3	B
Phenanthrene	**53.0**	ug/L	5.0	0.86	100	06/15/10 07:00	06/15/10 13:14	85-01-8	
Pyrene	**8.9**	ug/L	5.0	0.50	100	06/15/10 07:00	06/15/10 13:14	129-00-0	
2-Fluorobiphenyl (S)	0	%-	25-130		100	06/15/10 07:00	06/15/10 13:14	321-60-8	S4
Terphenyl-d14 (S)	0	%-	36-140		100	06/15/10 07:00	06/15/10 13:14	1718-51-0	S4
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**9340**	ug/L	50.0	20.5	50		06/14/10 08:47	71-43-2	
Ethylbenzene	**734**	ug/L	50.0	27.0	50		06/14/10 08:47	100-41-4	
Toluene	**5960**	ug/L	50.0	33.5	50		06/14/10 08:47	108-88-3	
Xylene (Total)	**1750**	ug/L	150	130	50		06/14/10 08:47	1330-20-7	
m&p-Xylene	**1310**	ug/L	100	90.0	50		06/14/10 08:47	179601-23-1	
o-Xylene	**445**	ug/L	50.0	41.5	50		06/14/10 08:47	95-47-6	
Dibromofluoromethane (S)	93	%-	70-134		50		06/14/10 08:47	1868-53-7	
Toluene-d8 (S)	95	%-	70-130		50		06/14/10 08:47	2037-26-5	

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ANALYTICAL RESULTS

Project: CAMP MARINA
Pace Project No.: 4033015

Sample: 060810006 **Lab ID: 4033015006** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
4-Bromofluorobenzene (S)	92	%-	69-130		50		06/14/10 08:47	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**405**	mg/L	80.0	40.0	20		06/22/10 03:32	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		06/18/10 13:23		

Sample: 060810007 **Lab ID: 4033015007** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**6310**	ug/L	140	46.3	50		06/16/10 10:47	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**29.1**	ug/L	5.0	0.48	100	06/15/10 07:00	06/15/10 12:57	83-32-9	
Acenaphthylene	**1.9J**	ug/L	5.0	0.38	100	06/15/10 07:00	06/15/10 12:57	208-96-8	
Anthracene	**3.8J**	ug/L	5.0	0.61	100	06/15/10 07:00	06/15/10 12:57	120-12-7	
Benzo(a)anthracene	**<0.38**	ug/L	5.0	0.38	100	06/15/10 07:00	06/15/10 12:57	56-55-3	
Benzo(a)pyrene	**<0.30**	ug/L	5.0	0.30	100	06/15/10 07:00	06/15/10 12:57	50-32-8	
Benzo(b)fluoranthene	**<0.36**	ug/L	5.0	0.36	100	06/15/10 07:00	06/15/10 12:57	205-99-2	
Benzo(g,h,i)perylene	**<0.51**	ug/L	5.0	0.51	100	06/15/10 07:00	06/15/10 12:57	191-24-2	
Benzo(k)fluoranthene	**<0.46**	ug/L	5.0	0.46	100	06/15/10 07:00	06/15/10 12:57	207-08-9	
Chrysene	**<0.37**	ug/L	5.0	0.37	100	06/15/10 07:00	06/15/10 12:57	218-01-9	
Dibenz(a,h)anthracene	**<0.34**	ug/L	5.0	0.34	100	06/15/10 07:00	06/15/10 12:57	53-70-3	
Fluoranthene	**1.6J**	ug/L	5.0	0.47	100	06/15/10 07:00	06/15/10 12:57	206-44-0	
Fluorene	**14.4**	ug/L	5.0	0.51	100	06/15/10 07:00	06/15/10 12:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.50**	ug/L	5.0	0.50	100	06/15/10 07:00	06/15/10 12:57	193-39-5	
1-Methylnaphthalene	**80.6**	ug/L	5.0	0.53	100	06/15/10 07:00	06/15/10 12:57	90-12-0	
2-Methylnaphthalene	**7.9**	ug/L	5.0	0.41	100	06/15/10 07:00	06/15/10 12:57	91-57-6	
Naphthalene	**455**	ug/L	50.0	5.1	1000	06/15/10 07:00	06/16/10 00:52	91-20-3	B
Phenanthrene	**17.7**	ug/L	5.0	0.86	100	06/15/10 07:00	06/15/10 12:57	85-01-8	
Pyrene	**1.8J**	ug/L	5.0	0.50	100	06/15/10 07:00	06/15/10 12:57	129-00-0	
2-Fluorobiphenyl (S)	0	%-	25-130		100	06/15/10 07:00	06/15/10 12:57	321-60-8	S4
Terphenyl-d14 (S)	0	%-	36-140		100	06/15/10 07:00	06/15/10 12:57	1718-51-0	S4
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**1660**	ug/L	10.0	4.1	10		06/11/10 19:18	71-43-2	
Ethylbenzene	**1850**	ug/L	10.0	5.4	10		06/11/10 19:18	100-41-4	
Toluene	**38.0**	ug/L	10.0	6.7	10		06/11/10 19:18	108-88-3	
Xylene (Total)	**666**	ug/L	30.0	26.0	10		06/11/10 19:18	1330-20-7	
m&p-Xylene	**213**	ug/L	20.0	18.0	10		06/11/10 19:18	179601-23-1	
o-Xylene	**454**	ug/L	10.0	8.3	10		06/11/10 19:18	95-47-6	

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ANALYTICAL RESULTS

Project: CAMP MARINA
Pace Project No.: 4033015

Sample: 060810007 **Lab ID: 4033015007** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Dibromofluoromethane (S)	93	%-	70-134		10		06/11/10 19:18	1868-53-7	
Toluene-d8 (S)	93	%-	70-130		10		06/11/10 19:18	2037-26-5	
4-Bromofluorobenzene (S)	91	%-	69-130		10		06/11/10 19:18	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**40.0**	mg/L	4.0	2.0	1		06/22/10 03:44	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		06/18/10 13:24		

Sample: 060810008 **Lab ID: 4033015008** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**1620**	ug/L	28.0	9.3	10		06/16/10 10:56	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**2.9**	ug/L	1.0	0.096	20	06/15/10 07:00	06/15/10 12:22	83-32-9	
Acenaphthylene	**0.32J**	ug/L	1.0	0.076	20	06/15/10 07:00	06/15/10 12:22	208-96-8	
Anthracene	**0.18J**	ug/L	1.0	0.12	20	06/15/10 07:00	06/15/10 12:22	120-12-7	
Benzo(a)anthracene	**<0.077**	ug/L	1.0	0.077	20	06/15/10 07:00	06/15/10 12:22	56-55-3	
Benzo(a)pyrene	**<0.061**	ug/L	1.0	0.061	20	06/15/10 07:00	06/15/10 12:22	50-32-8	
Benzo(b)fluoranthene	**<0.072**	ug/L	1.0	0.072	20	06/15/10 07:00	06/15/10 12:22	205-99-2	
Benzo(g,h,i)perylene	**<0.10**	ug/L	1.0	0.10	20	06/15/10 07:00	06/15/10 12:22	191-24-2	
Benzo(k)fluoranthene	**<0.093**	ug/L	1.0	0.093	20	06/15/10 07:00	06/15/10 12:22	207-08-9	
Chrysene	**<0.074**	ug/L	1.0	0.074	20	06/15/10 07:00	06/15/10 12:22	218-01-9	
Dibenz(a,h)anthracene	**<0.068**	ug/L	1.0	0.068	20	06/15/10 07:00	06/15/10 12:22	53-70-3	
Fluoranthene	**0.11J**	ug/L	1.0	0.093	20	06/15/10 07:00	06/15/10 12:22	206-44-0	
Fluorene	**0.57J**	ug/L	1.0	0.10	20	06/15/10 07:00	06/15/10 12:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.099**	ug/L	1.0	0.099	20	06/15/10 07:00	06/15/10 12:22	193-39-5	
1-Methylnaphthalene	**4.2**	ug/L	1.0	0.11	20	06/15/10 07:00	06/15/10 12:22	90-12-0	
2-Methylnaphthalene	**1.7**	ug/L	1.0	0.082	20	06/15/10 07:00	06/15/10 12:22	91-57-6	
Naphthalene	**0.59J**	ug/L	1.0	0.10	20	06/15/10 07:00	06/15/10 12:22	91-20-3	B
Phenanthrene	**0.83J**	ug/L	1.0	0.17	20	06/15/10 07:00	06/15/10 12:22	85-01-8	
Pyrene	**0.15J**	ug/L	1.0	0.10	20	06/15/10 07:00	06/15/10 12:22	129-00-0	
2-Fluorobiphenyl (S)	0	%-	25-130		20	06/15/10 07:00	06/15/10 12:22	321-60-8	S4
Terphenyl-d14 (S)	0	%-	36-140		20	06/15/10 07:00	06/15/10 12:22	1718-51-0	S4
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**824**	ug/L	5.0	2.0	5		06/14/10 08:24	71-43-2	
Ethylbenzene	**202**	ug/L	5.0	2.7	5		06/14/10 08:24	100-41-4	
Toluene	**26.1**	ug/L	5.0	3.4	5		06/14/10 08:24	108-88-3	
Xylene (Total)	**302**	ug/L	15.0	13.0	5		06/14/10 08:24	1330-20-7	

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ANALYTICAL RESULTS

Project: CAMP MARINA
Pace Project No.: 4033015

Sample: 060810008 **Lab ID: 4033015008** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
m&p-Xylene	**122**	ug/L	10.0	9.0	5		06/14/10 08:24	179601-23-1	
o-Xylene	**180**	ug/L	5.0	4.2	5		06/14/10 08:24	95-47-6	
Dibromofluoromethane (S)	91	%-	70-134		5		06/14/10 08:24	1868-53-7	
Toluene-d8 (S)	93	%-	70-130		5		06/14/10 08:24	2037-26-5	
4-Bromofluorobenzene (S)	91	%-	69-130		5		06/14/10 08:24	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**12.0**	mg/L	4.0	2.0	1		06/22/10 04:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		06/18/10 13:25		

Sample: 060810009 **Lab ID: 4033015009** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**3.1**	ug/L	2.8	0.93	1		06/16/10 09:40	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.031J**	ug/L	0.050	0.0048	1	06/15/10 07:00	06/15/10 11:47	83-32-9	
Acenaphthylene	**0.070**	ug/L	0.050	0.0038	1	06/15/10 07:00	06/15/10 11:47	208-96-8	M0,R1
Anthracene	**0.050**	ug/L	0.050	0.0061	1	06/15/10 07:00	06/15/10 11:47	120-12-7	
Benzo(a)anthracene	**0.0066J**	ug/L	0.050	0.0038	1	06/15/10 07:00	06/15/10 11:47	56-55-3	
Benzo(a)pyrene	**0.0059J**	ug/L	0.050	0.0030	1	06/15/10 07:00	06/15/10 11:47	50-32-8	
Benzo(b)fluoranthene	**0.0051J**	ug/L	0.050	0.0036	1	06/15/10 07:00	06/15/10 11:47	205-99-2	
Benzo(g,h,i)perylene	**0.0071J**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 11:47	191-24-2	
Benzo(k)fluoranthene	**0.0054J**	ug/L	0.050	0.0046	1	06/15/10 07:00	06/15/10 11:47	207-08-9	
Chrysene	**0.010J**	ug/L	0.050	0.0037	1	06/15/10 07:00	06/15/10 11:47	218-01-9	
Dibenz(a,h)anthracene	**<0.0034**	ug/L	0.050	0.0034	1	06/15/10 07:00	06/15/10 11:47	53-70-3	
Fluoranthene	**0.037J**	ug/L	0.050	0.0047	1	06/15/10 07:00	06/15/10 11:47	206-44-0	
Fluorene	**0.066**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 11:47	86-73-7	R1
Indeno(1,2,3-cd)pyrene	**<0.0050**	ug/L	0.050	0.0050	1	06/15/10 07:00	06/15/10 11:47	193-39-5	
1-Methylnaphthalene	**0.11**	ug/L	0.050	0.0053	1	06/15/10 07:00	06/15/10 11:47	90-12-0	M0,R1
2-Methylnaphthalene	**0.13**	ug/L	0.050	0.0041	1	06/15/10 07:00	06/15/10 11:47	91-57-6	M0,R1
Naphthalene	**0.54**	ug/L	0.050	0.0051	1	06/15/10 07:00	06/15/10 11:47	91-20-3	B,M0, R1
Phenanthrene	**0.18**	ug/L	0.050	0.0086	1	06/15/10 07:00	06/15/10 11:47	85-01-8	M0,R1
Pyrene	**0.045J**	ug/L	0.050	0.0050	1	06/15/10 07:00	06/15/10 11:47	129-00-0	R1
2-Fluorobiphenyl (S)	51	%-	25-130		1	06/15/10 07:00	06/15/10 11:47	321-60-8	
Terphenyl-d14 (S)	79	%-	36-140		1	06/15/10 07:00	06/15/10 11:47	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**5.3**	ug/L	1.0	0.41	1		06/11/10 12:16	71-43-2	

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ANALYTICAL RESULTS

Project: CAMP MARINA
Pace Project No.: 4033015

Sample: 060810009 **Lab ID: 4033015009** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Ethylbenzene	**0.93J**	ug/L	1.0	0.54	1		06/11/10 12:16	100-41-4	
Toluene	**1.4**	ug/L	1.0	0.67	1		06/11/10 12:16	108-88-3	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		06/11/10 12:16	1330-20-7	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		06/11/10 12:16	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		06/11/10 12:16	95-47-6	
Dibromofluoromethane (S)	92	%-	70-134		1		06/11/10 12:16	1868-53-7	
Toluene-d8 (S)	96	%-	70-130		1		06/11/10 12:16	2037-26-5	
4-Bromofluorobenzene (S)	90	%-	69-130		1		06/11/10 12:16	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**10.2**	mg/L	4.0	2.0	1		06/22/10 04:33	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.12J**	mg/L	0.25	0.12	1		06/18/10 13:26		

Sample: 060810010 **Lab ID: 4033015010** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**17600**	ug/L	560	185	200		06/16/10 11:05	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**95.7**	ug/L	5.0	0.48	100	06/15/10 07:00	06/15/10 12:39	83-32-9	
Acenaphthylene	**1.8J**	ug/L	5.0	0.38	100	06/15/10 07:00	06/15/10 12:39	208-96-8	
Anthracene	**16.7**	ug/L	5.0	0.61	100	06/15/10 07:00	06/15/10 12:39	120-12-7	
Benzo(a)anthracene	**2.0J**	ug/L	5.0	0.38	100	06/15/10 07:00	06/15/10 12:39	56-55-3	
Benzo(a)pyrene	**1.6J**	ug/L	5.0	0.30	100	06/15/10 07:00	06/15/10 12:39	50-32-8	
Benzo(b)fluoranthene	**0.62J**	ug/L	5.0	0.36	100	06/15/10 07:00	06/15/10 12:39	205-99-2	
Benzo(g,h,i)perylene	**0.95J**	ug/L	5.0	0.51	100	06/15/10 07:00	06/15/10 12:39	191-24-2	
Benzo(k)fluoranthene	**1.2J**	ug/L	5.0	0.46	100	06/15/10 07:00	06/15/10 12:39	207-08-9	
Chrysene	**2.8J**	ug/L	5.0	0.37	100	06/15/10 07:00	06/15/10 12:39	218-01-9	
Dibenz(a,h)anthracene	**<0.34**	ug/L	5.0	0.34	100	06/15/10 07:00	06/15/10 12:39	53-70-3	
Fluoranthene	**8.2**	ug/L	5.0	0.47	100	06/15/10 07:00	06/15/10 12:39	206-44-0	
Fluorene	**29.5**	ug/L	5.0	0.51	100	06/15/10 07:00	06/15/10 12:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.58J**	ug/L	5.0	0.50	100	06/15/10 07:00	06/15/10 12:39	193-39-5	
1-Methylnaphthalene	**113**	ug/L	50.0	5.3	1000	06/15/10 07:00	06/16/10 00:35	90-12-0	
2-Methylnaphthalene	**109**	ug/L	50.0	4.1	1000	06/15/10 07:00	06/16/10 00:35	91-57-6	
Naphthalene	**793**	ug/L	50.0	5.1	1000	06/15/10 07:00	06/16/10 00:35	91-20-3	B
Phenanthrene	**64.6**	ug/L	5.0	0.86	100	06/15/10 07:00	06/15/10 12:39	85-01-8	
Pyrene	**12.0**	ug/L	5.0	0.50	100	06/15/10 07:00	06/15/10 12:39	129-00-0	
2-Fluorobiphenyl (S)	0	%-	25-130		100	06/15/10 07:00	06/15/10 12:39	321-60-8	S4
Terphenyl-d14 (S)	0	%-	36-140		100	06/15/10 07:00	06/15/10 12:39	1718-51-0	S4

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ANALYTICAL RESULTS

Project: CAMP MARINA
Pace Project No.: 4033015

Sample: 060810010 **Lab ID: 4033015010** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**3200**	ug/L	25.0	10.2	25		06/11/10 18:54	71-43-2	
Ethylbenzene	**346**	ug/L	25.0	13.5	25		06/11/10 18:54	100-41-4	
Toluene	**17.2J**	ug/L	25.0	16.8	25		06/11/10 18:54	108-88-3	
Xylene (Total)	**114**	ug/L	75.0	65.0	25		06/11/10 18:54	1330-20-7	
m&p-Xylene	**48.4J**	ug/L	50.0	45.0	25		06/11/10 18:54	179601-23-1	
o-Xylene	**65.4**	ug/L	25.0	20.8	25		06/11/10 18:54	95-47-6	
Dibromofluoromethane (S)	92	%-	70-134		25		06/11/10 18:54	1868-53-7	
Toluene-d8 (S)	95	%-	70-130		25		06/11/10 18:54	2037-26-5	
4-Bromofluorobenzene (S)	92	%-	69-130		25		06/11/10 18:54	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**3.9J**	mg/L	4.0	2.0	1		06/22/10 05:10	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		06/18/10 13:32		

Sample: TRIP BLANK **Lab ID: 4033015011** Collected: 06/08/10 00:00 Received: 06/10/10 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		06/11/10 13:03	71-43-2	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		06/11/10 13:03	100-41-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		06/11/10 13:03	108-88-3	
Xylene (Total)	**<2.6**	ug/L	3.0	2.6	1		06/11/10 13:03	1330-20-7	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		06/11/10 13:03	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		06/11/10 13:03	95-47-6	
Dibromofluoromethane (S)	91	%-	70-134		1		06/11/10 13:03	1868-53-7	
Toluene-d8 (S)	94	%-	70-130		1		06/11/10 13:03	2037-26-5	
4-Bromofluorobenzene (S)	91	%-	69-130		1		06/11/10 13:03	460-00-4	

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QUALITY CONTROL DATA

Project: CAMP MARINA
Pace Project No.: 4033015

QC Batch: GCV/5187 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 4033015001, 4033015002, 4033015003, 4033015004, 4033015005, 4033015006, 4033015007, 4033015008, 4033015009, 4033015010

METHOD BLANK: 314491 Matrix: Water
Associated Lab Samples: 4033015001, 4033015002, 4033015003, 4033015004, 4033015005, 4033015006, 4033015007, 4033015008, 4033015009, 4033015010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.93	2.8	06/16/10 06:54	

LABORATORY CONTROL SAMPLE & LCSD: 314492 314493

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.4	27.3	26.6	96	94	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 314494 314495

Parameter	Units	4033015009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	3.1	28.4	28.4	29.8	28.2	94	88	74-125	5	20	

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QUALITY CONTROL DATA

Project: CAMP MARINA
Pace Project No.: 4033015

QC Batch: OEXT/7517 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 4033015001, 4033015002, 4033015004, 4033015005, 4033015006, 4033015007, 4033015008, 4033015009, 4033015010

METHOD BLANK: 313891 Matrix: Water
Associated Lab Samples: 4033015001, 4033015002, 4033015004, 4033015005, 4033015006, 4033015007, 4033015008, 4033015009, 4033015010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0053	0.050	06/15/10 11:12	
2-Methylnaphthalene	ug/L	<0.0041	0.050	06/15/10 11:12	
Acenaphthene	ug/L	<0.0048	0.050	06/15/10 11:12	
Acenaphthylene	ug/L	<0.0038	0.050	06/15/10 11:12	
Anthracene	ug/L	<0.0061	0.050	06/15/10 11:12	
Benzo(a)anthracene	ug/L	<0.0038	0.050	06/15/10 11:12	
Benzo(a)pyrene	ug/L	<0.0030	0.050	06/15/10 11:12	
Benzo(b)fluoranthene	ug/L	<0.0036	0.050	06/15/10 11:12	
Benzo(g,h,i)perylene	ug/L	<0.0051	0.050	06/15/10 11:12	
Benzo(k)fluoranthene	ug/L	<0.0046	0.050	06/15/10 11:12	
Chrysene	ug/L	<0.0037	0.050	06/15/10 11:12	
Dibenz(a,h)anthracene	ug/L	<0.0034	0.050	06/15/10 11:12	
Fluoranthene	ug/L	<0.0047	0.050	06/15/10 11:12	
Fluorene	ug/L	<0.0051	0.050	06/15/10 11:12	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0050	0.050	06/15/10 11:12	
Naphthalene	ug/L	0.0055J	0.050	06/15/10 11:12	
Phenanthrene	ug/L	<0.0086	0.050	06/15/10 11:12	
Pyrene	ug/L	<0.0050	0.050	06/15/10 11:12	
2-Fluorobiphenyl (S)	%-	55	25-130	06/15/10 11:12	
Terphenyl-d14 (S)	%-	81	36-140	06/15/10 11:12	

LABORATORY CONTROL SAMPLE: 313892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.10	50	33-130	
2-Methylnaphthalene	ug/L	.2	0.099	49	29-130	
Acenaphthene	ug/L	.2	0.10	51	43-130	
Acenaphthylene	ug/L	.2	0.092	46	33-130	
Anthracene	ug/L	.2	0.092	46	33-130	
Benzo(a)anthracene	ug/L	.2	0.14	69	41-130	
Benzo(a)pyrene	ug/L	.2	0.14	72	59-130	
Benzo(b)fluoranthene	ug/L	.2	0.16	80	53-130	
Benzo(g,h,i)perylene	ug/L	.2	0.19	96	55-130	
Benzo(k)fluoranthene	ug/L	.2	0.18	92	64-133	
Chrysene	ug/L	.2	0.18	89	62-130	
Dibenz(a,h)anthracene	ug/L	.2	0.18	89	37-130	
Fluoranthene	ug/L	.2	0.12	62	48-130	
Fluorene	ug/L	.2	0.10	50	42-130	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.18	92	46-130	
Naphthalene	ug/L	.2	0.11	53	33-130	

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QUALITY CONTROL DATA

Project: CAMP MARINA
Pace Project No.: 4033015

LABORATORY CONTROL SAMPLE: 313892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	.2	0.12	59	36-130	
Pyrene	ug/L	.2	0.12	61	51-130	
2-Fluorobiphenyl (S)	%-			56	25-130	
Terphenyl-d14 (S)	%-			92	36-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 313895 313896

Parameter	Units	4033015009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.11	.19	.19	0.10	0.18	-2	39	10-130	54	45	M0,R1
2-Methylnaphthalene	ug/L	0.13	.19	.19	0.10	0.19	-13	34	10-130	60	44	M0,R1
Acenaphthene	ug/L	0.031J	.19	.19	0.10	0.12	38	49	25-130	18	41	
Acenaphthylene	ug/L	0.070	.19	.19	0.097	0.15	14	41	22-130	42	40	M0,R1
Anthracene	ug/L	0.050	.19	.19	0.10	0.14	29	47	22-130	29	36	
Benzo(a)anthracene	ug/L	0.0066J	.19	.19	0.14	0.16	73	79	52-130	7	20	
Benzo(a)pyrene	ug/L	0.0059J	.19	.19	0.14	0.15	72	75	52-130	4	20	
Benzo(b)fluoranthene	ug/L	0.0051J	.19	.19	0.16	0.18	84	91	51-130	8	20	
Benzo(g,h,i)perylene	ug/L	0.0071J	.19	.19	0.17	0.18	87	90	46-130	3	20	
Benzo(k)fluoranthene	ug/L	0.0054J	.19	.19	0.15	0.16	78	82	55-130	5	22	
Chrysene	ug/L	0.010J	.19	.19	0.17	0.18	87	89	49-130	2	20	
Dibenz(a,h)anthracene	ug/L	<0.0034	.19	.19	0.16	0.17	86	88	43-130	2	20	
Fluoranthene	ug/L	0.037J	.19	.19	0.13	0.16	49	64	41-130	21	28	
Fluorene	ug/L	0.066	.19	.19	0.11	0.16	21	50	21-130	41	32	R1
Indeno(1,2,3-cd)pyrene	ug/L	<0.0050	.19	.19	0.17	0.17	86	90	42-130	4	20	
Naphthalene	ug/L	0.54	.19	.19	0.12	0.53	-227	-8	19-130	128	42	M0,R1
Phenanthrene	ug/L	0.18	.19	.19	0.12	0.24	-33	34	22-130	70	38	M0,R1
Pyrene	ug/L	0.045J	.19	.19	0.13	0.16	44	61	35-130	22	21	R1
2-Fluorobiphenyl (S)	%-						54	56	25-130			
Terphenyl-d14 (S)	%-						80	82	36-140			

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QUALITY CONTROL DATA

Project: CAMP MARINA
Pace Project No.: 4033015

QC Batch: MSV/8089 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 4033015001, 4033015002, 4033015004, 4033015005, 4033015006, 4033015007, 4033015008, 4033015009, 4033015010, 4033015011

METHOD BLANK: 312554 Matrix: Water
Associated Lab Samples: 4033015001, 4033015002, 4033015004, 4033015005, 4033015006, 4033015007, 4033015008, 4033015009, 4033015010, 4033015011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.41	1.0	06/11/10 08:22	
Ethylbenzene	ug/L	<0.54	1.0	06/11/10 08:22	
m&p-Xylene	ug/L	<1.8	2.0	06/11/10 08:22	
o-Xylene	ug/L	<0.83	1.0	06/11/10 08:22	
Toluene	ug/L	<0.67	1.0	06/11/10 08:22	
Xylene (Total)	ug/L	<2.6	3.0	06/11/10 08:22	
4-Bromofluorobenzene (S)	%-	92	69-130	06/11/10 08:22	
Dibromofluoromethane (S)	%-	91	70-134	06/11/10 08:22	
Toluene-d8 (S)	%-	97	70-130	06/11/10 08:22	

LABORATORY CONTROL SAMPLE & LCSD: 312555 312556

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	46.2	45.2	92	90	70-130	2	20	
Ethylbenzene	ug/L	50	52.9	50.3	106	101	70-130	5	20	
m&p-Xylene	ug/L	100	104	99.8	104	100	70-130	5	20	
o-Xylene	ug/L	50	49.7	47.0	99	94	70-130	6	20	
Toluene	ug/L	50	50.7	49.4	101	99	70-130	3	20	
Xylene (Total)	ug/L	150	154	147	103	98	70-130	5	20	
4-Bromofluorobenzene (S)	%-				92	90	69-130			
Dibromofluoromethane (S)	%-				95	92	70-134			
Toluene-d8 (S)	%-				95	94	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 312557 312558

Parameter	Units	4033015009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	5.3	50	50	49.7	53.1	89	96	70-130	7	20	
Ethylbenzene	ug/L	0.93J	50	50	52.6	52.7	103	104	70-130	.3	20	
m&p-Xylene	ug/L	<1.8	100	100	103	103	103	103	70-130	.2	20	
o-Xylene	ug/L	<0.83	50	50	49.4	48.9	99	98	70-130	1	20	
Toluene	ug/L	1.4	50	50	50.5	49.8	98	97	70-130	1	20	
Xylene (Total)	ug/L	<2.6	150	150	153	152	102	101	70-130	.5	20	
4-Bromofluorobenzene (S)	%-						93	92	69-130			
Dibromofluoromethane (S)	%-						92	93	70-134			
Toluene-d8 (S)	%-						98	98	70-130			

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QUALITY CONTROL DATA

Project: CAMP MARINA
Pace Project No.: 4033015

QC Batch: WETA/6724 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4033015001, 4033015002, 4033015003, 4033015004, 4033015006, 4033015007, 4033015008, 4033015009, 4033015010

METHOD BLANK: 317334 Matrix: Water
Associated Lab Samples: 4033015001, 4033015002, 4033015003, 4033015004, 4033015006, 4033015007, 4033015008, 4033015009, 4033015010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	06/22/10 00:42	

LABORATORY CONTROL SAMPLE: 317335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 317336 317337

Parameter	Units	4033015003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	36.9	20	20	58.4	58.5	108	108	90-110	.1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 317338 317339

Parameter	Units	4033015009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	10.2	20	20	29.0	29.0	94	94	90-110	0	20	

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QUALITY CONTROL DATA

Project: CAMP MARINA
Pace Project No.: 4033015

QC Batch: WETA/6706 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 4033015001, 4033015002, 4033015003, 4033015004, 4033015006, 4033015007, 4033015008, 4033015009, 4033015010

METHOD BLANK: 315997 Matrix: Water
Associated Lab Samples: 4033015001, 4033015002, 4033015003, 4033015004, 4033015006, 4033015007, 4033015008, 4033015009, 4033015010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.12	0.25	06/18/10 12:59	

LABORATORY CONTROL SAMPLE: 315998

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 315999 316000

Parameter	Units	4033251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<125 ug/L	2.5	2.5	2.7	2.7	108	108	90-110	.5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 316001 316002

Parameter	Units	4033015009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.12J	2.5	2.5	2.8	2.8	108	107	90-110	.7	20	

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QUALIFIERS

Project: CAMP MARINA
Pace Project No.: 4033015

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.

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.

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LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

Sample Control Log

1313-SCL-002

Project Name: WPSC Campmarina MGP Site

Project ID: 1313 / CERCLIS ID WIN000510058

Task ID: 1.4

Analytical Laboratory: Pace

Geotechnical Laboratory: NA

Field Staff ID(s): Scott Gonswindt & Jackie Dam

Month (2-digit)	Date (2-digit)	Year (2-digit)	Sample Number (3-digit)	Unique Sample ID	Sample Media	Sample Location	Sample Depth (feet)	QC Sample Information (duplicate, blank, etc...)	COC Number	Notes (turnaround time, handling notes
06	08	10	001	060810001	GW	MW 709R		—	09702239 09699360	CUSTODY SEALS 8969933001 8969933002
06	08	10	002	060810002		MW 708		—		—
06	08	10	003	060810003		BW-6		—		NH3N, Sulfate & Methane only
06	08	10	004	060810004		PZ-702		—		—
06	08	10	005	060810005		PZ-702		Duplicate		BTEX & PAH only
06	08	10	006	060810006		MW-706		—		—
06	08	10	007	060810007		MW-707R		—		0969944001 0969944002 CUSTODY SEAL
06	08	10	008	060810008		PZ-703		—	09699444	—
06	08	10	009	060810009		PZ-701		MS/MSD		MS/MSD BTEX & PAH only
06	08	10	010	060810010		MW 701R		—		—
								—		

Scott Gonswindt April 8 2010

Natural Resource Technology

WELL LEVEL AND FIELD PARAMETERS FIELD FORM

General Information

Site : WPSC Campmarina MGP

Project # : 1313 / CERCLIS ID WIN000510058

Task # : 6.4

Date : June 8 2010

Samplers : Sarah Gardsweinde & Jackie

Water Level Indicator Serial # : NG Heron # 11848

Purge Device and Serial # : Geopump 9031

Quality Probe Type and Serial # : YSI MP20 ID03376

Calibration Check : April 8 2010 1300

Location	Time (military)	Depth to Water (feet below TOC)	Product Top Depth (feet below TOC)	Product Bottom Depth (feet below TOC)	Product Notes	Time (military)	pH (SU)	Conductivity (µs/cm)	Temperature (°C)	Oxidation/Reduction Potential (ORP) (mV)	Turbidity (NTU)	Dissolved Oxygen (DO) (mg/L)	Field Comments
PZ-701		5.88	na	na	NO PRODUCT NOTED TO BE PRESENT IN WELLS	na	na	na	na	na	na	na	—
MW-701R		—	na	na									—
PZ-702		6.70	na	na									—
PZ-703		10.29	na	na									—
MW-705		6.19	na	na									Water Level only
MW-706		—	na	na									—
MW-707R		4.35		na									—
MW-708		10.22											—
MW-709R		4.84											—
BW-6		11.51											—
Sump		5.32											Water Level only
Staff Gauge		3.71											Water Level
							na	na	na	na	na	na	
						J Swanswinde				April 8 2010			

n/a : Not Applicable nm : Not Measured TOC: Top of Well Casing

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: June 8 2010 Time: 1320
Field Personnel: AGJRD
Finish Date: June 8 2010 Time: 1329

WELL INFORMATION

Well ID: **PZ-701**
Casing ID: 2 Inches
Screen Interval: 23.65-33.65
Borehole Diameter: Unknown Inches
Filter Pack Interval: Unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump
Tube/Pump Intake Depth: ~28' Below Ground Surface (BGS)
Stabilized Pumping Rate: 200 mls/minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na		na	
Groundwater	5.88	1320	9.53	1329
DNAPL	na			
Casing Base	na			

Water Level Serial #: Heron 11848

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: feet
1 Well Volume: na Gallons 3 Well Volumes: na Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: n/a Gallons
Well Purged Dry? ☐ Yes ☒ No
Water Quality Probe Type and Serial # QED MP20 QD03376

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1320	na	5.88	na	11.04	7.77	.448	2.69	17.3	-66	clear
purge	1323	—	6.59	200 mls	10.93	7.73	.447	1.93	9.2	-67	↓
purge	1326	—	8.36	minute	10.85	7.62	.447	1.54	9.8	-66	↓
Sample	1329	1 gal	9.53	↓	10.85	7.62	.447	1.36	9.8	-66	↓

AGJRD June 8 2010

NOTES

MS/MSD 009

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: June 8 2010 Time: 1310
Field Personnel: SAG JRD
Finish Date: June 8 2010 Time: 1400

WELL INFORMATION

Well ID: MW-701R
Casing ID: 2 Inches
Screen Interval: 7.40-12.40
Borehole Diameter: Unknown Inches
Filter Pack Interval: Unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump 9031
Tube/Pump Intake Depth: ~10 BGS
Stabilized Pumping Rate: 200 mls/minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	→	→	→
Groundwater	—	1345	6.56	1400
DNAPL	na	→	→	→
Casing Base	na	→	→	→

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: ↓ feet
1 Well Volume: na Gallons 3 Well Volumes: na Gallons
5 Well Volumes: ↓ Gallons 10 Well Volumes: ↓ Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron 11848
Water Quality Probe Type and Serial # YSI MP20 QD0336

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1345	na	unknown	na	11.14	6.62	2.47	1.14	193	-101	Clear
purge	1350	—	6.28	200 mls	11.08	6.60	2.50	0.98	218	-106	↓
	1353	—	6.33	minute	11.05	6.59	2.49	0.86	167	-110	
↓	1356	—	6.38	↓	11.04	6.59	2.50	0.86	106	-113	↓
sample	1400	1.5	6.50		11.03	6.59	3.49	0.87	91	-117	

Shannon Wells June 8 2010

NOTES

010

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: June 8 2010 Time: 1130
Field Personnel: SEC - JRD
Finish Date: June 8 2010 Time: 1142

WELL INFORMATION

Well ID: PZ-702
Casing ID: 2 Inches
Screen Interval: 37.35-47.35
Borehole Diameter: Unknown Inches
Filter Pack Interval: ↓

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump 9031
Tube/Pump Intake Depth: ~42'
Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	Na →	→	→	→
Groundwater	6.70	1130	9.83	1142
DNAPL	Na →	→	→	→
Casing Base	Na →	→	→	→

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: Na
Standing Water Column: Na feet
1 Well Volume: Na Gallons
3 Well Volumes: Na Gallons
5 Well Volumes: ↓ Gallons
10 Well Volumes: Na Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron 11848
Water Quality Probe Type and Serial # YSI 9D03376

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1130	Na	6.70	Na	11.17	8.20	.232	4.91	32.4	34	Clear
purge	1133	—	7.73	—	11.15	8.13	.232	4.26	19.2	38	↓
	1136	—	8.84	—	11.14	8.08	0.232	4.03	9.9	41	↓
	1139	—	9.27	2.57 mls	11.18	8.05	0.232	4.02	8.0	42	↓
	1142	2 gal	9.83	2 gal per minute	11.18	8.04	0.232	4.02	8.2	42	↓

NOTES

004
005 Duplicate

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 10.4
Start Date: June 8 2010 Time: 1250
Field Personnel: SAS JRD
Finish Date: June 8 2010 Time: 1306

WELL INFORMATION

Well ID: PZ-703
Casing ID: 2 Inches
Screen Interval: 23.28-33.28
Borehole Diameter: Unknown Inches
Filter Pack Interval: Unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump 9031
Tube/Pump Intake Depth: ~28' Below Ground Surface
Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	Na	→	→	→
Groundwater	6.29	1250	8.24	1306
DNAPL	Na	→	→	→
Casing Base	Na	→	→	→

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: Na
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Na Gallons
5 Well Volumes: ↓ Gallons 10 Well Volumes: ↓ Gallons
Total Volumes Produced: Na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron 11848
Water Quality Probe Type and Serial # QED MP20 0003376

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1250	Na	6.29	Na	11.51	7.38	3.15	.82	23.5	-161	Clear
purge	1255		6.57	200 mls minute	11.56	7.47	3.26	.69	23.4	-167	↓
	1300		7.64		11.50	7.50	3.29	.64	23.2	-171	↓
	1303		7.90		11.49	7.55	3.28	.53	23.7	-171	↓
Sample	1306		8.24	↓	11.49	7.56	3.28	.52	23.6	-171	↓

NOTES

008

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6H
Start Date: June 8 2010 Time: 1150
Field Personnel: SG JRD
Finish Date: June 8 2010 Time: 1203

WELL INFORMATION

Well ID: MW-706
Casing ID: 2 Inches
Screen Interval: 3.50-13.50
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump 9031
Tube/Pump Intake Depth: ~8' bgs
Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	—	—	—	—
Groundwater	nm	1150	8.52	1203
DNAPL	—	—	—	—
Casing Base	—	—	—	—

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: ↓ feet
1 Well Volume: na Gallons 3 Well Volumes: na Gallons
5 Well Volumes: ↓ Gallons 10 Well Volumes: ↓ Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron 11848
Water Quality Probe Type and Serial # YSI 06033376

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1150	na	nm	na	11.46	7.00	1.65	2.30	13.5	-172	clear
purge	1153	—	8.49	200	11.45	7.22	1.60	1.79	11.4	-155	clear
↓	1156	—	8.50	mls	11.74	7.22	1.59	1.45	10.9	-161	↓
↓	1159	—	8.51	minute	11.73	7.21	1.59	1.42	10.4	-162	↓
sample	1203	1.5	8.52	↓	11.80	7.21	1.59	1.38	10.3	-162	↓

June 8 2010 Snowing

NOTES

006

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: June 8 2010 Time: 1238
Field Personnel: SRS, JRD
Finish Date: 10 June 8 2010 Time: 1253

WELL INFORMATION

Well ID: MW-707R
Casing ID: 2 Inches
Screen Interval: 1.89-11.89
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump 9031
Tube/Pump Intake Depth: ~5' bgs
Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	→	→	→
Groundwater	4.35	1238	4.65	1253
DNAPL	na	→	→	→
Casing Base	na	→	→	→

Water Level Serial #: Heron 1848

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: ↓ feet
1 Well Volume: na Gallons 3 Well Volumes: na Gallons
5 Well Volumes: ↓ Gallons 10 Well Volumes: ↓ Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No
Water Quality Probe Type and Serial # YSI 3376 MP20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1238	na	4.35	na	11.50	7.39	1.87	2.57	44.1	-167	Clear
purge	1242	—	4.40	200 mls	11.39	7.34	1.88	1.44	41.3	-168	↓
	1245	—	4.48	minute	11.16	7.33	1.87	1.03	29.8	-171	↓
	1248	—	4.56	↓	11.13	7.31	1.83	.73	22.2	-173	↓
	1251	—	4.60		11.12	7.30	1.83	.62	18.8	-173	↓
Sample	1253	2.5 gal	4.65	↓	11.09	7.35	1.78	.61	18.8	-173	↓

NOTES

007

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 104
Start Date: June 8 2010 Time: 935
Field Personnel: AG JRD
Finish Date: June 8 2010 Time: 944

WELL INFORMATION

Well ID: MW-708
Casing ID: 2 Inches
Screen Interval: 3.95-18.95
Borehole Diameter: unknown Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump 9031
Tube/Pump Intake Depth: ~10' BGS
Stabilized Pumping Rate: 200 mls/minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	→	→	→
Groundwater	10.22	935	10.68	944
DNAPL	na	→	→	→
Casing Base	na	→	→	→

Water Level Serial #: Heron 11848

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: ↓ feet
1 Well Volume: na Gallons 3 Well Volumes: na Gallons
5 Well Volumes: ↓ Gallons 10 Well Volumes: ↓ Gallons
Total Volumes Produced: 1 Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Quality Probe Type and Serial # YSI 3376

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	935	na	10.22	na	11.29	7.51	5.93	3.34	55.4	-14	clear
purge	935	—	10.49	200	11.57	7.46	5.13	2.66	41.7	-13	↓
↓	938	—	10.53	mls	11.60	7.41	5.13	2.49	29.3	-13	↓
	941	—	10.63	minute	11.62	7.39	5.13	2.31	22.5	-12	↓
sample	944	2gal	10.68	↓	11.54	7.38	5.13	2.25	18.4	-12	↓

6/8/2010

NOTES

002

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: June 6 2010 Time: 900
Field Personnel: SAG JRD
Finish Date: June 6 2010 Time: 912

WELL INFORMATION

Well ID: MW-709R
Casing ID: 2 Inches
Screen Interval: 5.58-15.58
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: ~~Na~~ Geopump 9031
Tube/Pump Intake Depth: ~10 bgs
Stabilized Pumping Rate: 200 ml/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	Na →	→	→	→ 912
Groundwater	4.84	900	5.50	912
DNAPL	Na →	→	→	→
Casing Base	Na →	→	→	→

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: Na
Standing Water Column: Na feet
1 Well Volume: Na Gallons 3 Well Volumes: Na Gallons
5 Well Volumes: Na Gallons 10 Well Volumes: Na Gallons
Total Volumes Produced: Na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron 1848
Water Quality Probe Type and Serial # QED MP20 QD03376

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	900	Na	4.84	Na	10.93	7.05	2.38	1.32	15.7	-125	clear
purge	903	—	4.92	200	10.97	7.09	2.37	1.12	11.1	-128	↓
↓	906	—	5.50	mls	10.98	7.12	2.38	.99	9.9	-131	↓
↓	909	—	5.50	minute	10.99	7.14	2.36	.89	9.5	-132	↓
sample	912	2gal	5.50	↓	10.99	7.16	2.36	.83	9.4	-133	↓

NOTES

001

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: June 8 2010 Time: 1015
Field Personnel: SAC
Finish Date: June 8 2010 Time: 1053

WELL INFORMATION

Well ID: BW-6
Casing ID: 2 Inches
Screen Interval: 20.5-23.00
Borehole Diameter: unknown Inches
Filter Pack Interval: unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump 9031
Tube/Pump Intake Depth: ~21' BGS
Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	—	—	—	—
Groundwater	11.51	1015	1330	1053
DNAPL	—	—	—	—
Casing Base	—	—	—	—

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: na Gallons
5 Well Volumes: Gallons 10 Well Volumes: na Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron 11848
Water Quality Probe Type and Serial # YSI MP20 QD03376

WATER QUALITY INDICATOR PARAMETERS

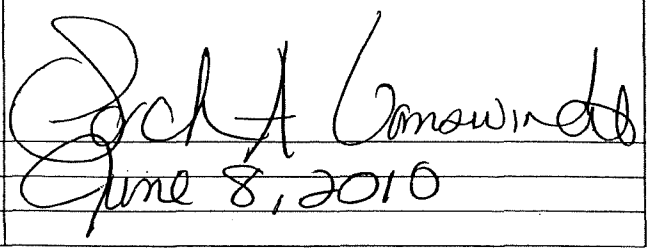
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1015	na	11.51	na	13.34	8.26	.001	7.76	132	-16	clear
purge	1018	—	11.65	200 mls minute	13.70	8.28	.001	6.90	133	-17	↓
↓	1023	—	11.78	↓	13.96	8.29	.001	6.36	144	-16	↓
	1030	—	12.03		14.07	8.30	.001	6.07	146	-15	↓
	1035	—	12.42		14.22	8.30	.001	5.93	134	-15	↓
	1040	—	12.66		14.23	8.30	.001	5.92	100	-15	↓
	1045	—	12.97		14.23	8.30	.001	5.92	63	-15	↓
↓	1049	—	13.08	↓	14.23	8.30	.001	5.90	40	-15	↓

NOTES

003

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

CHAIN-OF-CUSTODY COPIES ONLY Original COCs must be filed in accordance with NRT Data Management Policies.	

CHAIN-OF-CUSTODY / Analytical Request Document

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Chain 1 of 2 — 4033015

Page: 1 of 1

0969936

Section A — Required Client Information:

- Company: Natural Resource Tech
- Address: 23713 W Paul Road, Pewaukee WI
- Email To: Jody Borbeau
- Phone: 262-523-9000 Fax: 262-523-9001
- Requested Due Date/TAT:

Section B — Required Project Information:

- Report To: Jody Borbeau
- Copy To: Heather Simon
- Purchase Order No.: 3400002393
- Project Name: Comp Marina
- Project Number: 1313

Section C — Invoice Information:

- Attention: Accounts Payable
- Company Name: TBS LLC
- Address: PO Box 19800
- Pace Quote Reference: 3400002393
- Pace Project Manager: Brian Basten
- Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ Other

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ MN ☐ NC ☐ OH ☐ SC ☒ WI ☐ OTHER

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER OT, TISSUE TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE

Filtered (Y/N): N N N

Requested Analysis: PAHS 8270; N+N EPA 353.2; Sulfate EPA 300

ITEM #	SAMPLE ID		MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	PAHS 8270	N+N EPA 353.2	Sulfate EPA 300			Residual Chlorine (Y/N)	Pace Project Number Lab I.D
1	0608100001	001	GW	G	6/8/10					3	X	X							X	X	X		6-40ml		1-1Lag A 2-250ml A
2	0608100002	002	↓	X	↓					3	X	X							X	X	X		↓		↓
3	0608100003	003	↓	X	↓					2	X	X							① X	X	X		↓		↓
4	0608100004	004	↓	X	↓					3	X	X							X	X	X		↓		↓
5	0608100005	005	↓	X	↓					1	X								X				↓		1-1Lag A
6	0608100006	006	↓	X	↓					3	X	X							X	X	X		↓		1-1Lag A 2-250ml A
7	0608100007	007	↓	X	↓					3	X	X							X	X	X		↓		↓
8																									
9																									
10																									
11																									
12																									

Additional Comments:

Custody Seal #
0969936001
0969936002

① BTEX & PAH Not Needed for 060810003 per HS 6-10-10

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION			
Sarah Gerswinski	6/8/10		D. Fennel	6/9/10	1015		Y/N	Y/N	Y/N
D. Fennel	6/9/10	1700					Y/N	Y/N	Y/N
Waltco	6/10/10	0900	K Mueike	6/10/10	0900	RDI	Ⓨ/N	Ⓨ/N	Ⓨ/N
							Y/N	Y/N	Y/N
						Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Sarah Gerswinski

SIGNATURE of SAMPLER: S. Gerswinski DATE Signed (MM / DD / YY): 6/8/10

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2 of 3

403305

Page: of

0969944

Section A Required Client Information:

Company: Natural Resource Tech
Address: 23713 W Paul RD
Pewaukee WI
Email To: JODY Berbeau
Phone: 262523900 Fax: 2625239001
Requested Due Date/TAT:

Section B Required Project Information:

Report To: JODY Berbeau
Copy To: Heather Simon
Purchase Order No.: 3400002393
Project Name: Camp Marina
Project Number: 1313

Section C Invoice Information:

Attention: Accounts Payable
Company Name: IES LLC
Address: PO BOX 19800
Pace Quote Reference: 3400002393
Pace Project Manager: Brian Basten
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER
☐ UST ☐ RCRA ☐ Other

SITE LOCATION: ☐GA ☐IL ☐IN ☐MI ☐MN ☐NC ☐OH ☐SC ☒WI ☐OTHER

Filtered (Y/N)

Requested Analysis: DRO WIS 8270; NH NERA 353.2; Sulfate EPA 300; Residual Chlorine (Y/N)

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE

ITEM #	SAMPLE ID		MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	060810008	008	GW	G	6/8/10														X X X 6-40ml		B 1-1Lag A 2-250ml AC
2	060810009	009	↓	↓	↓														X X X		MS/MSD (*)
3	060810010	010	↓	↓	↓														X X X 6-40ml		B 1-1Lag A 2-250ml AC
4	tripblank *	011																			2-40ml B
5	*added to COC by lab MRN 6/10/10																				
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Additional Comments:

Custody Seal # 0969944001 0969944002

(*) 3-1Lag A 2-250ml AC 12-40ml B

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION			
Sean Goodwin	6/9/10		D. Favreau	6/9/10	1025		Y/N	Y/N	Y/N
D. Favreau	6/9/10	1700					Y/N	Y/N	Y/N
Waltco	6/10/10	0900	K Mueke	6/10/10	0900	ROI	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
						Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Sean Goodwin
SIGNATURE of SAMPLER: [illegible] DATE Signed (MM/DD/YY): 6/3/10

SEE REVERSE SIDE FOR INSTRUCTIONS

RIG

ALL ev.3.31

CHAIN-OF-CUSTODY / Analytical Request Document

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3 of 3

4033015

Page: 1 of 1

0970221

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Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Natural Resource Tech	Report To: Jody Barbeau	Attention: Accounts Payable
Address: 2371 3 W. Paul Road	Copy To: Heather Simon	Company Name: JBB LLC
Pewaukee WI		Address: PO Box 19800
Email To: Jody Barbeau	Purchase Order No.: 340000 2393	Pace Quote Reference: 340000 2393
Phone: 262-523-9000 Fax: 262-523-9001	Project Name: Camp Marina	Pace Project Manager: Brian Braden
Requested Due Date/TAT:	Project Number: 1313	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER

☐ UST ☐ RCRA ☐ Other_____

SITE LOCATION ☐GA ☐IL ☐IN ☐MI ☐MN ☐NC ☐OH ☐SC ☒WI ☐OTHER _____

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: BTEX, EDB, MTBE, Methane, 8015	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	060810001	GW	G	6/8/10															X X		
2	060810002																		X X		
3	060810003																		X X		
4	060810004																		X X		
5	060810005																		X X		
6	060810006																		X X		
7	060810007																		X X		
8	060810008																		X X		
9	060810009																		X X		
10	060810010																		X X		
11																					
12																					

Additional Comments:

Custody Seal #s
096 9944001
096 9944002

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Sarah Carswinda	6-9-10		D. Fawcett	6/9/10	1025
D. Fawcett	6/9/10	1700			
Waitco	6/10/10	0900	K Mielke	6/10/10	0900

SAMPLE CONDITION

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
ROI	(Y) N	(Y) N	(Y) N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Sarah Carswinda

SIGNATURE of SAMPLER: Sarah Carswinda

DATE Signed (MM / DD / YY)

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ALLQ020rev.3 31Mar05

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ERS PARTS SALES

491-L Blue Eagle Ave
Harrisburg, PA 17112
E-Mail: equipmentsup@saic.com

RENTALS: 800-739-7706
717-901-8891
SUPPLIES: 717-901-8894
FAX: 717-901-8114

CERTIFICATE OF INSTRUMENT CALIBRATION
SAIC ASSET#16369

This is to certify that the QED MP20, Serial Number# **QDO3376** was calibrated with the fluid listed below using the calibration procedure in the manual.

Turbidity:	0.0 NTU using AutoCal Solution	HERON 11848
Conductivity:	4.490 mS/cm using AutoCal Solution	Geopump 9031
3 Point pH Calibration:	pH 4.00 pH 7.00 pH10.00	
Dissolved Oxygen:	Calibrated using ambient air.	

As long as the instrument reads to the standards it is calibrated to, according to the procedure outlined in the Operator's Manual, the instrument is performing correctly.

I have inspected the operation, calibration, and appearance of this instrument and approve it for meeting the specified range of calibration.

APPROVED BY: Casey J. Kornotto

DATE: 04/19/10

DISCLAIMER: Any adjustments made to this instrument with out proper knowledge of calibration procedures and calibration solutions will void the preset calibration and readings. This certificate will no longer be valid and Benham/Equipment and Supply WILL NOT be responsible.

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(920)469-2436

September 16, 2010

Heather Simon
Natural Resource Technology
23713 West Paul Road
Unit D
Pewaukee, WI 53072

RE: Project: 1313 CAMP MARINA
Pace Project No.: 4036788

Dear Heather Simon:
Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC 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

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CERTIFICATIONS

Project: 1313 CAMP MARINA
Pace Project No.: 4036788

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
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

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SAMPLE SUMMARY

Project: 1313 CAMP MARINA
Pace Project No.: 4036788

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4036788001	**090810010**	Air	09/08/10 00:00	09/10/10 09:15
4036788002	**090810011**	Air	09/08/10 00:00	09/10/10 09:15

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SAMPLE ANALYTE COUNT

Project: 1313 CAMP MARINA
Pace Project No.: 4036788

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4036788001	**090810010**	EPA 8021	PMS	6
4036788002	**090810011**	EPA 8021	PMS	6

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA
Pace Project No.: 4036788

Sample: 090810010 **Lab ID: 4036788001** Collected: 09/08/10 00:00 Received: 09/10/10 09:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Impingers	Analytical Method: EPA 8021 Preparation Method: EPA 5030								
Benzene	**<0.051**	ug/L	0.38	0.051	50	09/15/10 08:17	09/15/10 15:15	71-43-2	
Ethylbenzene	**<0.067**	ug/L	0.95	0.067	50	09/15/10 08:17	09/15/10 15:15	100-41-4	
Toluene	**<0.11**	ug/L	0.95	0.11	50	09/15/10 08:17	09/15/10 15:15	108-88-3	
m&p-Xylene	**<0.071**	ug/L	1.9	0.071	50	09/15/10 08:17	09/15/10 15:15	179601-23-1	
o-Xylene	**<0.041**	ug/L	0.95	0.041	50	09/15/10 08:17	09/15/10 15:15	95-47-6	
a,a,a-Trifluorotoluene (S)	107	%	62-120		50	09/15/10 08:17	09/15/10 15:15	98-08-8	1q

Sample: 090810011 **Lab ID: 4036788002** Collected: 09/08/10 00:00 Received: 09/10/10 09:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Impingers	Analytical Method: EPA 8021 Preparation Method: EPA 5030								
Benzene	**<0.051**	ug/L	0.38	0.051	50	09/15/10 08:17	09/15/10 15:41	71-43-2	
Ethylbenzene	**<0.067**	ug/L	0.95	0.067	50	09/15/10 08:17	09/15/10 15:41	100-41-4	
Toluene	**<0.11**	ug/L	0.95	0.11	50	09/15/10 08:17	09/15/10 15:41	108-88-3	
m&p-Xylene	**<0.071**	ug/L	1.9	0.071	50	09/15/10 08:17	09/15/10 15:41	179601-23-1	
o-Xylene	**<0.041**	ug/L	0.95	0.041	50	09/15/10 08:17	09/15/10 15:41	95-47-6	
a,a,a-Trifluorotoluene (S)	103	%	62-120		50	09/15/10 08:17	09/15/10 15:41	98-08-8	1q

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QUALITY CONTROL DATA

Project: 1313 CAMP MARINA
Pace Project No.: 4036788

QC Batch: GCV/5590 Analysis Method: EPA 8021
QC Batch Method: EPA 5030 Analysis Description: 8021 Impingers
Associated Lab Samples: 4036788001, 4036788002

METHOD BLANK: 354445 Matrix: Air
Associated Lab Samples: 4036788001, 4036788002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.027	0.20	09/15/10 09:16	
Ethylbenzene	ug/L	<0.035	0.50	09/15/10 09:16	
m&p-Xylene	ug/L	<0.037	1.0	09/15/10 09:16	
o-Xylene	ug/L	<0.022	0.50	09/15/10 09:16	
Toluene	ug/L	<0.060	0.50	09/15/10 09:16	
a,a,a-Trifluorotoluene (S)	%	101	62-120	09/15/10 09:16	

LABORATORY CONTROL SAMPLE & LCSD: 354446 354447

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	10	9.0	9.4	90	94	80-120	4	20	
Ethylbenzene	ug/L	10	8.9	9.3	89	93	80-120	5	20	
m&p-Xylene	ug/L	20	17.7	18.5	89	93	80-120	4	20	
o-Xylene	ug/L	10	8.8	9.2	88	92	80-120	5	20	
Toluene	ug/L	10	9.1	9.5	91	95	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				99	103	62-120			

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QUALIFIERS

Project: 1313 CAMP MARINA
Pace Project No.: 4036788

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.

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.

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ANALYTE QUALIFIERS

1q Sample received with 19 mls of methanol. Normal volume is 15 mls.

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September 15, 2010

Heather Simon
Natural Resource Technology
23713 West Paul Road
Unit D
Pewaukee, WI 53072

RE: Project: 1313 CAMP MARINA
Pace Project No.: 4036790

Dear Heather Simon:
Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC 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

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

CERTIFICATIONS

Project: 1313 CAMP MARINA
Pace Project No.: 4036790

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
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

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

SAMPLE SUMMARY

Project: 1313 CAMP MARINA
Pace Project No.: 4036790

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4036790001	**090810001**	Water	09/08/10 00:00	09/10/10 09:15
4036790002	**090810002**	Water	09/08/10 00:00	09/10/10 09:15
4036790003	**090810003**	Water	09/08/10 00:00	09/10/10 09:15
4036790004	**090810004**	Water	09/08/10 00:00	09/10/10 09:15
4036790005	**090810005**	Water	09/08/10 00:00	09/10/10 09:15
4036790006	**090810006**	Water	09/08/10 00:00	09/10/10 09:15
4036790007	**090810007**	Water	09/08/10 00:00	09/10/10 09:15
4036790008	**090810008**	Water	09/08/10 00:00	09/10/10 09:15
4036790009	**090810009**	Water	09/08/10 00:00	09/10/10 09:15

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SAMPLE ANALYTE COUNT

Project: 1313 CAMP MARINA
Pace Project No.: 4036790

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4036790001	**090810001**	EPA 6010	DLB	2	PASI-G
4036790002	**090810002**	EPA 6010	DLB	2	PASI-G
4036790003	**090810003**	EPA 6010	DLB	2	PASI-G
4036790004	**090810004**	EPA 6010	DLB	2	PASI-G
4036790005	**090810005**	EPA 6010	DLB	2	PASI-G
4036790006	**090810006**	EPA 6010	DLB	2	PASI-G
4036790007	**090810007**	EPA 6010	DLB	2	PASI-G
4036790008	**090810008**	EPA 6010	DLB	2	PASI-G
4036790009	**090810009**	EPA 6010	DLB	2	PASI-G

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PROJECT NARRATIVE

Project: 1313 CAMP MARINA
Pace Project No.: 4036790

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: NATURAL RESOURCE TECHNOLOGY
Date: September 15, 2010

General Information:
9 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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(920)469-2436

ANALYTICAL RESULTS

Project: 1313 CAMP MARINA
Pace Project No.: 4036790

Sample: 090810001 **Lab ID: 4036790001** Collected: 09/08/10 00:00 Received: 09/10/10 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**1700**	ug/L	100	8.3	1		09/13/10 15:25	7439-89-6	
Manganese, Dissolved	**915**	ug/L	5.0	0.14	1		09/13/10 15:25	7439-96-5	

Sample: 090810002 **Lab ID: 4036790002** Collected: 09/08/10 00:00 Received: 09/10/10 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**<8.3**	ug/L	100	8.3	1		09/13/10 15:29	7439-89-6	
Manganese, Dissolved	**2.6J**	ug/L	5.0	0.14	1		09/13/10 15:29	7439-96-5	

Sample: 090810003 **Lab ID: 4036790003** Collected: 09/08/10 00:00 Received: 09/10/10 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**16.0J**	ug/L	100	8.3	1		09/13/10 15:33	7439-89-6	
Manganese, Dissolved	**13.5**	ug/L	5.0	0.14	1		09/13/10 15:33	7439-96-5	

Sample: 090810004 **Lab ID: 4036790004** Collected: 09/08/10 00:00 Received: 09/10/10 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**1340**	ug/L	100	8.3	1		09/13/10 15:37	7439-89-6	
Manganese, Dissolved	**365**	ug/L	5.0	0.14	1		09/13/10 15:37	7439-96-5	

Sample: 090810005 **Lab ID: 4036790005** Collected: 09/08/10 00:00 Received: 09/10/10 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**<8.3**	ug/L	100	8.3	1		09/13/10 15:41	7439-89-6	
Manganese, Dissolved	**0.64J**	ug/L	5.0	0.14	1		09/13/10 15:41	7439-96-5	

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA
Pace Project No.: 4036790

Sample: 090810006 **Lab ID: 4036790006** Collected: 09/08/10 00:00 Received: 09/10/10 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**<8.3**	ug/L	100	8.3	1		09/13/10 15:45	7439-89-6	
Manganese, Dissolved	**2.8J**	ug/L	5.0	0.14	1		09/13/10 15:45	7439-96-5	

Sample: 090810007 **Lab ID: 4036790007** Collected: 09/08/10 00:00 Received: 09/10/10 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**333**	ug/L	100	8.3	1		09/13/10 15:49	7439-89-6	
Manganese, Dissolved	**44.0**	ug/L	5.0	0.14	1		09/13/10 15:49	7439-96-5	

Sample: 090810008 **Lab ID: 4036790008** Collected: 09/08/10 00:00 Received: 09/10/10 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**11400**	ug/L	100	8.3	1		09/13/10 15:53	7439-89-6	
Manganese, Dissolved	**364**	ug/L	5.0	0.14	1		09/13/10 15:53	7439-96-5	

Sample: 090810009 **Lab ID: 4036790009** Collected: 09/08/10 00:00 Received: 09/10/10 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**222**	ug/L	100	8.3	1		09/13/10 16:05	7439-89-6	
Manganese, Dissolved	**60.4**	ug/L	5.0	0.14	1		09/13/10 16:05	7439-96-5	

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QUALITY CONTROL DATA

Project: 1313 CAMP MARINA
Pace Project No.: 4036790

QC Batch: ICP/3842 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4036790001, 4036790002, 4036790003, 4036790004, 4036790005, 4036790006, 4036790007, 4036790008, 4036790009

METHOD BLANK: 352869 Matrix: Water
Associated Lab Samples: 4036790001, 4036790002, 4036790003, 4036790004, 4036790005, 4036790006, 4036790007, 4036790008, 4036790009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<8.3	100	09/13/10 14:35	
Manganese, Dissolved	ug/L	<0.14	5.0	09/13/10 14:35	

LABORATORY CONTROL SAMPLE: 352870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4530	91	80-120	
Manganese, Dissolved	ug/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 352871 352872

Parameter	Units	4036756002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	800	5000	5000	5120	5320	86	90	75-125	4	20	
Manganese, Dissolved	ug/L	373	500	500	818	799	89	85	75-125	2	20	

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QUALIFIERS

Project: 1313 CAMP MARINA
Pace Project No.: 4036790

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.

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 NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Sample Control Log

1313-SCL-002

Project Name: WPSC Campmarina MGP Site
Project ID: 1313 / CERCLIS ID WIN000510058
Task ID: 6.4

Analytical Laboratory: Pace
Geotechnical Laboratory: n/a
Field Staff ID(s): SAG, PBG, JJW

Month (2-digit)	Date (2-digit)	Year (2-digit)	Sample Number (3-digit)	Unique Sample ID	Sample Media	Sample Location	Sample Depth (feet)	QC Sample Information (duplicate, blank, etc...)	COC Number	Notes (turnaround time, handling notes
09	08	10	001	090810001	GW	MW-109R	~11	—	100908001	NA
09	08	10	002	090810002		MW-108	~12	—		
09	08	10	003	090810003		BW-6	~22	—		
09	08	10	004	090810004		107R	~6	—		
09	08	10	005	090810005		PZ-103	~28	—		
09	08	10	006	090810006		PZ-102	~42	—		
09	08	10	007	090810007		MW-106	~8	—		
09	08	10	008	090810008		MW-101R	~10	—		
09	08	10	009	090810009		PZ-101	~28	—		
09	08	10	010	090810010	Air	Stack	n/a	—	100908002	PG- sample time 1515 PID = 0.0C
09	08	10	011	090810011	Air	Stack	n/a	Blank-		PG- sample time 1515 PID-0.0
—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—

Custody Seal
131301 & 131302

Natural Resource Technology

WELL CONDITION FIELD FORM

Site : WPSC Campmarina MGP Site

Project # : 1313 / CERCLIS ID WIN000510058

Task # : 6.4

Date : 9/8/10

Samplers : SAG, PVG, JJW

	EVERY SAMPLING EVENT									AT LEAST ONCE A YEAR			
Location	Surface Seal	Lid	Gasket	Lock	Cap	Protection (Bumper posts, etc.)	Bailer	Pump	Well Casing	Expected Well Depth (feet)	Field Measured Well Depth (feet)	Well Base Sediment Thickness (feet)	Field Comments
PZ-701	G	G	G	G	G	NA	NA	NA	F	33.65	33.66	0	Riser bent @ ~6' BTOC, 2" bailer will not fit
MW-701R						NA		NA	G	12.40	12.63	0	—
PZ-702						NA		NA		47.35	37.34	0	TD likely not 47.35 (noted wrong last time)
PZ-703						NA		NA		33.28	33.53	0	—
MW-705						NA		NA		16.76	~~NM~~ 16.74 PZ	0	~~TD not measured, possible product~~
MW-706						NA		NA		13.50	NM	NM	TD not measured, possible product
MW-707R						NA		NA		11.89	11.88	0	—
MW-708						NA		NA		18.95	18.98	0	—
MW-709R						NA		NA		15.58	16.60	0	—
BW-6						NA		NA		23.00	31.25	0	"
"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"	"	"	"

P : Poor - Potential or Evident Sample Integrity Issues (additional comments required, picture(s) desirable)
F : Fair - Future Sample Integrity May Be Compromised if Well Repair/Upgrade is Not Undertaken (additional comments required, picture(s) desirable)
G : Good (additional comments not required)
n/a : Not Applicable

WELL LEVEL AND FIELD PARAMETERS FIELD FORM

General Information

Site : WPSC Campmarina MGP
Project # : 1313 / CERCLIS ID WIN000510058
Task # : 6.4
Date : 9/8/10
Samplers : SAG AVG JJW

Water Level Indicator Serial # : 11846, 11765 (NRT)
Purge Device and Serial # : geopump - peristaltic -
Quality Probe Type and Serial # : QED MP20 #QQ03376
Calibration Check : calibrated by Environmental Equipment Supply - 8/12/10

Location	Time (military)	Depth to Water (feet below TOC)	Product Top Depth (feet below TOC)	Product Bottom Depth (feet below TOC)	Product Notes	Time (military)	pH (su)	Conductivity (µs/cm)	Temperature (°C)	Oxidation/Reduction Potential (ORP) (mV)	Turbidity (NTU)	Dissolved Oxygen (DO) (mg/L)	Field Comments
PZ-701	15:21	5.88	NA	NA	—	15:44	7.52	443	14.82	-138	36.5	0.37	clear
MW-701R	14:36	6.65	↓	↓	—	15:10	6.62	2450	16.01	-177	112	0.25	pea clear
~~PZ-702~~	~~13:25~~	~~6.61~~	↓	↓	—	~~13:50~~	~~8.88~~	~~225~~	~~13.93~~	~~-60~~	~~25.2~~	~~1.89~~	~~clear~~ PZ
PZ-703	13:00	6.21	↓	↓	—	13:10	11.25	750	12.93	-264	48.7	0.50	clear
MW-705	9:00	6.28	↓	↓	—	nm	nm	nm	nm	nm	nm	nm	none
MW-706	14:00	8.33	NM	NM	Did not attempt to detect product	14:18	7.45	1457	15.80	~~-137~~ -205 pst	~~205~~ 13.7 pst	0.41	clear
MW-707R	12:42	4.34	NA	NA	—	12:58	7.20	1800	17.26	-221	24.3	0.32	clear
MW-708	10:59	10.50	↓	↓	—	11:13	7.36	4900	15.56	-32	13.6	1.41	clear
MW-709R	10:27	4.84	↓	↓	—	10:44	7.22	2380	16.82	-174	11.6	1.02	clear
BW-6	11:39	10.82	↓	↓	—	11:50	7.83	843	11.85	-55	2000	0.31	light brown
Sump	15:05	5.44	↓	↓	—	nm	nm	nm	nm	nm	nm	nm	
Staff Gauge	1520	4.40	↓	↓	—	nm	nm	nm	nm	nm	nm	nm	
PZ-702	13:25	6.61	↓	↓	—	13:53	8.85	224	13.91	-60	27.4	1.57	clear
—	—	—	↓	↓	—	—	—	—	—	—	—	—	—

n/a : Not Applicable nm : Not Measured TOC: Top of Well Casing

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: 9/8/2010 Time: 1521
Field Personnel: SAS PBS
Finish Date: 9-8-2010 Time: 1544

WELL INFORMATION

Well ID: **PZ-701**
Casing ID: 2 Inches
Screen Interval: 23.65-33.65
Borehole Diameter: unknown Inches
Filter Pack Interval: ↓

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth: ~28
Stabilized Pumping Rate: 200 ml/minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na			
Groundwater	5.88	1521	11.24	1544
DNAPL	na			
Casing Base	na			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: na Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1521	NA	5.88	NA	18.55	7.84	0.470	2.33	92.0	-104	clear
purge	1525	-	7.71	200 ml/minute	15.64	7.74	0.445	0.79	62.4	-128	
	1528	-	8.29		15.44	7.66	0.443	0.55	53.7	-134	
	1532	-	9.12		15.32	7.56	0.444	0.44	46.0	-135	
	1536	-	9.84		14.99	7.56	0.443	0.40	42.0	-137	
	1540	-	10.54		14.90	7.52	0.443	0.38	38.9	-137	
ample	1544	2gal	11.24		14.82	7.52	0.443	0.37	36.5	-138	
—	—	—	—	—	—	—	—	—	—	—	—

NOTES

TD = 33.66 #009

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: Sept 8 2010 Time: 1436
Field Personnel: SAC PBC
Finish Date: Sept 8 2010 Time: 1510

WELL INFORMATION

Well ID: MW-701R
Casing ID: 2 Inches
Screen Interval: 7.40-12.40
Borehole Diameter: Unknown Inches
Filter Pack Interval: Unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump
Tube/Pump Intake Depth: ~ 10
Stabilized Pumping Rate: 200mls/minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	6.65	1436	6.91	15.10
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: NA
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: NA Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # YSI MP20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1430	NA	6.65	NA	18.06	7.20	248	3.96	44.1	-144	Clear
purge	1440	=	6.65	200mls/	17.67	6.82	248	1.17	55.2	-148	↓
	1445	=		minute	17.43	6.69	0.010	0.48	21.9	-160	Lt Brown
	1450	=	6.74		16.00	6.67	2.47	0.51		-150	↓
	1455	=	6.79		16.62	6.63	2.46	0.36	353	-162	lt grey
	1500	=	6.85		16.27	6.62	2.46	0.29	221	-169	↓
	1505	=	6.89		15.98	6.60	2.45	0.26	178	-174	near clear
Sample	1510	1.25	6.91	↓	16.01	6.62	2.45	0.25	112	-177	↓

NOTES

TD 12.63 7.00

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 4.4
Start Date: Sept 8 2010 Time: 1325
Field Personnel: SAG PBC
Finish Date: Sept 8 2010 Time: 1353

WELL INFORMATION

Well ID: PZ-702
Casing ID: 2 Inches
Screen Interval: 37.35-47.35
Borehole Diameter: Unknown Inches
Filter Pack Interval: ↓

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth: ~42
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	6.61	1325	9.58	1353
DNAPL	NA			
Casing Base	NA			

Water Level Serial #: Heron

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: NA
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: NA Gallons
5 Well Volumes: ↓ Gallons 10 Well Volumes: ↓ Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Quality Probe Type and Serial # YSI MP 20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1325	NA	6.61	NA	18.34	10.07	0.000	5.42	43.0	-111	Clear
purge	1328	—	6.89	200 ml/minute	15.37	9.70	0.231	4.40	46.0	-94	↓
	1331	—	7.30		14.21	9.58	0.230	3.12	43.2	-81	↓
	1335	—	7.59		14.07	9.44	0.230	3.10	34.1	-77	↓
	1338	—	7.72		14.81	9.18	0.230	2.21	31.1	-62	↓
	1341	—	7.88		14.76	9.14	0.229	2.06	27.3	-61	↓
↓	1345	—	9.04	↓	14.75	9.10	0.226	1.95	26.7	-60	↓
Sample SG	1350	—	9.42	↓	13.93	8.88	0.225	1.84	25.2	-60	↓

NOTES

TD 37.34 FT BTOC

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

...ELL ...VEL... ME... AND ...ROU...WA...ER SA...PLIN... FIEL... FOR...

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: Sept 8 2010 Time: 1325
Field Personnel: SAG PBG
Finish Date: Sept 8 2010 Time: 1353

WELL INFORMATION

Well ID: PZ-702
Casing ID: 2 inches

EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling
☐ Well Volume Approach Sampling ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Sample	1353	3 gal	9.58	200 mls/m.	13.91	8.85	0.224	1.57	27.4	-60	Clear

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin — Client: WPSC

Project Number: 1313 — Task #: 6.4 — Start Date: Sept 8 2010 — Time: 1300

Field Personnel: SAC PBC — Finish Date: Sept 8 2010 — Time: 1311

WELL INFORMATION

Well ID: PZ-703

Casing ID: 2 Inches

Screen Interval: 23.28-33.28

Borehole Diameter: unknown Inches

Filter Pack Interval: ↓

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump

Bailer Type: n/a

Pump Type and Serial #: Geopump

Tube/Pump Intake Depth: 28

Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	Na	→	→	→
Groundwater	6.21	1300	19.06	1311
DNAPL	Na	→	→	
Casing Base	Na	→	→	

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole

Volume Per Foot: Na

Standing Water Column: feet

1 Well Volume: Gallons — 3 Well Volumes: NA Gallons

5 Well Volumes: Gallons — 10 Well Volumes: Gallons

Total Volumes Produced: Gallons

Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #:

Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Initial	1300	Na	6.21	Na	13.41	10.85	0.731	1.37	73.9	-259	Clear
purge	1303		18.00		12.97	11.12	0.761	0.80	63.3	-263	↓
↓	1308		18.68		12.92	11.26	0.753	0.50	53.1	-265	↓
Sample	1311		19.06		12.93	11.25	0.750	0.50	48.7	-264	↓
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

NOTES

005 TD 33.53

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: Sept 8 2010 Time: 1400
Field Personnel: [illegible] PBS
Finish Date: Sept 8 2010 Time: 1418

WELL INFORMATION

Well ID: MW-706
Casing ID: 2 Inches
Screen Interval: 3.50-13.50
Borehole Diameter: Unknown Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth: ~8
Stabilized Pumping Rate: 200 mls/minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	8.33	1400	9.18	1418
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: feet
1 Well Volume: Gallons
3 Well Volumes: na Gallons
5 Well Volumes: Gallons
10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Initial	1400	na	8.33	na	16.10	7.97	1.436	4.84	25.7	-195	Clear
purge	1403	=	8.63	25 ml/	16.01	7.87	1.435	1.51	21.6	-211	↓
	1406	=	8.79	minute	15.98	7.68	1.443	0.71	20.5	-217	↓
	1409	=	8.93		15.94	7.64	1.446	0.60	17.3	-219	↓
	1412	=	8.87		15.83	7.47	1.445	0.43	14.9	-216	↓
	1415	=	9.04		15.81	7.46	1.458	0.43	14.2	-215	↓
Sample	1418	2gal	9.18	↓	15.80	7.45	1.457	0.41	13.7	-205	↓
—	—	—	—	—	—	—	—	—	—	—	—

NOTES

007 TD NM PRODUCT

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: Sept 8 2010 Time: 1242
Field Personnel: SAG PBG
Finish Date: Sept 8 2010 Time: 1258

WELL INFORMATION

Well ID: MW-707R
Casing ID: 2 Inches
Screen Interval: 1.89-11.89
Borehole Diameter: Unknown Inches
Filter Pack Interval: Unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump
Tube/Pump Intake Depth: ~ 6'
Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	→	→	→
Groundwater	4.34	12:42	4.63	1258
DNAPL	na	→	→	→
Casing Base	na	→	→	→

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: na Gallons
5 Well Volumes: ↓ Gallons 10 Well Volumes: ↓ Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # QED MP 20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1242	Na	4.34	na	17.07	7.35	2.03	1.40	66.1	-199	clear
purge	1244	—	3.55	200 mls	16.91	7.34	1.98	9.85	56.1	-205	↓
↓	1247	—	4.60	mls	16.97	7.30	1.94	0.66	49.9	-209	↓
	1250	—	4.62	minute	17.03	7.26	1.89	0.48	38.5	-208	↓
	1253	—	4.63		17.13	7.21	1.84	0.35	26.8	-212	↓
↓	1255	—	4.63		17.18	7.20	1.81	0.34	24.8	-217	↓
sample	1258	2gal	4.63	↓	17.26	7.20	1.80	0.32	24.3	-221	↓
—	—	—	—	—	—	—	—	—	—	—	—

NOTES

TD = 11.88

004

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 10.4
Start Date: 9-08-2010 Time: 10:59AM
Field Personnel: SAG JJW PBG
Finish Date: 9-08-2010 Time: 11:13 am

WELL INFORMATION

Well ID: MW-708
Casing ID: 2 Inches
Screen Interval: 3.95-18.95
Borehole Diameter: unknown Inches
Filter Pack Interval: ↓

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geopump
Tube/Pump Intake Depth: ~12'
Stabilized Pumping Rate: 200 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	N/A	N/A	N/A	N/A
Groundwater	10.50	10:59AM	11.70	11:13
DNAPL	N/A	N/A	N/A	N/A
Casing Base	N/A	N/A	N/A	N/A

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: N/A
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: N/A Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # QED MP20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:59AM	na	10.50	NC	15.17	7.65	5.00	2.69	40.6	-43	Clear
purge	11:06AM	—	10.76	200 mls	14.49	7.60	5.05	1.98	30.3	-40	↓
↓	11:08AM	—	10.86	minute	14.68	7.44	5.05	1.49	18.8	-37	↓
	11:10AM	—	11.15		15.32	7.44	5.02	1.36	15.0	-36	↓
↓	11:11AM	—	11.48		15.80	7.36	4.98	1.49	13.6	-34	↓
Sample	11:13AM	2.25	11.70	↓	15.56	7.36	4.90	1.41	13.6	-32	↓
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

NOTES

Sample #002 TD 18.98

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Project Number: 1313 Task #: 6.4 Client: WPSC
Field Personnel: SAG JSW Start Date: Sept 8 2010 Time: 10:17
Finish Date: Sept 8 2010 Time: 10:44

WELL INFORMATION

Well ID: MW-709R
Casing ID: 2 Inches
Screen Interval: 5.58-15.58
Borehole Diameter: unknown Inches
Filter Pack Interval: ↓

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth: ~11' bgs
Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	na	na	na
Groundwater	4.84	10:27	5.97	10:44
DNAPL	na	na	na	na
Casing Base	na	na	na	na

Water Level Serial #: Heron

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: na Gallons
5 Well Volumes: Gallons 10 Well Volumes: ↓ Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Quality Probe Type and Serial #: ~~Horiba~~ SAG QED MP 20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:27	na	4.84	na	16.06	6.36	2.55	4.06	69.1	-121	Clear
purge	10:30	–	5.85	200mls	14.47	7.03	2.48	2.53	47.8	-170	↓
	10:33	–	5.97	minute	15.19	7.18	2.54	2.11	24.5	-180	↓
	10:36	–	5.97		15.85	7.16	2.54	1.54	19.8	-178	↓
↓	10:39	–	5.97		16.25	7.20	2.47	1.42	15.0	-179	↓
	10:42	–	5.97		16.44	7.24	2.38	1.29	12.6	-179	↓
Sample	10:44	2 gal	5.97	↓	16.82	7.22	2.38	1.02	11.6	-174	↓
–	–	–	–	–	–	–	–	–	–	–	–

NOTES

#001 TD 16.60

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: 9/08/2010 Time: 11:30 AM
Field Personnel: SAG, PBG, JEW
Finish Date: 9/08/2010 Time: 11:50

WELL INFORMATION

Well ID: BW-6
Casing ID: 2 Inches
Screen Interval: 20.5-23.00
Borehole Diameter: Unknown Inches
Filter Pack Interval: Unknown

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☐ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth: ~22
Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	→	→	→
Groundwater	10.82	11:39	13.60	11:50
DNAPL	na	→	→	→
Casing Base	na	→	→	→

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: NA
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: NA Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # YSI MP 20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	11:39AM	NA	10.82	na	12.52	7.77	0.847	2.12	2000	-47	light Brown
purge	11:40	—	11.9	200mls	13.26	7.71	0.846	4.04	2000	-25	↓
↓	11:43	—	12.39	minute	12.06	7.77	0.845	0.846	2000	-53	↓
	11:46	—	12.92	↓	12.05	7.80	0.846	0.77	2000	-52	↓
↓	11:49	—	13.34		11.82	7.84	0.846	0.39	2000	-51	↓
Sample	11:50	2gal	13.60	↓	11.85	7.83	0.843	0.31	2000	-55	↓
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

NOTES

Sample #003 TD 31.25

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Page 1 of

Chain 10010800?

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UPPER MIDWEST REGION
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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Natural Resource Tech
Branch/Location:	Pewaukee WI
Project Contact:	Heather Simon
Phone:	262-523-9000
Project Number:	1313
Project Name:	Camp Marina
Project State:	WI
Sampled By (Print):	Heather Simonwinkel
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	340000238
Mail To Contact:	JD Pardeau
Mail To Company:	Natural Resource Tech
Mail To Address:	23713 W Rural Rd Pewaukee WI 53072
Invoice To Contact:	Accounts Payable
Invoice To Company:	TBS LLC
Invoice To Address:	PO Box 19800 Green Bay WI 54307
Invoice To Phone:	920-433-2929

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☒ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: BTEX 8021B	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	090810 010	9/8/10		Air	N	A	X	100 mls/minute	1-40ml F	
002	090810011	↓		↓			X		↓	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By:	Date/Time:	Received By:	Date/Time:
	Heather Simonwinkel	9/9/10 1025	Dfoust	9/9/10 1025
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: Dfoust	9/9/10 1700	Received By:	Date/Time:
Email #1:	Relinquished By: CS Logistics	9/10/10 0915	Received By:	9/10/10 0915
Email #2:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Telephone:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Fax:				

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 4036788

Receipt Temp = R-01 °C

Sample Receipt pH OK / Adjusted N/A

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 08/14/08

C 27Jun2

CUSTODY SEAL 3 3C & 3 0C

FINAL

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Natural Resource Tech
Branch/Location:	Pewaukee WI
Project Contact:	Heather Simon
Phone:	262-523-9000
Project Number:	1313
Project Name:	Camp Marina
Project State:	WI
Sampled By (Print):	Sarah Cartwright
Sampled By (Sign):	SR Cartwright
PO #:	Regulatory Program:

Quote #:	3400002353
Mail To Contact:	Jody Barbeau
Mail To Company:	Natural Resource Tech
Mail To Address:	23713 W Powerline RD Pewaukee WI 53072
Invoice To Contact:	Accounts Payable
Invoice To Company:	IBS LLC
Invoice To Address:	PO Box 9800 WI Green Bay 54307
Invoice To Phone:	920-433-2929

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: FILTERED? (YES/NO)	Y/N	Y	Y							CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					PRESERVATION (CODE)*	Pick Letter	D	D									
							Dissolved Iron	Dissolved Manganese									
001	0908100001	9/8/10		GW			X	X								1-250ml D	
002	0908100002						X	X									
003	0908100003						X	X									
004	0908100004						X	X									
005	0908100005						X	X									
006	0908100006						X	X									
007	0908100007						X	X									
008	0908100008						X	X									
009	0908100009						X	X									

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
SR Cartwright	9/9/10 1025	D. Fennel	9/9/10 1025
D. Fennel	9/9/10 1700		
PS Logistics	9/10/10 0915		

Received By:	Date/Time:
D. Fennel	9/9/10 1025
	9/10/10 0915

PACE Project No. 4036790

Receipt Temp = 2.01 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

CUSTODY SEAL 131301 & 131302

C019a(27Jun2006)

ORIGINAL

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FAX: 717-901-8114

CERTIFICATE OF INSTRUMENT CALIBRATION
SAIC ASSET#16369

This is to certify that the QED MP20, Serial Number# **QDO3376** was calibrated with the fluid listed below using the calibration procedure in the manual.

Turbidity: 0.0 NTU using AutoCal Solution

Conductivity: 4.490 mS/cm using AutoCal Solution

3 Point pH Calibration: pH 4.00
pH 7.00
pH10.00

Dissolved Oxygen: Calibrated using ambient air.

As long as the instrument reads to the standards it is calibrated to, according to the procedure outlined in the Operator's Manual, the instrument is performing correctly.

I have inspected the operation, calibration, and appearance of this instrument and approve it for meeting the specified range of calibration.

APPROVED BY: Casey J. Kornotto

DATE: 08/02/10

DISCLAIMER: Any adjustments made to this instrument with out proper knowledge of calibration procedures and calibration solutions will void the preset calibration and readings. This certificate will no longer be valid and Benham/Equipment and Supply WILL NOT be responsible.

WELL CONDITION FIELD FORM

Site : WPSC Sheboygan Campmarina Former MGP
Project # : 1313
Task # :

Date : Sept 29 2009
Samplers : Sarah Carswinds
Mike Mason

	EVERY SAMPLING EVENT									AT LEAST ONCE A YEAR			
Location	Surface Seal	Lid	Gasket	Lock	Cap	Protection (bumper posts, etc.)	Bailer	Pump	Well Casing	Expected Well Depth (feet)	Field Measured Well Depth (feet)	Well Base Sediment Thickness (feet)	Field Comments
PZ-703	G	G	G	G	G	Na	Na	Na	G	Screened Fine grain	33.28	34.09	pump slowly w/ water level
MW-701R											12.40		
PZ-701										Screened Fine grain	33.65	37.61	pump slowly w/ water level
MW-709R										1	15.58		
MW-705										ML	16.76	9.79	Pump slowly w/ water level
MW-708											18.95		
PZ-702										Expected @ 30.9	47.35	Should be 37.35 Verify Prior to pump development	
MW-706											n/a		Product 30 to total depth
MW 707R											11.89		Bailer

Water level

P : Poor - Potential or Evident Sample Integrity Issues (additional comments required, picture(s) desirable)
F : Fair - Future Sample Integrity May Be Compromised if Well Repair/Upgrade is Not Undertaken (additional comments required, picture(s) desirable)
G : Good (additional comments not required)
n/a : Not Applicable

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December 20, 2010

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

RE: Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Dear Jennifer Kahler:
Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC 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

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CERTIFICATIONS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
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

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SAMPLE SUMMARY

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4040344001	**120210001**	Water	12/02/10 09:10	12/03/10 14:00
4040344002	**120210002**	Water	12/02/10 09:10	12/03/10 14:00
4040344003	**120210003**	Water	12/02/10 09:58	12/03/10 14:00
4040344004	**120210004**	Water	12/02/10 10:34	12/03/10 14:00
4040344005	**120210005**	Water	12/02/10 12:03	12/03/10 14:00
4040344006	**120210006**	Water	12/02/10 11:23	12/03/10 14:00
4040344007	**120210007**	Water	12/02/10 12:58	12/03/10 14:00
4040344008	**120210008**	Water	12/02/10 13:25	12/03/10 14:00
4040344009	**120210009**	Water	12/02/10 13:55	12/03/10 14:00
4040344010	**120210010**	Water	12/02/10 14:15	12/03/10 14:00
4040344011	**TRIP BLANK**	Water	12/02/10 00:00	12/03/10 14:00

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SAMPLE ANALYTE COUNT

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4040344001	**120210001**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4040344002	**120210002**	EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	8	PASI-G
4040344003	**120210003**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4040344004	**120210004**	EPA 8015B Modified	SES	1	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4040344005	**120210005**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4040344006	**120210006**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4040344007	**120210007**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4040344008	**120210008**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4040344009	**120210009**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G

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SAMPLE ANALYTE COUNT

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4040344010	**120210010**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	DDY	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
4040344011	**TRIP BLANK**	EPA 8260	SMT	8	PASI-G

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PROJECT NARRATIVE

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Method: **EPA 8015B Modified**
Description: Methane, Ethane, Ethene GCV
Client: Natural Resources Technologies
Date: December 20, 2010

General Information:
9 samples were analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/6035

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4040344007

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

- MS (Lab ID: 396019)
  - Methane
- MSD (Lab ID: 396020)
  - Methane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Method: **EPA 8270 by SIM**
Description: 8270 MSSV PAH by SIM
Client: Natural Resources Technologies
Date: December 20, 2010

General Information:
9 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/10063

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

- 120210006 (Lab ID: 4040344006)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- 120210007 (Lab ID: 4040344007)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- 120210009 (Lab ID: 4040344009)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- MS (Lab ID: 393756)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- MSD (Lab ID: 393757)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Method: **EPA 8270 by SIM**
Description: 8270 MSSV PAH by SIM
Client: Natural Resources Technologies
Date: December 20, 2010

QC Batch: OEXT/10063

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 393755)
  - Naphthalene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/10063

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4040344007

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 393756)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(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
  - Naphthalene
  - Phenanthrene
  - Pyrene
- MSD (Lab ID: 393757)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(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

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PROJECT NARRATIVE

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Method: **EPA 8270 by SIM**
Description: 8270 MSSV PAH by SIM
Client: Natural Resources Technologies
Date: December 20, 2010

QC Batch: OEXT/10063

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4040344007

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- Naphthalene
- Phenanthrene
- Pyrene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Method: **EPA 8260**
Description: 8260 MSV UST
Client: Natural Resources Technologies
Date: December 20, 2010

General Information:
10 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Natural Resources Technologies
Date: December 20, 2010

General Information:
9 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: Natural Resources Technologies
Date: December 20, 2010

General Information:
9 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Sample: 120210001 **Lab ID: 4040344001** Collected: 12/02/10 09:10 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**1610**	ug/L	56.0	18.5	20		12/15/10 08:40	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**<0.0045**	ug/L	0.047	0.0045	1	12/09/10 07:30	12/09/10 15:47	83-32-9	
Acenaphthylene	**<0.0036**	ug/L	0.047	0.0036	1	12/09/10 07:30	12/09/10 15:47	208-96-8	
Anthracene	**0.012J**	ug/L	0.047	0.0057	1	12/09/10 07:30	12/09/10 15:47	120-12-7	
Benzo(a)anthracene	**<0.0036**	ug/L	0.047	0.0036	1	12/09/10 07:30	12/09/10 15:47	56-55-3	
Benzo(a)pyrene	**<0.0029**	ug/L	0.047	0.0029	1	12/09/10 07:30	12/09/10 15:47	50-32-8	
Benzo(b)fluoranthene	**<0.0034**	ug/L	0.047	0.0034	1	12/09/10 07:30	12/09/10 15:47	205-99-2	
Benzo(g,h,i)perylene	**<0.0048**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 15:47	191-24-2	
Benzo(k)fluoranthene	**<0.0044**	ug/L	0.047	0.0044	1	12/09/10 07:30	12/09/10 15:47	207-08-9	
Chrysene	**<0.0035**	ug/L	0.047	0.0035	1	12/09/10 07:30	12/09/10 15:47	218-01-9	
Dibenz(a,h)anthracene	**<0.0032**	ug/L	0.047	0.0032	1	12/09/10 07:30	12/09/10 15:47	53-70-3	
Fluoranthene	**0.0050J**	ug/L	0.047	0.0044	1	12/09/10 07:30	12/09/10 15:47	206-44-0	
Fluorene	**<0.0048**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 15:47	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0047**	ug/L	0.047	0.0047	1	12/09/10 07:30	12/09/10 15:47	193-39-5	
1-Methylnaphthalene	**<0.0050**	ug/L	0.047	0.0050	1	12/09/10 07:30	12/09/10 15:47	90-12-0	
2-Methylnaphthalene	**0.0040J**	ug/L	0.047	0.0039	1	12/09/10 07:30	12/09/10 15:47	91-57-6	B
Naphthalene	**0.011J**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 15:47	91-20-3	B,L1
Phenanthrene	**<0.0081**	ug/L	0.047	0.0081	1	12/09/10 07:30	12/09/10 15:47	85-01-8	
Pyrene	**<0.0047**	ug/L	0.047	0.0047	1	12/09/10 07:30	12/09/10 15:47	129-00-0	
2-Fluorobiphenyl (S)	48	%	23-130		1	12/09/10 07:30	12/09/10 15:47	321-60-8	
Terphenyl-d14 (S)	90	%	58-144		1	12/09/10 07:30	12/09/10 15:47	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		12/08/10 12:24	71-43-2	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		12/08/10 12:24	100-41-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		12/08/10 12:24	108-88-3	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		12/08/10 12:24	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		12/08/10 12:24	95-47-6	
Dibromofluoromethane (S)	97	%	70-134		1		12/08/10 12:24	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/08/10 12:24	2037-26-5	
4-Bromofluorobenzene (S)	83	%	69-130		1		12/08/10 12:24	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**50.0**	mg/L	4.0	2.0	1		12/09/10 15:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		12/09/10 10:48		

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Sample: 120210002 **Lab ID: 4040344002** Collected: 12/02/10 09:10 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**<0.0045**	ug/L	0.047	0.0045	1	12/09/10 07:30	12/09/10 16:05	83-32-9	
Acenaphthylene	**<0.0036**	ug/L	0.047	0.0036	1	12/09/10 07:30	12/09/10 16:05	208-96-8	
Anthracene	**0.0092J**	ug/L	0.047	0.0057	1	12/09/10 07:30	12/09/10 16:05	120-12-7	
Benzo(a)anthracene	**<0.0036**	ug/L	0.047	0.0036	1	12/09/10 07:30	12/09/10 16:05	56-55-3	
Benzo(a)pyrene	**<0.0029**	ug/L	0.047	0.0029	1	12/09/10 07:30	12/09/10 16:05	50-32-8	
Benzo(b)fluoranthene	**<0.0034**	ug/L	0.047	0.0034	1	12/09/10 07:30	12/09/10 16:05	205-99-2	
Benzo(g,h,i)perylene	**<0.0048**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 16:05	191-24-2	
Benzo(k)fluoranthene	**<0.0044**	ug/L	0.047	0.0044	1	12/09/10 07:30	12/09/10 16:05	207-08-9	
Chrysene	**<0.0035**	ug/L	0.047	0.0035	1	12/09/10 07:30	12/09/10 16:05	218-01-9	
Dibenz(a,h)anthracene	**<0.0032**	ug/L	0.047	0.0032	1	12/09/10 07:30	12/09/10 16:05	53-70-3	
Fluoranthene	**<0.0044**	ug/L	0.047	0.0044	1	12/09/10 07:30	12/09/10 16:05	206-44-0	
Fluorene	**<0.0048**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 16:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0047**	ug/L	0.047	0.0047	1	12/09/10 07:30	12/09/10 16:05	193-39-5	
1-Methylnaphthalene	**<0.0050**	ug/L	0.047	0.0050	1	12/09/10 07:30	12/09/10 16:05	90-12-0	
2-Methylnaphthalene	**0.0045J**	ug/L	0.047	0.0039	1	12/09/10 07:30	12/09/10 16:05	91-57-6	B
Naphthalene	**0.011J**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 16:05	91-20-3	B,L1
Phenanthrene	**<0.0081**	ug/L	0.047	0.0081	1	12/09/10 07:30	12/09/10 16:05	85-01-8	
Pyrene	**<0.0047**	ug/L	0.047	0.0047	1	12/09/10 07:30	12/09/10 16:05	129-00-0	
2-Fluorobiphenyl (S)	49	%	23-130		1	12/09/10 07:30	12/09/10 16:05	321-60-8	
Terphenyl-d14 (S)	77	%	58-144		1	12/09/10 07:30	12/09/10 16:05	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		12/08/10 12:46	71-43-2	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		12/08/10 12:46	100-41-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		12/08/10 12:46	108-88-3	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		12/08/10 12:46	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		12/08/10 12:46	95-47-6	
Dibromofluoromethane (S)	102	%	70-134		1		12/08/10 12:46	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		12/08/10 12:46	2037-26-5	
4-Bromofluorobenzene (S)	81	%	69-130		1		12/08/10 12:46	460-00-4	

Sample: 120210003 **Lab ID: 4040344003** Collected: 12/02/10 09:58 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**<0.93**	ug/L	2.8	0.93	1		12/15/10 06:46	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**<0.0045**	ug/L	0.047	0.0045	1	12/09/10 07:30	12/09/10 16:23	83-32-9	
Acenaphthylene	**<0.0036**	ug/L	0.047	0.0036	1	12/09/10 07:30	12/09/10 16:23	208-96-8	
Anthracene	**<0.0057**	ug/L	0.047	0.0057	1	12/09/10 07:30	12/09/10 16:23	120-12-7	
Benzo(a)anthracene	**<0.0036**	ug/L	0.047	0.0036	1	12/09/10 07:30	12/09/10 16:23	56-55-3	
Benzo(a)pyrene	**0.0030J**	ug/L	0.047	0.0029	1	12/09/10 07:30	12/09/10 16:23	50-32-8	

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Sample: 120210003 **Lab ID: 4040344003** Collected: 12/02/10 09:58 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Benzo(b)fluoranthene	**0.0037J**	ug/L	0.047	0.0034	1	12/09/10 07:30	12/09/10 16:23	205-99-2	
Benzo(g,h,i)perylene	**<0.0048**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 16:23	191-24-2	
Benzo(k)fluoranthene	**<0.0044**	ug/L	0.047	0.0044	1	12/09/10 07:30	12/09/10 16:23	207-08-9	
Chrysene	**0.0045J**	ug/L	0.047	0.0035	1	12/09/10 07:30	12/09/10 16:23	218-01-9	
Dibenz(a,h)anthracene	**<0.0032**	ug/L	0.047	0.0032	1	12/09/10 07:30	12/09/10 16:23	53-70-3	
Fluoranthene	**0.0047J**	ug/L	0.047	0.0044	1	12/09/10 07:30	12/09/10 16:23	206-44-0	
Fluorene	**<0.0048**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 16:23	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0047**	ug/L	0.047	0.0047	1	12/09/10 07:30	12/09/10 16:23	193-39-5	
1-Methylnaphthalene	**<0.0050**	ug/L	0.047	0.0050	1	12/09/10 07:30	12/09/10 16:23	90-12-0	
2-Methylnaphthalene	**<0.0039**	ug/L	0.047	0.0039	1	12/09/10 07:30	12/09/10 16:23	91-57-6	
Naphthalene	**0.010J**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 16:23	91-20-3	B,L1
Phenanthrene	**<0.0081**	ug/L	0.047	0.0081	1	12/09/10 07:30	12/09/10 16:23	85-01-8	
Pyrene	**<0.0047**	ug/L	0.047	0.0047	1	12/09/10 07:30	12/09/10 16:23	129-00-0	
2-Fluorobiphenyl (S)	41	%	23-130		1	12/09/10 07:30	12/09/10 16:23	321-60-8	
Terphenyl-d14 (S)	85	%	58-144		1	12/09/10 07:30	12/09/10 16:23	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		12/08/10 13:09	71-43-2	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		12/08/10 13:09	100-41-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		12/08/10 13:09	108-88-3	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		12/08/10 13:09	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		12/08/10 13:09	95-47-6	
Dibromofluoromethane (S)	102	%	70-134		1		12/08/10 13:09	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/08/10 13:09	2037-26-5	
4-Bromofluorobenzene (S)	80	%	69-130		1		12/08/10 13:09	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**77.6**	mg/L	20.0	10.0	5		12/09/10 16:05	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		12/09/10 10:49		

Sample: 120210004 **Lab ID: 4040344004** Collected: 12/02/10 10:34 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**2.6J**	ug/L	2.8	0.93	1		12/15/10 06:55	74-82-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**39.7**	mg/L	20.0	10.0	5		12/09/10 16:17	14808-79-8	

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Sample: 120210004 **Lab ID: 4040344004** Collected: 12/02/10 10:34 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		12/09/10 10:53		

Sample: 120210005 **Lab ID: 4040344005** Collected: 12/02/10 12:03 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**1590**	ug/L	70.0	23.2	25		12/16/10 13:24	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**1.2**	ug/L	0.19	0.018	4	12/09/10 07:30	12/10/10 08:47	83-32-9	
Acenaphthylene	**0.034J**	ug/L	0.19	0.014	4	12/09/10 07:30	12/10/10 08:47	208-96-8	
Anthracene	**0.028J**	ug/L	0.19	0.023	4	12/09/10 07:30	12/10/10 08:47	120-12-7	
Benzo(a)anthracene	**<0.014**	ug/L	0.19	0.014	4	12/09/10 07:30	12/10/10 08:47	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.19	0.011	4	12/09/10 07:30	12/10/10 08:47	50-32-8	
Benzo(b)fluoranthene	**<0.014**	ug/L	0.19	0.014	4	12/09/10 07:30	12/10/10 08:47	205-99-2	
Benzo(g,h,i)perylene	**<0.019**	ug/L	0.19	0.019	4	12/09/10 07:30	12/10/10 08:47	191-24-2	
Benzo(k)fluoranthene	**<0.017**	ug/L	0.19	0.017	4	12/09/10 07:30	12/10/10 08:47	207-08-9	
Chrysene	**<0.014**	ug/L	0.19	0.014	4	12/09/10 07:30	12/10/10 08:47	218-01-9	
Dibenz(a,h)anthracene	**<0.013**	ug/L	0.19	0.013	4	12/09/10 07:30	12/10/10 08:47	53-70-3	
Fluoranthene	**<0.018**	ug/L	0.19	0.018	4	12/09/10 07:30	12/10/10 08:47	206-44-0	
Fluorene	**0.19**	ug/L	0.19	0.019	4	12/09/10 07:30	12/10/10 08:47	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.019**	ug/L	0.19	0.019	4	12/09/10 07:30	12/10/10 08:47	193-39-5	
1-Methylnaphthalene	**0.59**	ug/L	0.19	0.020	4	12/09/10 07:30	12/10/10 08:47	90-12-0	
2-Methylnaphthalene	**0.016J**	ug/L	0.19	0.015	4	12/09/10 07:30	12/10/10 08:47	91-57-6	B
Naphthalene	**0.067J**	ug/L	0.19	0.019	4	12/09/10 07:30	12/10/10 08:47	91-20-3	B,L1
Phenanthrene	**0.071J**	ug/L	0.19	0.032	4	12/09/10 07:30	12/10/10 08:47	85-01-8	
Pyrene	**<0.019**	ug/L	0.19	0.019	4	12/09/10 07:30	12/10/10 08:47	129-00-0	
2-Fluorobiphenyl (S)	34	%	23-130		4	12/09/10 07:30	12/10/10 08:47	321-60-8	
Terphenyl-d14 (S)	86	%	58-144		4	12/09/10 07:30	12/10/10 08:47	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**1960**	ug/L	20.0	8.2	20		12/08/10 16:09	71-43-2	
Ethylbenzene	**417**	ug/L	20.0	10.8	20		12/08/10 16:09	100-41-4	
Toluene	**42.7**	ug/L	20.0	13.4	20		12/08/10 16:09	108-88-3	
m&p-Xylene	**155**	ug/L	40.0	36.0	20		12/08/10 16:09	179601-23-1	
o-Xylene	**146**	ug/L	20.0	16.6	20		12/08/10 16:09	95-47-6	
Dibromofluoromethane (S)	100	%	70-134		20		12/08/10 16:09	1868-53-7	
Toluene-d8 (S)	97	%	70-130		20		12/08/10 16:09	2037-26-5	
4-Bromofluorobenzene (S)	87	%	69-130		20		12/08/10 16:09	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**4.2**	mg/L	4.0	2.0	1		12/09/10 16:29	14808-79-8	

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Sample: 120210005 **Lab ID: 4040344005** Collected: 12/02/10 12:03 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		12/09/10 10:54		

Sample: 120210006 **Lab ID: 4040344006** Collected: 12/02/10 11:23 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**10400**	ug/L	350	116	125		12/16/10 13:33	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**51.2J**	ug/L	118	11.3	2500	12/09/10 07:30	12/09/10 21:37	83-32-9	
Acenaphthylene	**4.1**	ug/L	0.94	0.072	20	12/09/10 07:30	12/09/10 12:15	208-96-8	
Anthracene	**7.5**	ug/L	0.94	0.11	20	12/09/10 07:30	12/09/10 12:15	120-12-7	
Benzo(a)anthracene	**0.14J**	ug/L	0.94	0.072	20	12/09/10 07:30	12/09/10 12:15	56-55-3	
Benzo(a)pyrene	**<0.057**	ug/L	0.94	0.057	20	12/09/10 07:30	12/09/10 12:15	50-32-8	
Benzo(b)fluoranthene	**<0.068**	ug/L	0.94	0.068	20	12/09/10 07:30	12/09/10 12:15	205-99-2	
Benzo(g,h,i)perylene	**<0.096**	ug/L	0.94	0.096	20	12/09/10 07:30	12/09/10 12:15	191-24-2	
Benzo(k)fluoranthene	**<0.087**	ug/L	0.94	0.087	20	12/09/10 07:30	12/09/10 12:15	207-08-9	
Chrysene	**0.17J**	ug/L	0.94	0.070	20	12/09/10 07:30	12/09/10 12:15	218-01-9	
Dibenz(a,h)anthracene	**<0.064**	ug/L	0.94	0.064	20	12/09/10 07:30	12/09/10 12:15	53-70-3	
Fluoranthene	**3.0**	ug/L	0.94	0.088	20	12/09/10 07:30	12/09/10 12:15	206-44-0	
Fluorene	**21.7J**	ug/L	118	11.9	2500	12/09/10 07:30	12/09/10 21:37	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.094**	ug/L	0.94	0.094	20	12/09/10 07:30	12/09/10 12:15	193-39-5	
1-Methylnaphthalene	**150**	ug/L	118	12.5	2500	12/09/10 07:30	12/09/10 21:37	90-12-0	
2-Methylnaphthalene	**13.1**	ug/L	0.94	0.077	20	12/09/10 07:30	12/09/10 12:15	91-57-6	
Naphthalene	**974**	ug/L	118	12.1	2500	12/09/10 07:30	12/09/10 21:37	91-20-3	L1
Phenanthrene	**26.7J**	ug/L	118	20.2	2500	12/09/10 07:30	12/09/10 21:37	85-01-8	
Pyrene	**3.4**	ug/L	0.94	0.095	20	12/09/10 07:30	12/09/10 12:15	129-00-0	
2-Fluorobiphenyl (S)	0	%	23-130		20	12/09/10 07:30	12/09/10 12:15	321-60-8	S4
Terphenyl-d14 (S)	0	%	58-144		20	12/09/10 07:30	12/09/10 12:15	1718-51-0	S4
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**2230**	ug/L	20.0	8.2	20		12/08/10 16:31	71-43-2	
Ethylbenzene	**2600**	ug/L	20.0	10.8	20		12/08/10 16:31	100-41-4	
Toluene	**46.5**	ug/L	20.0	13.4	20		12/08/10 16:31	108-88-3	
m&p-Xylene	**183**	ug/L	40.0	36.0	20		12/08/10 16:31	179601-23-1	
o-Xylene	**499**	ug/L	20.0	16.6	20		12/08/10 16:31	95-47-6	
Dibromofluoromethane (S)	99	%	70-134		20		12/08/10 16:31	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		12/08/10 16:31	2037-26-5	
4-Bromofluorobenzene (S)	91	%	69-130		20		12/08/10 16:31	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**3.7J**	mg/L	4.0	2.0	1		12/09/10 16:41	14808-79-8	

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Sample: 120210006 **Lab ID: 4040344006** Collected: 12/02/10 11:23 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		12/09/10 10:55		

Sample: 120210007 **Lab ID: 4040344007** Collected: 12/02/10 12:58 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**118**	ug/L	2.8	0.93	1		12/15/10 07:22	74-82-8	M1
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**15.5**	ug/L	4.7	0.45	100	12/09/10 07:30	12/09/10 11:41	83-32-9	M6
Acenaphthylene	**200J**	ug/L	236	18.0	5000	12/09/10 07:30	12/09/10 20:45	208-96-8	M6
Anthracene	**11.2**	ug/L	4.7	0.57	100	12/09/10 07:30	12/09/10 11:41	120-12-7	M6
Benzo(a)anthracene	**0.75J**	ug/L	4.7	0.36	100	12/09/10 07:30	12/09/10 11:41	56-55-3	M6
Benzo(a)pyrene	**0.52J**	ug/L	4.7	0.29	100	12/09/10 07:30	12/09/10 11:41	50-32-8	M6
Benzo(b)fluoranthene	**<0.34**	ug/L	4.7	0.34	100	12/09/10 07:30	12/09/10 11:41	205-99-2	M6
Benzo(g,h,i)perylene	**<0.48**	ug/L	4.7	0.48	100	12/09/10 07:30	12/09/10 11:41	191-24-2	M6
Benzo(k)fluoranthene	**<0.44**	ug/L	4.7	0.44	100	12/09/10 07:30	12/09/10 11:41	207-08-9	M6
Chrysene	**0.94J**	ug/L	4.7	0.35	100	12/09/10 07:30	12/09/10 11:41	218-01-9	M6
Dibenz(a,h)anthracene	**<0.32**	ug/L	4.7	0.32	100	12/09/10 07:30	12/09/10 11:41	53-70-3	M6
Fluoranthene	**4.3J**	ug/L	4.7	0.44	100	12/09/10 07:30	12/09/10 11:41	206-44-0	M6
Fluorene	**47.9**	ug/L	4.7	0.48	100	12/09/10 07:30	12/09/10 11:41	86-73-7	M6
Indeno(1,2,3-cd)pyrene	**<0.47**	ug/L	4.7	0.47	100	12/09/10 07:30	12/09/10 11:41	193-39-5	M6
1-Methylnaphthalene	**251**	ug/L	236	25.0	5000	12/09/10 07:30	12/09/10 20:45	90-12-0	M6
2-Methylnaphthalene	**144J**	ug/L	236	19.3	5000	12/09/10 07:30	12/09/10 20:45	91-57-6	M6
Naphthalene	**1340**	ug/L	236	24.2	5000	12/09/10 07:30	12/09/10 20:45	91-20-3	L1,M6
Phenanthrene	**33.9**	ug/L	4.7	0.81	100	12/09/10 07:30	12/09/10 11:41	85-01-8	M6
Pyrene	**5.5**	ug/L	4.7	0.47	100	12/09/10 07:30	12/09/10 11:41	129-00-0	M6
2-Fluorobiphenyl (S)	0	%	23-130		100	12/09/10 07:30	12/09/10 11:41	321-60-8	S4
Terphenyl-d14 (S)	0	%	58-144		100	12/09/10 07:30	12/09/10 11:41	1718-51-0	S4
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**2230**	ug/L	25.0	10.2	25		12/08/10 15:47	71-43-2	
Ethylbenzene	**227**	ug/L	25.0	13.5	25		12/08/10 15:47	100-41-4	
Toluene	**360**	ug/L	25.0	16.8	25		12/08/10 15:47	108-88-3	
m&p-Xylene	**185**	ug/L	50.0	45.0	25		12/08/10 15:47	179601-23-1	
o-Xylene	**82.5**	ug/L	25.0	20.8	25		12/08/10 15:47	95-47-6	
Dibromofluoromethane (S)	104	%	70-134		25		12/08/10 15:47	1868-53-7	
Toluene-d8 (S)	95	%	70-130		25		12/08/10 15:47	2037-26-5	
4-Bromofluorobenzene (S)	85	%	69-130		25		12/08/10 15:47	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**235**	mg/L	40.0	20.0	10		12/09/10 16:53	14808-79-8	

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Sample: 120210007 **Lab ID: 4040344007** Collected: 12/02/10 12:58 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		12/09/10 10:56		

Sample: 120210008 **Lab ID: 4040344008** Collected: 12/02/10 13:25 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**<0.93**	ug/L	2.8	0.93	1		12/15/10 07:31	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.054**	ug/L	0.047	0.0045	1	12/09/10 07:30	12/09/10 16:40	83-32-9	
Acenaphthylene	**0.012J**	ug/L	0.047	0.0036	1	12/09/10 07:30	12/09/10 16:40	208-96-8	
Anthracene	**0.011J**	ug/L	0.047	0.0057	1	12/09/10 07:30	12/09/10 16:40	120-12-7	
Benzo(a)anthracene	**0.0070J**	ug/L	0.047	0.0036	1	12/09/10 07:30	12/09/10 16:40	56-55-3	
Benzo(a)pyrene	**0.0057J**	ug/L	0.047	0.0029	1	12/09/10 07:30	12/09/10 16:40	50-32-8	
Benzo(b)fluoranthene	**<0.0034**	ug/L	0.047	0.0034	1	12/09/10 07:30	12/09/10 16:40	205-99-2	
Benzo(g,h,i)perylene	**<0.0048**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 16:40	191-24-2	
Benzo(k)fluoranthene	**0.0072J**	ug/L	0.047	0.0044	1	12/09/10 07:30	12/09/10 16:40	207-08-9	
Chrysene	**0.0078J**	ug/L	0.047	0.0035	1	12/09/10 07:30	12/09/10 16:40	218-01-9	
Dibenz(a,h)anthracene	**<0.0032**	ug/L	0.047	0.0032	1	12/09/10 07:30	12/09/10 16:40	53-70-3	
Fluoranthene	**0.011J**	ug/L	0.047	0.0044	1	12/09/10 07:30	12/09/10 16:40	206-44-0	
Fluorene	**0.019J**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 16:40	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0047**	ug/L	0.047	0.0047	1	12/09/10 07:30	12/09/10 16:40	193-39-5	
1-Methylnaphthalene	**0.15**	ug/L	0.047	0.0050	1	12/09/10 07:30	12/09/10 16:40	90-12-0	
2-Methylnaphthalene	**0.071**	ug/L	0.047	0.0039	1	12/09/10 07:30	12/09/10 16:40	91-57-6	B
Naphthalene	**1.1**	ug/L	0.094	0.0097	2	12/09/10 07:30	12/10/10 11:07	91-20-3	B,L1
Phenanthrene	**0.023J**	ug/L	0.047	0.0081	1	12/09/10 07:30	12/09/10 16:40	85-01-8	
Pyrene	**0.014J**	ug/L	0.047	0.0047	1	12/09/10 07:30	12/09/10 16:40	129-00-0	
2-Fluorobiphenyl (S)	49	%	23-130		1	12/09/10 07:30	12/09/10 16:40	321-60-8	
Terphenyl-d14 (S)	85	%	58-144		1	12/09/10 07:30	12/09/10 16:40	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		12/08/10 13:31	71-43-2	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		12/08/10 13:31	100-41-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		12/08/10 13:31	108-88-3	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		12/08/10 13:31	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		12/08/10 13:31	95-47-6	
Dibromofluoromethane (S)	101	%	70-134		1		12/08/10 13:31	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		12/08/10 13:31	2037-26-5	
4-Bromofluorobenzene (S)	79	%	69-130		1		12/08/10 13:31	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2.8J**	mg/L	4.0	2.0	1		12/09/10 17:54	14808-79-8	

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Sample: 120210008 **Lab ID: 4040344008** Collected: 12/02/10 13:25 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		12/09/10 10:59		

Sample: 120210009 **Lab ID: 4040344009** Collected: 12/02/10 13:55 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**12100**	ug/L	560	185	200		12/16/10 13:42	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**135**	ug/L	118	11.3	2500	12/09/10 07:30	12/09/10 21:54	83-32-9	
Acenaphthylene	**3.0**	ug/L	0.94	0.072	20	12/09/10 07:30	12/09/10 12:33	208-96-8	
Anthracene	**36.3J**	ug/L	118	14.3	2500	12/09/10 07:30	12/09/10 21:54	120-12-7	
Benzo(a)anthracene	**5.4**	ug/L	0.94	0.072	20	12/09/10 07:30	12/09/10 12:33	56-55-3	
Benzo(a)pyrene	**4.0**	ug/L	0.94	0.057	20	12/09/10 07:30	12/09/10 12:33	50-32-8	
Benzo(b)fluoranthene	**2.1**	ug/L	0.94	0.068	20	12/09/10 07:30	12/09/10 12:33	205-99-2	
Benzo(g,h,i)perylene	**1.8**	ug/L	0.94	0.096	20	12/09/10 07:30	12/09/10 12:33	191-24-2	
Benzo(k)fluoranthene	**2.1**	ug/L	0.94	0.087	20	12/09/10 07:30	12/09/10 12:33	207-08-9	
Chrysene	**4.8**	ug/L	0.94	0.070	20	12/09/10 07:30	12/09/10 12:33	218-01-9	
Dibenz(a,h)anthracene	**0.35J**	ug/L	0.94	0.064	20	12/09/10 07:30	12/09/10 12:33	53-70-3	
Fluoranthene	**14.9**	ug/L	0.94	0.088	20	12/09/10 07:30	12/09/10 12:33	206-44-0	
Fluorene	**39.4J**	ug/L	118	11.9	2500	12/09/10 07:30	12/09/10 21:54	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.2**	ug/L	0.94	0.094	20	12/09/10 07:30	12/09/10 12:33	193-39-5	
1-Methylnaphthalene	**151**	ug/L	118	12.5	2500	12/09/10 07:30	12/09/10 21:54	90-12-0	
2-Methylnaphthalene	**155**	ug/L	118	9.6	2500	12/09/10 07:30	12/09/10 21:54	91-57-6	
Naphthalene	**1110**	ug/L	118	12.1	2500	12/09/10 07:30	12/09/10 21:54	91-20-3	L1
Phenanthrene	**90.8J**	ug/L	118	20.2	2500	12/09/10 07:30	12/09/10 21:54	85-01-8	
Pyrene	**20.3J**	ug/L	118	11.9	2500	12/09/10 07:30	12/09/10 21:54	129-00-0	
2-Fluorobiphenyl (S)	0	%	23-130		20	12/09/10 07:30	12/09/10 12:33	321-60-8	S4
Terphenyl-d14 (S)	0	%	58-144		20	12/09/10 07:30	12/09/10 12:33	1718-51-0	S4
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**3850**	ug/L	40.0	16.4	40		12/08/10 16:54	71-43-2	
Ethylbenzene	**275**	ug/L	40.0	21.6	40		12/08/10 16:54	100-41-4	
Toluene	**<26.8**	ug/L	40.0	26.8	40		12/08/10 16:54	108-88-3	
m&p-Xylene	**<72.0**	ug/L	80.0	72.0	40		12/08/10 16:54	179601-23-1	
o-Xylene	**82.1**	ug/L	40.0	33.2	40		12/08/10 16:54	95-47-6	
Dibromofluoromethane (S)	102	%	70-134		40		12/08/10 16:54	1868-53-7	
Toluene-d8 (S)	96	%	70-130		40		12/08/10 16:54	2037-26-5	
4-Bromofluorobenzene (S)	87	%	69-130		40		12/08/10 16:54	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2.2J**	mg/L	4.0	2.0	1		12/09/10 18:07	14808-79-8	

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Sample: 120210009 **Lab ID: 4040344009** Collected: 12/02/10 13:55 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		12/09/10 11:00		

Sample: 120210010 **Lab ID: 4040344010** Collected: 12/02/10 14:15 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
Methane	**1220**	ug/L	56.0	18.5	20		12/16/10 13:51	74-82-8	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.022J**	ug/L	0.047	0.0045	1	12/09/10 07:30	12/09/10 16:57	83-32-9	
Acenaphthylene	**0.0075J**	ug/L	0.047	0.0036	1	12/09/10 07:30	12/09/10 16:57	208-96-8	
Anthracene	**0.0084J**	ug/L	0.047	0.0057	1	12/09/10 07:30	12/09/10 16:57	120-12-7	
Benzo(a)anthracene	**<0.0036**	ug/L	0.047	0.0036	1	12/09/10 07:30	12/09/10 16:57	56-55-3	
Benzo(a)pyrene	**<0.0029**	ug/L	0.047	0.0029	1	12/09/10 07:30	12/09/10 16:57	50-32-8	
Benzo(b)fluoranthene	**<0.0034**	ug/L	0.047	0.0034	1	12/09/10 07:30	12/09/10 16:57	205-99-2	
Benzo(g,h,i)perylene	**<0.0048**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 16:57	191-24-2	
Benzo(k)fluoranthene	**<0.0044**	ug/L	0.047	0.0044	1	12/09/10 07:30	12/09/10 16:57	207-08-9	
Chrysene	**<0.0035**	ug/L	0.047	0.0035	1	12/09/10 07:30	12/09/10 16:57	218-01-9	
Dibenz(a,h)anthracene	**<0.0032**	ug/L	0.047	0.0032	1	12/09/10 07:30	12/09/10 16:57	53-70-3	
Fluoranthene	**0.0055J**	ug/L	0.047	0.0044	1	12/09/10 07:30	12/09/10 16:57	206-44-0	
Fluorene	**0.0083J**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 16:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0047**	ug/L	0.047	0.0047	1	12/09/10 07:30	12/09/10 16:57	193-39-5	
1-Methylnaphthalene	**0.027J**	ug/L	0.047	0.0050	1	12/09/10 07:30	12/09/10 16:57	90-12-0	
2-Methylnaphthalene	**0.016J**	ug/L	0.047	0.0039	1	12/09/10 07:30	12/09/10 16:57	91-57-6	B
Naphthalene	**0.15**	ug/L	0.047	0.0048	1	12/09/10 07:30	12/09/10 16:57	91-20-3	B,L1
Phenanthrene	**0.011J**	ug/L	0.047	0.0081	1	12/09/10 07:30	12/09/10 16:57	85-01-8	
Pyrene	**0.0069J**	ug/L	0.047	0.0047	1	12/09/10 07:30	12/09/10 16:57	129-00-0	
2-Fluorobiphenyl (S)	50	%	23-130		1	12/09/10 07:30	12/09/10 16:57	321-60-8	
Terphenyl-d14 (S)	87	%	58-144		1	12/09/10 07:30	12/09/10 16:57	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		12/08/10 13:54	71-43-2	
Ethylbenzene	**0.74J**	ug/L	1.0	0.54	1		12/08/10 13:54	100-41-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		12/08/10 13:54	108-88-3	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		12/08/10 13:54	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		12/08/10 13:54	95-47-6	
Dibromofluoromethane (S)	101	%	70-134		1		12/08/10 13:54	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		12/08/10 13:54	2037-26-5	
4-Bromofluorobenzene (S)	81	%	69-130		1		12/08/10 13:54	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**6.8**	mg/L	4.0	2.0	1		12/09/10 18:19	14808-79-8	

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ANALYTICAL RESULTS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

Sample: 120210010 **Lab ID: 4040344010** Collected: 12/02/10 14:15 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.12**	mg/L	0.25	0.12	1		12/09/10 11:01		

Sample: TRIP BLANK **Lab ID: 4040344011** Collected: 12/02/10 00:00 Received: 12/03/10 14:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		12/08/10 09:23	71-43-2	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		12/08/10 09:23	100-41-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		12/08/10 09:23	108-88-3	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		12/08/10 09:23	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		12/08/10 09:23	95-47-6	
Dibromofluoromethane (S)	96	%	70-134		1		12/08/10 09:23	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/08/10 09:23	2037-26-5	
4-Bromofluorobenzene (S)	83	%	69-130		1		12/08/10 09:23	460-00-4	

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QUALITY CONTROL DATA

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

QC Batch: GCV/6035 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 4040344001, 4040344003, 4040344004, 4040344005, 4040344006, 4040344007, 4040344008, 4040344009, 4040344010

METHOD BLANK: 396016 Matrix: Water
Associated Lab Samples: 4040344001, 4040344003, 4040344004, 4040344005, 4040344006, 4040344007, 4040344008, 4040344009, 4040344010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.93	2.8	12/15/10 06:21	

LABORATORY CONTROL SAMPLE & LCSD: 396017 396018

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.4	26.4	26.0	93	92	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 396019 396020

Parameter	Units	4040344007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	118	28.4	28.4	63.2	81.3	-194	-130	74-125	25	20	D6,M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

QC Batch: OEXT/10063 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 4040344001, 4040344002, 4040344003, 4040344005, 4040344006, 4040344007, 4040344008, 4040344009, 4040344010

METHOD BLANK: 393754 Matrix: Water
Associated Lab Samples: 4040344001, 4040344002, 4040344003, 4040344005, 4040344006, 4040344007, 4040344008, 4040344009, 4040344010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0053	0.050	12/09/10 11:06	
2-Methylnaphthalene	ug/L	0.0059J	0.050	12/09/10 11:06	
Acenaphthene	ug/L	<0.0048	0.050	12/09/10 11:06	
Acenaphthylene	ug/L	<0.0038	0.050	12/09/10 11:06	
Anthracene	ug/L	<0.0061	0.050	12/09/10 11:06	
Benzo(a)anthracene	ug/L	<0.0038	0.050	12/09/10 11:06	
Benzo(a)pyrene	ug/L	<0.0030	0.050	12/09/10 11:06	
Benzo(b)fluoranthene	ug/L	<0.0036	0.050	12/09/10 11:06	
Benzo(g,h,i)perylene	ug/L	<0.0051	0.050	12/09/10 11:06	
Benzo(k)fluoranthene	ug/L	<0.0046	0.050	12/09/10 11:06	
Chrysene	ug/L	<0.0037	0.050	12/09/10 11:06	
Dibenz(a,h)anthracene	ug/L	<0.0034	0.050	12/09/10 11:06	
Fluoranthene	ug/L	<0.0047	0.050	12/09/10 11:06	
Fluorene	ug/L	<0.0051	0.050	12/09/10 11:06	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0050	0.050	12/09/10 11:06	
Naphthalene	ug/L	0.034J	0.050	12/09/10 11:06	
Phenanthrene	ug/L	<0.0086	0.050	12/09/10 11:06	
Pyrene	ug/L	<0.0050	0.050	12/09/10 11:06	
2-Fluorobiphenyl (S)	%	52	23-130	12/09/10 11:06	
Terphenyl-d14 (S)	%	110	58-144	12/09/10 11:06	

LABORATORY CONTROL SAMPLE: 393755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.16	82	27-130	
2-Methylnaphthalene	ug/L	.2	0.16	80	27-130	
Acenaphthene	ug/L	.2	0.14	70	32-130	
Acenaphthylene	ug/L	.2	0.16	79	32-130	
Anthracene	ug/L	.2	0.15	76	27-130	
Benzo(a)anthracene	ug/L	.2	0.21	103	43-130	
Benzo(a)pyrene	ug/L	.2	0.19	95	57-130	
Benzo(b)fluoranthene	ug/L	.2	0.20	98	42-130	
Benzo(g,h,i)perylene	ug/L	.2	0.21	107	55-130	
Benzo(k)fluoranthene	ug/L	.2	0.23	117	66-138	
Chrysene	ug/L	.2	0.22	109	68-130	
Dibenz(a,h)anthracene	ug/L	.2	0.20	98	35-130	
Fluoranthene	ug/L	.2	0.18	90	44-130	
Fluorene	ug/L	.2	0.14	72	31-130	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.21	104	46-130	
Naphthalene	ug/L	.2	0.45	225	27-130	L0

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QUALITY CONTROL DATA

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

LABORATORY CONTROL SAMPLE: 393755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	.2	0.15	75	30-130	
Pyrene	ug/L	.2	0.18	90	40-130	
2-Fluorobiphenyl (S)	%			58	23-130	
Terphenyl-d14 (S)	%			128	58-144	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393756 393757

Parameter	Units	4040344007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	251	.19	.19	290	267	20700	8750	11-130	8	50	M6
2-Methylnaphthalene	ug/L	144J	.19	.19	165J	234J	11000	47700	10-130		50	M6
Acenaphthene	ug/L	15.5	.19	.19	<22.6	<22.6	1800	1300	16-130		42	M6
Acenaphthylene	ug/L	200J	.19	.19	230J	231J	16000	16700	10-130		41	M6
Anthracene	ug/L	11.2	.19	.19	<28.7	<28.7	1560	6310	10-130		39	M6
Benzo(a)anthracene	ug/L	0.75J	.19	.19	<18.1	<18.1	-400	-400	54-130		20	M6
Benzo(a)pyrene	ug/L	0.52J	.19	.19	<14.3	<14.3	-275	-275	55-130		20	M6
Benzo(b)fluoranthene	ug/L	<0.34	.19	.19	<17.0	<17.0	0	0	48-130		23	M6
Benzo(g,h,i)perylene	ug/L	<0.48	.19	.19	<24.1	<24.1	0	0	53-130		21	M6
Benzo(k)fluoranthene	ug/L	<0.44	.19	.19	<21.8	<21.8	-225	-225	53-135		20	M6
Chrysene	ug/L	0.94J	.19	.19	<17.4	<17.4	-500	-500	60-130		20	M6
Dibenz(a,h)anthracene	ug/L	<0.32	.19	.19	<16.0	<16.0	0	0	49-130		20	M6
Fluoranthene	ug/L	4.3J	.19	.19	<22.0	<22.0	-2300	-2300	34-130		33	M6
Fluorene	ug/L	47.9	.19	.19	38.7J	59.4J	-4900	6090	10-130		44	M6
Indeno(1,2,3-cd)pyrene	ug/L	<0.47	.19	.19	<23.4	<23.4	0	0	50-130		20	M6
Naphthalene	ug/L	1340	.19	.19	1980	1660	339000	171000	10-130	17	50	M6
Phenanthrene	ug/L	33.9	.19	.19	<40.5	57.5J	-3450	12500	12-130		40	M6
Pyrene	ug/L	5.5	.19	.19	<23.7	<23.7	-2940	-2940	41-130		29	M6
2-Fluorobiphenyl (S)	%						0	0	23-130			S4
Terphenyl-d14 (S)	%						0	0	58-144			S4

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QUALITY CONTROL DATA

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

QC Batch: MSV/9817 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 4040344001, 4040344002, 4040344003, 4040344005, 4040344006, 4040344007, 4040344008, 4040344009, 4040344010, 4040344011

METHOD BLANK: 393213 Matrix: Water
Associated Lab Samples: 4040344001, 4040344002, 4040344003, 4040344005, 4040344006, 4040344007, 4040344008, 4040344009, 4040344010, 4040344011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.41	1.0	12/08/10 07:31	
Ethylbenzene	ug/L	<0.54	1.0	12/08/10 07:31	
m&p-Xylene	ug/L	<1.8	2.0	12/08/10 07:31	
o-Xylene	ug/L	<0.83	1.0	12/08/10 07:31	
Toluene	ug/L	<0.67	1.0	12/08/10 07:31	
4-Bromofluorobenzene (S)	%	86	69-130	12/08/10 07:31	
Dibromofluoromethane (S)	%	90	70-134	12/08/10 07:31	
Toluene-d8 (S)	%	95	70-130	12/08/10 07:31	

LABORATORY CONTROL SAMPLE & LCSD: 393214 393215

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	51.8	51.0	104	102	70-130	2	20	
Ethylbenzene	ug/L	50	54.0	54.5	108	109	70-130	.9	20	
m&p-Xylene	ug/L	100	113	113	113	113	70-130	.2	20	
o-Xylene	ug/L	50	53.5	53.8	107	108	70-130	.6	20	
Toluene	ug/L	50	51.9	52.3	104	105	70-130	.8	20	
4-Bromofluorobenzene (S)	%				90	91	69-130			
Dibromofluoromethane (S)	%				96	103	70-134			
Toluene-d8 (S)	%				96	96	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393216 393217

Parameter	Units	4040344007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	2230	1250	1250	3810	3540	126	105	70-130	7	20	
Ethylbenzene	ug/L	227	1250	1250	1750	1740	122	121	70-130	.5	20	
m&p-Xylene	ug/L	185	2500	2500	3310	3250	125	123	70-130	2	20	
o-Xylene	ug/L	82.5	1250	1250	1580	1550	120	118	70-130	2	20	
Toluene	ug/L	360	1250	1250	1790	1790	115	115	70-130	.1	20	
4-Bromofluorobenzene (S)	%						90	91	69-130			
Dibromofluoromethane (S)	%						108	101	70-134			
Toluene-d8 (S)	%						99	97	70-130			

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QUALITY CONTROL DATA

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

QC Batch: WETA/7988 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4040344001, 4040344003, 4040344004, 4040344005, 4040344006, 4040344007, 4040344008, 4040344009, 4040344010

METHOD BLANK: 393988 Matrix: Water
Associated Lab Samples: 4040344001, 4040344003, 4040344004, 4040344005, 4040344006, 4040344007, 4040344008, 4040344009, 4040344010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	12/09/10 15:28	

LABORATORY CONTROL SAMPLE: 393989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.0	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393990 393991

Parameter	Units	4040344007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	235	200	200	422	421	94	93	90-110	.4	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

QC Batch: WETA/7981 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 4040344001, 4040344003, 4040344004, 4040344005, 4040344006, 4040344007, 4040344008, 4040344009, 4040344010

METHOD BLANK: 393583 Matrix: Water
Associated Lab Samples: 4040344001, 4040344003, 4040344004, 4040344005, 4040344006, 4040344007, 4040344008, 4040344009, 4040344010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.12	0.25	12/09/10 10:34	

LABORATORY CONTROL SAMPLE: 393584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.7	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393585 393586

Parameter	Units	4040344007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.12	2.5	2.5	2.6	2.5	103	100	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393587 393588

Parameter	Units	4040344010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.12	2.5	2.5	2.6	2.6	103	102	90-110	.6	20	

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QUALIFIERS

Project: 1313 CAMP MARINA FORMER MGP
Pace Project No.: 4040344

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.

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 NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

Sample Control Log

1313-SCL-002

Project Name: WPSC Campmarina MGP Site
Project ID: 1313 / CERCLIS ID WIN000510058
Task ID: 6.4

Analytical Laboratory: Pace
Geotechnical Laboratory: NA
Field Staff ID(s): SAG JJC

Month (2-digit)	Date (2-digit)	Year (2-digit)	Sample Number (3-digit)	Unique Sample ID	Sample Media	Sample Location	Sample Depth (feet)	QC Sample Information (duplicate, blank, etc...)	COC Number	Notes (turnaround time, handling notes
12	02	10	001	120210001	GW	MW-709R		None	1313001 1313003	–
12	02	10	002	120210002		MW-709R		Duplicate		Duplicate
12	02	10	003	120210003		MW-708		None		–
12	02	10	004	120210004		SW-6		None		RUSH only
12	02	10	005	120210005		PZ-703		None		–
12	02	10	006	120210006		MW-707R		None		–
12	02	10	007	120210007		MW-706		None	↓	MS/MSD
12	02	10	008	120210008		PZ-702		None	1313002	–
12	02	10	009	120210009		MW-701R		None		–
12	02	10	010	120210010		PZ-701		None	↓ ↓	–
~~SAG 12~~	~~02~~	~~10~~	~~011~~	~~120210011~~	↓	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
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Natural Resource Technology

WELL CONDITION FIELD FORM

Site : WPSC Campmarina MGP Site

Project # : 1313 / CERCLIS ID WIN000510058

Task # : 64

Date : Dec 2 2010

Samplers : SAG
JTW SAG

	EVERY SAMPLING EVENT									AT LEAST ONCE A YEAR			
Location	Surface Seal	Lid	Gasket	Lock	Cap	Protection (bumper posts etc.)	Bailer	Pump	Well Casing	Expected Well Depth (feet)	Field Measured Well Depth (feet)	Well Base Sediment Thickness (feet)	Field Comments:
PZ-701	G	G	G	G	G	NA	na	NA	G	33.65	Nm	Nm	—
MW-701R	G	G	G	G	G	NA		NA		12.40			—
PZ-702	G	G	G	G	G	NA		NA		47.35			—
PZ-703	G	G	G	G	G	NA		NA		33.28			—
MW-705	G	G	G	G	G	NA		NA		16.76			REPLACED Bolt
MW-706	G	G	G	G	G	NA		NA		13.50			—
MW-707R	G	G	G	G	G	NA		NA		11.89			—
MW-708	G	G	G	G	G	NA		NA		18.95			—
MW-709R	G	G	G	G	G	NA		NA		15.58			—
BW-6	G	G	G	G	G	NA		NA		23.00			—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
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—	—	—	—	—	—	—	—	—	—		—	—	—

P : Poor - Potential or Evident Sample Integrity Issues (additional comments required, picture(s) desirable)
F : Fair - Future Sample Integrity May Be Compromised if Well Repair/Upgrade is Not Undertaken (additional comments required, picture(s) desirable)
G : Good (additional comments not required)
n/a : Not Applicable

WELL LEVEL AND FIELD PARAMETERS FIELD FORM

General Information

Site : WPSC Campmarina MGP
Project # : 1313 / CERCLIS ID WIN000510058
Task # : 6.4
Date : Dec 2 2010
Samplers : SAG JJW

Water Level Indicator Serial # : Heron 11850
Purge Device and Serial # : MP 20 07D
Quality Probe Type and Serial # : GeoPump
Calibration Check : Dec 2 2010 1500
—
—

Location	Time (military)	Depth to Water (feet below TOC)	Product Top Depth (feet below TOC)	Product Bottom Depth (feet below TOC)	Product Notes	Time (military)	pH (su)	Conductivity (us/cm)	Temperature (°C)	Oxidation/Reduction Potential (ORP) (mV)	Turbidity (NTU)	Dissolved Oxygen (DO) (mg/L)	Field Comments
PZ-701	1400	6.56	na	na	none	1405	7.46	0.405	9.42	226	4.5	0.66	none
MW-701R	1345	6.61	na	na		1355	6.76	2.27	11.52	-203	20.1	0.66	
PZ-702	1310	7.15				1325	8.16	0.203	11.00	-192	8.2	1.82	
PZ-703	1145	6.00				1203	9.98	1.070	9.01	-283	16.1	1.50	
MW-706 MW-705	1244	9.12				1258	7.32	1.323	12.74	-264	14.1	0.80	
MW-705 MW-706	1105	7.15				Water level only							
MW-707R	1059	4.90				1123	7.18	1.58	9.77	-238	6.0	0.48	
MW-708	950	11.20				958	7.23	4.43	12.55	-92	7.4	0.97	
MW-709R	855	5.62				910	7.09	2.45	10.59	-214	9.7	0.61	
BW-6	1025	11.70				1034	7.63	0.179	10.54	-111	128	0.92	
Sump	1500	6.07				Water level only							
Staff Gauge	14:05	4.79 Ice	na	na		Water level only							
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—

n/a : Not Applicable nm : Not Measured TOC: Top of Well Casing

P:\1500\1515\Field Documentation\1313-Camp Marina Sheboygan\Field Notebook 002-needs edits\1313-WLFP-002 Front

Natural Resource Technology

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: Dec 2 2010 Time: 1400
Field Personnel:
Finish Date: Dec 2 2010 Time: 1415

WELL INFORMATION

Well ID: **PZ-701**
Casing ID: 2 Inches
Screen Interval: 23.65-33.65
Borehole Diameter: unknown Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: Geo Mip
Tube/Pump Intake Depth: 28.65
Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	6.56	1400	8.64	1415
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: na Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial #:

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1400	NA	6.56	NA	9.93	7.62	0.404	1.43	9.3	-226	Clear
purge	1403	—	7.40		9.50	7.57	0.409	1.30	6.6	-226	↓
	1408	—	7.63		9.43	7.51	0.404	1.11	5.4	-226	↓
	1410	—	7.80		9.44	7.48	0.406	0.92	4.9	-226	↓
↓	1413	—	8.09		9.43	7.47	0.405	0.78	4.7	-226	↓
Sample	1415	1 gal	8.64		9.42	7.46	0.405	0.66	4.5	-226	↓

NOTES

DTO

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: Dec 2 2010 Time: 1345
Field Personnel: JTW
Finish Date: Dec 2 2010 Time: 1355

WELL INFORMATION

Well ID: MW-701R
Casing ID: 2 Inches
Screen Interval: 7.40-12.40
Borehole Diameter: Unknown Inches
Filter Pack Interval: NA

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200ml/minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	6.61	1345	7.76	1355
DNAPL	NA			
Casing Base	NA			

Water Level Serial #: Heron

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot: NA
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: NA Gallons
5 Well Volumes: Gallons 10 Well Volumes: NA Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [x] No

Water Quality Probe Type and Serial # YSI MP20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1345	NA	~~6.88~~ 6.61	NA	11.42	6.82	2.28	2.06	100	-19	Slight Lt Brown
purge	1348	=	7.03		11.53	6.74	2.29	0.84	50.1	-194	clear
↓	1351	=	7.61		11.53	6.75	2.27	0.76	39.3	-203	↓
Sample	1355	=	7.96		11.52	6.76	2.27	0.66	20.1	-203	↓

NOTES

DTW 6.61

~~7~~ 009

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 1.04
Start Date: Dec 2 2010 Time: 1310
Field Personnel: SAG JSW
Finish Date: Dec 2 2010 Time: 1325

WELL INFORMATION

Well ID: PZ-702
Casing ID: 2 Inches
Screen Interval: 37.35-47.35
Borehole Diameter: unknown Inches
Filter Pack Interval: ↓

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth: 42.35
Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na			
Groundwater	7.15	13.10	8.31	1325
DNAPL	na			
Casing Base	na			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: na Gallons
5 Well Volumes: ↓ Gallons 10 Well Volumes: ↓ Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # YSI MP 20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1310	na	7.15	na	11.34	8.22	0.215	2.74	159	-208	Clear
purge	1313	—	7.75		11.39	8.15	0.208	2.34	12.8	-203	↓
	1316	—	7.96		11.28	8.14	0.206	2.24	9.3	-200	↓
	1319	—	7.99		11.13	8.18	0.205	1.90	8.2	-197	↓
	1322	—	8.09		11.10	8.17	0.203	1.82	8.2	-194	↓
Sample	1325	1.25	8.31		11.00	8.16	0.203	1.82	8.2	-192	↓
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

NOTES

#008

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: Dec 2 2018 Time: 1145
Field Personnel: BG JW
Finish Date: Dec 2 2018 Time: 1203

WELL INFORMATION

Well ID: PZ-703
Casing ID: 2 Inches
Screen Interval: 23.28-33.28
Borehole Diameter: Unknown Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth: ~ 28.28
Stabilized Pumping Rate: 200ml/minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na			
Groundwater	6.00	1145	8.62	1203
DNAPL	na			
Casing Base	na			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: feet
1 Well Volume: Gallons
3 Well Volumes: na Gallons
5 Well Volumes: Gallons
10 Well Volumes: Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # YSI MP20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1145	na	6.00	na	4.43	9.29	0.907	5.17	23.4	-244	Clear
purge	1148	—	6.83		8.63	9.75	1.026	3.55	23.6	-267	↓
	1151	—	7.08		2.43	9.78	0.989	2.51	21.5	-264	↓
	1155	—	7.65		0.76	9.99	1.012	2.32	19.9	-284	↓
↓	1158	—	8.11		0.96	9.98	1.071	1.72	14.9	-285	↓
sample	1203	1.50	8.62		9.01	9.98	1.070	1.50	16.1	-283	↓

NOTES

#005

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: Dec 2 2010 Time: 1244
Field Personnel: SAG JSW
Finish Date: Dec 2 2010 Time: 1258

WELL INFORMATION

Well ID: MW-706
Casing ID: 2 Inches
Screen Interval: 3.50-13.50
Borehole Diameter: unknown Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth: 8.50
Stabilized Pumping Rate: 200 mls moveto

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	→	→	→
Groundwater	9.12	1244	9.71	1258
DNAPL	na	→	→	→
Casing Base	na	→	→	→

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: feet
1 Well Volume: Gallons
3 Well Volumes: na Gallons
5 Well Volumes: ↓ Gallons
10 Well Volumes: ↓ Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # MP 20 QFD

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1244	na	9.12	na	12.67	7.67	1.367	1.68	50.2	-289	clear
purge	1248	—	9.60		12.92	7.50	1.345	1.06	41.3	-287	↓
↓	1251	—	9.66		12.93	7.30	1.326	0.83	29.1	-271	↓
↓	1255	—	9.68		12.75	7.33	1.324	0.80	14.0	-265	↓
sample	1258	.5	9.71		12.74	7.32	1.323	0.80	14.1	-264	↓
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

NOTES

MS/MSD 007

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: Dec 2 2010 Time: 1059
Field Personnel: SAS JJW
Finish Date: Dec 2 2010 Time: 1123

WELL INFORMATION

Well ID: MW-707R
Casing ID: 2 Inches
Screen Interval: 1.89-11.89
Borehole Diameter: Unknown Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth: 1.89
Stabilized Pumping Rate: 200 mls/minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na			
Groundwater	4.90	1059	5.01	1123
DNAPL	na			
Casing Base	na			

Water Level Serial #: Heron

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: feet
1 Well Volume: Gallons
3 Well Volumes: na Gallons
5 Well Volumes: Gallons
10 Well Volumes: Gallons
Total Volumes Produced: na Gallons
Well Purged Dry? ☐ Yes ☒ No
Water Quality Probe Type and Serial # QED MP 20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1059	na	4.90	na	10.86	7.25	3.38	4.17	22.1	-236	clear
purge	1103	0.2	5.06		10.58	7.23	3.55	0.96	11.6	-233	clear
	1106	0.4	5.07		2.17	7.21	1.58	1.11	10.3	-241	clear
	1109	0.6	5.08		10.19	7.21	3.22	1.91	8.2	-236	clear
	1114	0.8	5.01		7.84	7.22	2.93	1.27	9.7	-232	clear
	1117	1.0	5.01		8.53	7.21	1.57	1.07	6.7	-241	clear
	1120	1.2	5.01		8.61	7.22	2.82	0.94	6.0	-239	clear
Sample	1123	1.4	5.01		9.77	7.18	1.58	0.48	6.0	-238	clear

~3.0

NOTES

#0006

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: Dec 2 2010 Time: 9.50
Field Personnel: DHO JSO
Finish Date: Dec 2 2010 Time: 9.58

WELL INFORMATION

Well ID: MW-708
Casing ID: 2 Inches
Screen Interval: 3.95-18.95
Borehole Diameter: Unknown Inches
Filter Pack Interval: ↓

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth: 10.95
Stabilized Pumping Rate: 200 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	Na			
Groundwater	11.20	950	11.93	9.58
DNAPL	Na			
Casing Base	Na			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: Na
Standing Water Column: feet
1 Well Volume: Gallons
3 Well Volumes: Na Gallons
5 Well Volumes: Gallons
10 Well Volumes: ↓ Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # QED MP 20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	950	Na	11.20	Na	10.76	7.34	4.50	1.81	~~99~~ 20.0	~~99~~ 20.0 ~~99~~	Clear
purge	952	0.2	11.32		11.33	7.33	4.53	1.42	~~99~~ 20.6	~~20.6~~ -99	clear
↓	955	0.4	11.62		12.05	7.26	4.46	0.98	11.7 ~~97~~	~~13~~ -97	clear
Sample	958	0.6	11.93		12.55	7.23	4.43	0.97	7.4	-92	clear

NOTES

003

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: WPSC Campmarina, Sheboygan, Wisconsin
Client: WPSC
Project Number: 1313
Task #: 6.4
Start Date: Dec 2 2010 Time: 855
Field Personnel: SJC JSD
Finish Date: Dec 2 2010 Time: 910

WELL INFORMATION

Well ID: MW-709R
Casing ID: 2 Inches
Screen Interval: 5.58-15.58
Borehole Diameter: Unknown Inches
Filter Pack Interval: ↓

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GeoPump
Tube/Pump Intake Depth: 10.58
Stabilized Pumping Rate: 200 mls Minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na	→	→	→
Groundwater	5.62	855	6.91	910
DNAPL	na	→	→	→
Casing Base	na	→	→	→

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: na
Standing Water Column: ↓ feet
1 Well Volume: ↓ Gallons
3 Well Volumes: na Gallons
5 Well Volumes: ↓ Gallons
10 Well Volumes: ↓ Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron
Water Quality Probe Type and Serial # QED MP20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	855	na	5.62	na	10.59	6.78	2.45	1.59	13.7	-187	clear
purge	858	0.25	6.30		10.40	6.89	2.45	1.12	9.3	-200	clear
	901	0.5	6.38		10.48	7.03	2.45	0.89	8.6	-205	clear
↓	904	0.75	6.54		10.35	7.05	2.45	0.77	11.0	-208	clear
	907	1	6.70		10.59	7.06	2.45	0.72	11.0	-211	clear
Sample	910	1.25	6.91		10.59	7.09	2.45	0.61	9.7	-214	Clear

NOTES

#001
#002 Duplicate
TD = Not Measured (NM)

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Site: WPSC Campmarina, Sheboygan, Wisconsin | Client: WPSC

Project Number: 1313 | Task #: 6.4 | Start Date: Dec 2 2018 | Time: 1025

Field Personnel: SRO JSW | Finish Date: Dec 2 2018 | Time: 1034

WELL INFORMATION

Well ID: BW-6

Casing ID: 2 Inches

Screen Interval: 20.5-23.00

Borehole Diameter: unknown Inches

Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump

Bailer Type: n/a

Pump Type and Serial #: QED Pump

Tube/Pump Intake Depth: ~22

Stabilized Pumping Rate: 300 mls minute

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	na			
Groundwater	11.70	1025	12.74	1034
DNAPL	na			
Casing Base	na			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole

Volume Per Foot: na

Standing Water Column: feet

1 Well Volume: Gallons | 3 Well Volumes: na Gallons

5 Well Volumes: Gallons | 10 Well Volumes: Gallons

Total Volumes Produced: na Gallons

Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Heron

Water Quality Probe Type and Serial # QED MP20

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Initial	1025	na	11.70	na	10.05	8.06	0.314	2.44	213	-98	Cloudy
purge	1028	~~0.2~~	~~12.34~~ 12.74		10.31	7.79	0.239	1.61	165	-99	cloudy
↓	1033	0.4	12.74		10.56	7.64	0.216	1.16	134	-101	cloudy
Sample	1034	0.5	12.74		10.54	7.63	0.179	0.92	128	-111	cloudy

NOTES

#004

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

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Received By:

Version 6.0 06/14/06

Chain # 1313001

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	Natural Resource Tech.
Branch/Location:	Pewaukee, WI
Project Contact:	Heather Simon
Phone:	262-523-9000
Project Number:	1313
Project Name:	Camp Marina Former MGP
Project State:	WI
Sampled By (Print):	Jacob Walczak
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Quote #:	IBS10 340000 2393
EMail To Contact:	Jody Barbeau
Mail To Company:	Natural Resource Tech
Mail To Address:	23713 W. Paul Road Pewaukee, WI 53072
Invoice To Contact:	Accounts Payable
Invoice To Company:	Integrys Business Support
Invoice To Address:	PO Box 19800 Green Bay, WI 54307-9004
Invoice To Phone:	920-433-2929

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☒ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO): Y/N — N, N, N
PRESERVATION (CODE)*: Pick Letter — A, A, C

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PAH (SW846 8270C)	Sulfate (EPA 300)	Nitrate/Nitrite (EPA 353.2)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	120210001	12/2/10	0910	GW	X	X	X		1-1L Ag[A], 2-250mL[A,C], 6-40mL[B]	
002	120210002	↓	0910	↓	X				↓ , 3-40mL[B]	
003	120210003	↓	0958	↓	X	X	X		, 2-250mL[A,C], 6-40mL[B]	
004	120210004	↓	1034	↓	X	X	X			
005	120210005	↓	1203	↓	X	X	X			
006	120210006	↓	1123	↓	X	X	X			
007	120210007	↓	1258	↓	X	X	X	MS/MSD PAH's	3-1L Ag[A], ↓, 8-40mL[B]	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit ~~Prelim Rush~~ Results by (complete what you want):

Email #1:	jbarbeau@naturalrt.com
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	12/3/2010 1025	D. Mieth	12/3/10 10:55
D. Mielke	12/3/10 14:00	[signature]	12/3/10 1400

PACE Project No. 4040344

Receipt Temp = ROI °C

Sample Receipt pH: (OK) / Adjusted

Cooler Custody Seal: (Present) / Not Present; (Intact) / Not Intact

Version 6.0 06/14/06

(27Jun

C Fed Ex # 1012 2 0 1 & 1012 2 0 2

ORIGINAL

Chain # 13302

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

(Please Print Clearly)	
Company Name:	Natural Resource Tech.
Branch/Location:	Pewaukee, WI
Project Contact:	Heather Simon
Phone:	262-523-9000
Project Number:	1313
Project Name:	Camp Marlin Former MGP
Project State:	WI
Sampled By (Print):	Jacob Walczak
Sampled By (Sign):	
PO #:	Regulatory Program:

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	IBS PO 3400002393
Mail To Contact:	Jody Barbeau
Mail To Company:	Natural Resource Tech
Mail To Address:	23713 W. Paul Road Pewaukee, WI 53072
Invoice To Contact:	Accounts Payable
Invoice To Company:	Integrys Business Support
Invoice To Address:	PO Box 19800 Green Bay, WI 54307-9004
Invoice To Phone:	920-433-2929

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, SI = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: PAH (SW846 8270C)	Sulfate (EPA 300)	Nitrate/Nitrite (EPA 353.2)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)				N	N	N			
	PRESERVATION (CODE)*				A	A	C			
008	120210008	12/2/10	1325	GW	X	X	X		1-1Lag^A, 2-250mL^C, 6-40mL^B	
009	120210009	↓	1355	↓	↓	↓	↓		,5-40mL^B	
010	120210010	↓	1415	↓	↓	↓	↓		,6-40mL^B	
	~~Trip Blank~~ WW	↓								

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1: jbarbeau@naturalrt.com
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12/3/2010 1025	D. Mueller	12/3/10 10:55
D. Mueller	12/3/10 14:00		12/3/10 1400

PACE Project No. 40403444
Receipt Temp = 2.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Custody Seal # 1012020032 1012020042

ORIGINAL

Chain # 1313003

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MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Natural Resource Tech
Branch/Location:	Pewaukee, WI
Project Contact:	Heather Simon
Phone:	262-523-9000
Project Number:	1313
Project Name:	Camp Marina Former MGP
Project State:	WI
Sampled By (Print):	Jacob Walczak
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	IBS PO 3400002393
EMail To Contact:	Jody Barbeau
Mail To Company:	Natural Resource Tech.
Mail To Address:	23713 W. Paul Road Pewaukee, WI 53072
Invoice To Contact:	Accounts Payable
Invoice To Company:	Integrys Business Support
Invoice To Address:	PO Box 19900 Green Bay, WI 54307-9004
Invoice To Phone:	920-433-2929

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☒ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air W = Water
B = Biota DW = Drinking Water
C = Charcoal GW = Ground Water
O = Oil SW = Surface Water
S = Soil WW = Waste Water
SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* PH< Letter	Analyses Requested: BTEX (SW846 8260B)	Analyses Requested: Methane (SW846 8015)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	120210001	12/2/10	0910	GW	N	B	X	X			
	120210002		0910								
	120210003		0958					X			
	120210004		1034								
	120210005		1203								
	120210006		1123								
	120210007		1258						MS/MSD BTEX		
	120210008		1325								
	120210009		1355								
	120210010		1415								
011	Trip Blank								BTEX	2-40mlB	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit ~~Prelim Rush~~ Results by (complete what you want):
Email #1: jbarbeau@naturalrt.com
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Jake Walczak	12/3/2010 1025	D. Mielke	12/3/10 10:55
D. Mielke	12/3/10 14:00	Paul Gatlin / Paul GB	12/3/10 1400

PACE Project No. 40403 4H
Receipt Temp = 2.0 °C
Sample Receipt pH (OK) Adjusted
Cooler Custody Seal Present / Not Present (Intact) / Not Intact

Version 6.0 06/14/08

(27Jun

Custody Seal # 120210005 on 12/2/2010

FINAL

APPENDIX B

CAP INSPECTION LOG

FIELD NOTE SUMMARY

Project Number 1313 Task 6.1
Project Name WPSC Campmarina, Sheboygan WI

Date March 30, 2010

Work Scope: Annual Containment System Condition Inspection

NRT Representatives: Sarah A. Ganswindt

Weather: Sunny, 40°F.

Equipment: NRT Solinst 28416

Field Comments:

1. Monitoring Wells and Cleanouts: Surface covers for the monitoring wells (with the exception of the well cap for PZ-703, cleanouts and biosparge wells that were visible and were intact, labeled with the corresponding well number and in good condition at the time of the site visit.
2. Biosparge System and Building: Biosparge building exterior and interior was in good condition.
3. Riverwalk Conditions: Cracking was noted in the concrete or asphalt walkways; however, it appears that the cracks are historic and no new cracks appear to be present.
4. Cover Stability: The cover above the geosynthetic cap has remained stable and has not shown any problems due to erosion or instability. There were no indications of sloughing or erosion. Steep slopes within the Center Avenue Right-of-Way showed no indication of instability.
5. Riverbank Stability: Riprap and concrete river walk along the riverbank appeared to be in good condition. Toe stones for the riprap showed no indications of erosion or damage. Non-woven geotextile used for stabilization of filter gravel for the riprap remains exposed along the top of the riverbank
6. Surface Water Drainage: No drainage was noted to the river from the exterior perimeter drainage system for the cover. Camp Marina was dry at the time of the site reconnaissance.
7. Interior and Exterior Drainage System Identification: The exterior drainage systems were previously identified and labeled. Cleanouts are numbered 1 through 8 and are identified by number and location. In addition, cleanout well covers have been labeled with a paint marker for identification purposes in the field.
    - Cleanout 1: Northwest cleanout, along river, north side of observation deck and is situated in a concrete pedestal.
    - Cleanout 2: Southwest cleanout, along river walk, situated in the river walk sidewalk.
    - Cleanout 3: Cleanout nest, located on the southeast side of the site, cleanout 3 is closest to river on the hill.
    - Cleanout 4: Cleanout nest, located on the southeast side of the site, cleanout 4 is closer to 10th Street, on the hill.
    - Cleanout 5: Cleanout nest, located on the northeast side of the site, cleanout 5 is situated in upper deck of steps above the basketball court.
    - Cleanout 6: Cleanout nest, located on the northeast side of the site, cleanout 6 is situated in upper deck of steps above the basketball court (closer cleanout to river).

7.

- Cleanout 7: Cleanout nest, located on the northeast side of the site, cleanout 7 is situated southwest of MW-705.
- Cleanout 8: Cleanout nest, located on the northeast side of the site, cleanout 8 is situated southwest of MW-705 (closer cleanout to river).

- Cleanout 1: Dry, very fine layer of rusty colored sediment in bottom.
- Cleanout 2: Dry, no sediment in bottom.
- Cleanout 3: Dry, no sediment in bottom.
- Cleanout 4: Dry, no sediment in bottom.
- Cleanout 5: Dry, fine layer of sediment in bottom, rusty or black in color.
- Cleanout 6: Dry, small pile (less than 1/16th of an inch) and was rusty in color.
- Cleanout 7: Well cap inside pvc obstructed view to bottom.
- Cleanout 8: Dry, no sediment in bottom.

8. Interior and Exterior Drainage Conditions: The exterior drainage system appeared to be in good condition.

9. Summary Conditions:
The site appeared in good condition. No significant surface erosion is evident. Grass or pavement covers the entire site. Park structures are also in good condition with slight stress cracks observed in the bases of the on-site lamps and or concrete walls. No settling of the cover was evident. Riprap along the river appeared to be in good condition and does not appear to have migrated from the banks into the river. Vegetation is present within the rip rap and consists of low growing grasses and/or wild flowers.

SIGNATURE: _____ DATE: March 30, 2010

Sarah A. Ganswindt

P:\1500\1515\Field Documentation\1313-Camp Marina Sheboygan-DONE\Field Notebook 002, 003, 004 and 005 for 2010\1313 FNS Annual Inspection 100330.doc