



2011 ANNUAL MONITORING REPORT

**HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

DISCLAIMER:

SOME FORMATTING CHANGES MAY HAVE OCCURRED WHEN
THE ORIGINAL DOCUMENT WAS PRINTED TO PDF; HOWEVER,
THE ORIGINAL CONTENT REMAINS UNCHANGED.

**MARCH 2012
REF. NO. 002012 (62)**

**Prepared by:
Conestoga-Rovers
& Associates**

1801 Old Highway 8 NW
Suite #114
Saint Paul, Minnesota 55112

Office: (651) 639-0913
Fax: (651) 639-0923
web: <http://www.CRAworld.com>

LIST OF TABLES
(Following Text)

- TABLE 3.1 2011 GROUNDWATER ELEVATIONS
- TABLE 3.2 2011 AVERAGE MONTHLY GROUNDWATER EXTRACTION RATES
- TABLE 3.3 OPERATION AND MAINTENANCE ACTIVITY GROUNDWATER EXTRACTION SYSTEM (DECEMBER 2010 - DECEMBER 2011)
- TABLE 4.1 HISTORICAL GROUNDWATER SAMPLING EVENT SUMMARY
- TABLE 4.2 2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS (PERCHED GROUNDWATER UNIT)
- TABLE 4.3 2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS (LOWER SAND AQUIFER)
- TABLE 4.4 2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS (ST. PETER SANDSTONE AQUIFER)
- TABLE 4.5 2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS (PRAIRIE DU CHIEN AQUIFER)
- TABLE 4.6 2011 GROUNDWATER DATA DETECTIONS - RESIDENTIAL WELLS
- TABLE 5.1 HISTORICAL MSA GAS PROBE MONITORING RESULTS
- TABLE 5.2 LANDTEC GEM 500
GAS PROBE MONITORING RESULTS

TABLE 3.1

Page 1 of 2

**2011 GROUNDWATER ELEVATIONS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>TOC (ft. AMSL)</i>	<i>10/10/2011 WL (ft BTOC)</i>	<i>10/10/2011 (ft. AMSL)</i>
<i>Perched Groundwater Unit</i>			
SUMP * (<i>pumping</i>)	946.71	25.23	921.48
LW1	938.86	10.60	928.26
LW2	945.66	13.04	932.62
LW3	944.82	14.03	930.79
MW1S	950.65	16.69	933.96
MW4U	939.65	26.29	913.36
MW6S	948.44	17.97	930.47
MW10S	935.94	7.23	928.71
MW11S	936.34	8.14	928.20
P1	941.70	8.31	933.39
P2	946.11	17.64	928.47
P3	947.11	17.53	929.58
P4	948.16	17.51	930.65
<i>Glacial Drift (Lower Sand) Aquifer</i>			
EW1	936.66	41.70	894.96
EW1A	938.67	43.39	895.28
EW1B * (<i>off</i>)	939.99	45.11	894.88
MW1D	951.02	54.94	896.08
MW4S	940.33	41.07	899.26
MW4D	940.48	45.42	895.06
MW6D	948.15	51.47	896.68
MW10D	935.94	32.51	903.43
MW11D	935.40	34.37	901.03
MW12D	940.52	40.04	900.48
MW13D	937.66	38.79	898.87
MW16D	940.70	44.86	895.84
<i>Upper St. Peter Sandstone Aquifer</i>			
EW2 * (<i>pumping</i>)	938.67	108.71	829.96
MW7B	942.91	45.50	897.41
MW8B	940.91	48.04	892.87
MW10B	936.64	41.76	894.88
MW12B	939.89	45.07	894.82
MW13B	938.34	43.57	894.77
MW16B	940.71	45.47	895.24
MW17A	914.58	22.02	892.56
MW18A	925.39	36.90	888.49
MW19A	913.56	27.95	885.61
MW21A	909.03	23.23	885.80

TABLE 3.1

Page 2 of 2

**2011 GROUNDWATER ELEVATIONS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>TOC (ft. AMSL)</i>	<i>10/10/2011 WL (ft BTOC)</i>	<i>10/10/2011 (ft. AMSL)</i>
<i>Basal St. Peter Sandstone Aquifer</i>			
EW3	913.88	34.20	879.68
MW17B	914.50	29.72	884.78
MW18B	925.24	40.19	885.05
MW19B	913.33	33.90	879.43
MW20B	915.04	35.21	879.83
1 Lily Pond Road [#]	931.18	38.50	892.68
11 Lily Pond Road [#]	928.54	42.60	885.94
11 Robb Farm Road [#]	942.63	49.49	893.14
6 Blue Goose Road [#]	954.15	66.52	887.63
6 West Shore Road [^]	920.20	37.40	882.80
38 East Oaks Road [^]	926.25	44.43	881.82
<i>Prairie du Chien Aquifer</i>			
MW17L	914.65	33.95	880.70
MW18L	925.44	48.13	877.31
MW19L	914.18	38.92	875.26

Notes:

TOC - Top of Casing

ft. AMSL - Feet Above Mean Sea Level

* - Pumping Well

- Converted Residential Monitoring Well

^ - Active Residential Well

TABLE 3.2

**2011 AVERAGE MONTHLY GROUNDWATER EXTRACTION RATES
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Month</i>	<i>Average Pumping Rate</i>			
	<i>EW1B</i> (gpm)	<i>EW2</i> (gpm)	<i>Combined*</i> (gpm)	<i>Sump</i> (gpm)
January	10.7	10.5	21.2	0.0 ⁽¹⁾
February	10.7	10.4	21.1	0.0
March	10.6	10.5	21.1	0.0
April	10.8	10.3	21.1	2.9 ⁽²⁾
May	10.4	10.0 ⁽³⁾	20.4	6.6
June	10.4	9.7	20.1	7.0
July	10.0	10.5	20.6	5.9
August	10.9	10.4	21.3	3.8
September	2.2 ⁽⁴⁾	12.7 ⁽⁵⁾	14.9	3.9
October	4.0 ⁽⁶⁾	13.1 ⁽⁷⁾	17.1	4.0
November	10.3 ⁽⁶⁾	10.0 ⁽⁷⁾	20.3	3.3
December	9.1 ⁽⁸⁾	10.4	19.5	3.3
Annual Average	9.2	10.7	19.9	3.4

Notes:

* - Combined pumping rate of EW1B and EW2 to be maintained between 13 and 20 gpm, as outlined in CRA's letter to MPCA dated July 9, 2010.

⁽¹⁾ - Sump off until repair of discharge line in Spring 2011.

⁽²⁾ - Sump discharge line repaired on April 14, 2011; standard operation resumed.

⁽³⁾ - Routine well rehabilitation of EW2 conducted on May 10, 2011.

⁽⁴⁾ - EW1B pump damage discovered during routine inspection on September 7, 2011 (off until repair in October 2011).

⁽⁵⁾ - Increased flow rate at EW2 from 10 gpm to 15 gpm to compensate for EW1B (off until repair in October 2011).

⁽⁶⁾ - Routine well rehabilitation of EW1B and pump replacement conducted on October 18, 2011; Standard operation resumed (10 gpm).

⁽⁷⁾ - Routine well rehabilitation of EW2 conducted on October 18, 2011; Standard operation resumed (10 gpm)

⁽⁸⁾ - Well rehabilitation of EW1B conducted on December 19, 2011.

TABLE 3.3

Page 1 of 2

**OPERATION AND MAINTENANCE ACTIVITY
GROUNDWATER EXTRACTION SYSTEM
DECEMBER 2010 - DECEMBER 2011
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Date</i>	<i>Location</i>	<i>Event</i>	<i>Remedy</i>	<i>Contractor</i>
12/3/2010 - 4/14/2011	Sump	Apparent break in underground portion of Sump discharge line	Pump turned off until Spring 2011.	CRA (M. Richie)
4/6/2011	Sump	Routine Maintenance	Replace above ground portion of Sump discharge line.	CRA (M. Barnes)
4/14/2011	Sump	Repair break in underground portion of Sump discharge line	Excavate to find break in pipe, remove and replace previously spliced section with new discharge pipe.	Stevens Drilling and Environmental Services
4/27/2011	Extraction Building	Graffiti on Extraction Building	Call police to document graffiti; paint building to cover graffiti.	CRA (M. Richie/ M. Barnes)
5/10/2011 - 5/11/2011	EW-2	Well Rehabilitation	Mechanical (jet/brush/surge/airlift) and Chemical Treatment (NuWell acid); Clean/inspect/re-install pump in EW-2.	Stevens Drilling and Environmental Services
9/7/2011 - 10/18/2011	EW-1B	Pump Damage	Pump troubleshooting to be completed during routine well rehabilitation in October 2011; For interim, increased flow rate of EW-2 from 10 gpm to <u>15 gpm to compensate for EW1B pump issue.</u>	CRA (M. Richie/ B. Lardy)
9/9/2011	Landfill Cover	Grass Mowing	CRA mowed the cap.	CRA (M. Barnes/ B. Lardy)
10/3/2011	Sump	Routine Maintenance	Remove, clean and reinstall flow meter; clean drop out strainer of debris.	CRA (B. Lardy)

TABLE 3.3

Page 2 of 2

**OPERATION AND MAINTENANCE ACTIVITY
GROUNDWATER EXTRACTION SYSTEM
DECEMBER 2010 - DECEMBER 2011
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Date</i>	<i>Location</i>	<i>Event</i>	<i>Remedy</i>	<i>Contractor</i>
10/17/2011 - 10/18/2011	EW-1B and EW-2	Well Rehabilitation	Mechanical Treatment (jet/brush/surge/airlift) of EW-1B and EW-2; Clean/inspect/re-install pump in EW-2. Replace pump in EW-1B.	Stevens Drilling and Environmental Services
10/25/2011	EW-1B	Routine Maintenance	Remove and replace flow meter.	CRA (M. Richie)
12/19/2011 - 12/22/2011	EW-1B	Well Rehabilitation	Chemical (NuWell acid) and Mechanical Treatment (surge/airlift/jet) EW-1B.	Stevens Drilling and Environmental Services

TABLE 4.1

Page 1 of 2

**HISTORICAL GROUNDWATER SAMPLING EVENT SUMMARY
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

Round	Date	Sampled By	Description
1	January 1986	USEPA	Samples from monitoring and residential wells
2	June 1987	CRA	Samples from leachate, monitoring and residential wells
3	January 1988	CRA	Samples from leachate, monitoring and residential wells
4	August 1988	CRA	Samples from leachate, monitoring and residential wells
5	March 1989	CRA	Samples from leachate, monitoring and residential wells
6	July 1989	CRA	Samples from leachate, monitoring and residential wells
7	October 1989	CRA	Samples from leachate, monitoring and residential wells
8	January 1990	CRA	Samples from leachate, monitoring and residential wells
9	May 1990	CRA	Samples from leachate, monitoring and residential wells
10	September 1990	CRA	Samples from leachate, monitoring and residential wells
11	December 1990	CRA	Samples from leachate, monitoring and residential wells
12	March 1991	CRA	Samples from leachate, monitoring and residential wells
13	June 1991	CRA	Samples from leachate, monitoring and residential wells
14	December 1991	CRA	Samples from leachate, monitoring and residential wells
15	May 1992	CRA	Samples from leachate, monitoring and residential wells
16	November 1992	CRA	Samples from leachate, monitoring and residential wells
17	May 1993	CRA	Samples from leachate, monitoring and residential wells
18	October 1993	CRA	Samples from leachate, monitoring and residential wells
19	January 1994	CRA	Samples from residential wells
20	April 1994	CRA	Samples from residential wells
21	May 1994	CRA	Samples from residential wells
22	August 1994	CRA	Samples from leachate and monitoring wells
23	November 1994	CRA	Samples from residential wells
24	December 1994	CRA	Samples from leachate, monitoring and residential wells
25	May 1995	CRA	Samples from leachate, monitoring and residential wells
26	October 1995	CRA	Samples from leachate, monitoring and residential wells
27	May 1996	CRA	Samples from leachate and monitoring wells
28	October 1996	CRA	Samples from leachate, monitoring and residential wells
29	May 1997	CRA	Samples from leachate and monitoring wells
30	October 1997	CRA	Samples from leachate, monitoring and residential wells
31	May 1998	CRA	Samples from leachate and monitoring wells
32	October 1998	CRA	Samples from leachate, monitoring and residential wells
33	October/November 1999	CRA	Samples from compliance point (pilot study), leachate, monitoring and residential wells
34	January/February 2000	CRA	Samples from compliance point wells
35	October 2000	CRA	Samples from leachate, monitoring and residential wells
36	November 2001	CRA	Samples from leachate, monitoring and residential wells

TABLE 4.1

Page 2 of 2

**HISTORICAL GROUNDWATER SAMPLING EVENT SUMMARY
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

Round	Date	Sampled By	Description
37	October 2002	CRA	Samples from leachate, monitoring and residential wells
38	October 2003	CRA	Samples from leachate, monitoring and residential wells
39	October 2004	CRA	Samples from leachate, monitoring and residential wells
40	January 2005	CRA	Samples from residential wells
41	February 2005	CRA/MPCA	Samples from residential wells
42	March 2005	CRA/MPCA	Samples from residential wells
43	April 2005	MPCA	Samples from residential wells
44	May 2005	CRA/MPCA	Samples from residential wells
45	June 2005	CRA/MPCA	Samples from residential wells
46	August 2005	CRA/MPCA	Samples from residential wells
47	October 2005	CRA	Samples from select monitoring wells
48	November 2005	CRA/MPCA	Samples from leachate, monitoring and residential wells
49	December 2005	CRA	Samples from select monitoring wells
50	January 2006	CRA	Samples from select monitoring wells
51	February 2006	CRA/MPCA	Samples from residential wells
52	May 2006	CRA/MPCA	Samples from residential wells
53	October 2006	CRA/MPCA	Samples from leachate, monitoring and residential wells
54	November 2006	CRA	Samples from select monitoring wells
55	January 2007	CRA	Samples from select monitoring wells
56	April 2007	CRA/MPCA	Samples from residential wells
57	October 2007	CRA/MPCA	Samples from leachate, monitoring and residential wells
58	April/May 2008	CRA/MPCA	Samples from residential wells
59	September 2008	CRA	Samples from select monitoring wells
60	October/November 2008	CRA/MPCA	Samples from leachate, monitoring and residential wells
61	April 2009	CRA/MPCA	Samples from residential wells
62	October 2009	CRA/MPCA	Samples from leachate, monitoring and residential wells
63	April 2010	CRA/MPCA	Samples from residential wells
64	October 2010	CRA/MPCA	Samples from leachate, monitoring and residential wells
65	April 2011	CRA/MPCA	Samples from residential wells
66	October 2011	CRA/MPCA	Samples from leachate, monitoring and residential wells

TABLE 4.2

Page 1 of 2

**2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS
(PERCHED GROUNDWATER UNIT)
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>Date</i>		<i>Chemical Oxygen Demand</i> <i>mg/L</i>	<i>Chloride</i> <i>mg/L</i>	<i>pH</i>	<i>Solids, Total Suspended</i> <i>mg/L</i>	<i>1,1-Dichlorethane</i> <i>ug/L</i>	<i>1,1-Dichlorethane</i> <i>ug/L</i>	<i>1,2-Dichloroethene</i> <i>ug/L</i>	<i>Acetone</i> <i>ug/L</i>	<i>Benzene</i> <i>ug/L</i>	<i>Chloroethane</i> <i>ug/L</i>	<i>cis-1,2-Dichloroethene</i> <i>ug/L</i>	<i>Dichlorodifluoromethane</i> <i>ug/L</i>	<i>Dichlorofluoromethane</i> <i>ug/L</i>	<i>Ethyl ether</i> <i>ug/L</i>
<i>On-Site Monitoring Wells</i>																
SUMP	4/19/11		NA	NA	NA	NA	2.1	< 1	0.81 J	1.6 J	2.8	13	0.87	0.45 J	< 2	< 10
SUMP	7/15/11		NA	NA	NA	NA	3.3	< 1	0.71 J	< 10	3.5	13	1	< 1	0.66 J	< 2
SUMP	10/13/11		44	100	8.25	3.0 J	2.3	< 1	0.59 J	1.1 J	2.8	13	0.83	1.3	0.71 J	< 2
LW2	10/14/11		NA	8.9	NA	NA	0.32 J	< 1	< 1	< 10 U	1.0	2.9	0.25 J	< 1	< 1	< 2
LW3	10/14/11		NA	130	NA	NA	1.1	< 1	0.48 J	< 10 U	1.3	0.63 J	< 0.5	8.2	0.67 J	0.81 J
LW3	10/14/11	D	NA	130	NA	NA	1.1	< 1	0.51 J	< 10 U	1.4	0.97 J	0.27 J	9.6	1.2	0.78 J
MW1S	10/14/11		NA	7.2	NA	NA	< 1	< 1	< 1	< 10	< 1	< 1	< 0.5	< 1	< 1	< 2
MW4U	10/14/11		NA	210	NA	NA	160	3.8 J	4.3 J	< 140	8.6 J	130	230	< 14	< 14	< 29

TABLE 4.2

**2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS
(PERCHED GROUNDWATER UNIT)
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>Date</i>	<i>Ethylbenzene</i> <i>ug/L</i>	<i>Isopropylbenzene</i> <i>ug/L</i>	<i>Methyl ethyl ketone</i> <i>ug/L</i>	<i>Methyl isobutyl ketone</i> <i>ug/L</i>	<i>Methylene chloride</i> <i>ug/L</i>	<i>Toluene</i> <i>ug/L</i>	<i>trans-1,2-Dichloroethene</i> <i>ug/L</i>	<i>Trichloroethene</i> <i>ug/L</i>	<i>Vinyl chloride</i> <i>ug/L</i>	<i>Xylenes, Total</i> <i>ug/L</i>	<i>Total VOCs</i> <i>ug/L</i>
<i>On-Site Monitoring Wells</i>												
SUMP	4/19/11	5.7	0.53 J < 10	< 5	< 1	3.1	1	< 1	27	16	74.96	
SUMP	7/15/11	15	0.74 J < 10	0.34 J < 1	4.2	1.4	0.29 J	26	30	100.14		
SUMP	10/13/11	9.4	0.65 J < 10	< 10	< 1	1.6	1.0	< 1	31	6.6	72.88	
LW2	10/14/11	< 1	< 1	< 10	< 10	< 1	0.58 J	0.38 J < 1	< 1	< 1	< 1	5.43
LW3	10/14/11	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	0.26 J	< 1	< 1	13.45
LW3	10/14/11	D < 1	< 1	< 10	< 10	< 1	< 1	< 0.5	0.27 J	< 1	< 1	16.1
MW1S	10/14/11	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	ND
MW4U	10/14/11	9 J < 14	< 140	< 140	< 14	11 J	7 J	5.3	290	16	875	

Notes:

J - Estimated Result

B - Analyte also detected in blank sample

D - Duplicate

NA - Not Analyzed

ND - Not Detected

U - Not present at or above the associated value

TABLE 4.3

Page 1 of 2

**2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS
(LOWER SAND AQUIFER)
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>SCG ^(a) Date</i>	- : <i>Chemical Oxygen Demand mg/L</i>	- : <i>Chloride mg/L</i>	- : <i>pH</i>	- : <i>Solids, Total Suspended mg/L</i>	70 <i>1,1-Dichloroethane ug/L</i>	6 <i>1,1-Dichloroethene ug/L</i>	4 <i>1,2-Dichloroethane ug/L</i>	700 <i>Acetone ug/L</i>	5 <i>Benzene ug/L</i>	ug/L <i>Chloroethane</i>	70 <i>cis-1,2-Dichloroethene ug/L</i>	1000 <i>Dichlorodifluoromethane ug/L</i>	ug/L <i>Dichlorofluoromethane</i>	1000 <i>Ethyl ether ug/L</i>	
<i>On-Site Monitoring Wells</i>																
EW1B	2/2/11	NA	NA	NA	NA	6.3	< 3.3	< 3.3	4.3 J	< 3.3	5	8.4	3.9	2.1 J	< 33	
EW1B	4/19/11	NA	NA	NA	NA	5.8	< 3.3	< 3.3	< 33	< 3.3	5.5	6.6	3.5	2.5 J	< 33	
EW1B	7/15/11	NA	NA	NA	NA	6.7	< 3.3	< 3.3	< 33	< 3.3	5	8.0	< 3.3	2.2 J	< 6.7	
EW1B	10/19/11	15 J	24	6.99 J	27	< 11	< 11	< 11	< 110	< 11	< 11	17	< 11	< 11	< 22	
MW1D	10/14/11	NA	33	NA	NA	0.68 J	< 1	< 1	< 10	< 1	< 1	< 0.5	11	2.8	< 2	
MW4S	10/14/11	NA	1400	NA	NA	97	< 6.3	3.1 J	< 63	1.9 J	190	13	< 6.3	< 6.3	< 13	
MW4D	10/13/11	NA	300	NA	NA	61	< 2.5	10	< 25 U	1.9 J	76	0.80 J	1.9 J	3.4	1.3 J	
MW10D	10/14/11	NA	19	NA	NA	< 1	< 1	< 1	< 10 U	0.2 J	< 1	< 0.5	< 1	< 1	< 2	
MW11D	10/14/11	NA	28	NA	NA	0.92 J	< 1	< 1	< 10 U	< 1	< 1	0.50	< 1	< 1	< 2	
<i>Compliance Monitoring Wells</i>																
MW12D	10/13/11	NA	59	NA	NA	< 1	< 1	< 1	< 10	< 1	< 1	< 0.5	< 1	< 1	< 2	
MW12D	10/13/11	D	NA	59	NA	NA	< 1	< 1	< 1	< 10	< 1	< 1	< 0.5	< 1	< 1	< 2
MW13D	10/13/11	NA	42	NA	NA	1.9	< 1	< 1	< 10	< 1	< 1	0.62	< 1	< 1	< 2	
MW16D	10/13/11	NA	47	NA	NA	0.41 J	< 1	< 1	< 10	< 1	0.56 J	< 0.5	< 1	< 1	< 2	

TABLE 4.3

**2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS
(LOWER SAND AQUIFER)
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>Date</i>	<i>SCG⁽¹⁾</i>	<i>Ethylbenzene</i>	<i>Isopropylbenzene</i>	<i>Methyl ethyl ketone</i>	<i>Methyl isobutyl ketone</i>	<i>Methylene chloride</i>	<i>Toluene</i>	<i>trans-1,2-Dichloroethene</i>	<i>Trichloroethene</i>	<i>Vinyl chloride</i>	<i>Xylenes, Total</i>	<i>- Total VOCs</i>
<i>On-Site Monitoring Wells</i>													
EW1B	2/2/11	< 3.3	< 3.3	< 33	< 17	< 3.3	< 3.3	< 1.7	100	6.9	< 3.3	136.9	
EW1B	4/19/11	< 3.3	< 3.3	< 33	< 17	< 3.3	< 3.3	< 1.7	86	5.7	< 3.3	115.6	
EW1B	7/15/11	< 3.3	< 3.3	< 33	< 33	< 3.3	< 3.3	< 1.7	87	4.9	< 3.3	113.8	
EW1B	10/19/11	< 11	< 11	< 110	< 110	< 11	< 11	< 5.6	240	< 11	< 11	257	
MW1D	10/14/11	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	14.48	
MW4S	10/14/11	< 6.3	< 6.3	< 63	< 63	2.1 J	1.6 J	3.1	< 6.3	77	< 6.3	388.8	
MW4D	10/13/11	< 2.5	< 2.5	3.2 J	1.5 J	3.8	3.5	< 1.3	< 2.5	1.3 J	< 2.5	169.6	
MW10D	10/14/11	< 1	< 1	< 10	< 10	< 1	0.58 J	< 0.5	< 1	< 1	< 1	0.78	
MW11D	10/14/11	< 1	< 1	< 10	< 10	< 1	0.32 J	< 0.5	< 1	< 1	< 1	1.74	
<i>Compliance Monitoring Wells</i>													
MW12D	10/13/11	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	ND	
MW12D	10/13/11	D	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	ND
MW13D	10/13/11	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1	2.52
MW16D	10/13/11	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1	0.97

Notes:

 Shaded results exceed SCGs, where applicable⁽¹⁾

-- Not Established

⁽¹⁾ - SCGs only apply to compliance monitoring wells.

B - Analyte also detected in blank sample

D - Duplicate Sample

J - Estimated Result

NA - Not Analyzed

ND - Not Detected

U - Not present at or above the associated value

TABLE 4.4

**2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS
(ST. PETER SANDSTONE AQUIFER)
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>SCG⁽¹⁾</i>	<i>Date</i>	<i>Chemical Oxygen Demand</i>		<i>Chloride</i>		<i>pH</i>		<i>Solids, Total Suspended</i>		<i>1,1-Dichloroethane</i>	<i>1,1-Dichloroethene</i>	<i>1,2-Dichloroethane</i>	<i>Acetone</i>	<i>Benzene</i>	<i>Chloroethane</i>	<i>cis-1,2-Dichloroethene</i>	<i>Dichlorodifluoromethane</i>	<i>Dichlorofluoromethane</i>	<i>Ethyl ether</i>
			<i>mg/L</i>	<i>mg/L</i>	<i>mg/L</i>	<i>mg/L</i>	<i>mg/L</i>	<i>mg/L</i>	<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>
<i>On-Site Monitoring Wells</i>																				
EW2		2/2/11		NA	NA	NA	NA	NA	8.4	< 1	0.71	J	< 10	< 1	8.2	2.3	5.6	6.5	< 10	
EW2		4/19/11		NA	NA	NA	NA	NA	8.6	< 1	0.81	J	< 10	< 1	9.9	2.2	6.5	7.5	< 10	
EW2		7/15/11		NA	NA	NA	NA	NA	7.7	< 1	0.68	J	< 10	0.33	J	6.5	1.9	5.1	5.7	< 2
EW2		10/13/11	10	J	50	7.21	J	13	9.7	< 1	0.85	J	< 10	0.42	J	10	3.1	6.9	7.4	< 2
MW8B		10/14/11	NA		63	NA	NA	NA	12	< 1	0.94	J	< 10	< 1	< 1	1.9	< 1	9.1	< 2	
<i>Compliance Monitoring Wells</i>																				
MW10B		10/13/11	NA	2.3	NA	NA	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 2	
MW12B		10/13/11	NA	2	NA	NA	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 2	
MW13B		10/13/11	NA	32	NA	NA	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 0.5	< 1	< 1	< 1	< 2	
MW16B		10/13/11	NA	7.7	NA	NA	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 0.5	2.0	0.52	J	< 2		
<i>Converted Residential Monitoring Wells</i>																				
6 Blue Goose Lane		10/11/11	NA	7.2	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 0.2	< 1	< 0.5	< 2	
1 Lily Pond Road		10/10/11	NA	16	NA	NA	8.6	< 0.5	0.33	< 20	< 0.2	0.76	< 0.2	9.8	2.8	< 2				
11 Lily Pond Road		10/11/11	NA	3	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2				
11 Robb Farm Road		10/10/11	NA	10	NA	NA	0.54	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 0.2	< 0.5	< 2		

TABLE 4.4

**2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS
(ST. PETER SANDSTONE AQUIFER)
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>SCG⁽¹⁾</i>	<i>Date</i>	<i>mg/L</i>	<i>Chemical Oxygen Demand</i> <i>mg/L</i>	<i>Chloride</i> <i>mg/L</i>	<i>pH</i>	<i>Solids, Total Suspended</i> <i>mg/L</i>	<i>1,1-Dichloroethane</i> <i>ug/L</i>	<i>1,1-Dichloroethene</i> <i>ug/L</i>	<i>1,2-Dichloroethane</i> <i>ug/L</i>	<i>Acetone</i> <i>ug/L</i>	<i>Benzene</i> <i>ug/L</i>	<i>Chloroethane</i> <i>ug/L</i>	<i>cis-1,2-Dichloroethene</i> <i>ug/L</i>	<i>Dichlorodifluoromethane</i> <i>ug/L</i>	<i>Dichlorofluoromethane</i> <i>ug/L</i>	<i>Ethyl ether</i> <i>ug/L</i>
<i>Off-Site Monitoring Wells</i>																	
EW3		10/11/11	NA	5.1	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	
MW17A		10/11/11	NA	42	NA	NA	0.47	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.28	< 1	< 0.5	< 2	
MW17B		10/12/11	NA	35	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	
MW18A		10/12/11	NA	47	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	
MW18B		10/12/11	NA	26	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	
MW19A		10/11/11	NA	72	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	
MW19A		10/11/11	D	NA	72	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2
MW19B		10/11/11	NA	11	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	
MW20B		10/11/11	NA	10	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	
MW21A		10/11/11	NA	2.6	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	

TABLE 4.4

**2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS
(ST. PETER SANDSTONE AQUIFER)
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>SCG ⁽¹⁾</i>	<i>Ethylbenzene</i> 700 <i>ug/L</i>	<i>Isopropylbenzene</i> 300 <i>ug/L</i>	<i>Methyl ethyl ketone</i> 4000 <i>ug/L</i>	<i>Methyl isobutyl ketone</i> 300 <i>ug/L</i>	<i>Methylene chloride</i> 5 <i>ug/L</i>	<i>Toluene</i> 200 <i>ug/L</i>	<i>trans-1,2-Dichloroethylene</i> 100 <i>ug/L</i>	<i>Trichloroethene</i> 5 <i>ug/L</i>	<i>Vinyl chloride</i> 2 <i>ug/L</i>	<i>Xylenes, Total</i> 10000 <i>ug/L</i>	<i>- Total VOCs</i> <i>ug/L</i>
<i>Date</i>												
<i>On-Site Monitoring Wells</i>												
EW2	2/2/11	< 1	< 1	< 10	< 5	< 1	0.55 J	< 0.5	< 1	2	< 1	34.26
EW2	4/19/11	< 1	< 1	< 10	< 5	< 1	0.29 J	< 0.5	0.31 J	2.1	< 1	38.21
EW2	7/15/11	< 1	< 1	< 10	< 10	< 1	0.58 J	< 0.5	0.3 J	1.5	< 1	30.29
EW2	10/13/11	< 1	< 1	< 10	< 10	< 1	0.38 J	< 0.5	0.58 J	4.1	< 1	43.43
MW8B	10/14/11	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	< 1	2.7	< 1	26.64
<i>Compliance Monitoring Wells</i>												
MW10B	10/13/11	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	ND
MW12B	10/13/11	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	ND
MW13B	10/13/11	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	ND
MW16B	10/13/11	< 1	< 1	< 10	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	2.52
<i>Converted Residential Monitoring Wells</i>												
6 Blue Goose Lane	10/11/11	< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	< 0.2	ND ⁽²⁾	ND
1 Lily Pond Road	10/10/11	< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	< 0.2	ND ⁽²⁾	22.29
11 Lily Pond Road	10/11/11	< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	< 0.2	ND ⁽²⁾	ND
11 Robb Farm Road	10/10/11	< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	< 0.2	ND ⁽²⁾	0.54

TABLE 4.4

**2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS
(ST. PETER SANDSTONE AQUIFER)
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>SCG⁽¹⁾</i>	<i>Ethylbenzene</i> 700 <i>ug/L</i>	<i>Isopropylbenzene</i> 300 <i>ug/L</i>	<i>Methyl ethyl ketone</i> 4000 <i>ug/L</i>	<i>Methyl isobutyl ketone</i> 300 <i>ug/L</i>	<i>Methylene chloride</i> 5 <i>ug/L</i>	<i>Toluene</i> 200 <i>ug/L</i>	<i>trans-1,2-Dichloroethylene</i> 100 <i>ug/L</i>	<i>Trichloroethene</i> 5 <i>ug/L</i>	<i>Vinyl chloride</i> 2 <i>ug/L</i>	<i>Xylenes, Total</i> 10000 <i>ug/L</i>	<i>- Total VOCs</i> <i>ug/L</i>
<i>Date</i>												
<i>Off-Site Monitoring Wells</i>												
EW3	10/11/11	< 0.5	< 0.5	< 10	< 5	< 0.5	0.27	< 0.1	< 0.1	< 0.2	ND ⁽²⁾	0.27
MW17A	10/11/11	< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	0.34	ND ⁽²⁾	1.09
MW17B	10/12/11	< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	0.32	ND ⁽²⁾	0.32
MW18A	10/12/11	< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	< 0.2	ND ⁽²⁾	ND
MW18B	10/12/11	< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	0.13	J	ND ⁽²⁾ 0.13
MW19A	10/11/11	< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	< 0.2	ND ⁽²⁾	ND
MW19A	10/11/11	D < 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	< 0.2	ND ⁽²⁾	ND
MW19B	10/11/11	< 0.5	< 0.5	< 10	< 5	< 0.5	0.54	< 0.1	< 0.1	< 0.2	ND ⁽²⁾	0.54
MW20B	10/11/11	< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	< 0.2	ND ⁽²⁾	ND
MW21A	10/11/11	< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	< 0.2	ND ⁽²⁾	ND

Notes:

Shaded results exceed SCGs, where applicable⁽¹⁾.

-- - Not Established

⁽¹⁾ - Site Cleanup Goals (SCGs) only apply to compliance monitoring wells.

⁽²⁾ - m/p-xylene and o-xylene were analyzed separately and were not detected.

D - Duplicate Sample

J - Estimated Result

NA - Not Analyzed

ND - Not Detected

TABLE 4.5

Page 1 of 2

**2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS
(PRAIRIE DU CHIEN AQUIFER)
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>Date</i>		<i>Chemical Oxygen Demand</i> <i>mg/L</i>	<i>Chloride</i> <i>mg/L</i>	<i>pH</i>	<i>Solids, Total Suspended</i> <i>mg/L</i>	<i>1,1-Dichloroethane</i> <i>ug/L</i>	<i>1,1-Dichloroethene</i> <i>ug/L</i>	<i>1,2-Dichloroethane</i> <i>ug/L</i>	<i>Acetone</i> <i>ug/L</i>	<i>Benzene</i> <i>ug/L</i>	<i>Chloroethane</i> <i>ug/L</i>	<i>cis-1,2-Dichloroethene</i> <i>ug/L</i>	<i>Dichlorodifluoromethane</i> <i>ug/L</i>	<i>Dichlorofluoromethane</i> <i>ug/L</i>	<i>Ethyl ether</i> <i>ug/L</i>	
<i>Off-Site Monitoring Wells</i>																	
MW17L	10/12/11		NA	14	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	
MW17L	10/12/11	D	NA	13	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	
MW18L	10/12/11		NA	14	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	
MW19L	10/11/11		NA	12	NA	NA	< 0.2	< 0.5	< 0.2	< 20	< 0.2	< 0.5	< 0.2	< 1	< 0.5	< 2	

TABLE 4.5

**2011 GROUNDWATER DATA DETECTIONS - MONITORING WELLS
(PRAIRIE DU CHIEN AQUIFER)
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>Date</i>		<i>Ethylbenzene</i> <i>ug/L</i>	<i>Isopropylbenzene</i> <i>ug/L</i>	<i>Methyl ethyl ketone</i> <i>ug/L</i>	<i>Methyl isobutyl ketone</i> <i>ug/L</i>	<i>Methylene chloride</i> <i>ug/L</i>	<i>Toluene</i> <i>ug/L</i>	<i>trans-1,2-Dichloroethene</i> <i>ug/L</i>	<i>Trichloroethene</i> <i>ug/L</i>	<i>Vinyl chloride</i> <i>ug/L</i>	<i>Xylenes, Total</i> <i>ug/L</i>	<i>Total VOCs</i> <i>ug/L</i>
<i>Off-Site Monitoring Wells</i>													
MW17L	10/12/11		< 0.5	< 0.5	< 10	< 5	< 0.5	0.28	< 0.1	< 0.1	< 0.2	ND ⁽¹⁾	0.28
MW17L	10/12/11	D	< 0.5	< 0.5	< 10	< 5	< 0.5	0.28	< 0.1	< 0.1	< 0.2	ND ⁽¹⁾	0.28
MW18L	10/12/11		< 0.5	< 0.5	< 10	< 5	< 0.5	< 0.2	< 0.1	< 0.1	< 0.2	ND ⁽¹⁾	ND
MW19L	10/11/11		< 0.5	< 0.5	< 10	< 5	< 0.5	1.8	< 0.1	< 0.1	< 0.2	ND ⁽¹⁾	1.8

Notes:

⁽¹⁾ - m/p-xylene and o-xylene were analyzed separately and were not detected

D - Duplicate Sample

NA - Not Analyzed

ND - Not Detected

TABLE 4.6

2011 GROUNDWATER DATA DETECTIONS - RESIDENTIAL WELLS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

<i>Location</i>	<i>Date</i>	<i>HRL</i> - <i>mg/L</i>	<i>Chloride</i> - <i>ug/L</i>	<i>1,1-Dichloroethane</i> 100 <i>ug/L</i>	<i>cis-1,2-Dichloroethene</i> 50 <i>ug/L</i>	<i>Dichlorodifluoromethane</i> 700 <i>ug/L</i>	<i>Dichlorofluoromethane</i> - <i>ug/L</i>	<i>Vinyl chloride</i> 0.2 <i>ug/L</i>	<i>Total VOCs</i> -- <i>ug/L</i>
1 Birch Lane	10/5/11	11	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
2 Birch Lane	10/5/11	3.9	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
3 Birch Lane	10/5/11	4.5	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
1 Buffalo Road	10/3/11	24	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
3 Buffalo Road	4/26/11	21.2 J	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
3 Buffalo Road	10/3/11	35	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
2 Cardinal	10/3/11	23	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
9 Duck Pass Road	10/3/11	32	0.65	< 0.2	1.7	0.51	< 0.2	2.86	
13 Duck Pass Road	10/3/11	18	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
15 Duck Pass Road	10/5/11	18	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
15 Duck Pass Road	10/5/11 D	18	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
20 Duck Pass Road	10/3/11	73	0.66	< 0.2	3.1	1.2	< 0.2	4.96	
22 Duck Pass Road	10/3/11	60	2.5	< 0.2	8.1	2.4	< 0.2	13	
26 Duck Pass Road	10/3/11	22	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
28 Duck Pass Road	10/3/11	110	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
1 Eagle Ridge Road	4/26/11	20.2 J	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
1 Eagle Ridge Road	4/26/11 D	20.3 J	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
1 Eagle Ridge Road	10/3/11	20	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
2 Eagle Ridge Road	4/26/11	30.2 J	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
2 Eagle Ridge Road	10/3/11	29	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
3 Eagle Ridge Road	4/26/11	38.1	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
3 Eagle Ridge Road	10/3/11	37	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
4 Eagle Ridge Road	4/26/11	23.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
4 Eagle Ridge Road	10/3/11	19	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
4 Eagle Ridge Road	10/3/11 D	20	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
5 Eagle Ridge Road	10/3/11	34	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
6 Eagle Ridge Road	4/26/11	68.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
6 Eagle Ridge Road	10/3/11	45	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
10 Eagle Ridge Road	10/3/11	11	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
32 East Oaks Road	10/5/11	23	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
36 East Oaks Road	10/5/11	18	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
38 East Oaks Road	10/5/11	1.3	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	

TABLE 4.6

2011 GROUNDWATER DATA DETECTIONS - RESIDENTIAL WELLS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

<i>Location</i>	<i>Date</i>	<i>HRL</i> - <i>mg/L</i>	<i>Chloride</i> - <i>ug/L</i>	<i>1,1-Dichloroethane</i> 100 <i>ug/L</i>	<i>cis-1,2-Dichloroethene</i> 50 <i>ug/L</i>	<i>Dichlorodifluoromethane</i> 700 <i>ug/L</i>	<i>Dichlorofluoromethane</i> - <i>ug/L</i>	<i>Vinyl chloride</i> 0.2 <i>ug/L</i>	<i>Total VOCs</i> -- <i>ug/L</i>
44 East Oaks Road	4/26/11		9.4	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
44 East Oaks Road	10/5/11		8.6	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
50 East Oaks Road	4/27/11		32.8	0.18 J	0.13 J	< 1	< 0.5	0.12 J	0.43
1 Gadwall	10/3/11		23	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
2 Gadwall	10/3/11		19	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
3 Gadwall	10/3/11		18	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
3 Gadwall	10/3/11	D	19	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
4 Gadwall	10/3/11		23	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
2 Heron Lane	10/6/11		49	< 0.2	< 0.2	< 1	< 0.5	0.11 J	0.11
2 Heron Lane	12/8/11		52	< 0.2	< 0.2	< 1	< 0.5	0.12 J	0.12
1 Hummingbird Hill	4/27/11		26.8	0.11 J	< 0.2	< 1	< 0.5	< 0.2	0.11
1 Hummingbird Hill	4/27/11	D	26.4	0.11 J	< 0.2	< 1	< 0.5	< 0.2	0.11
1 Hummingbird Hill	10/5/11		19	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
3 Mallard Lane	10/3/11		11	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
3 Mallard Lane	10/3/11	D	11	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
5 Mallard Lane	10/3/11		2.6	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
6 Mallard Lane	10/5/11		2.4	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
7 Mallard Lane	10/3/11		4.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
1 Poplar Lane	10/5/11		0.92 J	< 0.2	< 0.2	< 1	< 0.5 UJ	< 0.2	ND
3 Poplar Lane	10/5/11		16	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
6 Poplar Lane	10/5/11		3.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
8 Poplar Lane	4/27/11		28.2	< 0.2	< 0.2	< 1 UJ	< 0.5	< 0.2	ND
8 Poplar Lane	10/5/11		31	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
10 Poplar Lane	4/27/11		10.8	< 0.2	< 0.2	< 1 UJ	< 0.5	< 0.2	ND
10 Poplar Lane	10/5/11		9.1	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
3 Quail Lane	4/26/11		14	< 0.2	< 0.2	< 1 UJ	< 0.5	< 0.2	ND
1 Robb Farm Road	10/5/11		1	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
35 Robb Farm Road	10/6/11		42	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
37 Robb Farm Road	10/6/11		4.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
41 Robb Farm Road	10/6/11		2.3	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
43 Robb Farm Road	10/6/11		19	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
43 Robb Farm Road	10/6/11	D	18	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND

TABLE 4.6

2011 GROUNDWATER DATA DETECTIONS - RESIDENTIAL WELLS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

<i>Location</i>	<i>Date</i>	<i>HRL</i> - <i>mg/L</i>	<i>Chloride</i> - <i>ug/L</i>	<i>1,1-Dichloroethane</i> 100 <i>ug/L</i>	<i>cis-1,2-Dichloroethene</i> 50 <i>ug/L</i>	<i>Dichlorodifluoromethane</i> 700 <i>ug/L</i>	<i>Dichlorofluoromethane</i> - <i>ug/L</i>	<i>Vinyl chloride</i> 0.2 <i>ug/L</i>	<i>Total VOCs</i> -- <i>ug/L</i>
44 Robb Farm Road	10/6/11	23	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
45 Robb Farm Road	10/6/11	16	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
2 Ski Lane	4/26/11	11.8 J	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
2 Ski Lane	4/26/11 D	11.9 J	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
2 Ski Lane	10/3/11	12	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
4 Ski Lane	4/26/11	33.2 J	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
4 Ski Lane	10/3/11	37	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
6 Ski Lane	4/26/11	28 J	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
6 Ski Lane	10/3/11	25	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
8 Ski Lane	4/26/11	12 J	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
8 Ski Lane	10/5/11	15	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
10 Ski Lane	4/26/11	32.2 J	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
10 Ski Lane	10/3/11	22	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
12 Ski Lane	4/26/11	14.1 J	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
12 Ski Lane	10/3/11	15	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
14 Ski Lane	4/26/11	18 J	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
14 Ski Lane	10/3/11	30	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
16 Ski Lane	4/26/11	14 J	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
16 Ski Lane	10/3/11	29	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
1 Thompson Lane	4/27/11	18.8	< 0.2	< 0.2	< 0.2	< 1 UJ	< 0.5	< 0.2	ND
1 Thompson Lane	10/5/11	16	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
3 Thompson Lane	4/26/11	4.4	< 0.2	< 0.2	< 0.2	< 1 UJ	< 0.5	< 0.2	ND
3 Thompson Lane	10/5/11	9.1	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
3 Thompson Lane	10/5/11 D	9.1	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
4 Thompson Lane	4/26/11	121	< 0.2	< 0.2	< 0.2	< 1 UJ	< 0.5	< 0.2	ND
4 Thompson Lane	10/5/11	130	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
1 West Shore Road	10/6/11	37	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
2 West Shore Road	10/6/11	37	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
4 West Shore Road	10/6/11	29	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
5 West Shore Road	10/6/11	4.9	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
5 West Shore Road	10/6/11 D	4.9	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND
6 West Shore Road	10/6/11	2.3	< 0.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND

TABLE 4.6

**2011 GROUNDWATER DATA DETECTIONS - RESIDENTIAL WELLS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Location</i>	<i>Date</i>	<i>HRL</i> - <i>mg/L</i>	<i>Chloride</i> - <i>ug/L</i>	<i>1,1-Dichloroethane</i> 100 <i>ug/L</i>	<i>cis-1,2-Dichloroethene</i> 50 <i>ug/L</i>	<i>Dichlorodifluoromethane</i> 700 <i>ug/L</i>	<i>Dichlorofluoromethane</i> - <i>ug/L</i>	<i>Vinyl chloride</i> 0.2 <i>ug/L</i>	<i>Total VOCs</i> -- <i>ug/L</i>
8 West Shore Road	4/27/11	8	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
9 West Shore Road	4/27/11	5.6	< 0.2	< 0.2	< 1 UJ	< 0.5	< 0.2	ND	
9 West Shore Road	10/6/11	6.2	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
10 West Shore Road	4/27/11	22.5	< 0.2	< 0.2	< 1 UJ	< 0.5	< 0.2	ND	
10 West Shore Road	10/6/11	20	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
11 West Shore Road	4/27/11	14.3	< 0.2	< 0.2	< 1 UJ	< 0.5	< 0.2	ND	
11 West Shore Road	10/6/11	4.7	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
12 West Shore Road (New)	4/26/11	NA	< 0.2	< 0.2	< 1	< 0.5	< 0.2	ND	
15 West Shore Road	4/27/11	29.2	0.22	< 0.2	< 1 UJ	< 0.5	0.12 J	0.34	
15 West Shore Road	10/6/11	37	0.33	0.24	< 1	< 0.5	0.2	0.77	

Notes:

Shaded results exceed HRLs ⁽¹⁾

⁽¹⁾ - Health Risk Limits (HRLs) established by Minnesota Department of Health.

-- - Not Established

D - Duplicate

J - Estimated Result

NA - Not Analyzed

ND - Not Detected

UJ - Estimated Reporting Limit

TABLE 5.1

Page 1 of 3

**HISTORICAL MSA GAS PROBE MONITORING RESULTS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Probe</i>	<i>Date</i>	<i>Pressure (in. w.c.)</i>	<i>% Combustible Gas</i>	
			<i>w/charcoal</i>	<i>w/o charcoal</i>
GP1	5/19/1995	NM	10.0	NM
	6/29/1995	0.0	35.0	25.0
	9/6/1995	0.0	NM	16.0
	11/16/1995	NM	11.0	9.0
	5/20/1996	0.0	50.0	50.0
	8/9/1996	0.0	NM	32.0
	10/11/1996	0.0	25.0	32.0
	6/6/1997	0.0	30.0	34.0
	9/18/1997	0.0	70.0	71.0
	11/25/1997	NM	54.0	54.0
	5/18/1998	0.0	54.0	56.0
	9/23/1998	0.0	48.0	58.0
	10/26/1998	0.0	68.0	58.0
	4/8/1999	0.0	24.0	36.0
	7/16/1999	0.0	16.0	12.0
	11/2/1999	0.0	1.1	4.6
	6/30/2000	0.0 ⁽¹⁾	56.0	44.0
	9/21/2000	0.0 ⁽¹⁾	0.0	0.0
	1/5/2001	0.2 ⁽¹⁾	57.0	54.0
GP2	5/19/1995	NM	45.0	NM
	6/29/1995	0.0	42.0	30.0
	9/6/1995	0.0	NM	48.0
	11/16/1995	NM	50.0	50.0
	5/20/1996	0.0	32.0	40.0
	8/9/1996	0.0	NM	24.0
	10/11/1996	0.0	13.0	20.0
	6/6/1997	0.0	17.0	24.0
	9/18/1997	0.0	54.0	70.0
	11/25/1997	NM	25.0	34.0
	5/18/1998	0.0	29.0	35.0
	9/23/1998	0.0	4.4	2.6
	10/26/1998	0.0	3.8	22.0
	4/8/1999	0.0	0.0	0.0
	7/16/1999	0.0	15.0	16.0
	11/2/1999	0.0	2.0	3.6
	6/30/2000	0.4 ⁽¹⁾	12.0	8.0
	9/21/2000	0.0 ⁽¹⁾	5.0	9.0
	1/5/2001	0.0 ⁽¹⁾	32.0	32.0

TABLE 5.1

Page 2 of 3

**HISTORICAL MSA GAS PROBE MONITORING RESULTS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Probe</i>	<i>Date</i>	<i>Pressure</i>	<i>% Combustible Gas</i>	
		(in. w.c.)	<i>w/charcoal</i>	<i>w/o charcoal</i>
GP3	5/19/1995	NM	76.0	NM
	6/29/1995	0.0	70.0	70.0
	9/6/1995	0.0	NM	78.0
	11/16/1995	NM	72.0	72.0
	5/20/1996	0.0	82.0	82.0
	8/9/1996	0.0	NM	85.0
	10/11/1996	0.0	75.0	75.0
	6/6/1997	0.0	8.0	14.0
	9/18/1997	0.0	90.0	90.0
	11/25/1997	NM	93.0	93.0
	5/18/1998	0.0	80.0	84.0
	9/23/1998	0.0	78.0	90.0
	10/26/1998	0.0	88.0	88.0
	4/8/1999	0.0	100*	110*
	7/16/1999	0.0	0.0	0.0
	11/2/1999	0.0	9.0	11.0
	6/30/2000	0.1 ⁽¹⁾	23.0	22.0
	9/21/2000	0.0 ⁽¹⁾	0.0	0.0
	1/5/2001	0.1 ⁽¹⁾	38.0	36.0
GP4	5/19/1995	NM	79.0	NM
	6/29/1995	>5	54.0	40.0
	9/6/1995	>5	NM	72.0
	11/16/1995	NM	80.0	82.0
	5/20/1996	1.0	40.0	40.0
	8/9/1996	0.0	NM	28.0
	10/11/1996	0.0	72.0	74.0
	6/6/1997	0.0	0.3	0.8
	9/18/1997	0.0	63.0	78.0
	11/25/1997	NM	83.0	85.0
	5/18/1998	0.0	30.0	44.0
	9/23/1998	0.0	26.0	26.0
	10/26/1998	0.0	44.0	40.0
	4/8/1999	0.0	8.0	0.0
	7/16/1999	0.0	0.0	0.0
	11/2/1999	0.0	0.3	0.9
	6/30/2000	0.0 ⁽¹⁾	0.0	0.0
	9/21/2000	0.1 ⁽¹⁾	0.0	0.0
	1/5/2001	0.0 ⁽¹⁾	52.0	56.0

TABLE 5.1

Page 3 of 3

**HISTORICAL MSA GAS PROBE MONITORING RESULTS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Probe</i>	<i>Date</i>	<i>Pressure</i>	<i>% Combustible Gas</i>	
		(in. w.c.)	w/charcoal	w/o charcoal
GP5	5/19/1995	NM	82.0	NM
	6/29/1995	0.0	80.0	80.0
	9/6/1995	0.0	NM	88.0
	11/16/1995	NM	80.0	80.0
	5/20/1996	0.0	82.0	82.0
	8/9/1996	0.0	NM	29.0
	10/11/1996	0.0	46.0	46.0
	6/6/1997	0.0	16.0	28.0
	9/18/1997	0.0	33.0	34.0
	11/25/1997	NM	50.0	52.0
	5/18/1998	0.0	40.0	42.0
	9/23/1998	0.0	30.0	32.0
	10/26/1998	0.0	24.0	28.0
	4/8/1999	0.0	102*	140*
	7/16/1999	0.0	10.0	0.0
	11/2/1999	0.0	0.0	0.0
	6/30/2000	0.0 ⁽¹⁾	33.0	32.0
	9/21/2000	0.0 ⁽¹⁾	0.0	0.0
	1/5/2001	0.0 ⁽¹⁾	45.0	42.0
GP6	5/19/1995	NM	0.5	NM
	6/29/1995	0.0	5.7	4.5
	9/6/1995	0.0	NM	50.0
	11/16/1995	NM	18.0	18.0
	5/20/1996	0.0	30.0	35.0
	8/9/1996	0.0	NM	0.0
	10/11/1996	0.0	8.0	9.0
	6/6/1997	0.0	0.0	0.0
	9/18/1997	0.0	1.5	1.6
	11/25/1997	NM	39.0	40.0
	5/18/1998	0.0	47.0	52.0
	9/23/1998	0.0	1.5	1.4
	10/26/1998	0.0	0.0	0.0
	4/8/1999	0.0	19.0	30.0
	7/16/1999	0.0	0.0	0.0
	11/2/1999	0.0	0.0	0.0
	6/30/2000	0.0 ⁽¹⁾	32.0	30.0
	9/21/2000	0.0 ⁽¹⁾	0.0	0.0
	1/5/2001	0.0 ⁽¹⁾	42.0	40.0

Notes:

* Data point ignored

⁽¹⁾ Pressure measured with LandTec GEM 500

TABLE 5.2

Page 1 of 4

LANDTEC GEM 500
GAS PROBE MONITORING RESULTS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

<i>Probe</i>	<i>Date</i>	<i>LandTec GEM 500 Readings*</i>			
		<i>Pressure (in. H₂O)</i>	<i>%CH₄</i>	<i>%CO₂</i>	<i>%O₂</i>
GP1	11/02/99	0.0	1.3	17.6	3.5
GP1	06/30/00	0.0	46.3	13.2	5.1
GP1	09/21/00	0.0	3.6	1.4	19.3
GP1	01/05/01	0.2	62.4	12.3	2.3
GP1	05/18/01	0.0	0.0	8.1	6.8
GP1	08/17/01	0.0	0.4	12.4	1.9
GP1	06/17/02	0.0	0.0	7.3	6.0
GP1	11/04/02	0.0	0.0	4.2	14.9
GP1	05/20/03	0.0	0.0	2.5	15.2
GP1	08/13/03	0.0	0.0	18.2	1.7
GP1	04/14/04	0.0	2.0	8.5	7.3
GP1	07/08/04	0.0	0.1	6.1	12.8
GP1	04/27/05	0.0	0.0	2.5	18.9
GP1	07/06/05	0.0	0.0	13.9	7.2
GP1	04/26/06	0.0	0.0	4.6	15.0
GP1	09/20/06	0.0	0.1	8.2	7.4
GP1	06/13/07	0.0	6.3	14.0	2.5
GP1	09/20/07	0.0	31.9	11.2	8.9
GP1	06/12/08	0.0	0.0	10.4	6.5
GP1	08/26/08	0.0	0.0	3.4	16.1
GP1	06/24/09	0.0	2.0	10.5	2.8
GP1	09/17/09	0.0	11.3	4.9	12.9
GP1	04/28/10	0.0	0.0	0.4	19.7
GP1	09/17/10	0.0	0.0	1.0	19.4
GP1	05/04/11	0.0	0.0	0.6	20.4
GP1	09/14/11	0.0	0.0	2.3	18.4
GP2	11/02/99	0.0	6.1	14.2	1.0
GP2	06/30/00	0.4	11.0	15.6	0.0
GP2	09/21/00	0.0	10.2	15.9	1.8
GP2	01/05/01	0.0	34.7	8.7	2.5
GP2	05/18/01	0.0	13.6	6.1	6.3
GP2	08/17/01	0.0	14.3	15.7	0.8
GP2	06/17/02	0.0	0.0	2.4	16.9
GP2	11/04/02	0.0	23.2	10.5	4.2
GP2	05/20/03	0.0	0.0	0.5	19.7
GP2	08/13/03	0.0	9.8	0.7	11.4
GP2	04/14/04	0.0	0.0	16.7	2.0
GP2	07/08/04	0.0	0.1	12.6	4.9
GP2	04/27/05	0.0	0.0	1.9	16.2
GP2	07/06/05	0.0	0.3	7.8	6.7
GP2	04/26/06	0.0	0.0	0.9	19.5
GP2	09/20/06	0.0	3.4	8.3	7.7
GP2	06/13/07	0.0	0.1	6.0	15.0
GP2	09/20/07	0.0	15.0	9.1	7.5

TABLE 5.2

Page 2 of 4

LANDTEC GEM 500
GAS PROBE MONITORING RESULTS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

<i>Probe</i>	<i>Date</i>	<i>LandTec GEM 500 Readings*</i>			
		<i>Pressure (in. H₂O)</i>	<i>%CH₄</i>	<i>%CO₂</i>	<i>%O₂</i>
GP2	06/12/08	0.0	0.0	6.1	9.9
GP2	08/26/08	0.0	2.9	6.1	7.9
GP2	06/24/09	0.0	8.2	9.4	2.3
GP2	09/17/09	0.0	8.1	3.4	14.3
GP2	04/28/10	0.0	0.0	0.7	19.4
GP2	09/17/10	0.0	3.4	5.4	13.2
GP2	05/04/11	0.0	0.0	0.6	20.4
GP2	09/14/11	0.0	0.0	0.4	20.4
GP3	11/02/99	0.0	15.1	0.7	3.8
GP3	06/30/00	0.1	24.6	3.5	0.0
GP3	09/21/00	0.0	0.0	0.0	21.1
GP3	01/05/01	0.1	36.2	2.2	0.0
GP3	05/18/01	-0.1	15.0	3.3	0.4
GP3	08/17/01	0.0	0.0	0.0	20.4
GP3	06/17/02	0.0	34.4	2.9	0.6
GP3	11/04/02	0.0	48.4	2.4	0.2
GP3	05/20/03	0.0	1.4	0.3	19.3
GP3	08/13/03	0.0	12.8	4.4	1.4
GP3	04/14/04	0.0	20.2	0.2	3.8
GP3	07/08/04	0.0	25.5	0.4	3.0
GP3	04/27/05	0.0	0.0	0.0	21.3
GP3	07/06/05	0.0	25.3	3.3	0.1
GP3	04/26/06	0.0	0.0	0.0	20.4
GP3	09/20/06	0.0	0.0	1.4	17.6
GP3	06/13/07	0.0	0.0	0.3	20.8
GP3	09/20/07	0.0	25.0	4.3	3.4
GP3	06/12/08	0.0	12.4	2.1	10.8
GP3	08/26/08	0.0	17.5	1.8	12.5
GP3	06/24/09	0.0	13.6	2.6	2.5
GP3	09/17/09	0.0	19.2	1.5	6
GP3	04/28/10	0.0	0.0	0.4	19.6
GP3	09/17/10	0.0	0.0	1.6	17.9
GP3	05/04/11	0.0	0.0	2.5	17.3
GP3	09/14/11	0.0	0.1	1.8	17.6
GP4	11/02/99	0.0	20.8	0.3	0.1
GP4	06/30/00	0.0	0.0	0.1	19.8
GP4	09/21/00	0.1	0.0	0.0	21.1
GP4	01/05/01	0.0	73.5	1.5	4.0
GP4	05/18/01	0.0	0.0	0.1	20.0
GP4	08/17/01	0.0	0.1	2.9	15.8
GP4	06/17/02	0.0	0.0	0.0	20.0
GP4	11/04/02	0.0	0.9	0.4	19.8
GP4	05/20/03	0.0	0.0	0.0	20.7

TABLE 5.2

Page 3 of 4

LANDTEC GEM 500
GAS PROBE MONITORING RESULTS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

<i>Probe</i>	<i>Date</i>	<i>LandTec GEM 500 Readings*</i>			
		<i>Pressure (in. H₂O)</i>	<i>%CH₄</i>	<i>%CO₂</i>	<i>%O₂</i>
GP4	08/13/03	0.0	0.0	15.4	2.4
GP4	04/14/04	0.0	0.0	6.1	3.5
GP4	07/08/04	0.0	3.0	2.5	7.4
GP4	04/27/05	0.0	0.0	0.0	21.2
GP4	07/06/05	0.0	64.6	3.9	3.3
GP4	04/26/06	0.1	40.2	2.3	9.3
GP4	09/20/06	0.0	0.7	4.8	9.9
GP4	06/13/07	0.0	63.5	3.0	0.3
GP4	09/20/07	0.0	4.5	6.7	3.7
GP4	06/12/08	0.0	0.0	0.0	20.4
GP4	08/26/08	0.0	9.6	20.7	2.8
GP4	06/24/09	0.0	62.5	1	0
GP4	09/17/09	0.0	34.3	0.9	6.6
GP4	04/28/10	0.0	0.0	0.0	20.2
GP4	09/17/10	0.0	1.1	1.4	18.6
GP4	05/04/11	0.0	0.0	0.2	20.5
GP4	09/14/11	0.0	24.5	7.9	12.9
GP5	11/02/99	0.0	3.6	1.0	19.0
GP5	06/30/00	0.0	36.0	5.4	0.0
GP5	09/21/00	0.0	1.4	0.3	20.5
GP5	01/05/01	0.0	43.8	3.2	0.4
GP5	05/18/01	0.0	17.1	2.1	0.4
GP5	08/17/01	0.0	0.0	1.7	15.1
GP5	06/17/02	0.0	33.8	3.0	2.7
GP5	11/04/02	0.0	11.1	1.5	1.1
GP5	05/20/03	0.0	1.8	0.0	19.3
GP5	08/13/03	0.0	0.0	15.9	1.2
GP5	04/14/04	0.0	28.5	0.2	2.9
GP5	07/08/04	0.0	10.7	1.8	4.8
GP5	04/27/05	0.1	0.0	0.0	21.2
GP5	07/06/05	0.0	28.8	3.6	0.1
GP5	04/26/06	0.0	0.0	0.2	19.9
GP5	09/20/06	0.0	0.0	0.4	20.0
GP5	06/13/07	0.0	0.0	0.1	21.2
GP5	09/20/07	0.0	0.0	0.2	20.9
GP5	06/12/08	0.0	0.0	0.0	20.4
GP5	08/26/08	0.0	0.0	1.0	18.2
GP5	06/24/09	0.0	0.0	0.0	19.9
GP5	09/17/09	0.0	0.0	0.2	19.9
GP5	04/28/10	0.0	0.0	0.2	20.1
GP5	09/17/10	0.0	0.0	0.7	19.4
GP5	05/04/11	0.0	0.0	1.1	17.5
GP5	09/14/11	0.0	0.0	0.5	20.2

TABLE 5.2

Page 4 of 4

LANDTEC GEM 500
GAS PROBE MONITORING RESULTS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

<i>Probe</i>	<i>Date</i>	<i>LandTec GEM 500 Readings*</i>			
		<i>Pressure (in. H₂O)</i>	<i>%CH₄</i>	<i>%CO₂</i>	<i>%O₂</i>
GP6	11/02/99	0.0	0.3	0.3	20.8
GP6	06/30/00	0.0	31.2	6.0	0.0
GP6	09/21/00	0.0	0.0	0.0	21.0
GP6	01/05/01	0.0	40.0	5.1	1.5
GP6	05/18/01	0.0	28.2	3.3	0.4
GP6	08/17/01	0.0	0.0	1.8	17.8
GP6	06/17/02	0.0	0.0	2.6	12.0
GP6	11/04/02	0.0	12.0	1.7	0.3
GP6	05/20/03	0.0	0.0	1.3	15.5
GP6	08/13/03	0.0	0.0	17.4	2.3
GP6	04/14/04	0.0	0.1	16.3	1.1
GP6	07/08/04	0.0	16.4	0.3	2.8
GP6	04/27/05	0.0	0.0	0.6	17.2
GP6	07/06/05	0.0	27.5	3.5	0.1
GP6	04/26/06	0.0	0.0	1.7	17.7
GP6	09/20/06	0.0	0.0	4.3	14.5
GP6	06/13/07	0.0	0.1	6.1	14.2
GP6	09/20/07	0.0	0.1	10	3.8
GP6	06/12/08	0.0	16.7	3.0	9.5
GP6	08/26/08	0.0	0.0	5.3	15.6
GP6	06/24/09	0.0	0.0	3.6	15.9
GP6	09/17/09	0.0	0.0	4.5	14.6
GP6	04/28/10	0.0	0.0	2.6	17.1
GP6	09/17/10	0.0	0.0	2.6	17.5
GP6	05/04/11	0.0	0.0	0.7	18.2
GP6	09/14/11	0.0	0.0	1	19.7

Notes:

* - Readings captured once stabilized, after at least 60 seconds of purging.