

ASHLAND/NSP LAKEFRONT SITE
APRIL 15, 2006 PROGRESS REPORT (No. 29)
WDNR BRRTS #02-02-00013
CERCLA Docket No. V-W-04-C-764
USEPA ID# WISFN057952

This is the twenty-ninth progress report prepared in accordance with the Administrative Order on Consent (AOC) for the Ashland/NSP Lakefront Site, effective November 14, 2003. This report covers activities completed in March 2006. It is intended to meet the requirements described in Task 8 of the Statement of Work appended to the AOC.

Field Activities Completed

Free-Product Recovery System

The free-product (NAPL) recovery system continued to operate during March. One interruption was noted on March 31st. The transfer line downstream of the air diffuser and upstream of the batch storage tank (upstream of the liquid carbon units) was plugged and the system shutdown. The line was then cleared and the system restarted. A total of 41 gallons of free-product were collected between March 1st and March 31st, despite the automatic shutdown sometime after March 22nd. Free-product collection rates varied during this period between one and two gallons per day, which are consistent with the rates measured during February.

Northern Minnesota Services removed nine drums of waste materials on March 7th. These included two drums of soil cuttings from the abandonment of monitoring well MW-4B on March 1st (described in last month's report), two drums of used granular carbon from the air treatment units, and five drums of used personal protective equipment (PPE). The material was manifested and properly disposed off-site.

The Blancett flow meter installed during February appeared to provide accurate readings after the flow reversal was noted following its installation.¹ A total of 19,400 gallons of water were treated and discharged, including more than 6,750 gallons from well EW-4. This is an increase in the average cumulative volume of nearly 25 percent, largely due to the contribution of EW-4. This is the highest output since April 2005, reflecting spring runoff conditions.

Both the water and air treatment systems functioned properly. Trace levels of benzene, xylene and toluene yielded total VOCs slightly greater than 7 µg/l, which is a slight increase above the past few sampling events. Polycyclic aromatic hydrocarbons (PAHs), which are collected quarterly, also yielded slight increases above the previous sample results collected during December 2005. Regardless, these concentrations are well below the POTW discharge limits. The slight increase, however, may be an indication that the liquid phase carbon is approaching a saturation limit. It has not been replaced since February 2003. The carbon is scheduled for replacement during April 2006.

¹ The remote digital readout mounted on the exterior of the treatment building could not be properly calibrated. The location of the readout is near an electrical junction box that may be creating interference. It will be relocated during April.

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A summary of the system monitoring data is included in Tables 1 - 5. Lab analysis reports for the system monitoring are included in Appendix A.

RI Activities

All RI field activities were completed during November 2005. As described in last month's report, well MW-4B was properly abandoned on March 1st in accordance with Wisconsin Department of Natural Resources procedures.. A copy of the well abandonment form is included in Appendix B.

Reporting Activities Completed

The Sediment Stability Assessment Report was submitted to the Agencies and Trustees on March 16, 2006.

A meeting was held at USEPA Region 5 Headquarters on March 20, 2006 with representatives of the Agencies (USEPA and WDNR) and NSPW. The purpose of the meeting was to initiate the Superfund Innovative Technology Evaluation (SITE) demonstration project that may be implemented at the Ashland site. An overview of the Ashland site was presented, along with potential applicable remedial technologies. The SITE program representatives expressed special interest in the Copper Falls Aquifer, and confirmed their interest in a potential *in-situ* technology demonstration on the NSPW property. The group agreed that August 2006 would be an approximate target date for the demonstration project. The group further agreed that it would convene in about another month after the first proposal for the demonstration project was received, to plan further activity for the program.

On March 21, 2006, NSPW was notified that USEPA approved its proposed schedule for submittal of the RI Report and associated reports. This schedule is attached as Appendix C. USEPA also notified NSPW that an electronic deliverable of the entire summary of historic analyses data in its existing Access Database format would be acceptable as part of the RI Report. The Agency also agreed to receive hard copy summary tables of historic data by matrix (i.e., soil, sediment) and domain (i.e., Upper Bluff, Kreher Park) as part of this submittal.

Field Activities Planned

Coleman Engineering will continue to monitor the free-product removal system on a weekly basis during April 2006.

Reporting Activities Planned

The Human Health Risk Assessment Report will be submitted on the approved date of April

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7, 2006. The next monthly report will be submitted on May 15, 2006.

NSPW will participate in the next scheduled meeting with the SITE group as described.

Attachments:

Table 1 - Remediation System Water Quality Monitoring Results

Table 2 - Remediation System Air Monitoring Results

Table 3 - Summary of Coal Tar and Groundwater Volume Removed

Table 4 – Remediation System – Air Treatment Summary

Table 5 – Remediation System – Water Treatment Summary

Appendix A – Interim Treatment System - Laboratory Reporting Forms

Appendix B – Monitoring Well MW-4B Abandonment Form

Appendix C – Approved RI schedule

**Table 1
Remediation System Water Quality Monitoring Results
Northern States Power, Ashland, Wisconsin**

March 2006

Analyte	Units	Influent	Precarbon	Effluent	Trip Blank	⁽¹⁾ POTW	Method	⁽³⁾ Frequency
VOCs								
1,1,1,2-TETRACHLOROETHANE	ug/L	<87	<8.7	<0.17	<0.17	--	EPA 8260	Monthly
1,1,1-TRICHLOROETHANE	ug/L	<94	<9.4	<0.19	<0.19	--	EPA 8260	Monthly
1,1,2,2-TETRACHLOROETHANE	ug/L	<80	<8	<0.16	<0.16	--	EPA 8260	Monthly
1,1,2-TRICHLOROETHANE	ug/L	<85	<8.5	<0.17	<0.17	--	EPA 8260	Monthly
1,1-DICHLOROETHANE	ug/L	<97	<9.7	<0.19	<0.19	--	EPA 8260	Monthly
1,1-DICHLOROETHENE	ug/L	<76	<7.6	<0.15	<0.15	--	EPA 8260	Monthly
1,1-DICHLOROPROPENE	ug/L	<170	<17	<0.35	<0.35	--	EPA 8260	Monthly
1,2,3-TRICHLOROBENZENE	ug/L	<160	<16	<0.32	<0.32	--	EPA 8260	Monthly
1,2,3-TRICHLOROPROPANE	ug/L	<70	<7	<0.14	<0.14	--	EPA 8260	Monthly
1,2,4-TRICHLOROBENZENE	ug/L	<130	<13	<0.26	<0.26	--	EPA 8260	Monthly
1,2,4-TRIMETHYLBENZENE	ug/L	<160	<16	<0.67>	<0.31	--	EPA 8260	Monthly
1,2-DIBROMO-3-CHLOROPROPANE	ug/L	<120	<12	<0.25	<0.25	--	EPA 8260	Monthly
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/L	<80	<8	<0.16	<0.16	--	EPA 8260	Monthly
1,2-DICHLOROBENZENE	ug/L	<170	<17	<0.34	<0.34	--	EPA 8260	Monthly
1,2-DICHLOROETHANE	ug/L	<97	<9.7	<0.19	<0.19	--	EPA 8260	Monthly
1,2-DICHLOROPROPANE	ug/L	<90	<9	<0.18	<0.18	--	EPA 8260	Monthly
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/L	<82	<8.2	<0.2>	<0.16	--	EPA 8260	Monthly
1,3-DICHLOROBENZENE	ug/L	<130	<13	<0.26	<0.26	--	EPA 8260	Monthly
1,3-DICHLOROPROPANE	ug/L	<96	<9.6	<0.19	<0.19	--	EPA 8260	Monthly
1,4-DICHLOROBENZENE	ug/L	<120	<12	<0.24	<0.24	--	EPA 8260	Monthly
2,2-DICHLOROPROPANE	ug/L	<91	<9.1	<0.18	<0.18	--	EPA 8260	Monthly
2-CHLOROTOLUENE	ug/L	<94	<9.4	<0.19	<0.19	--	EPA 8260	Monthly
4-CHLOROTOLUENE	ug/L	<92	<9.2	<0.18	<0.18	--	EPA 8260	Monthly
BENZENE	ug/L	710	310	<0.27>	<0.2	--	EPA 8260	Monthly
BROMOBENZENE	ug/L	<100	<10	<0.2	<0.2	--	EPA 8260	Monthly
BROMOCHLOROMETHANE	ug/L	<100	<10	<0.21	<0.21	--	EPA 8260	Monthly
BROMODICHLOROMETHANE	ug/L	<86	<8.6	<0.17	<0.17	--	EPA 8260	Monthly
BROMOFORM	ug/L	<71	<7.1	<0.14	<0.14	--	EPA 8260	Monthly
BROMOMETHANE	ug/L	<230	<23	<0.45	<0.45	--	EPA 8260	Monthly
CARBON TETRACHLORIDE	ug/L	<120	<12	<0.23	<0.23	--	EPA 8260	Monthly
CHLOROBENZENE	ug/L	<84	<8.4	<0.17	<0.17	--	EPA 8260	Monthly
CHLOROETHANE	ug/L	<830	<83	<1.7	<1.7	--	EPA 8260	Monthly
CHLOROFORM	ug/L	<100	<10	<0.21	<0.21	--	EPA 8260	Monthly
CHLOROMETHANE	ug/L	<100	<10	<0.2	<0.2	--	EPA 8260	Monthly
CIS-1,2-DICHLOROETHYLENE	ug/L	<95	<9.5	<0.19	<0.19	--	EPA 8260	Monthly
CIS-1,3-DICHLOROPROPENE	ug/L	<98	<9.8	<0.2	<0.2	--	EPA 8260	Monthly
CYMENE	ug/L	<140	<14	<0.28	<0.28	--	EPA 8260	Monthly
DIBROMOCHLOROMETHANE	ug/L	<96	<9.6	<0.19	<0.19	--	EPA 8260	Monthly
DIBROMOMETHANE	ug/L	<85	<8.5	<0.17	<0.17	--	EPA 8260	Monthly
DICHLORODIFLUOROMETHANE	ug/L	<84	<8.4	<0.17	<0.17	--	EPA 8260	Monthly
ETHYLBENZENE	ug/L	<96	<9.6	<0.19	<0.19	--	EPA 8260	Monthly
HEXACHLOROBUTADIENE	ug/L	<130	<13	<0.26	<0.26	--	EPA 8260	Monthly
ISOPROPYL ETHER	ug/L	<89	<8.9	<0.18	<0.18	--	EPA 8260	Monthly
ISOPROPYLBENZENE (CUMENE)	ug/L	<90	<9	<0.18	<0.18	--	EPA 8260	Monthly
M,P-XYLENE (SUM OF ISOMERS)	ug/L	<190	<19	1.3	<0.38	--	EPA 8260	Monthly
METHYLENE CHLORIDE	ug/L	<180	<18	<0.36	<0.36	--	EPA 8260	Monthly
NAPHTHALENE	ug/L	4400	<19	<0.51>	<0.38	--	EPA 8260	Monthly
N-BUTYLBENZENE	ug/L	<120	<12	<0.25	<0.25	--	EPA 8260	Monthly
N-PROPYLBENZENE	ug/L	<94	<9.4	<0.19	<0.19	--	EPA 8260	Monthly
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/L	<87>	<7.6	0.74	<0.15	--	EPA 8260	Monthly
SEC-BUTYLBENZENE	ug/L	<150	<15	<0.3	<0.3	--	EPA 8260	Monthly
STYRENE	ug/L	430	<10	0.94	<0.21	--	EPA 8260	Monthly
T-BUTYLBENZENE	ug/L	<96	<9.6	<0.19	<0.19	--	EPA 8260	Monthly
TERT-BUTYL METHYL ETHER	ug/L	<95	<9.5	<0.19	<0.19	--	EPA 8260	Monthly
TETRACHLOROETHYLENE (PCE)	ug/L	<81	<8.1	<0.16	<0.16	--	EPA 8260	Monthly
TOLUENE	ug/L	480	<14>	3.1	<0.19	--	EPA 8260	Monthly
TRANS-1,2-DICHLOROETHENE	ug/L	<85	<8.5	<0.17	<0.17	--	EPA 8260	Monthly
TRANS-1,3-DICHLOROPROPENE	ug/L	<160	<16	<0.32	<0.32	--	EPA 8260	Monthly
TRICHLOROETHYLENE (TCE)	ug/L	<150	<15	<0.3	<0.3	--	EPA 8260	Monthly
TRICHLOROFLUOROMETHANE	ug/L	<83	<8.3	<0.17	<0.17	--	EPA 8260	Monthly
VINYL CHLORIDE	ug/L	<98	<9.8	<0.2	<0.2	--	EPA 8260	Monthly
Total VOCs	ug/L	6107	324	7.73	0	⁽²⁾1000		

Collected March 7, 2006

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

Concentrations exceeding the POTW have been shaded

⁽¹⁾ POTW standards for effluent discharge

⁽²⁾ 1000 = POTW standard for total BTEX for effluent discharge

⁽³⁾ BTEX and PVOCS collected monthly, remaining analytes collected semi-annually

**Table 1
Remediation System Water Quality Monitoring Results
Northern States Power, Ashland, Wisconsin**

March 2006

Analyte	Units	Influent	Precarbon	Effluent	Trip Blank	⁽¹⁾ POTW	Method	Frequency
PAHs, DRO, GRO								
1-METHYLNAPHTHALENE	ug/L	(4)	(4)	0.14	(4)	--	SW8310	Quarterly
2-METHYLNAPHTHALENE	ug/L	(4)	(4)	0.12	(4)	--	SW8310	Quarterly
ACENAPHTHENE	ug/L	(4)	(4)	<0.027	(4)	--	SW8310	Quarterly
ACENAPHTHYLENE	ug/L	(4)	(4)	0.32	(4)	--	SW8310	Quarterly
ANTHRACENE	ug/L	(4)	(4)	0.27	(4)	--	SW8310	Quarterly
BENZO(A)ANTHRACENE	ug/L	(4)	(4)	0.48	(4)	--	SW8310	Quarterly
BENZO(A)PYRENE	ug/L	(4)	(4)	0.47	(4)	--	SW8310	Quarterly
BENZO(B)FLUORANTHENE	ug/L	(4)	(4)	0.39	(4)	--	SW8310	Quarterly
BENZO(G,H,I)PERYLENE	ug/L	(4)	(4)	0.21	(4)	--	SW8310	Quarterly
BENZO(K)FLUORANTHENE	ug/L	(4)	(4)	0.13	(4)	--	SW8310	Quarterly
CHRYSENE	ug/L	(4)	(4)	0.41	(4)	--	SW8310	Quarterly
DIBENZO(A,H)ANTHRACENE	ug/L	(4)	(4)	<0.07>	(4)	--	SW8310	Quarterly
FLUORANTHENE	ug/L	(4)	(4)	0.62	(4)	--	SW8310	Quarterly
FLUORENE	ug/L	(4)	(4)	0.13	(4)	--	SW8310	Quarterly
INDENO(1,2,3-C,D)PYRENE	ug/L	(4)	(4)	0.2	(4)	--	SW8310	Quarterly
NAPHTHALENE	ug/L	(4)	(4)	0.4	(4)	--	SW8310	Quarterly
PHENANTHRENE	ug/L	(4)	(4)	0.68	(4)	--	SW8310	Quarterly
PYRENE	ug/L	(4)	(4)	0.82	(4)	--	SW8310	Quarterly
DIESEL RANGE ORGANICS (DRO)	mg/L	(4)	(4)	0.72	(4)	50	DRO	Semi-Annual
GASOLINE RANGE ORGANICS (GRO)	mg/L	(4)	(4)	0.4	(4)	50	GRO	Semi-Annual
Inorganics								
CADMIUM, TOTAL (UG/L CD)	ug/L	(4)	(4)	<0.17	(4)	110	E365.2	Semi-Annual
CHROMIUM, TOTAL (UG/L CR)	ug/L	(4)	(4)	<1.0	(4)	2500	SW6010	Semi-Annual
COPPER, TOTAL (UG/L CU)	ug/L	(4)	(4)	<3.3>	(4)	2000	SW6010	Semi-Annual
LEAD, TOTAL (UG/L PB)	ug/L	(4)	(4)	<1.3	(4)	100	SW6010	Semi-Annual
MERCURY, TOTAL (UG/L HG)	ug/L	(4)	(4)	<0.025	(4)	0.5	SW6010	Semi-Annual
PH, LAB (STANDARD UNITS)	pH units	(4)	(4)	7.91	(4)	5.5<pH>9.5	SW7470A	Semi-Annual
PHOSPHORUS, TOTAL (MG/L P)	mg/L	(4)	(4)	0.031	(4)	5.0	SW9040	Semi-Annual
OIL & GREASE, TOTAL REC	mg/L	(4)	(4)	<2.3>	(4)	50	A5520	Quarterly

Collected March 7, 2006

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

Concentrations exceeding the POTW have been shaded

⁽¹⁾ POTW standards for effluent discharge

⁽²⁾ 1000 = POTW standard for total BTEX for effluent discharge

⁽⁴⁾ Parameter not analyzed

Table 2
Remediation System Air Monitoring Results
Northern States Power, Ashland, Wisconsin

March 2006

Analyte	Units	Air Stripper	1st Stage Carbon	Effluent	Method	Frequency
<i>VOCs</i>						
Volume Collected	Liters	3.0	3.0	5.0		
Benzene	ug	<20	<20	<20	NIOSH 1501	Monthly
Benzene	mg/m ³	<6.67	<6.67	<4.0	NIOSH 1501	Monthly
Ethylbenzene	ug	<20	<20	<20	NIOSH 1501	Monthly
Ethylbenzene	mg/m ³	<6.67	<6.67	<4.0	NIOSH 1501	Monthly
Hydrocarbons (total)	ug	<50	<50	<50	NIOSH 1550	Monthly
Hydrocarbons (total)	mg/m ³	<16.7	<16.7	<10	NIOSH 1550	Monthly
Toluene	ug	<20	<20	<20	NIOSH 1501	Monthly
Toluene	mg/m ³	<6.67	<6.67	<4.0	NIOSH 1501	Monthly
Xylene, Total	ug	<30	<30	<30	NIOSH 1501	Monthly
Xylene, Total	mg/m ³	<10	<10	<6.0	NIOSH 1501	Monthly

Collected March 7, 2006

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

**Table 3
Summary of Coal Tar and Groundwater Volume Removed**

Date	Cumulative Volume of Coal Tar Removed (gals)	Cumulative Volume of Coal Tar Removed (lbs)	Cumulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals)	Cumulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Total Groundwater Removed (gals)
20-Feb-01	554.2	4,853	22,826	0	22,826
30-Mar-01	850.0	7,443	44,613	0	44,613
26-Apr-01	915.2	8,014	56,978	0	56,978
17-May-01	1,078.2	9,442	58,967	0	58,967
11-Jun-01	1,291.2	11,307	61,094	0	61,094
31-Jul-01	1,535.2	13,444	65,758	0	65,758
15-Aug-01	1,578.0	13,819	65,758	0	65,758
12-Sep-01	1,578.0	14,193	81,524	0	81,524
28-Sep-01	1,789.9	15,674	104,500	0	104,500
12-Nov-01 ¹	2,486.4	21,773	104,900	0	104,900
13-Nov-01	2,551.6	22,344	106,200	0	106,200
14-Nov-01	2,559.7	22,415	107,600	0	107,600
19-Nov-01	2,600.5	22,772	114,200	0	114,200
28-Nov-01	2,682.0	23,486	125,200	0	125,200
03-Dec-01	2,779.8	24,342	131,500	0	131,500
12-Dec-01	2,877.6	25,199	142,300	0	142,300
19-Dec-01	2,975.4	26,055	155,328	0	155,328
03-Jan-02	3,105.8	27,197	172,000	0	172,000
05-Feb-02	3,105.7	27,197	173,116	0	173,116
11-Feb-02	3,122.0	27,340	178,300	0	178,300
12-Feb-02	3,122.1	27,340	180,100	0	180,100
19-Feb-02	3,122.1	27,340	182,900	0	182,900
06-Mar-02	3,138.4	27,483	183,000	0	183,000
12-Mar-02	3,187.3	27,911	194,400	0	194,400
18-Mar-02	3,219.9	28,196	199,400	0	199,400
27-Mar-02	3,317.7	29,053	210,500	0	210,500
03-Apr-02	3,350.3	29,338	216,600	0	216,600
09-Apr-02	3,399.2	29,767	224,000	0	224,000
23-Apr-02	3,473.6	30,419	238,100	0	238,100
30-Apr-02	3,514.3	30,775	246,700	0	246,700
08-May-02	3,538.8	30,989	256,900	0	256,900
15-May-02	3,587.7	31,418	264,500	0	264,500
20-May-02	3,612.1	31,631	266,900	0	266,900
24-May-02	3,636.5	31,845	268,365	10,935	279,300
28-May-02	3,652.8	31,988	272,215	13,185	285,400
17-Jun-02	3,669.1	32,131	287,693	28,507	316,200
25-Jun-02	3,726.2	32,631	295,908	35,492	331,400
02-Jul-02	3,766.9	32,987	299,147	42,153	341,300
09-Jul-02	3,783.2	33,130	306,783	42,717	349,500
17-Jul-02	3,799.5	33,272	314,710	49,990	364,700
22-Jul-02	3,824.0	33,487	319,384	54,516	373,900
29-Jul-02	3,864.7	33,843	326,542	57,158	383,700
08-Aug-02	3,905.5	34,201	334,406	68,394	402,800
15-Aug-02	3,921.8	34,343	340,391	68,609	409,000
09-Sep-02	3,942.1	34,521	343,084	79,816	422,900
19-Sep-02	4,003.3	35,057	350,659	91,441	442,100
26-Sep-02	4,003.3	35,057	356,565	91,535	448,100
04-Oct-02	4,003.3	35,057	363,135	93,265	456,400
11-Oct-02	4,003.3	35,057	374,863	94,737	469,600
18-Oct-02	4,027.8	35,272	374,863	94,737	485,600
25-Oct-02	4,158.2	36,414	379,459	116,901	496,360
31-Oct-02	4,166.3	36,484	381,556	121,045	502,600
08-Nov-02	4,166.3	36,484	390,756	121,045	511,800
21-Nov-02	4,753.3	41,625	387,629	124,272	511,900
26-Nov-02	4,773.6	41,803	391,434	127,566	519,000
04-Dec-02	4,789.9	41,945	398,205	129,795	528,000
10-Dec-02	4,802.2	42,053	403,230	130,971	534,200
18-Dec-02	4,826.6	42,267	410,356	132,444	542,800
23-Dec-02	4,842.9	42,409	412,967	133,333	546,300
30-Dec-02	4,855.1	42,516	415,842	134,458	550,300
10-Jan-03	4,883.7	42,767	425,575	136,125	561,700
15-Jan-03	4,900.0	42,910	429,541	136,859	566,400
20-Jan-03	4,920.3	43,087	434,133	137,567	571,700
30-Jan-03	4,952.9	43,373	442,556	138,844	581,400
13-Feb-03	4,989.6	43,694	454,019	140,881	594,900
19-Feb-03	5,007.8	43,854	456,851	141,149	598,000
26-Feb-03	5,036.3	44,103	463,081	142,019	605,100
04-Mar-03	5,036.3	44,103.1	468,458	142,742	611,200
27-Mar-03	5,036.3	44,103.1	471,979	143,488	615,467
02-Apr-03	5,097.5	44,639	478,430	144,870	623,300
09-Apr-03	5,105.6	44,710	483,745	145,855	629,600
16-Apr-03	5,121.9	44,853	487,333	148,267	635,600
23-Apr-03 ²	4,910.0	42,997	492,504	152,796	645,300

**Table 3
Summary of Coal Tar and Groundwater Volume Removed**

Date	Cumulative Volume of Coal Tar Removed (gals)	Cumulative Volume of Coal Tar Removed (lbs)	Cumulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals)	Cumulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Total Groundwater Removed (gals)
29-Apr-03	4,926.3	43,140	495,729	155,771	651,500
07-May-03	4,926.3	43,140	499,877	158,223	658,100
15-May-03	4,926.3	43,140	499,877	158,223	658,100
21-May-03	4,942.6	43,283	515,230	172,470	687,700
28-May-03	4,958.9	43,425	522,943	175,357	698,300
03-Jun-03	4,967.1	43,497	524,602	176,598	701,200
10-Jun-03	4,975.2	43,568	529,728	178,472	708,200
17-Jun-03	4,983.4	43,640	534,411	179,789	714,200
26-Jun-03	4,983.4	43,640	540,050	180,950	721,000
02-Jul-03	4,983.4	43,640	543,291	181,909	725,200
09-Jul-03	4,983.4	43,640	549,991	181,909	731,900
16-Jul-03	4,991.5	43,711	553,174	185,526	738,700
22-Jul-03	4,999.7	43,783	556,643	186,957	743,600
30-Jul-03	5,007.8	43,854	560,726	188,074	748,800
06-Aug-03	5,040.4	44,139	562,275	188,825	751,100
20-Aug-03	5,081.2	44,496	567,361	191,139	758,500
28-Aug-03	5,138.2	44,995	570,561	191,139	761,700
04-Sep-03	5,316.7	46,559	572,759	191,841	764,600
11-Sep-03	5,382.7	47,137	575,659	191,841	767,500
19-Sep-03	5,423.5	47,494	579,259	191,841	771,100
25-Sep-03	5,366.4	46,994	578,399	197,101	775,500
03-Oct-03	5,382.7	47,137	584,399	197,101	781,500
09-Oct-03	5,399.0	47,279	583,771	198,229	782,000
24-Oct-03	5,452.0	47,743	589,679	200,821	790,500
29-Oct-03	5,481.5	48,002	592,579	200,821	793,400
06-Nov-03	5,530.4	48,430	596,979	200,821	797,800
13-Nov-03	5,546.7	48,573	598,764	200,836	799,600
11/192003	5,571.2	48,787	598,895	201,005	799,900
25-Nov-03	5,591.5	48,965	601,544	202,056	803,600
03-Dec-03	5,620.1	49,215	604,762	203,438	808,200
11-Dec-03	5,644.5	49,429	608,144	204,556	812,700
19-Dec-03	5,669.0	49,644	612,612	205,488	818,100
26-Dec-03	5,685.5	49,788	615,254	206,146	821,400
29-Dec-03	5,693.4	49,857	615,310	206,190	821,500
09-Jan-04	5,705.6	49,964	618,110	206,190	824,300
20-Jan-04	5,709.7	50,000	619,147	207,153	826,300
29-Jan-04	5,713.8	50,036	626,409	208,091	834,500
03-Feb-04	5,726.0	50,143	630,515	208,485	839,000
11-Feb-04	5,726.0	50,143	633,094	208,706	841,800
17-Feb-04	5,734.2	50,215	637,911	209,089	847,000
26-Feb-04	5,742.3	50,286	645,083	209,617	854,700
02-Mar-04	5,754.5	50,392	649,270	209,930	859,200
12-Mar-04	5,774.9	50,571	657,501	210,999	868,500
19-Mar-04	5,807.9	50,860	664,798	212,102	876,900
25-Mar-04	5,819.7	50,963	669,603	214,997	884,600
02-Apr-04	5,823.8	50,999	669,738	215,163	884,900
05-Apr-04	5,823.8	50,999	672,233	217,667	889,900
23-Apr-04	5,827.9	51,035	672,869	218,231	891,100
27-Apr-04	5,836.0	51,106	673,684	219,616	893,300
12-May-04	5,852.3	51,249	678,475	223,625	902,100
17-May-04	5,856.4	51,285	682,349	225,151	907,500
25-May-04	5,872.7	51,427	688,062	226,538	914,600
04-Jun-04	5,884.9	51,534	697,811	230,589	928,400
10-Jun-04	5,913.5	51,785	703,940	232,060	936,000
14-Jun-04	5,937.9	51,998	708,258	232,742	941,000
24-Jun-04	5,995.0	52,498	719,009	234,191	953,200
02-Jul-04	6,039.8	52,891	726,095	235,205	961,300
06-Jul-04	6,064.2	53,104	729,338	235,762	965,100
14-Jul-04	6,133.5	53,711	745,363	237,038	982,400
20-Jul-04	6,133.5	53,711	739,893	238,007	977,900
26-Jul-04	6,182.4	54,139	744,946	238,654	983,600
04-Aug-04	6,235.4	54,604	749,874	239,426	989,300
10-Aug-04	6,284.3	55,032	752,585	239,915	992,500
19-Aug-04	6,316.9	55,317	753,677	240,923	994,600
26-Aug-04	6,345.4	55,567	759,482	241,618	1,001,100
31-Aug-04	6,378.0	55,852	762,807	242,793	1,005,600
10-Sep-04	6,422.8	56,245	766,587	243,514	1,010,100
15-Sep-04	6,439.1	56,387	770,402	244,599	1,015,000
24-Sep-04	6,451.4	56,495	777,825	247,575	1,025,400
27-Sep-04	6,492.1	56,852	780,289	248,111	1,028,400
07-Oct-04	6,508.4	56,994	789,339	249,261	1,038,600
15-Oct-04	6,528.8	57,173	795,323	250,477	1,045,800
19-Oct-04	6,541.0	57,280	798,370	251,030	1,049,400
28-Oct-04	6,557.3	57,422	805,072	252,428	1,057,500

**Table 3
Summary of Coal Tar and Groundwater Volume Removed**

Date	Cumulative Volume of Coal Tar Removed (gals)	Cumulative Volume of Coal Tar Removed (lbs)	Cumulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals)	Cumulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Total Groundwater Removed (gals)
04-Nov-04	6,577.7	57,601	809,388	254,112	1,063,500
11-Nov-04	6,663.3	58,351	809,373	254,427	1,063,800
17-Nov-04	6,679.6	58,493	813,846	255,954	1,069,800
23-Nov-04	6,704.0	58,707	815,871	256,629	1,072,500
01-Dec-04	6,708.1	58,743	818,447	257,353	1,075,800
09-Dec-04	6,720.3	58,850	825,818	258,582	1,084,400
15-Dec-04	6,744.8	59,064	831,411	259,289	1,090,700
21-Dec-04	6,761.1	59,207	836,911	259,289	1,096,200
03-Jan-05	6,850.7	59,992	848,711	259,289	1,108,000
12-Jan-05	6,891.5	60,349	853,611	259,289	1,112,900
20-Jan-05	6,924.1	60,635	859,476	259,824	1,119,300
27-Jan-05	6,981.1	61,134	864,329	260,671	1,125,000
01-Feb-05	7,013.7	61,419	867,637	261,264	1,128,900
08-Feb-05	7,058.5	61,811	872,617	262,083	1,134,700
17-Feb-05	7,103.4	62,205	879,040	263,060	1,142,100
23-Feb-05	7,225.7	63,276	883,368	263,632	1,147,000
03-Mar-05	7,274.6	63,704	889,041	264,459	1,153,500
08-Mar-05	7,307.2	63,989	892,526	264,974	1,157,500
15-Mar-05	7,347.9	64,346	895,198	265,602	1,160,800
22-Mar-05	7,372.4	64,560	899,294	266,206	1,165,500
29-Mar-05	7,413.1	64,917	898,895	269,205	1,168,100
06-Apr-05	7,453.9	65,274	904,348	270,652	1,175,000
14-Apr-05	7,494.6	65,630	903,599	277,501	1,181,100
20-Apr-05	7,531.3	65,952	904,434	278,967	1,183,400
27-Apr-05	7,572.0	66,308	905,998	279,902	1,185,900
03-May-05	7,572.0	66,308	907,569	280,831	1,188,400
13-May-05	7,576.1	66,344	909,996	281,504	1,191,500
17-May-05	7,576.1	66,344	910,118	281,583	1,191,700
27-May-05	7,584.3	66,416	911,688	282,912	1,194,600
03-Jun-05	7,590.4	66,469	912,599	283,802	1,196,400
09-Jun-05	7,590.4	66,469	913,562	285,038	1,198,600
15-Jun-05	7,604.6	66,594	914,093	286,707	1,200,800
22-Jun-05	7,596.5	66,523	914,759	286,741	1,201,500
06-Jul-05	7,600.6	66,559	917,068	287,132	1,204,200
14-Jul-05	7,604.6	66,594	920,201	287,499	1,207,700
21-Jul-05	7,606.7	66,612	923,019	287,681	1,210,700
03-Aug-05	7,620.9	66,736	927,240	287,760	1,215,000
11-Aug-05	7,625.0	66,772	927,840	287,760	1,215,600
15-Aug-05	7,625.0	66,772	927,836	287,764	1,215,600
17-Aug-05	7,625.0	66,772	927,836	287,764	1,215,600
25-Aug-05	7,633.2	66,844	931,061	288,139	1,219,200
31-Aug-05	7,637.2	66,879	933,239	289,261	1,222,500
08-Sep-05	7,641.3	66,915	935,371	291,729	1,227,100
14-Sep-05	7,649.5	66,987	937,386	292,915	1,230,300
20-Sep-05	7,653.5	67,022	939,692	294,009	1,233,700
29-Sep-05	7,665.8	67,130	943,360	294,240	1,237,600
07-Oct-05	7,669.8	67,165	946,494	294,406	1,240,900
11-Oct-05	7,673.9	67,201	948,107	294,493	1,242,600
20-Oct-05	7,694.3	67,379	951,719	294,682	1,246,400
27-Oct-05	7,702.4	67,450	954,582	294,819	1,249,400
03-Nov-05	7,714.7	67,558	957,847	294,953	1,252,800
07-Nov-05	7,740.4	67,783	959,285	295,015	1,254,300
17-Nov-05	7,747.3	67,843	964,061	295,139	1,259,200
22-Nov-05	7,759.5	67,950	965,991	295,209	1,261,200
01-Dec-05	7,771.7	68,057	969,762	295,338	1,265,100
07-Dec-05	7,775.8	68,093	971,880	295,420	1,267,300
15-Dec-05	7,796.2	68,272	974,873	295,527	1,270,400
20-Dec-05	7,804.3	68,342	976,634	295,566	1,272,200
29-Dec-05	7,812.5	68,414	980,395	295,605	1,276,000
05-Jan-06	7,820.6	68,485	983,272	295,628	1,278,900
11-Jan-06	7,828.8	68,557	985,872	295,628	1,281,500
17-Jan-06	7,836.9	68,628	988,572	295,628	1,284,200
23-Jan-06	7,841.0	68,664	990,801	296,099	1,286,900
02-Feb-06	7,853.2	68,771	995,042	298,159	1,293,200
06-Feb-06	7,869.5	68,913	997,242	298,159	1,295,400
16-Feb-06	7,877.7	68,985	1,002,623	298,177	1,300,800
21-Feb-06	7,889.9	69,092	994,712	299,188	1,293,900
22-Feb-06	7,902.1	69,199	994,712	299,188	1,293,900
01-Mar-06	7,922.5	69,378	997,166	300,234	1,297,400
07-Mar-06	7,930.7	69,449	999,465	301,035	1,300,500
15-Mar-06	7,942.9	69,556	1,002,489	302,611	1,305,100
22-Mar-06	7,959.2	69,699	1,005,334	304,466	1,309,800
31-Mar-06	7,963.3	69,735	1,009,815	306,985	1,316,800
04-Apr-06	7,965.4	69,753	1,012,473	309,427	1,321,900
11-Apr-06	7,967.3	69,770	1,015,913	312,387	1,328,300

¹ Increase in coal tar removal w/ no change in groundwater removal volume due to coal tar collection tank and wash tank being pumped out and shipped to WRR in Eau Claire, WI. Total volume of 1324 gallons, w/ a current estimate of 85% coal tar in that volume.

² Correction of revised quantity of coal tar removed on 4/23/2003 of -211.9 gallons due to settling of emulsified coal tar measured on this date.

**Table 4
Remediation System Air Treatment Summary
Northern States Power, Ashland, Wisconsin**

Sample Date	Total Elapsed Time (days) ¹	Sample Type (Influent/Effluent)	Air Flow Rate (CFM)	Effluent Temp. (F)	Total Hydrocarbons (mg/m ^{3,2})	Benzene (mg/m ^{3,2})	Total Hydrocarbon Rate (lbs/day) ³	Benzene Rate (lbs/day) ³	Cummulative Mass of Hydrocarbons Removed by Carbon (lbs.) ⁴	Cummulative Mass of Benzene Removed by Carbon (lbs.) ⁴	Cummulative Mass of Hydrocarbons Emitted (lbs.) ⁴	Cummulative Mass of Benzene Emitted (lbs.) ⁴
28-Sep-00	2	Effluent	176	70	5	3.33	0.08	0.05	-	-	0.2	0.1
19-Jan-01	21	Influent	176	-	45.5	9.1	0.71	0.14	10.36	0.00		
19-Jan-01	21	Effluent	176	45	13.7	9.1	0.21	0.14			4.2	2.8
30-Mar-01	84	Influent	176	-	71.7	26.3	1.11	0.41	50.73	18.08		
30-Mar-01	84	Effluent	176	52	30.4	7.8	0.47	0.12			33.9	10.4
11-Apr-01	96	Influent	176	-	33	7.67	0.51	0.12	56.32	19.14		
11-Apr-01	96	Effluent	176	62	3	2	0.05	0.03			34.5	10.8
17-May-01	110	Effluent	176	68	5	3.33	0.08	0.05			35.6	11.5
13-Jun-01	125	Effluent	176	80	5	3.33	0.08	0.05			36.7	12.3
31-Jul-01	135	Effluent	176	80	5	3.33	0.08	0.05			37.5	12.8
7-Dec-01	196	Influent	176	35	60	10	0.93	0.16	116.90	26.49		
7-Dec-01	196	Effluent	176	35	5	3.33	0.08	0.05			44.2	17.2
22-Feb-02	232	Influent	176	30	303	39	4.70	0.61	284.47	47.15		
22-Feb-02	232	Effluent	176	30	3	2	0.05	0.03			45.8	18.4
4-Apr-02	267	Influent	176	55	33	8	0.51	0.12	300.76	50.41		
4-Apr-02	267	Effluent	176	55	3	2	0.05	0.03			47.5	19.4
8-Aug-02	393	Influent	15	80	1270	311	1.68	0.41	473.04	91.27		
8-Aug-02	393	Effluent	15	80	236	65.8	0.31	0.09			86.8	30.4
31-Oct-02	456	Influent	125	32	2100	410	23.14	4.52	1919.39	373.59		
31-Oct-02	456	Intermediate	125	32	32.7	3.33	0.36	0.04				
31-Oct-02	456	Effluent	125	32	16.6	2	0.18	0.02			98.3	31.8
27-Nov-02	470	Influent	125	25	1780	500	19.61	5.51	2193.53	450.21		
27-Nov-02	470	Intermediate	125	25	15.3	3.33	0.17	0.04				
27-Nov-02	470	Effluent	125	25	3	2	0.03	0.02			98.8	32.1
30-Jan-03	534	Influent	125	20	17.7	3.33	0.20	0.04	2189.80	445.01		
30-Jan-03	534	Intermediate	125	20	19.7	6.67	0.22	0.07				
30-Jan-03	534	Effluent	125	20	23	10.7	0.25	0.12			115.0	39.7
19-Feb-03	554	Influent	125	19	5	3.33	0.06	0.04	2188.43	444.73		
19-Feb-03	554	Intermediate	125	19	5	3.33	0.06	0.04				
19-Feb-03	554	Effluent	125	19	11.2	4.6	0.12	0.05			117.5	40.7
2-Apr-03	580	Influent	125	29	22	3.33	0.24	0.04	2187.11	442.42		
2-Apr-03	580	Intermediate	125	29	47.3	14.7	0.52	0.16				
2-Apr-03	580	Effluent	125	29	26.6	11.4	0.29	0.13			125.1	43.9
23-Apr-03	596	Influent	125	29	66.3	18.3	0.73	0.20	2195.52	444.62		
23-Apr-03	596	Intermediate	125	29	20.7	3.33	0.23	0.04				
23-Apr-03	596	Effluent	125	29	18.6	5.8	0.20	0.06			128.4	45.0
21-May-03	619	Influent	125	29	43	10	0.47	0.11	2198.51	445.69		
21-May-03	619	Intermediate	125	29	36.7	3.33	0.40	0.04				
21-May-03	619	Effluent	125	29	31.2	5.8	0.34	0.06			136.3	46.4
25-Jun-03	654	Influent	125	29	22	3.33	0.24	0.04	2196.74	442.57		
25-Jun-03	654	Intermediate	125	29	47.3	14.7	0.52	0.16				
25-Jun-03	654	Effluent	125	29	26.6	11.4	0.29	0.13			146.5	50.8
30-Jul-03	684	Influent	125	29	10	3.33	0.11	0.04	2187.05	442.57		
30-Jul-03	684	Intermediate	125	29	15.7	3.33	0.17	0.04				
30-Jul-03	684	Effluent	125	29	39.3	3.33	0.43	0.04			159.5	51.9
28-Aug-03	713	Influent	125	29	5	3.33	0.06	0.04	2183.67	443.00		
28-Aug-03	713	Intermediate	125	29	15	3.33	0.17	0.04				
28-Aug-03	713	Effluent	125	29	15.6	2	0.17	0.02			164.5	52.6
29-Sep-03	745	Influent	125	29	21.3	3.33	0.23	0.04	2182.22	442.34		
29-Sep-03	745	Intermediate	125	29	15	3.33	0.17	0.04				
29-Sep-03	745	Effluent	125	29	25.4	5.2	0.28	0.06			173.5	54.4
29-Oct-03	775	Influent	125	29	5	3.33	0.06	0.04	2179.24	442.78		
29-Oct-03	775	Intermediate	125	29	14.3	3.33	0.16	0.04				
29-Oct-03	775	Effluent	125	29	14	2	0.15	0.02			178.1	55.1
19-Nov-03	796	Influent	125	29	5	3.33	0.06	0.04	2179.71	443.09		
19-Nov-03	796	Intermediate	125	29	5	3.33	0.06	0.04				
19-Nov-03	796	Effluent	125	29	3	2	0.03	0.02			178.8	55.5
29-Dec-03	836	Influent	125	29	5	3.33	0.06	0.04	2177.59	443.67		
29-Dec-03	836	Intermediate	125	29	5	3.33	0.06	0.04				
29-Dec-03	836	Effluent	125	29	9.8	2	0.11	0.02			183.1	56.4
20-Jan-04	858	Influent	125	29	12.7	3.33	0.14	0.04	2179.94	444.00		
20-Jan-04	858	Intermediate	125	29	5	3.33	0.06	0.04				
20-Jan-04	858	Effluent	125	29	3	2	0.03	0.02			183.8	56.9
26-Feb-04	895	Influent	125	29	28.3	6.67	0.31	0.07	2183.65	443.78		
26-Feb-04	895	Intermediate	125	29	23.7	8.33	0.26	0.09				
26-Feb-04	895	Effluent	125	29	19.2	7.20	0.21	0.08			191.7	59.8
19-Mar-04	917	Influent	125	29	12.67	3.33	0.14	0.04	2183.52	442.94		
19-Mar-04	917	Intermediate	125	29	20.00	9.00	0.22	0.10				
19-Mar-04	917	Effluent	125	29	13.20	6.80	0.15	0.07			194.9	61.5
27-Apr-04	956	Influent	125	29	11.30	3.33	0.12	0.04	2184.26	443.51		
27-Apr-04	956	Intermediate	125	29	11.00	3.33	0.12	0.04				
27-Apr-04	956	Effluent	125	29	9.60	2.00	0.11	0.02			199.0	62.3

**Table 4
Remediation System Air Treatment Summary
Northern States Power, Ashland, Wisconsin**

Sample Date	Total Elapsed Time (days) ¹	Sample Type (Influent/Effluent)	Air Flow Rate (CFM)	Effluent Temp. (F)	Total Hydrocarbons (mg/m ³) ²	Benzene (mg/m ³) ²	Total Hydrocarbon Rate (lbs/day) ³	Benzene Rate (lbs/day) ³	Cummulative Mass of Hydrocarbons Removed by Carbon (lbs.) ⁴	Cummulative Mass of Benzene Removed by Carbon (lbs.) ⁴	Cummulative Mass of Hydrocarbons Emitted (lbs.) ⁴	Cummulative Mass of Benzene Emitted (lbs.) ⁴
26-May-04	985	Influent	125	29	5.00	3.33	0.06	0.04	2178.25	443.11		
26-May-04	985	Intermediate	125	29	19.70	3.33	0.22	0.04				
26-May-04	985	Effluent	125	29	23.80	4.60	0.26	0.05			206.6	63.8
24-Jun-04	1014	Influent	125	29	11.70	3.33	0.13	0.04	2179.11	443.53		
24-Jun-04	1014	Intermediate	125	29	13.00	3.33	0.14	0.04				
24-Jun-04	1014	Effluent	125	29	9.00	2.00	0.10	0.02			209.5	64.4
6-Jul-04	1026	Influent	125	29	108.00	3.33	1.19	0.04	2191.17	443.71		
6-Jul-04	1026	Intermediate	125	29	23.01	3.33	0.25	0.04				
6-Jul-04	1026	Effluent	125	29	16.80	2.00	0.19	0.02			211.7	64.7
19-Aug-04	1070	Influent	125	29	5.00	3.33	0.06	0.04	2192.14	444.35		
19-Aug-04	1070	Intermediate	125	29	5.00	3.33	0.06	0.04				
19-Aug-04	1070	Effluent	125	29	3.00	2.00	0.03	0.02			213.1	65.7
30-Sep-04	1112	Influent	125	29	10.30	3.33	0.11	0.04	2190.89	444.97		
30-Sep-04	1112	Intermediate	125	29	14.30	3.33	0.16	0.04				
30-Sep-04	1112	Effluent	125	29	13.00	2.00	0.14	0.02			219.2	66.6
28-Oct-04	1140	Influent	125	29	13.30	3.33	0.15	0.04	2186.48	442.48		
28-Oct-04	1140	Intermediate	125	29	37.30	13.70	0.41	0.15				
28-Oct-04	1140	Effluent	125	29	27.60	11.40	0.30	0.13			227.7	70.1
17-Nov-04	1160	Influent	125	29	23.70	7.00	0.26	0.08	2186.54	442.21		
17-Nov-04	1160	Intermediate	125	29	21.00	6.67	0.23	0.07				
17-Nov-04	1160	Effluent	125	29	23.40	8.20	0.26	0.09			232.8	71.9
15-Dec-04	1188	Influent	125	29	84.70	23.30	0.93	0.26	2197.50	445.51		
15-Dec-04	1188	Intermediate	125	29	52.00	15.00	0.57	0.17				
15-Dec-04	1188	Effluent	125	29	49.20	12.60	0.54	0.14			248.0	75.8
12-Jan-05	1216	Influent	125	29	12.30	3.33	0.14	0.04	2200.37	445.92		
12-Jan-05	1216	Intermediate	125	29	5.00	3.33	0.06	0.04				
12-Jan-05	1216	Effluent	125	29	3.00	2.00	0.03	0.02			248.9	76.4
8-Feb-05	1243	Influent	125	29	15.30	4.17	0.17	0.05	2201.05	446.42		
8-Feb-05	1243	Intermediate	125	29	14.00	4.17	0.15	0.05				
8-Feb-05	1243	Effluent	125	29	13.00	2.50	0.14	0.03			252.8	77.2
25-Mar-05	1288	Influent	125	29	5.00	3.33	0.06	0.04	2199.66	447.08		
25-Mar-05	1288	Intermediate	125	29	5.00	3.33	0.06	0.04				
25-Mar-05	1288	Effluent	125	29	7.80	2.00	0.09	0.02			256.7	78.2
6-Apr-05	1300	Influent	125	29	13.00	3.33	0.14	0.04	2200.32	447.26		
6-Apr-05	1300	Intermediate	125	29	11.00	3.33	0.12	0.04				
6-Apr-05	1300	Effluent	125	29	8.00	2.00	0.09	0.02			257.7	78.4
12-May-05	1336	Influent	125	29	5.00	3.33	0.06	0.04	2195.09	445.72		
12-May-05	1336	Intermediate	125	29	16.15	6.50	0.18	0.07				
12-May-05	1336	Effluent	125	29	18.20	7.20	0.20	0.08			265.0	81.3
15-Jun-05	1370	Influent	125	29	5.00	3.33	0.06	0.04	2192.76	446.22		
15-Jun-05	1370	Intermediate	125	29	10.00	3.33	0.11	0.04				
15-Jun-05	1370	Effluent	125	29	11.20	2.00	0.12	0.02			269.2	82.0
6-Jul-05	1391	Influent	125	29	5.00	3.33	0.06	0.04	2193.23	446.53		
6-Jul-05	1391	Intermediate	125	29	5.00	3.33	0.06	0.04				
6-Jul-05	1391	Effluent	125	29	3.00	2.00	0.03	0.02			269.8	82.5
3-Aug-05	1419	Influent	125	29	5.00	3.33	0.06	0.04	2193.84	446.94		
3-Aug-05	1419	Intermediate	125	29	5.00	3.33	0.06	0.04				
3-Aug-05	1419	Effluent	125	29	3.00	2.00	0.03	0.02			270.8	83.1
14-Sep-05	1461	Influent	125	29	5.00	3.33	0.06	0.04	2194.77	447.55		
14-Sep-05	1461	Intermediate	125	29	5.00	3.33	0.06	0.04				
14-Sep-05	1461	Effluent	125	29	3.00	2.00	0.03	0.02			272.2	84.0
12-Oct-05	1489	Influent	125	29	5.00	3.33	0.06	0.04	2194.40	447.96		
12-Oct-05	1489	Intermediate	125	29	5.00	3.33	0.06	0.04				
12-Oct-05	1489	Effluent	125	29	6.20	2.00	0.07	0.02			274.1	84.7
7-Nov-05	1515	Influent	125	29	5.00	3.33	0.06	0.04	2190.79	446.57		
7-Nov-05	1515	Intermediate	125	29	12.00	3.33	0.13	0.04				
7-Nov-05	1515	Effluent	125	29	17.60	8.20	0.19	0.09			279.1	87.0
1-Dec-05	1539	Influent	125	29	5.00	3.33	0.06	0.04	2191.32	446.92		
1-Dec-05	1539	Intermediate	125	29	5.00	3.33	0.06	0.04				
1-Dec-05	1539	Effluent	125	29	3.00	2.00	0.03	0.02			279.9	87.5
5-Jan-06	1574	Influent	125	29	5.00	3.33	0.06	0.04	2192.09	447.43		
5-Jan-06	1574	Intermediate	125	29	5.00	3.33	0.06	0.04				
5-Jan-06	1574	Effluent	125	29	3.00	2.00	0.03	0.02			281.1	88.3
6-Feb-06	1606	Influent	125	29	5.00	3.33	0.06	0.04	2192.09	447.43		
6-Feb-06	1606	Intermediate	125	29	5.00	3.33	0.06	0.04				
6-Feb-06	1606	Effluent	125	29	5.00	3.33	0.06	0.04			282.8	89.5
7-Mar-06	1635	Influent	125	29	8.35	3.33	0.09	0.04	2193.16	447.86		
7-Mar-06	1635	Intermediate	125	29	8.35	3.33	0.09	0.04				
7-Mar-06	1635	Effluent	125	29	5.00	2.00	0.06	0.02			284.4	90.1

(1) Total Elapsed Time, in days, only for days of remediation system operation, not days since start-up.

(2) When a below detection result occurs, the assumed value is half of the detection limit.

For the 1/19/01 sampling, the samples were incorrectly labeled: Drum #1 is influent to Drum #1, Drum #2 is influent to Drum #2, and Air Stripper is Air Effluent.

(3) Daily emission rate based on laboratory results.

(4) Emission rate to date calculated from average daily emission rate and total days of remediation system operation.

**Table 5
Remediation System Water Treatment Summary
Northern States Power, Ashland, Wisconsin**

Sample Date	Total Elapsed Time (days) ¹	Sample Type	Cummulative Volume of Treated Effluent (gal.)	VOCs (ug/L) ²	Benzene (ug/L) ²	Cummulative Mass of VOCs Removed (lbs.) ³	Cummulative Mass of Benzene Removed (lbs.) ³	Cummulative Mass of VOCs Discharged (lbs.) ⁴	Cummulative Mass of Benzene Discharged (lbs.) ⁴
5-Oct-00	9	Influent ⁵		121,985	60,000				
5-Oct-00	9	Effluent	10,592	12.9	0.94	10.8	5.3	0.00114	0.00008
19-Jan-01	21	Inlet ⁶		859.5	90.4				
19-Jan-01	21	Mid Carbon		17.3	0.62				
19-Jan-01	21	Effluent	17,346	16.6	0.7	17.7	8.7	0.00208	0.00012
30-Mar-01	84	Inlet ⁶		1,120.60	140				
30-Mar-01	84	Effluent	44,613	14.45	0.05	45.6	22.4	0.00520	0.00024
11-Apr-01	96	Influent ⁵		100,629	46,000				
11-Apr-01	96	Inlet ⁶		557.5	110				
11-Apr-01	96	Mid Carbon		50.73	5.1				
11-Apr-01	96	Effluent	54,636	13.79	0.94	54.0	26.3	0.00636	0.00031
17-May-01	110	Effluent	58,967	23.46	1.3	57.6	27.9	0.00721	0.00036
13-Jun-01	125	Effluent	61,094	7.74	0.05	59.4	28.8	0.00735	0.00036
13-Jul-01	135	Influent ⁵		97,450	51,000				
31-Jul-01	135	Effluent	65,758	12.36	0.05	63.2	30.7	0.00783	0.00036
20-Sep-01	157	Influent ⁵		113,925	58,000				
20-Sep-01	157	Inlet ⁶		3,205	1,100				
20-Sep-01	157	Effluent	91,894	19.23	0.05	88.1	43.4	0.01203	0.00038
7-Dec-01	196	Influent ⁵		101,620	52,000				
7-Dec-01	196	Inlet ⁶		4,153.5	530				
7-Dec-01	196	Effluent	136,300	9.835	0.05	125.7	62.7	0.01567	0.00039
14-Feb-02	224	Influent		83,055	35,000				
14-Feb-02	224	Precarbon		35,355.3	7,200				
14-Feb-02	224	Effluent	181,000	8.1	0.2	156.7	75.7	0.01869	0.00047
21-Mar-02	256	Influent		143,140	53,000				
21-Mar-02	256	Precarbon		15,716.5	1,600				
21-Mar-02	256	Effluent	202,700	88.22	67	182.6	85.3	0.03467	0.01264
11-Jun-02	323	Influent		63,570	23,000				
11-Jun-02	323	Precarbon		26,320.0	6,400				
11-Jun-02	323	Effluent	286,524	1,244	1,100	226.2	100.6	0.90481	0.78458
8-Aug-02	393	Influent		87,060	41,000				
8-Aug-02	393	Precarbon		26,320.0	18,695				
8-Aug-02	393	Effluent	402,800	6,554.1	4,000	304.3	136.5	7.26406	4.67835
31-Oct-02	456	Influent		27,090.0	5,600				
31-Oct-02	456	Precarbon		24,362.5	13,000				
31-Oct-02	456	Effluent	502,600	2,438.3	1,600	324.9	139.9	9.30128	6.01517
27-Nov-02	470	Influent		52,350.0	22,000				
27-Nov-02	470	Precarbon		15,633.0	7,300				
27-Nov-02	470	Effluent	519,000	6,449.5	4,600	331.1	142.2	10.18390	6.64674
18-Dec-02	491	Influent		45,325.0	19,000				
18-Dec-02	491	Precarbon		7,685.0	2,700				
18-Dec-02	491	Effluent	542,800	4,785.0	3,300	339.2	145.4	11.13420	7.30426
30-Jan-03	534	Influent		35,275.0	9,600				
30-Jan-03	534	Precarbon		4,230.0	1,700				
30-Jan-03	534	Effluent	581,400	4,584.7	2,200	349.1	147.7	12.61092	8.01520
19-Feb-03	554	Influent		71,520.0	32,000				
19-Feb-03	554	Precarbon		3,149.0	81				
19-Feb-03	554	Effluent	598,000	4,004.0	1,500	358.4	152.0	13.16556	8.22366
2-Apr-03	580	Influent		20,876.0	6,300				
2-Apr-03	580	Precarbon		1,553.0	120				
2-Apr-03	580	Effluent	623,300	114.7	22	362.8	153.3	13.18977	8.22832
23-Apr-03	596	Influent		30,060.0	9,500				
23-Apr-03	596	Precarbon		2,095.0	29				
23-Apr-03	596	Effluent	645,300	3.0	0.15	368.3	155.0	13.19032	8.22835
21-May-03	619	Influent		25,470.0	6,100				
21-May-03	619	Precarbon		5,491.0	71				
21-May-03	619	Effluent	687,700	3.1	0.15	377.3	157.2	13.19142	8.22840
25-Jun-03	654	Influent		42,650.0	26,000				
25-Jun-03	654	Precarbon		3,310.0	150				
25-Jun-03	654	Effluent	721,000	1.9	0.12	389.2	164.4	13.19195	8.22843
30-Jul-03	684	Influent		8,440.0	1,400				
30-Jul-03	684	Precarbon		144.0	6				
30-Jul-03	684	Effluent	748,800	1.2	0.19	391.1	164.7	13.19224	8.22848
28-Aug-03	713	Influent		10,630.0	2,200				
28-Aug-03	713	Precarbon		434.3	36				
28-Aug-03	713	Effluent	761,700	0.5	0.16	392.3	165.0	13.19229	8.22849
29-Sep-03	745	Influent		18,770	3,400				
29-Sep-03	745	Precarbon		300.1	17				
29-Sep-03	745	Effluent	781,500	0.7	0.12	395.4	165.5	13.19241	8.22851
29-Oct-03	775	Influent		8,730	1,200				
29-Oct-03	775	Precarbon		169.7	3				
29-Oct-03	775	Effluent	793,400	0.3	0.18	396.3	165.7	13.19243	8.22853
19-Nov-03	796	Influent		10,940	2,000				
19-Nov-03	796	Precarbon		529	23				
19-Nov-03	796	Effluent	799,900	3.5	0.71	396.8	165.8	13.19262	8.22857
29-Dec-03	836	Influent		11,710	2,100				
29-Dec-03	836	Precarbon		7,815	2,900				
29-Dec-03	836	Effluent	821,500	0.0	0.12	399.0	166.1	13.19262	8.22859
20-Jan-04	858	Influent		9,021	2,200				
20-Jan-04	858	Precarbon		576	44				
20-Jan-04	858	Effluent	826,300	2.57	0.50	399.3	166.2	13.19273	8.22861

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Remediation System Water Treatment Summary
Northern States Power, Ashland, Wisconsin**

Sample Date	Total Elapsed Time (days) ¹	Sample Type	Cummulative Volume of Treated Effluent (gal.)	VOCs (ug/L) ²	Benzene (ug/L) ²	Cummulative Mass of VOCs Removed (lbs.) ³	Cummulative Mass of Benzene Removed (lbs.) ³	Cummulative Mass of VOCs Discharged (lbs.) ⁴	Cummulative Mass of Benzene Discharged (lbs.) ⁴
26-Feb-04	895	Influent		21,425	4,900				
26-Feb-04	895	Precarbon		631	38				
26-Feb-04	895	Effluent	854,700	0.49	0.05	404.4	167.4	13.19284	8.22862
15-Mar-04	917	Influent		20,660	4,500				
15-Mar-04	917	Precarbon		673	39				
15-Mar-04	917	Effluent	876,900	0	0.05	408.2	168.2	13.19284	8.22863
27-Apr-04	956	Influent		11,650	3,500				
27-Apr-04	956	Precarbon		430	74				
27-Apr-04	956	Effluent	893,300	0.28	0.09	409.8	168.7	13.19288	8.22865
26-May-04	985	Influent		22,300	4,800				
26-May-04	985	Precarbon		500	12				
26-May-04	985	Effluent	914,600	0	0.15	413.8	169.6	13.19288	8.22867
24-Jun-04	1014	Influent		24,040	4,800				
24-Jun-04	1014	Precarbon		627	47				
24-Jun-04	1014	Effluent	953,200	0	0.15	421.5	171.1	13.19288	8.22872
6-Jul-04	1026	Influent		15,530	2,600				
6-Jul-04	1026	Precarbon		153.1	9.8				
6-Jul-04	1026	Effluent	965,100	0.59	0.09	423.1	171.4	13.19294	8.22873
19-Aug-04	1070	Influent		15,060	1,900				
19-Aug-04	1070	Precarbon		82.2	5.2				
19-Aug-04	1070	Effluent	994,600	0.37	0.09	426.8	171.8	13.19303	8.22875
27-Sep-04	1109	Influent		23,520	5,800				
27-Sep-04	1109	Precarbon		645.9	17.0				
27-Sep-04	1109	Effluent	1,028,400	0.29	0.09	433.4	173.5	13.19311	8.22878
28-Oct-04	1140	Influent		21,680	5,000				
28-Oct-04	1140	Precarbon		274.6	26				
28-Oct-04	1140	Effluent	1,057,500	0.64	0.09	438.7	174.7	13.19327	8.22880
17-Nov-04	1160	Influent		29,010	9,600				
17-Nov-04	1160	Precarbon		201.7	14				
17-Nov-04	1160	Effluent	1,069,800	0.00	0.09	441.7	175.7	13.19327	8.22881
15-Dec-04	1188	Influent		22,710	6,200				
15-Dec-04	1188	Precarbon		199.4	21				
15-Dec-04	1188	Effluent	1,090,700	201.1	200	445.6	176.7	13.22834	8.26380
12-Jan-05	1216	Influent		69,060	23,000				
12-Jan-05	1216	Precarbon		11.8	1.9				
12-Jan-05	1216	Effluent	1,112,900	167.5	160	458.3	180.9	13.25937	8.29354
8-Feb-05	1243	Influent		18,930	4,300				
8-Feb-05	1243	Precarbon		211.8	27				
8-Feb-05	1243	Effluent	1,134,700	0.7	0.42	461.8	181.7	13.25950	8.29362
18-Mar-05	1281	Influent		10,710	2,100				
18-Mar-05	1281	Precarbon		926	510				
18-Mar-05	1281	Effluent	1,160,800	1.13	0	464.1	182.2	13.25974	8.29362
6-Apr-05	1300	Influent		7,750	1,200				
6-Apr-05	1300	Precarbon		220.6	18				
6-Apr-05	1300	Effluent	1,175,000	0	0	465.0	182.3	13.25974	8.29362
12-May-05	1336	Influent		5,610	850				
12-May-05	1336	Precarbon		349.4	79				
12-May-05	1336	Effluent	1,191,500	1.0	0	465.8	182.4	13.25988	8.29362
15-Jun-05	1370	Influent		47,000	14,000				
15-Jun-05	1370	Precarbon		21.1	0.95				
15-Jun-05	1370	Effluent	1,200,800	0	0	469.5	183.5	13.25988	8.29362
6-Jul-05	1391	Influent		9,550	2,100				
6-Jul-05	1391	Precarbon		130.8	18				
6-Jul-05	1391	Effluent	1,204,200	0	0	469.7	183.6	13.25988	8.29362
3-Aug-05	1419	Influent		74,740	32,000				
3-Aug-05	1419	Precarbon		70.0	3.0				
3-Aug-05	1419	Effluent	1,215,000	0	0	476.5	186.5	13.25988	8.29362
14-Sep-05	1461	Influent		11,200	1,600				
14-Sep-05	1461	Precarbon		54.1	4.3				
14-Sep-05	1461	Effluent	1,230,300	1	0	477.9	186.7	13.25995	8.29362
11-Oct-05	1488	Influent		5,920	1,200				
11-Oct-05	1488	Precarbon		54.1	7.6				
11-Oct-05	1488	Effluent	1,242,600	1.24	0	478.5	186.8	13.26008	8.29362
7-Nov-05	1515	Influent		16,320	2,000				
7-Nov-05	1515	Precarbon		43,100	19,000				
7-Nov-05	1515	Effluent	1,254,300	0.29	0.29	480.1	187.0	13.26010	8.29365
1-Dec-05	1539	Influent		69,740	28,000				
1-Dec-05	1539	Precarbon		217	55				
1-Dec-05	1539	Effluent	1,265,100	0.28	0	486.4	189.5	13.26013	8.29365
5-Jan-06	1574	Influent		69,710	31,000				
5-Jan-06	1574	Precarbon		132	23				
5-Jan-06	1574	Effluent	1,278,900	0.86	0	494.4	193.1	13.26023	8.29365
6-Feb-06	1606	Influent		14,260	3,200				
6-Feb-06	1606	Precarbon		113	12				
6-Feb-06	1606	Effluent	1,295,400	0.39	0	496.4	193.5	13.26028	8.29365
7-Mar-06	1635	Influent		6,107	710				
7-Mar-06	1635	Precarbon		324	310				
7-Mar-06	1635	Effluent	1,300,500	7.73	0.27	496.6	193.6	13.26061	8.29366

- (1) Total Elapsed Time, in days, only for days of remediation system operation, not days since start-up.
- (2) When a below detection result occurs, the assumed value is half of the detection limit.
- (3) Removal based on Influent vs. Effluent
- (4) Emission rate to date calculated from average concentrations in effluent and total days of remediation system operation.
- (5) This sample was collected at the oil-water separator discharge, prior to the air diffuser.
- (6) This sample was collected at the inlet to the liquid phase carbon.

Appendix A

Interim Treatment System Laboratory Reporting Forms

Client: URS Corporation (Milwaukee)
 Attn: Paul Sklar
 10200 West Innovation Drive #500
 Milwaukee, WI 53226 4827

NLS Project: 96550
NLS Customer: 91206

Fax: 414 831 4101 **Phone:** 414 831 4100

Project: Xcel Energy-Ashland

Influent NLS ID: 399075

Ref. Line 1 COC 84376 Influent Matrix: GW
 Collected: 03/07/06 00:00 Received: 03/08/06

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8260	see attached					03/10/06	SW846 8260	721026460

Pre Carbon NLS ID: 399076

Ref. Line 2 COC 84376 Pre Carbon Matrix: GW
 Collected: 03/07/06 00:00 Received: 03/08/06

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8260	see attached					03/13/06	SW846 8260	721026460

Effluent NLS ID: 399077

Ref. Line 3 COC 84376 Effluent Matrix: GW
 Collected: 03/07/06 00:00 Received: 03/08/06

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Cadmium, tot. recoverable as Cd by ICP-Trace	ND	ug/L	1	0.17	0.55	03/16/06	SW846 6010	721026460
Chromium, tot. recoverable as Cr by ICP-Trace	ND	ug/L	1	1.0	3.3	03/16/06	SW846 6010	721026460
Copper, tot. recoverable as Cu by ICP-Trace	[3.3]	ug/L	1	1.3	4.0	03/16/06	SW846 6010	721026460
Lead, tot. recoverable as Pb by ICP-Trace	ND	ug/L	1	1.3	4.1	03/16/06	SW846 6010	721026460
Mercury, tot. as Hg	ND	ug/L	1	0.025	0.050	03/21/06	245.7M/ 1631M	721026460
Oil and Grease, water (hexane)	[2.3]	mg/L	1	1.1	3.8	03/15/06	EPA 1664	721026460
pH, Lab	7.91	s.u.	1			03/15/06	SW846 9040	721026460
Phosphorus, tot. as P	0.031	mg/L	1	0.0070*		03/10/06	EPA 365.2	721026460
Metals digestion - tot. recov.ICP	yes					03/13/06	SW846 3005M	721026460
VOCs (water) by EPA 8260	see attached					03/10/06	SW846 8260	721026460
GRO (water)	0.40	mg/L	4	0.060	0.18	03/16/06	WI MOD GRO	721026460
	spike-97%, duplicate-95%, surrogate-104%							
DRO (water)	0.72	mg/L	1	0.021	0.074	03/20/06	WI MOD DRO	721026460
	spike-114%, duplicate-121%, surrogate-73% A contamination peak was found in the method blank, sample, control spike, and control spike duplicate. DRO was found in the method blank at 0.078 mg/L and the control spike duplicate recovered above QC limits. The sample was re-extracted past holding time with a result of 0.51 mg/L. No contamination was found in the re-extracted blank and all QC was within limits.							

Organics Extraction (DRO)	yes					03/14/06	WI MOD DRO	721026460
PAH (water) EPA 8270C - SIM	see attached					03/22/06	SW846 8270C	721026460
Organics Extraction PAH (water) EPA 8270C - SIM	yes					03/13/06	EPA 8270C	721026460

Trip Blank NLS ID: 399078

Ref. Line COC 84376 Trip Blank Matrix: TB
 Collected: 03/07/06 00:00 Received: 03/08/06

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8260	see attached					03/13/06	SW846 8260	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected 1000 ug/L = 1 mg/L
 DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
 MCL = Maximum Contaminant Levels for Drinking Water Samples

Reviewed by: _____
 Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 96550

Project Description: Xcel Energy-Ashland

Project Title: Template: SATW Printed: 03/24/2006 13:38

Sample: 399075 Influent Collected: 03/07/06 Analyzed: 03/10/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	710	ug/L	500	98	350
Bromobenzene	ND	ug/L	500	100	360
Bromochloromethane	ND	ug/L	500	100	370
Bromodichloromethane	ND	ug/L	500	86	300
Bromoform	ND	ug/L	500	71	250
Bromomethane	ND	ug/L	500	230	800
n-Butylbenzene	ND	ug/L	500	120	440
sec-Butylbenzene	ND	ug/L	500	150	520
tert-Butylbenzene	ND	ug/L	500	96	340
Carbon Tetrachloride	ND	ug/L	500	120	410
Chlorobenzene	ND	ug/L	500	84	300
Chloroethane	ND	ug/L	500	830	2900
Chloroform	ND	ug/L	500	100	370
Chloromethane	ND	ug/L	500	100	350
2-Chlorotoluene	ND	ug/L	500	94	330
4-Chlorotoluene	ND	ug/L	500	92	320
Dibromochloromethane	ND	ug/L	500	96	340
1,2-Dibromo-3-Chloropropane	ND	ug/L	500	120	440
1,2-Dibromoethane	ND	ug/L	500	80	280
Dibromomethane	ND	ug/L	500	85	300
1,2-Dichlorobenzene	ND	ug/L	500	170	600
1,3-Dichlorobenzene	ND	ug/L	500	130	450
1,4-Dichlorobenzene	ND	ug/L	500	120	420
Dichlorodifluoromethane	ND	ug/L	500	84	300
1,1-Dichloroethane	ND	ug/L	500	97	340
1,2-Dichloroethane	ND	ug/L	500	97	340
1,1-Dichloroethene	ND	ug/L	500	76	270
cis-1,2-Dichloroethene	ND	ug/L	500	95	340
trans-1,2-Dichloroethene	ND	ug/L	500	85	300
1,2-Dichloropropane	ND	ug/L	500	90	320
1,3-Dichloropropane	ND	ug/L	500	96	340
2,2-Dichloropropane	ND	ug/L	500	91	320
1,1-Dichloropropene	ND	ug/L	500	170	610
cis-1,3-Dichloropropene	ND	ug/L	500	98	350
trans-1,3-Dichloropropene	ND	ug/L	500	160	560
Ethylbenzene	ND	ug/L	500	96	340
Hexachlorobutadiene	ND	ug/L	500	130	460
Isopropylbenzene	ND	ug/L	500	90	320
p-Isopropyltoluene	ND	ug/L	500	140	490
Methylene chloride	ND	ug/L	500	180	640
Naphthalene	4400	ug/L	500	190	680
n-Propylbenzene	ND	ug/L	500	94	330
ortho-Xylene	[87]	ug/L	500	76	270
Styrene	430	ug/L	500	100	370
1,1,1,2-Tetrachloroethane	ND	ug/L	500	87	310
1,1,1,2,2-Tetrachloroethane	ND	ug/L	500	80	280
Tetrachloroethene	ND	ug/L	500	81	290
Toluene	480	ug/L	500	96	340

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 96550

Project Description: Xcel Energy-Ashland

Project Title: Template: SATW Printed: 03/24/2006 13:38

Sample: 399075 Influent Collected: 03/07/06 Analyzed: 03/10/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,2,3-Trichlorobenzene	ND	ug/L	500	160	560
1,2,4-Trichlorobenzene	ND	ug/L	500	130	460
1,1,1-Trichloroethane	ND	ug/L	500	94	330
1,1,2-Trichloroethane	ND	ug/L	500	85	300
Trichloroethene	ND	ug/L	500	150	520
Trichlorofluoromethane	ND	ug/L	500	83	290
1,2,3-Trichloropropane	ND	ug/L	500	70	250
1,2,4-Trimethylbenzene	ND	ug/L	500	160	550
1,3,5-Trimethylbenzene	ND	ug/L	500	82	290
Vinyl chloride	ND	ug/L	500	98	350
meta,para-Xylene	ND	ug/L	500	190	670
MTBE	ND	ug/L	500	95	340
Isopropyl Ether	ND	ug/L	500	89	320
Dibromofluoromethane (SURR**)	103%				
Toluene-d8 (SURR**)	110%				
1-Bromo-4-Fluorobenzene (SURR**)	105%				

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 96550

Project Description: Xcel Energy-Ashland

Project Title: Template: SATW Printed: 03/24/2006 13:38

Sample: 399076 Pre Carbon Collected: 03/07/06 Analyzed: 03/13/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	[0.27]	ug/L	1	0.20	0.70
Bromobenzene	ND	ug/L	1	0.20	0.72
Bromochloromethane	ND	ug/L	1	0.21	0.74
Bromodichloromethane	ND	ug/L	1	0.17	0.61
Bromoform	ND	ug/L	1	0.14	0.50
Bromomethane	ND	ug/L	1	0.45	1.6
n-Butylbenzene	ND	ug/L	1	0.25	0.87
sec-Butylbenzene	ND	ug/L	1	0.30	1.0
tert-Butylbenzene	ND	ug/L	1	0.19	0.68
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82
Chlorobenzene	ND	ug/L	1	0.17	0.59
Chloroethane	ND	ug/L	1	1.7	5.9
Chloroform	ND	ug/L	1	0.21	0.73
Chloromethane	ND	ug/L	1	0.20	0.70
2-Chlorotoluene	ND	ug/L	1	0.19	0.67
4-Chlorotoluene	ND	ug/L	1	0.18	0.65
Dibromochloromethane	ND	ug/L	1	0.19	0.68
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.25	0.87
1,2-Dibromoethane	ND	ug/L	1	0.16	0.57
Dibromomethane	ND	ug/L	1	0.17	0.60
1,2-Dichlorobenzene	ND	ug/L	1	0.34	1.2
1,3-Dichlorobenzene	ND	ug/L	1	0.26	0.91
1,4-Dichlorobenzene	ND	ug/L	1	0.24	0.84
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.59
1,1-Dichloroethane	ND	ug/L	1	0.19	0.68
1,2-Dichloroethane	ND	ug/L	1	0.19	0.69
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54
cis-1,2-Dichloroethene	ND	ug/L	1	0.19	0.68
trans-1,2-Dichloroethene	ND	ug/L	1	0.17	0.60
1,2-Dichloropropane	ND	ug/L	1	0.18	0.64
1,3-Dichloropropane	ND	ug/L	1	0.19	0.68
2,2-Dichloropropane	ND	ug/L	1	0.18	0.65
1,1-Dichloropropene	ND	ug/L	1	0.35	1.2
cis-1,3-Dichloropropene	ND	ug/L	1	0.20	0.69
trans-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
Ethylbenzene	ND	ug/L	1	0.19	0.68
Hexachlorobutadiene	ND	ug/L	1	0.26	0.91
Isopropylbenzene	ND	ug/L	1	0.18	0.64
p-Isopropyltoluene	ND	ug/L	1	0.28	0.99
Methylene chloride	ND	ug/L	1	0.36	1.3
Naphthalene	[0.51]	ug/L	1	0.38	1.4
n-Propylbenzene	ND	ug/L	1	0.19	0.66
ortho-Xylene	0.74	ug/L	1	0.15	0.54
Styrene	0.94	ug/L	1	0.21	0.73
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.62
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.57
Tetrachloroethene	ND	ug/L	1	0.16	0.57
Toluene	3.1	ug/L	1	0.19	0.68

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 96550

Project Description: Xcel Energy-Ashland

Project Title: Template: SATW Printed: 03/24/2006 13:38

Sample: 399076 Pre Carbon Collected: 03/07/06 Analyzed: 03/13/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,2,3-Trichlorobenzene	ND	ug/L	1	0.32	1.1
1,2,4-Trichlorobenzene	ND	ug/L	1	0.26	0.91
1,1,1-Trichloroethane	ND	ug/L	1	0.19	0.66
1,1,2-Trichloroethane	ND	ug/L	1	0.17	0.60
Trichloroethene	ND	ug/L	1	0.30	1.0
Trichlorofluoromethane	ND	ug/L	1	0.17	0.59
1,2,3-Trichloropropane	ND	ug/L	1	0.14	0.50
1,2,4-Trimethylbenzene	[0.67]	ug/L	1	0.31	1.1
1,3,5-Trimethylbenzene	[0.20]	ug/L	1	0.16	0.58
Vinyl chloride	ND	ug/L	1	0.20	0.69
meta,para-Xylene	1.3	ug/L	1	0.38	1.3
MTBE	ND	ug/L	1	0.19	0.67
Isopropyl Ether	ND	ug/L	1	0.18	0.63
Dibromofluoromethane (SURR**)	106%				
Toluene-d8 (SURR**)	121%				
1-Bromo-4-Fluorobenzene (SURR**)	111%				

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 96550

Project Description: Xcel Energy-Ashland

Project Title: Template: SATW Printed: 03/24/2006 13:38

Sample: 399077 Effluent Collected: 03/07/06 Analyzed: 03/10/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	310	ug/L	50	9.8	35
Bromobenzene	ND	ug/L	50	10	36
Bromochloromethane	ND	ug/L	50	10	37
Bromodichloromethane	ND	ug/L	50	8.6	30
Bromoform	ND	ug/L	50	7.1	25
Bromomethane	ND	ug/L	50	23	80
n-Butylbenzene	ND	ug/L	50	12	44
sec-Butylbenzene	ND	ug/L	50	15	52
tert-Butylbenzene	ND	ug/L	50	9.6	34
Carbon Tetrachloride	ND	ug/L	50	12	41
Chlorobenzene	ND	ug/L	50	8.4	30
Chloroethane	ND	ug/L	50	83	290
Chloroform	ND	ug/L	50	10	37
Chloromethane	ND	ug/L	50	10	35
2-Chlorotoluene	ND	ug/L	50	9.4	33
4-Chlorotoluene	ND	ug/L	50	9.2	32
Dibromochloromethane	ND	ug/L	50	9.6	34
1,2-Dibromo-3-Chloropropane	ND	ug/L	50	12	44
1,2-Dibromoethane	ND	ug/L	50	8.0	28
Dibromomethane	ND	ug/L	50	8.5	30
1,2-Dichlorobenzene	ND	ug/L	50	17	60
1,3-Dichlorobenzene	ND	ug/L	50	13	45
1,4-Dichlorobenzene	ND	ug/L	50	12	42
Dichlorodifluoromethane	ND	ug/L	50	8.4	30
1,1-Dichloroethane	ND	ug/L	50	9.7	34
1,2-Dichloroethane	ND	ug/L	50	9.7	34
1,1-Dichloroethene	ND	ug/L	50	7.6	27
cis-1,2-Dichloroethene	ND	ug/L	50	9.5	34
trans-1,2-Dichloroethene	ND	ug/L	50	8.5	30
1,2-Dichloropropane	ND	ug/L	50	9.0	32
1,3-Dichloropropane	ND	ug/L	50	9.6	34
2,2-Dichloropropane	ND	ug/L	50	9.1	32
1,1-Dichloropropene	ND	ug/L	50	17	61
cis-1,3-Dichloropropene	ND	ug/L	50	9.8	35
trans-1,3-Dichloropropene	ND	ug/L	50	16	56
Ethylbenzene	ND	ug/L	50	9.6	34
Hexachlorobutadiene	ND	ug/L	50	13	46
Isopropylbenzene	ND	ug/L	50	9.0	32
p-Isopropyltoluene	ND	ug/L	50	14	49
Methylene chloride	ND	ug/L	50	18	64
Naphthalene	ND	ug/L	50	19	68
n-Propylbenzene	ND	ug/L	50	9.4	33
ortho-Xylene	ND	ug/L	50	7.6	27
Styrene	ND	ug/L	50	10	37
1,1,1,2-Tetrachloroethane	ND	ug/L	50	8.7	31
1,1,2,2-Tetrachloroethane	ND	ug/L	50	8.0	28
Tetrachloroethene	ND	ug/L	50	8.1	29
Toluene	[14]	ug/L	50	9.6	34

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 96550

Project Description: Xcel Energy-Ashland

Project Title: Template: SATW Printed: 03/24/2006 13:38

Sample: 399077 Effluent Collected: 03/07/06 Analyzed: 03/10/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,2,3-Trichlorobenzene	ND	ug/L	50	16	56
1,2,4-Trichlorobenzene	ND	ug/L	50	13	46
1,1,1-Trichloroethane	ND	ug/L	50	9.4	33
1,1,2-Trichloroethane	ND	ug/L	50	8.5	30
Trichloroethene	ND	ug/L	50	15	52
Trichlorofluoromethane	ND	ug/L	50	8.3	29
1,2,3-Trichloropropane	ND	ug/L	50	7.0	25
1,2,4-Trimethylbenzene	ND	ug/L	50	16	55
1,3,5-Trimethylbenzene	ND	ug/L	50	8.2	29
Vinyl chloride	ND	ug/L	50	9.8	35
meta,para-Xylene	ND	ug/L	50	19	67
MTBE	ND	ug/L	50	9.5	34
Isopropyl Ether	ND	ug/L	50	8.9	32
Dibromofluoromethane (SURR**)	111%				
Toluene-d8 (SURR**)	122%				
1-Bromo-4-Fluorobenzene (SURR**)	111%				

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 96550

Project Description: Xcel Energy-Ashland

Project Title: Template: SATW Printed: 03/24/2006 13:38

Sample: 399078 Trip Blank

Collected: 03/07/06

Analyzed: 03/13/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.20	0.70
Bromobenzene	ND	ug/L	1	0.20	0.72
Bromochloromethane	ND	ug/L	1	0.21	0.74
Bromodichloromethane	ND	ug/L	1	0.17	0.61
Bromoform	ND	ug/L	1	0.14	0.50
Bromomethane	ND	ug/L	1	0.45	1.6
n-Butylbenzene	ND	ug/L	1	0.25	0.87
sec-Butylbenzene	ND	ug/L	1	0.30	1.0
tert-Butylbenzene	ND	ug/L	1	0.19	0.68
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82
Chlorobenzene	ND	ug/L	1	0.17	0.59
Chloroethane	ND	ug/L	1	1.7	5.9
Chloroform	ND	ug/L	1	0.21	0.73
Chloromethane	ND	ug/L	1	0.20	0.70
2-Chlorotoluene	ND	ug/L	1	0.19	0.67
4-Chlorotoluene	ND	ug/L	1	0.18	0.65
Dibromochloromethane	ND	ug/L	1	0.19	0.68
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.25	0.87
1,2-Dibromoethane	ND	ug/L	1	0.16	0.57
Dibromomethane	ND	ug/L	1	0.17	0.60
1,2-Dichlorobenzene	ND	ug/L	1	0.34	1.2
1,3-Dichlorobenzene	ND	ug/L	1	0.26	0.91
1,4-Dichlorobenzene	ND	ug/L	1	0.24	0.84
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.59
1,1-Dichloroethane	ND	ug/L	1	0.19	0.68
1,2-Dichloroethane	ND	ug/L	1	0.19	0.69
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54
cis-1,2-Dichloroethene	ND	ug/L	1	0.19	0.68
trans-1,2-Dichloroethene	ND	ug/L	1	0.17	0.60
1,2-Dichloropropane	ND	ug/L	1	0.18	0.64
1,3-Dichloropropane	ND	ug/L	1	0.19	0.68
2,2-Dichloropropane	ND	ug/L	1	0.18	0.65
1,1-Dichloropropene	ND	ug/L	1	0.35	1.2
cis-1,3-Dichloropropene	ND	ug/L	1	0.20	0.69
trans-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
Ethylbenzene	ND	ug/L	1	0.19	0.68
Hexachlorobutadiene	ND	ug/L	1	0.26	0.91
Isopropylbenzene	ND	ug/L	1	0.18	0.64
p-Isopropyltoluene	ND	ug/L	1	0.28	0.99
Methylene chloride	ND	ug/L	1	0.36	1.3
Naphthalene	ND	ug/L	1	0.38	1.4
n-Propylbenzene	ND	ug/L	1	0.19	0.66
ortho-Xylene	ND	ug/L	1	0.15	0.54
Styrene	ND	ug/L	1	0.21	0.73
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.62
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.57
Tetrachloroethene	ND	ug/L	1	0.16	0.57
Toluene	ND	ug/L	1	0.19	0.68

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 96550

Project Description: Xcel Energy-Ashland

Project Title: Template: SATW Printed: 03/24/2006 13:38

Sample: 399078 Trip Blank

Collected: 03/07/06

Analyzed: 03/13/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,2,3-Trichlorobenzene	ND	ug/L	1	0.32	1.1
1,2,4-Trichlorobenzene	ND	ug/L	1	0.26	0.91
1,1,1-Trichloroethane	ND	ug/L	1	0.19	0.66
1,1,2-Trichloroethane	ND	ug/L	1	0.17	0.60
Trichloroethene	ND	ug/L	1	0.30	1.0
Trichlorofluoromethane	ND	ug/L	1	0.17	0.59
1,2,3-Trichloropropane	ND	ug/L	1	0.14	0.50
1,2,4-Trimethylbenzene	ND	ug/L	1	0.31	1.1
1,3,5-Trimethylbenzene	ND	ug/L	1	0.16	0.58
Vinyl chloride	ND	ug/L	1	0.20	0.69
meta,para-Xylene	ND	ug/L	1	0.38	1.3
MTBE	ND	ug/L	1	0.19	0.67
Isopropyl Ether	ND	ug/L	1	0.18	0.63
Dibromofluoromethane (SURR**)	104%				
Toluene-d8 (SURR**)	113%				
1-Bromo-4-Fluorobenzene (SURR**)	109%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: Polynuclear Aromatic Hydrocarbons by EPA 8270C SIM

Page 1 of 1

Customer: URS Corporation (Milwaukee) NLS Project: 96550

Project Description: Xcel Energy-Ashland

Project Title: Template: 8270PAHW Printed: 03/24/2006 13:38

Sample: 399077 Effluent Collected: 03/07/06 Analyzed: 03/22/06 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Acenaphthene	ND	ug/L	1	0.027	0.090
Acenaphthylene	0.32	ug/L	1	0.027	0.090
Anthracene	0.27	ug/L	1	0.023	0.078
Benzo (a) anthracene	0.48	ug/L	1	0.027	0.091
Benzo (a) pyrene	0.47	ug/L	1	0.018	0.056
Benzo (b) fluoranthene	0.39	ug/L	1	0.027	0.089
Benzo (g,h,i) perylene	0.21	ug/L	1	0.029	0.098
Benzo (k) fluoranthene	0.13	ug/L	1	0.034	0.12
Chrysene	0.41	ug/L	1	0.027	0.091
Dibenzo (a,h) anthracene	[0.070]	ug/L	1	0.033	0.11
Fluoranthene	0.62	ug/L	1	0.027	0.089
Fluorene	0.13	ug/L	1	0.026	0.085
Indeno (1,2,3-cd) pyrene	0.20	ug/L	1	0.034	0.11
Methyl-1-Naphthalene	0.14	ug/L	1	0.021	0.071
Methyl-2-Naphthalene	0.12	ug/L	1	0.024	0.079
Naphthalene	0.40	ug/L	1	0.023	0.077
Phenanthrene	0.68	ug/L	1	0.024	0.079
Pyrene	0.82	ug/L	1	0.025	0.084
Nitrobenzene-d5 (SURR**)	67%				
2-Fluorobiphenyl (SURR**)	77%				
Terphenyl-d14 (SURR**)	48%				

Matrix spike recovery for Phenanthrene was below QC limits.

Laboratory control spike recovery for Indeno[1,2,3-cd]pyrene was above QC limits.

** Surrogates are used to evaluate a method's Quality Control.

March 15, 2006

Client:

URS CORPORATION - MILWAUKEE
10200 Innovation Drive Suite 500
Milwaukee, WI 53226

Work Order: CPC0637
Project Name: Xcel Energy - Ashland
Project Number: Air Samples

Attn: Paul Sklar

Date Received: 03/13/06

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
Air Stripper	CPC0637-01	03/07/06
1rst Stage Carbon	CPC0637-02	03/07/06
Air Effluent	CPC0637-03	03/07/06

Case Narrative: Total Hydrocarbons quantified as Gasoline.

Illinois Certification Number: 200024

Field blanks are not used in sample correction unless noted.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample analyzed.

Approved By:



Michael K. McGee, CIH - Laboratory Director

AIHA Lab Certification Number: #101044

TestAmerica Analytical - Cedar Falls

Brian C. Graettinger
Project Manager

URS CORPORATION - MILWAUKEE
 10200 Innovation Drive Suite 500
 Milwaukee, WI 53226
 Paul Sklar

Work Order: CPC0637
 Project: Xcel Energy - Ashland
 Project Number: Air Samples

Received: 03/13/06
 Reported: 03/15/06 16:06

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Date Analyzed	Analyst	Method	Quant. Limit
Sample ID: CPC0637-01 (Air Stripper)		Sample Air Volume: 3.0 L		Sampled: 03/07/06		
Benzene	<20.0ug/tube	<6.67 mg/m3	<2.09 ppm	3/15/2006	eee NIOSH 1501	20.0
Ethylbenzene	<20.0ug/tube	<6.67 mg/m3	<1.54 ppm	3/15/2006	eee NIOSH 1501	20.0
Hydrocarbons, Total	<50.0ug/tube	<16.7 mg/m3	<5.66 ppm	3/15/2006	eee NIOSH 1550	50.0
Toluene	<20.0ug/tube	<6.67 mg/m3	<1.77 ppm	3/15/2006	eee NIOSH 1501	20.0
Xylenes, total	<30.0ug/tube	<10 mg/m3	<2.3 ppm	3/15/2006	eee NIOSH 1501	30.0
Sample ID: CPC0637-02 (1rst Stage Carbon)		Sample Air Volume: 3.0 L		Sampled: 03/07/06		
Benzene	<20.0ug/tube	<6.67 mg/m3	<2.09 ppm	3/15/2006	eee NIOSH 1501	20.0
Ethylbenzene	<20.0ug/tube	<6.67 mg/m3	<1.54 ppm	3/15/2006	eee NIOSH 1501	20.0
Hydrocarbons, Total	<50.0ug/tube	<16.7 mg/m3	<5.66 ppm	3/15/2006	eee NIOSH 1550	50.0
Toluene	<20.0ug/tube	<6.67 mg/m3	<1.77 ppm	3/15/2006	eee NIOSH 1501	20.0
Xylenes, total	<30.0ug/tube	<10 mg/m3	<2.3 ppm	3/15/2006	eee NIOSH 1501	30.0
Sample ID: CPC0637-03 (Air Effluent)		Sample Air Volume: 5.0 L		Sampled: 03/07/06		
Benzene	<20.0ug/tube	<4 mg/m3	<1.25 ppm	3/15/2006	eee NIOSH 1501	20.0
Ethylbenzene	<20.0ug/tube	<4 mg/m3	<0.92 ppm	3/15/2006	eee NIOSH 1501	20.0
Hydrocarbons, Total	<50.0ug/tube	<10 mg/m3	<3.4 ppm	3/15/2006	eee NIOSH 1550	50.0
Toluene	<20.0ug/tube	<4 mg/m3	<1.06 ppm	3/15/2006	eee NIOSH 1501	20.0
Xylenes, total	<30.0ug/tube	<6 mg/m3	<1.38 ppm	3/15/2006	eee NIOSH 1501	30.0

Appendix B

**Monitoring Well MW-4B
Abandonment Form**

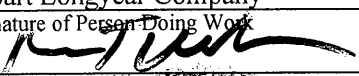
All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Ashland Lakefront Site	
Well/Drillhole/Borehole Location MW-4B	County Ashland	Original Well Owner (If Known)	
_____ 1/4 of _____ 1/4 of Sec. _____ ; T. _____ N; R. _____ <input type="checkbox"/> E <input type="checkbox"/> W (If Applicable)		Present Well Owner Ashland Lakefront Site	
_____ Gov't Lot _____ Grid Number		Street or Route	
_____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Ashland, WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) MW-4B	WI Unique Well No.
Street Address of Well		Reason For Abandonment No Longer Needed	
City, Village Ashland		Date of Abandonment 03/01/06	

WELL/DRILLHOLE/BOREHOLE INFORMATION			
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____ <input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____ Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft) <u>55.0</u> Casing Diameter (in.) <u>2.00</u> (From groundsurface) Casing Depth (ft.) <u>55.0</u> Lower Drillhole Diameter (in.) _____ Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	(4) Depth to Water (Feet) <u>14.0</u> Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain <u>Overdrilled</u> Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe - Gravity <input checked="" type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Chipped Bentonite

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
30% High Solids Bentonite Grout	Surface	55.0	140 Gallons

(8) Comments Grout 10.3 pounds per gallon.

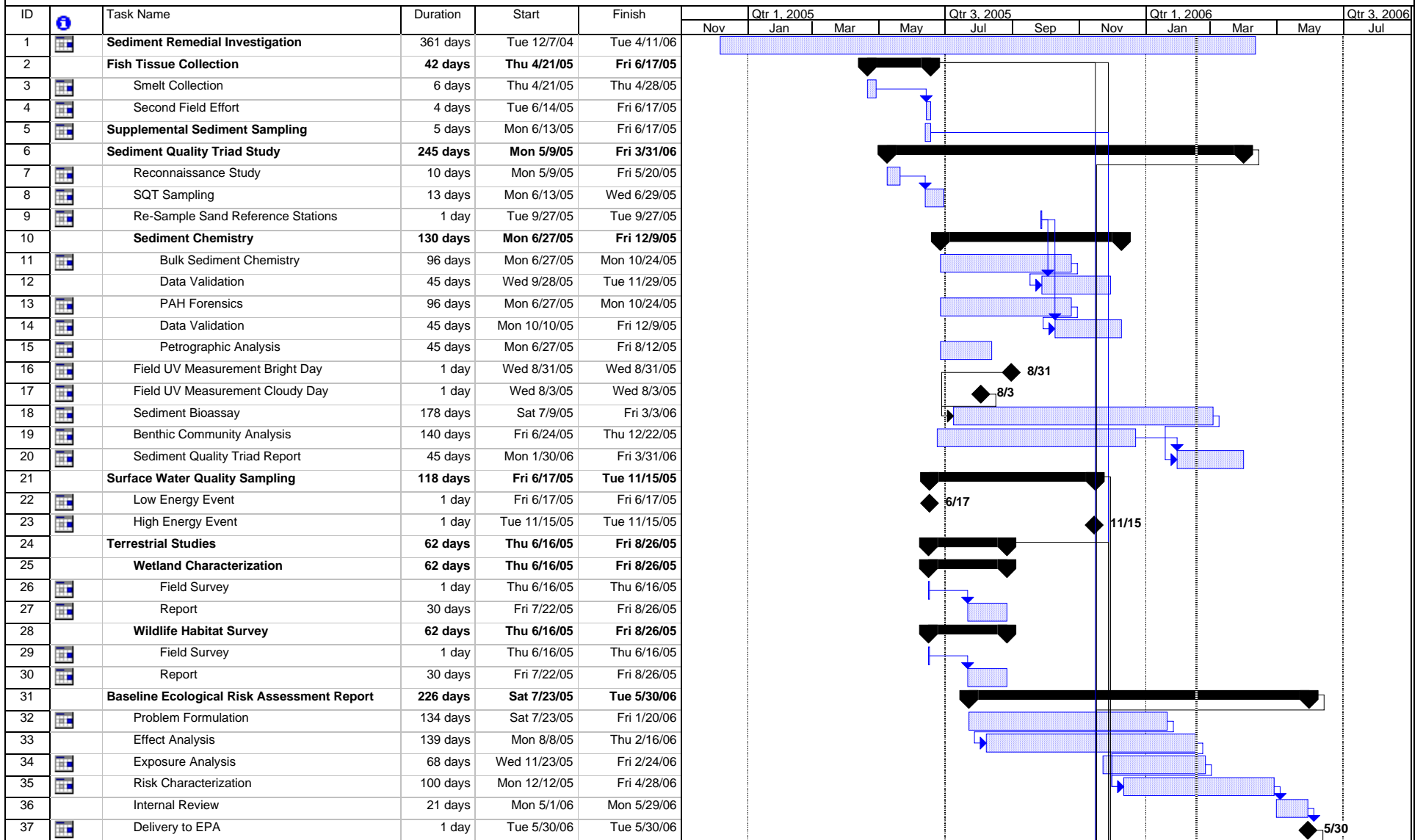
(9) Name of Person or Firm Doing Sealing Work	
Boart Longyear Company	
Signature of Person Doing Work 	Date Signed 03-14-06
Street or Route 101 Alderson Street	Telephone Number 715-359-7090
City, State, Zip Code Schofield, WI 54476	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

Appendix C

Approved RI Schedule

**Ashland/NSP Lakefront Superfund Site
BERA/RI Schedule
Revised February 17, 2006**



Project: Ashland/NSP Lakefront Site Date: Thu 2/16/06	Task		Summary		Rolled Up Progress		Deadline	
	Split		Rolled Up Task		External Tasks			
	Progress		Rolled Up Split		Project Summary			
	Milestone		Rolled Up Milestone		External Milestone			

**Ashland/NSP Lakefront Superfund Site
BERA/RI Schedule
Revised February 17, 2006**

ID	Task Name	Duration	Start	Finish	Qtr 1, 2005				Qtr 3, 2005			Qtr 1, 2006			Qtr 3, 2006	
					Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	
38	EPA Review	60 days	Wed 5/31/06	Tue 8/22/06												
39	Human Health Risk Assessment	189 days	Sat 7/23/05	Fri 4/7/06												
40	Problem Formulation	26 days	Sat 7/23/05	Tue 8/23/05												
41	Toxicity Assessment	37 days	Wed 8/24/05	Thu 10/13/05												
42	Exposure Assessment	25 days	Wed 11/16/05	Tue 12/20/05												
43	Risk Characterization	83 days	Wed 11/23/05	Fri 3/17/06												
44	Internal Review	14 days	Mon 3/20/06	Thu 4/6/06												
45	Delivery to EPA	1 day	Fri 4/7/06	Fri 4/7/06												
46	EPA Review	60 days	Mon 4/10/06	Fri 6/30/06												
47	Sediment Stability Study	233 days	Tue 5/10/05	Thu 3/16/06												
48	Deploy Current Meters	25 days	Tue 5/10/05	Mon 6/13/05												
49	Retrieve Current Meters	1 day	Tue 6/14/05	Tue 6/14/05												
50	Sediment Cores (Vertically Stratified)	75 days	Thu 6/16/05	Wed 9/14/05												
51	Radiometric Analysis	45 days	Thu 6/16/05	Wed 8/3/05												
52	Data Validation	30 days	Thu 8/4/05	Wed 9/14/05												
53	Chemical Analysis	45 days	Thu 6/16/05	Wed 8/3/05												
54	Data Validation	30 days	Thu 8/4/05	Wed 9/14/05												
55	Sediment Cores (SEDFLUME)	60 days	Wed 6/22/05	Tue 8/30/05												
56	Flume Study	30 days	Wed 6/22/05	Sat 7/23/05												
57	Report	30 days	Sun 7/24/05	Tue 8/30/05												
58	Hydrographic Study	89 days	Mon 6/20/05	Thu 10/6/05												
59	Bathymetric Survey	5 days	Mon 6/20/05	Fri 6/24/05												
60	Sidescan Survey	5 days	Mon 6/20/05	Fri 6/24/05												
61	Sub Bottom Survey	5 days	Mon 6/20/05	Fri 6/24/05												
62	Data Reduction	45 days	Mon 6/27/05	Fri 8/12/05												
63	Produce Report and GIS Maps	80 days	Fri 7/1/05	Thu 10/6/05												
64	Sediment Stability Report	85 days	Fri 11/18/05	Thu 3/16/06												
65	Report Preparation	60 days	Fri 11/18/05	Thu 2/9/06												
66	Peer Review	16 days	Fri 2/10/06	Fri 3/3/06												
67	Delivery to EPA	1 day	Thu 3/16/06	Thu 3/16/06												
68	Remedial Investigation Report	136 days	Mon 11/28/05	Mon 6/5/06												
69	RI Report Preparation	120 days	Mon 11/28/05	Fri 5/12/06												
70	Internal Review	15 days	Mon 5/15/06	Fri 6/2/06												
71	Delivery to EPA	1 day	Mon 6/5/06	Mon 6/5/06												
72	EPA Review	60 days	Tue 6/6/06	Mon 8/28/06												

Project: Ashland/NSP Lakefront Site Date: Thu 2/16/06	Task		Summary		Rolled Up Progress		Deadline	
	Split		Rolled Up Task		External Tasks			
	Progress		Rolled Up Split		Project Summary			
	Milestone		Rolled Up Milestone		External Milestone			