

ASHLAND/NSP LAKEFRONT SITE
September 15, 2008 PROGRESS REPORT (No. 58)
WDNR BRRTS #02-02-00013
CERCLA Docket No. V-W-04-C-764
USEPA ID# WISFN057952

This is the fifty-eighth 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 during August 2008. 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 recovery system operated with no shutdowns during August. During the 36-day period between July 30th and September 4th, a total of 305.7 gallons was collected by the removal system. This represents a rate of 8.5 gallons/day, an approximate 3.5 times increase in recovery from the previous daily rate calculated during July. This value is misleading, however; the storage tank, floating product surge tank, and oil water separator were evacuated by Northern Minnesota Services on August 26th for off-site disposal. On that date, 811 gallons were removed by the tanker truck (product removal from the surge tank and oil water separator added to the cumulative total during the 36-day period). During the subsequent monitoring event on September 4th, 195.6 gallons were measured in the storage tank, the result of further evacuation of the oil water separator by Coleman Engineering at that time.¹ This final measurement confirms that the cumulative removal of free-product has surpassed 10,000 gallons (10,159.8 gallons) since operation began.

During the same 36-day monitoring period, 28,433 gallons of groundwater were treated and discharged to the sanitary sewer. This includes a measurement of 6,741 gallons through the EW-4 meter. Although the previous report indicated that flow from EW-4 exceeded total system flow between May 29th and July 30th, measurements since July 30th appear consistent with earlier, normal operations.

The August water quality data indicates the treatment system continues to function properly. The total VOC concentration was reduced from 107,000 µg/l at the influent to 1.4 µg/l at the effluent. The air treatment system also shows optimum performance; no detections were measured at any of the monitoring points.

The summary of system monitoring data is included in Tables 1 – 5. Lab analysis reports for the system monitoring samples are included in the Appendix.

RI Activities

All RI field activities were completed during November 2005.

¹ The recovery rate between July 30th and August 20th was approximately 2 gal/day, based on 44.8 gallons recovered during the first 22 days of the monitoring period. This rate is comparable to that measured during July.

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SITE Program Activities

The SITE injection program was completed on February 2, 2007 and all equipment demobilized from the Ashland site the week of February 5, 2007.

NSPW submitted comments to USEPA's SITE program team on the draft Innovative Technology Evaluation Report titled *Cool-Ox™ Technology Demonstration at Ashland MGP Lakefront Site* (June 2008) on August 18th.

Treatability Studies

NSPW submitted the draft Bench Scale Air Emissions Treatability Study report to USEPA for review on August 16, 2007. The Cap Flux Test Treatability Study report was submitted on September 18, 2007. The third and final treatability study report, the Multiphase Flow and Consolidation Testing Report, was submitted for review on October 26, 2007. NSPW subsequently submitted Addendum One to the Cap Flux Test Treatability Study report, the Extended Duration Column Test report, on January 9, 2008.

Groundwater Sampling

NSPW completed groundwater sampling of the entire well network between August 11th and August 20th in accordance with the approved *Supplementary Groundwater Sampling Plan*. This report includes August 2008 monitoring well water level information in Table 6, along with free-product (DNAPL) level information in Table 7. All historic levels are also provided for comparison. The water quality data is pending, and should be available for submittal with the next (October 2008) monthly report.

Reporting Activities Completed

Final RI Report

USEPA provided a formal RI Report approval letter to NSPW on February 5, 2008.

Revised Draft Feasibility Study (FS)

The revised draft FS, including the Remedial Action Objectives, Alternatives Screening and Comparative Analysis Memoranda, as well as the compiled Treatability Test Reports, were submitted to the USEPA on May 15, 2008. This submittal included responses to Agency comments to the initial draft FS submitted October 29, 2007. USEPA confirmed during August that its review comments for the latest draft will be forthcoming during September.

Field Activities Planned

Coleman Engineering continues to monitor the free-product removal system on a weekly basis

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during September.

Reporting Activities Planned

NSPW is prepared to respond to Agency comments to the revised draft FS when they are received.

The next monthly report will be submitted on October 15, 2008.

Attachments:

Table 1 - Remediation System Water Quality Monitoring Results

Table 2 - Remediation System Air Monitoring Results

Table 3 - Summary of Free-Product and Groundwater Volume Removed

Table 4 – Remediation System – Air Treatment Summary

Table 5 – Remediation System – Water Treatment Summary

Table 6 – Summary of Historic Groundwater Elevations

Table 7 – Summary of Historic Free Phase Hydrocarbon Thickness

Appendix – Interim Treatment System - Laboratory Reporting Forms

Table 1
Remediation System Water Quality Monitoring Results
Northern States Power, Ashland, Wisconsin
August 2008

| Analyte | Units | Influent | Precarbon | Effluent | Trip Blank | ⁽¹⁾ POTW | Method | ⁽³⁾ Frequency |
|--------------------------------|-------|----------------|--------------|--------------|------------|---------------------------|----------|--------------------------|
| VOCs | | | | | | | | |
| 1,1,1,2-TETRACHLOROETHANE | ug/L | <990 | <0.39 | <0.39 | <0.39 | -- | EPA 8260 | Monthly |
| 1,1,1-TRICHLOROETHANE | ug/L | <840 | <0.34 | <0.34 | <0.34 | -- | EPA 8260 | Monthly |
| 1,1,2,2-TETRACHLOROETHANE | ug/L | <1200 | <0.49 | <0.49 | <0.49 | -- | EPA 8260 | Monthly |
| 1,1,2-TRICHLOROETHANE | ug/L | <1100 | <0.43 | <0.43 | <0.43 | -- | EPA 8260 | Monthly |
| 1,1-DICHLOROETHANE | ug/L | <870 | <0.35 | <0.35 | <0.35 | -- | EPA 8260 | Monthly |
| 1,1-DICHLOROETHENE | ug/L | <850 | <0.34 | <0.34 | <0.34 | -- | EPA 8260 | Monthly |
| 1,1-DICHLOROPROPENE | ug/L | <840 | <0.33 | <0.33 | <0.33 | -- | EPA 8260 | Monthly |
| 1,2,3-TRICHLOROBENZENE | ug/L | <980 | <0.39 | <0.39 | <0.39 | -- | EPA 8260 | Monthly |
| 1,2,3-TRICHLOROPROPANE | ug/L | <1900 | <0.76 | <0.76 | <0.76 | -- | EPA 8260 | Monthly |
| 1,2,4-TRICHLOROBENZENE | ug/L | <860 | <0.34 | <0.34 | <0.34 | -- | EPA 8260 | Monthly |
| 1,2,4-TRIMETHYLBENZENE | ug/L | <1000 | <0.4 | <0.4 | <0.4 | -- | EPA 8260 | Monthly |
| 1,2-DIBROMO-3-CHLOROPROPANE | ug/L | <1300 | <0.51 | <0.51 | <0.51 | -- | EPA 8260 | Monthly |
| 1,2-DIBROMOETHANE | ug/L | <760 | <0.3 | <0.3 | <0.3 | -- | EPA 8260 | Monthly |
| 1,2-DICHLOROBENZENE | ug/L | <950 | <0.38 | <0.38 | <0.38 | -- | EPA 8260 | Monthly |
| 1,2-DICHLOROETHANE | ug/L | <1200 | <0.47 | <0.47 | <0.47 | -- | EPA 8260 | Monthly |
| 1,2-DICHLOROPROPANE | ug/L | <970 | <0.39 | <0.39 | <0.39 | -- | EPA 8260 | Monthly |
| 1,3,5-TRIMETHYLBENZENE | ug/L | <1000 | <0.41 | <0.41 | <0.41 | -- | EPA 8260 | Monthly |
| 1,3-DICHLOROBENZENE | ug/L | <960 | <0.38 | <0.38 | <0.38 | -- | EPA 8260 | Monthly |
| 1,3-DICHLOROPROPANE | ug/L | <910 | <0.36 | <0.36 | <0.36 | -- | EPA 8260 | Monthly |
| 1,4-DICHLOROBENZENE | ug/L | <870 | <0.35 | <0.35 | <0.35 | -- | EPA 8260 | Monthly |
| 2,2-DICHLOROPROPANE | ug/L | <1400 | <0.54 | <0.54 | <0.54 | -- | EPA 8260 | Monthly |
| 2-CHLOROTOLUENE | ug/L | <1000 | <0.41 | <0.41 | <0.41 | -- | EPA 8260 | Monthly |
| 4-CHLOROTOLUENE | ug/L | <1000 | <0.42 | <0.42 | <0.42 | -- | EPA 8260 | Monthly |
| BENZENE | ug/L | 4200 | <0.42 | <0.42 | <0.42 | -- | EPA 8260 | Monthly |
| BROMOBENZENE | ug/L | <1000 | <0.41 | <0.41 | <0.41 | -- | EPA 8260 | Monthly |
| BROMOCHLOROMETHANE | ug/L | <940 | <0.38 | <0.38 | <0.38 | -- | EPA 8260 | Monthly |
| BROMODICHLOROMETHANE | ug/L | <880 | <0.35 | <0.35 | <0.35 | -- | EPA 8260 | Monthly |
| BROMOFORM | ug/L | <960 | <0.38 | <0.38 | <0.38 | -- | EPA 8260 | Monthly |
| BROMOMETHANE | ug/L | <1400 | <0.56 | <0.56 | <0.56 | -- | EPA 8260 | Monthly |
| CARBON TETRACHLORIDE | ug/L | <690 | <0.28 | <0.28 | <0.28 | -- | EPA 8260 | Monthly |
| CHLOROETHANE | ug/L | <970 | <0.39 | <0.39 | <0.39 | -- | EPA 8260 | Monthly |
| CHLOROETHANE | ug/L | <3500 | <1.4 | <1.4 | <1.4 | -- | EPA 8260 | Monthly |
| CHLOROFORM | ug/L | <1000 | <0.42 | 0.77J | <0.42 | -- | EPA 8260 | Monthly |
| CHLOROMETHANE | ug/L | <840 | <0.33 | <0.33 | <0.33 | -- | EPA 8260 | Monthly |
| CIS-1,2-DICHLOROETHYLENE | ug/L | <1000 | <0.4 | <0.4 | <0.4 | -- | EPA 8260 | Monthly |
| CIS-1,3-DICHLOROPROPENE | ug/L | <870 | <0.35 | <0.35 | <0.35 | -- | EPA 8260 | Monthly |
| CYMENE | ug/L | <900 | <0.36 | <0.36 | <0.36 | -- | EPA 8260 | Monthly |
| DIBROMOCHLOROMETHANE | ug/L | <910 | <0.36 | <0.36 | <0.36 | -- | EPA 8260 | Monthly |
| DIBROMOMETHANE | ug/L | <1100 | <0.45 | <0.45 | <0.45 | -- | EPA 8260 | Monthly |
| DICHLORODIFLUOROMETHANE | ug/L | <560 | <0.22 | <0.22 | <0.22 | -- | EPA 8260 | Monthly |
| ETHYLBENZENE | ug/L | 860J | <0.33 | <0.33 | <0.33 | -- | EPA 8260 | Monthly |
| HEXACHLOROBUTADIENE | ug/L | <810 | <0.33 | <0.33 | <0.33 | -- | EPA 8260 | Monthly |
| ISOPROPYL ETHER | ug/L | <840 | <0.34 | <0.34 | <0.34 | -- | EPA 8260 | Monthly |
| ISOPROPYLBENZENE (CUMENE) | ug/L | <810 | <0.32 | <0.32 | <0.32 | -- | EPA 8260 | Monthly |
| M,P-XYLENE (SUM OF ISOMERS) | ug/L | 3000 | 0.51J | <0.26 | <0.26 | -- | EPA 8260 | Monthly |
| METHYLENE CHLORIDE | ug/L | <1000 | <0.4 | 0.64J | <0.4 | -- | EPA 8260 | Monthly |
| NAPHTHALENE | ug/L | 35000 | 1.8 | <0.37 | <0.37 | -- | EPA 8260 | Monthly |
| N-BUTYLBENZENE | ug/L | <910 | <0.36 | <0.36 | <0.36 | -- | EPA 8260 | Monthly |
| N-PROPYLBENZENE | ug/L | <1000 | <0.4 | <0.4 | <0.4 | -- | EPA 8260 | Monthly |
| O-XYLENE (1,2-DIMETHYLBENZENE) | ug/L | 1600J | <0.32 | <0.32 | <0.32 | -- | EPA 8260 | Monthly |
| SEC-BUTYLBENZENE | ug/L | <900 | <0.36 | <0.36 | <0.36 | -- | EPA 8260 | Monthly |
| STYRENE | ug/L | 4400 | <0.35 | <0.35 | <0.35 | -- | EPA 8260 | Monthly |
| T-BUTYLBENZENE | ug/L | <940 | <0.38 | <0.38 | <0.38 | -- | EPA 8260 | Monthly |
| TERT-BUTYL METHYL ETHER | ug/L | <950 | <0.38 | <0.38 | <0.38 | -- | EPA 8260 | Monthly |
| TETRACHLOROETHYLENE (PCE) | ug/L | <760 | <0.31 | <0.31 | <0.31 | -- | EPA 8260 | Monthly |
| TOLUENE | ug/L | 21000 | <0.37 | <0.37 | <0.37 | -- | EPA 8260 | Monthly |
| TRANS-1,2-DICHLOROETHENE | ug/L | <1200 | <0.47 | <0.47 | <0.47 | -- | EPA 8260 | Monthly |
| TRANS-1,3-DICHLOROPROPENE | ug/L | <940 | <0.38 | <0.38 | <0.38 | -- | EPA 8260 | Monthly |
| TRICHLOROETHYLENE (TCE) | ug/L | <1100 | <0.43 | <0.43 | <0.43 | -- | EPA 8260 | Monthly |
| TRICHLOROFLUOROMETHANE | ug/L | <680 | <0.27 | <0.27 | <0.27 | -- | EPA 8260 | Monthly |
| VINYL CHLORIDE | ug/L | <240 | <0.095 | <0.095 | <0.095 | -- | EPA 8260 | Monthly |
| Total VOCs | ug/L | 107,860 | 2.3 | 1.4 | 0 | ⁽²⁾1000 | | |

Collected August 7, 2008

< - Less Than Limit of Detection

J 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 and total PAH for effluent discharge

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

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

August 2008

| Analyte | Units | Air Stripper | 1st Stage Carbon | Effluent | Method | Frequency |
|----------------------|-------------------|--------------|------------------|----------|------------|-----------|
| VOCs | | | | | | |
| Volume Collected | Liters | 3.0 | 3.0 | 3.0 | | |
| 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 | <30 | <30 | <30 | NIOSH 1550 | Monthly |
| Hydrocarbons (total) | mg/m ³ | <10 | <10 | <6.0 | NIOSH 1550 | Monthly |
| Toluene | ug | <20 | <20 | <20 | NIOSH 1501 | Monthly |
| Toluene | mg/m ³ | <6.67 | <6.67 | <4.0 | NIOSH 1501 | Monthly |
| Xylenes, Total | ug | <30 | <30 | <30 | NIOSH 1501 | Monthly |
| Xylenes, Total | mg/m ³ | <10 | <10 | <6.0 | NIOSH 1501 | Monthly |

Collected August 7, 2008

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

Table 3
Summary of Free Product and Groundwater Volume Removed

| Date | Cumulative Volume of Free Product Removed (gals) | Cumulative Volume of Free Product 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 |

Table 3
Summary of Free Product and Groundwater Volume Removed

| Date | Cumulative Volume of Free Product Removed (gals) | Cumulative Volume of Free Product 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) |
|------------------------|---|--|--|---|--|
| 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 |
| 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 |

Table 3
Summary of Free Product and Groundwater Volume Removed

| Date | Cumulative Volume of Free Product Removed (gals) | Cumulative Volume of Free Product 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) |
|-------------|---|--|--|---|--|
| 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 |
| 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 |

Table 3
Summary of Free Product and Groundwater Volume Removed

| Date | Cumulative Volume of Free Product Removed (gals) | Cumulative Volume of Free Product 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) |
|-------------|---|--|--|---|--|
| 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 |
| 19-Apr-06 | 7,971.4 | 69,806 | 1,019,668 | 314,232 | 1,333,900 |
| 28-Apr-06 | 7,975.5 | 69,842 | 1,019,920 | 314,780 | 1,334,700 |
| 04-May-06 | 7,979.6 | 69,878 | 1,022,600 | 316,100 | 1,338,700 |
| 09-May-06 | 7,979.6 | 69,878 | 1,024,909 | 316,891 | 1,341,800 |
| 18-May-06 | 7,991.8 | 69,984 | 1,028,874 | 318,826 | 1,347,700 |
| 24-May-06 | 7,999.9 | 70,055 | 1,031,888 | 320,312 | 1,352,200 |
| 31-May-06 | 8,012.2 | 70,163 | 1,035,443 | 321,557 | 1,357,000 |
| 07-Jun-06 | 8,020.3 | 70,234 | 1,039,065 | 322,335 | 1,361,400 |
| 16-Jun-06 | 8,028.5 | 70,306 | 1,042,872 | 323,528 | 1,366,400 |
| 22-Jun-06 | 8,044.8 | 70,449 | 1,045,736 | 324,064 | 1,369,800 |
| 29-Jun-06 | 8,069.2 | 70,662 | 1,049,141 | 324,459 | 1,373,600 |
| 06-Jul-06 | 8,073.3 | 70,698 | 1,051,834 | 325,366 | 1,377,200 |
| 12-Jul-06 | 8,085.5 | 70,805 | 1,054,222 | 326,078 | 1,380,300 |
| 19-Jul-06 | 8,093.7 | 70,876 | 1,056,982 | 326,919 | 1,383,900 |
| 26-Jul-06 | 8,101.8 | 70,948 | 1,059,674 | 327,826 | 1,387,500 |
| 01-Aug-06 | 8,114.0 | 71,055 | 1,064,153 | 327,348 | 1,391,500 |
| 10-Aug-06 | 8,122.2 | 71,126 | 1,071,862 | 334,139 | 1,406,000 |
| 16-Aug-06 | 8,146.6 | 71,340 | 1,078,381 | 335,819 | 1,414,200 |
| 23-Aug-06 | 8,154.8 | 71,412 | 1,085,230 | 336,871 | 1,422,100 |
| 31-Aug-06 | 8,158.9 | 71,448 | 1,090,690 | 337,910 | 1,428,600 |
| 06-Sep-06 | 8,171.1 | 71,555 | 1,094,914 | 338,486 | 1,433,400 |
| 13-Sep-06 | 8,179.2 | 71,625 | 1,097,754 | 339,346 | 1,437,100 |
| 19-Sep-06 | 8,183.3 | 71,661 | 1,104,061 | 340,139 | 1,444,200 |
| 27-Sep-06 | 8,211.8 | 71,911 | 1,107,431 | 341,069 | 1,448,500 |
| 03-Oct-06 | 8,224.1 | 72,018 | 1,110,093 | 341,808 | 1,451,900 |
| 11-Oct-06 | 8,226.1 | 72,036 | 1,113,607 | 342,794 | 1,456,400 |
| 16-Oct-06 | 8,226.1 | 72,036 | 1,115,800 | 343,400 | 1,459,200 |
| 17-Oct-06 | 8,228.1 | 72,054 | 1,116,122 | 343,478 | 1,459,600 |
| 26-Oct-06 | 8,236.3 | 72,125 | 1,120,707 | 343,793 | 1,464,500 |
| 06-Nov-06 | 8,244.5 | 72,197 | 1,125,881 | 344,619 | 1,470,500 |
| 14-Nov-06 | 8,256.7 | 72,304 | 1,129,682 | 345,218 | 1,474,900 |
| 21-Nov-06 | 8,260.8 | 72,340 | 1,132,849 | 345,651 | 1,478,500 |
| 29-Nov-06 | 8,273.0 | 72,447 | 1,136,723 | 346,077 | 1,482,800 |
| 06-Dec-06 | 8,277.1 | 72,483 | 1,138,386 | 346,415 | 1,484,800 |
| 11-Dec-06 | 8,281.1 | 72,518 | 1,140,343 | 346,657 | 1,487,000 |
| 19-Dec-06 | 8,285.2 | 72,554 | 1,144,773 | 346,927 | 1,491,700 |
| 27-Dec-06 | 8,293.4 | 72,626 | 1,152,915 | 347,385 | 1,500,300 |
| 03-Jan-07 | 8,297.4 | 72,661 | 1,158,558 | 347,742 | 1,506,300 |
| 09-Jan-07 | 8,301.5 | 72,696 | 1,163,598 | 348,202 | 1,511,800 |
| 18-Jan-07 | 8,309.7 | 72,768 | 1,169,548 | 348,953 | 1,518,500 |
| 22-Jan-07 | 8,313.7 | 72,803 | 1,173,360 | 349,240 | 1,522,600 |
| 01-Feb-07 | 8,321.9 | 72,875 | 1,182,142 | 349,959 | 1,532,100 |
| 08-Feb-07 | 8,338.2 | 73,018 | 1,186,156 | 350,444 | 1,536,600 |
| 15-Feb-07 | 8,358.6 | 73,196 | 1,191,766 | 350,834 | 1,542,600 |
| 21-Feb-07 | 8,370.8 | 73,303 | 1,195,200 | 351,100 | 1,546,300 |
| 01-Mar-07 | 8,383.0 | 73,410 | 1,199,427 | 351,473 | 1,550,900 |
| 06-Mar-07 | 8,383.0 | 73,410 | 1,202,260 | 351,640 | 1,553,900 |
| 15-Mar-07 | 8,440.0 | 73,909 | 1,209,660 | 351,641 | 1,561,300 |
| 22-Mar-07 | 8,456.3 | 74,052 | 1,213,560 | 351,641 | 1,565,200 |
| 29-Mar-07 | 8,537.9 | 74,767 | 1,227,660 | 351,641 | 1,579,300 |
| 10-Apr-07 | 8,562.3 | 74,980 | 1,227,433 | 351,967 | 1,579,400 |
| 17-Apr-07 | 8,619.4 | 75,480 | 1,232,571 | 367,329 | 1,599,900 |
| 23-Apr-07 | 8,664.2 | 75,873 | 1,229,536 | 377,664 | 1,607,200 |
| 30-Apr-07 | 8,709.0 | 76,265 | 1,231,877 | 387,623 | 1,619,500 |
| 09-May-07 | 8,729.4 | 76,444 | 1,236,096 | 398,904 | 1,635,000 |
| 15-May-07 | 8,766.1 | 76,765 | 1,243,207 | 403,393 | 1,646,600 |
| 23-May-07 | 8,843.5 | 77,443 | 1,252,542 | 403,758 | 1,656,300 |
| 30-May-07 | 8,855.7 | 77,550 | 1,257,605 | 412,795 | 1,670,400 |
| 05-Jun-07 | 8,880.2 | 77,764 | 1,261,410 | 416,990 | 1,678,400 |
| 11-Jun-07 | 8,896.5 | 77,907 | 1,265,114 | 419,945 | 1,685,059 |
| 19-Jun-07 | 8,912.8 | 78,050 | 1,267,664 | 422,336 | 1,690,000 |
| 25-Jun-07 | 8,933.1 | 78,227 | 1,271,172 | 426,771 | 1,697,943 |
| 05-Jul-07 | 8,945.4 | 78,335 | 1,278,051 | 430,249 | 1,708,300 |
| 12-Jul-07 | 8,969.8 | 78,549 | 1,281,828 | 431,673 | 1,713,501 |
| 20-Jul-07 | 8,982.0 | 78,656 | 1,290,577 | 433,771 | 1,724,348 |

Table 3
Summary of Free Product and Groundwater Volume Removed

| Date | Cumulative Volume of Free Product Removed (gals) | Cumulative Volume of Free Product 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) |
|-----------|--|---|---|--|---|
| 16-Aug-07 | 9,153.2 | 80,155 | 1,305,010 | 437,790 | 1,742,800 |
| 20-Aug-07 | 9,153.2 | 80,155 | 1,307,902 | 440,198 | 1,748,100 |
| 29-Aug-07 | 9,165.4 | 80,262 | 1,315,407 | 443,793 | 1,759,200 |
| 05-Sep-07 | 9,185.8 | 80,440 | 1,322,292 | 445,808 | 1,768,100 |
| 10-Sep-07 | 9,198.0 | 80,547 | 1,327,954 | 446,946 | 1,774,900 |
| 19-Sep-07 | 9,202.1 | 80,583 | 1,332,189 | 449,836 | 1,782,025 |
| 26-Sep-07 | 9,206.2 | 80,619 | 1,333,696 | 457,254 | 1,790,949 |
| 02-Oct-07 | 9,210.3 | 80,655 | 1,334,914 | 462,412 | 1,797,325 |
| 12-Oct-07 | 9,210.3 | 80,655 | 1,334,717 | 462,809 | 1,797,525 |
| 22-Oct-07 | 9,210.3 | 80,655 | 1,331,638 | 469,763 | 1,801,400 |
| 06-Nov-07 | 9,222.5 | 80,762 | 1,330,449 | 489,294 | 1,819,742 |
| 12-Nov-07 | 9,234.7 | 80,868 | 1,331,478 | 495,067 | 1,826,544 |
| 21-Nov-07 | 9,242.9 | 80,940 | 1,334,520 | 501,132 | 1,835,651 |
| 29-Nov-07 | 9,246.9 | 80,975 | 1,337,816 | 504,345 | 1,842,160 |
| 06-Dec-07 | 9,251.0 | 81,011 | 1,340,906 | 506,666 | 1,847,571 |
| 10-Dec-07 | 9,267.3 | 81,154 | 1,342,685 | 507,837 | 1,850,521 |
| 19-Dec-07 | 9,283.6 | 81,297 | 1,346,224 | 510,677 | 1,856,900 |
| 27-Dec-07 | 9,312.1 | 81,546 | 1,349,590 | 512,962 | 1,862,551 |
| 02-Jan-08 | 9,336.6 | 81,761 | 1,352,432 | 514,171 | 1,866,602 |
| 08-Jan-08 | 9,365.1 | 82,010 | 1,352,568 | 514,533 | 1,867,100 |
| 18-Jan-08 | 9,385.5 | 82,189 | 1,356,915 | 518,176 | 1,875,090 |
| 24-Jan-08 | 9,405.9 | 82,368 | 1,359,510 | 519,289 | 1,878,798 |
| 31-Jan-08 | 9,409.9 | 82,403 | 1,362,684 | 520,622 | 1,883,305 |
| 07-Feb-08 | 9,442.5 | 82,688 | 1,365,922 | 521,979 | 1,887,900 |
| 13-Feb-08 | 9,471.1 | 82,939 | 1,367,735 | 523,266 | 1,891,000 |
| 26-Feb-08 | 9,475.1 | 82,974 | 1,371,204 | 526,234 | 1,897,437 |
| 07-Mar-08 | 9,487.4 | 83,081 | 1,372,849 | 527,552 | 1,900,400 |
| 10-Mar-08 | 9,691.1 | 84,865 | 1,373,978 | 528,514 | 1,902,491 |
| 20-Mar-08 | 9,691.1 | 84,865 | 1,374,132 | 538,269 | 1,912,400 |
| 28-Mar-08 | 9,691.1 | 84,865 | 1,375,385 | 542,016 | 1,917,400 |
| 02-Apr-08 | 9,699.3 | 84,937 | 1,380,985 | 542,016 | 1,923,000 |
| 08-Apr-08 | 9,703.3 | 84,972 | 1,388,850 | 542,016 | 1,930,865 |
| 14-Apr-08 | 9,707.4 | 85,008 | 1,393,168 | 542,016 | 1,935,183 |
| 21-Apr-08 | 9,711.5 | 85,044 | 1,409,516 | 542,021 | 1,951,537 |
| 29-Apr-08 | 9,715.6 | 85,080 | 1,418,809 | 548,709 | 1,967,517 |
| 07-May-08 | 9,715.6 | 85,080 | 1,425,927 | 554,298 | 1,980,224 |
| 13-May-08 | 9,719.6 | 85,115 | 1,427,167 | 557,668 | 1,984,834 |
| 21-May-08 | 9,727.8 | 85,187 | 1,427,250 | 559,351 | 1,986,600 |
| 29-May-08 | 9,731.9 | 85,222 | 1,425,839 | 567,573 | 1,993,411 |
| 05-Jun-08 | 9,731.9 | 85,222 | 1,425,306 | 573,325 | 1,998,630 |
| 10-Jun-08 | 9,731.9 | 85,222 | 1,421,474 | 579,600 | 2,001,073 |
| 17-Jun-08 | 9,740.0 | 85,293 | 1,414,903 | 591,898 | 2,006,800 |
| 24-Jun-08 | 9,764.5 | 85,508 | 1,414,108 | 597,692 | 2,011,800 |
| 30-Jun-08 | 9,780.8 | 85,651 | 1,411,785 | 604,744 | 2,016,529 |
| 09-Jul-08 | 9,801.1 | 85,828 | 1,410,159 | 611,441 | 2,021,600 |
| 16-Jul-08 | 9,805.2 | 85,864 | 1,408,756 | 616,844 | 2,025,600 |
| 24-Jul-08 | 9,829.7 | 86,079 | 1,407,392 | 622,081 | 2,029,473 |
| 30-Jul-08 | 9,854.1 | 86,293 | 1,406,859 | 625,208 | 2,032,067 |
| 07-Aug-08 | 9,878.6 | 86,507 | 1,408,044 | 627,256 | 2,035,300 |
| 13-Aug-08 | 9,886.7 | 86,578 | 1,408,829 | 629,071 | 2,037,900 |
| 20-Aug-08 | 9,898.9 | 86,685 | 1,411,104 | 630,296 | 2,041,400 |
| 26-Aug-08 | 9,964.2 | 87,257 | NA | reading not taken | reading not taken |
| 04-Sep-08 | 10,159.8 | 88,970 | 1,428,551 | 631,949 | 2,060,500 |

¹ Increase in free product removal w/ no change in groundwater removal volume due to free product 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% free product in that volume.

² Correction of revised quantity of free product removed on 4/23/2003 of -211.9 gallons due to settling of emulsified free product 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 | 12.7 | 3.33 | 0.14 | 0.04 | 2183.52 | 442.94 | | |
| 19-Mar-04 | 917 | Intermediate | 125 | 29 | 20.0 | 9.00 | 0.22 | 0.10 | | | | |
| 19-Mar-04 | 917 | Effluent | 125 | 29 | 13.2 | 6.80 | 0.15 | 0.07 | | | 194.9 | 61.5 |
| 27-Apr-04 | 956 | Influent | 125 | 29 | 11.3 | 3.33 | 0.12 | 0.04 | 2184.26 | 443.51 | | |
| 27-Apr-04 | 956 | Intermediate | 125 | 29 | 11.0 | 3.33 | 0.12 | 0.04 | | | | |
| 27-Apr-04 | 956 | Effluent | 125 | 29 | 9.6 | 2.00 | 0.11 | 0.02 | | | 199.0 | 62.3 |
| 26-May-04 | 985 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2178.25 | 443.11 | | |
| 26-May-04 | 985 | Intermediate | 125 | 29 | 19.7 | 3.33 | 0.22 | 0.04 | | | | |
| 26-May-04 | 985 | Effluent | 125 | 29 | 23.8 | 4.60 | 0.26 | 0.05 | | | 206.6 | 63.8 |
| 24-Jun-04 | 1014 | Influent | 125 | 29 | 11.7 | 3.33 | 0.13 | 0.04 | 2179.11 | 443.53 | | |
| 24-Jun-04 | 1014 | Intermediate | 125 | 29 | 13.0 | 3.33 | 0.14 | 0.04 | | | | |
| 24-Jun-04 | 1014 | Effluent | 125 | 29 | 9.0 | 2.00 | 0.10 | 0.02 | | | 209.5 | 64.4 |
| 6-Jul-04 | 1026 | Influent | 125 | 29 | 108.0 | 3.33 | 1.19 | 0.04 | 2191.17 | 443.71 | | |
| 6-Jul-04 | 1026 | Intermediate | 125 | 29 | 23.0 | 3.33 | 0.25 | 0.04 | | | | |
| 6-Jul-04 | 1026 | Effluent | 125 | 29 | 16.8 | 2.00 | 0.19 | 0.02 | | | 211.7 | 64.7 |
| 19-Aug-04 | 1070 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2192.14 | 444.35 | | |
| 19-Aug-04 | 1070 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 19-Aug-04 | 1070 | Effluent | 125 | 29 | 3.0 | 2.00 | 0.03 | 0.02 | | | 213.1 | 65.7 |
| 30-Sep-04 | 1112 | Influent | 125 | 29 | 10.3 | 3.33 | 0.11 | 0.04 | 2190.89 | 444.97 | | |
| 30-Sep-04 | 1112 | Intermediate | 125 | 29 | 14.3 | 3.33 | 0.16 | 0.04 | | | | |
| 30-Sep-04 | 1112 | Effluent | 125 | 29 | 13.0 | 2.00 | 0.14 | 0.02 | | | 219.2 | 66.6 |

**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-Oct-04 | 1140 | Influent | 125 | 29 | 13.3 | 3.33 | 0.15 | 0.04 | 2186.48 | 442.48 | | |
| 28-Oct-04 | 1140 | Intermediate | 125 | 29 | 37.3 | 13.70 | 0.41 | 0.15 | | | | |
| 28-Oct-04 | 1140 | Effluent | 125 | 29 | 27.6 | 11.40 | 0.30 | 0.13 | | | 227.7 | 70.1 |
| 17-Nov-04 | 1160 | Influent | 125 | 29 | 23.7 | 7.00 | 0.26 | 0.08 | 2186.54 | 442.21 | | |
| 17-Nov-04 | 1160 | Intermediate | 125 | 29 | 21.0 | 6.67 | 0.23 | 0.07 | | | | |
| 17-Nov-04 | 1160 | Effluent | 125 | 29 | 23.4 | 8.20 | 0.26 | 0.09 | | | 232.8 | 71.9 |
| 15-Dec-04 | 1188 | Influent | 125 | 29 | 84.7 | 23.30 | 0.93 | 0.26 | 2197.50 | 445.51 | | |
| 15-Dec-04 | 1188 | Intermediate | 125 | 29 | 52.0 | 15.00 | 0.57 | 0.17 | | | | |
| 15-Dec-04 | 1188 | Effluent | 125 | 29 | 49.2 | 12.60 | 0.54 | 0.14 | | | 248.0 | 75.8 |
| 12-Jan-05 | 1216 | Influent | 125 | 29 | 12.3 | 3.33 | 0.14 | 0.04 | 2200.37 | 445.92 | | |
| 12-Jan-05 | 1216 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 12-Jan-05 | 1216 | Effluent | 125 | 29 | 3.0 | 2.00 | 0.03 | 0.02 | | | 248.9 | 76.4 |
| 8-Feb-05 | 1243 | Influent | 125 | 29 | 15.3 | 4.17 | 0.17 | 0.05 | 2201.05 | 446.42 | | |
| 8-Feb-05 | 1243 | Intermediate | 125 | 29 | 14.0 | 4.17 | 0.15 | 0.05 | | | | |
| 8-Feb-05 | 1243 | Effluent | 125 | 29 | 13.0 | 2.50 | 0.14 | 0.03 | | | 252.8 | 77.2 |
| 25-Mar-05 | 1288 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2199.66 | 447.08 | | |
| 25-Mar-05 | 1288 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 25-Mar-05 | 1288 | Effluent | 125 | 29 | 7.8 | 2.00 | 0.09 | 0.02 | | | 256.7 | 78.2 |
| 6-Apr-05 | 1300 | Influent | 125 | 29 | 13.0 | 3.33 | 0.14 | 0.04 | 2200.32 | 447.26 | | |
| 6-Apr-05 | 1300 | Intermediate | 125 | 29 | 11.0 | 3.33 | 0.12 | 0.04 | | | | |
| 6-Apr-05 | 1300 | Effluent | 125 | 29 | 8.0 | 2.00 | 0.09 | 0.02 | | | 257.7 | 78.4 |
| 12-May-05 | 1336 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2195.09 | 445.72 | | |
| 12-May-05 | 1336 | Intermediate | 125 | 29 | 16.2 | 6.50 | 0.18 | 0.07 | | | | |
| 12-May-05 | 1336 | Effluent | 125 | 29 | 18.2 | 7.20 | 0.20 | 0.08 | | | 265.0 | 81.3 |
| 15-Jun-05 | 1370 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2192.76 | 446.22 | | |
| 15-Jun-05 | 1370 | Intermediate | 125 | 29 | 10.0 | 3.33 | 0.11 | 0.04 | | | | |
| 15-Jun-05 | 1370 | Effluent | 125 | 29 | 11.2 | 2.00 | 0.12 | 0.02 | | | 269.2 | 82.0 |
| 6-Jul-05 | 1391 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2193.23 | 446.53 | | |
| 6-Jul-05 | 1391 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 6-Jul-05 | 1391 | Effluent | 125 | 29 | 3.0 | 2.00 | 0.03 | 0.02 | | | 269.8 | 82.5 |
| 3-Aug-05 | 1419 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2193.84 | 446.94 | | |
| 3-Aug-05 | 1419 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 3-Aug-05 | 1419 | Effluent | 125 | 29 | 3.0 | 2.00 | 0.03 | 0.02 | | | 270.8 | 83.1 |
| 14-Sep-05 | 1461 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2194.77 | 447.55 | | |
| 14-Sep-05 | 1461 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 14-Sep-05 | 1461 | Effluent | 125 | 29 | 3.0 | 2.00 | 0.03 | 0.02 | | | 272.2 | 84.0 |
| 12-Oct-05 | 1489 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2194.40 | 447.96 | | |
| 12-Oct-05 | 1489 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 12-Oct-05 | 1489 | Effluent | 125 | 29 | 6.2 | 2.00 | 0.07 | 0.02 | | | 274.1 | 84.7 |
| 7-Nov-05 | 1515 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2190.79 | 446.57 | | |
| 7-Nov-05 | 1515 | Intermediate | 125 | 29 | 12.0 | 3.33 | 0.13 | 0.04 | | | | |
| 7-Nov-05 | 1515 | Effluent | 125 | 29 | 17.6 | 8.20 | 0.19 | 0.09 | | | 279.1 | 87.0 |
| 1-Dec-05 | 1539 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2191.32 | 446.92 | | |
| 1-Dec-05 | 1539 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 1-Dec-05 | 1539 | Effluent | 125 | 29 | 3.0 | 2.00 | 0.03 | 0.02 | | | 279.9 | 87.5 |
| 5-Jan-06 | 1574 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2192.09 | 447.43 | | |
| 5-Jan-06 | 1574 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 5-Jan-06 | 1574 | Effluent | 125 | 29 | 3.0 | 2.00 | 0.03 | 0.02 | | | 281.1 | 88.3 |
| 6-Feb-06 | 1606 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2192.09 | 447.43 | | |
| 6-Feb-06 | 1606 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 6-Feb-06 | 1606 | Effluent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | 282.8 | 89.5 |
| 7-Mar-06 | 1635 | Influent | 125 | 29 | 8.4 | 3.33 | 0.09 | 0.04 | 2193.16 | 447.86 | | |
| 7-Mar-06 | 1635 | Intermediate | 125 | 29 | 8.4 | 3.33 | 0.09 | 0.04 | | | | |
| 7-Mar-06 | 1635 | Effluent | 125 | 29 | 5.0 | 2.00 | 0.06 | 0.02 | | | 284.4 | 90.1 |
| 11-Apr-06 | 1670 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2192.47 | 448.37 | | |
| 11-Apr-06 | 1670 | Intermediate | 125 | 29 | 11.3 | 3.33 | 0.12 | 0.04 | | | | |
| 11-Apr-06 | 1670 | Effluent | 125 | 29 | 6.8 | 2.00 | 0.07 | 0.02 | | | 287.1 | 90.9 |
| 4-May-06 | 1693 | Influent | 125 | 29 | 12.7 | 3.33 | 0.14 | 0.04 | 2193.86 | 448.71 | | |
| 4-May-06 | 1693 | Intermediate | 125 | 29 | 11.7 | 3.33 | 0.13 | 0.04 | | | | |
| 4-May-06 | 1693 | Effluent | 125 | 29 | 7.2 | 2.00 | 0.08 | 0.02 | | | 288.9 | 91.4 |
| 6-Jun-06 | 1726 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2186.59 | 446.28 | | |
| 6-Jun-06 | 1726 | Intermediate | 125 | 29 | 25.7 | 8.67 | 0.28 | 0.10 | | | | |
| 6-Jun-06 | 1726 | Effluent | 125 | 29 | 25.0 | 10.00 | 0.28 | 0.11 | | | 298.0 | 95.0 |
| 12-Jul-06 | 1762 | Influent | 125 | 29 | 10.7 | 3.33 | 0.12 | 0.04 | 2182.38 | 446.28 | | |
| 12-Jul-06 | 1762 | Intermediate | 125 | 29 | 12.3 | 3.33 | 0.14 | 0.04 | | | | |
| 12-Jul-06 | 1762 | Effluent | 125 | 29 | 21.3 | 3.33 | 0.23 | 0.04 | | | 306.4 | 96.4 |
| 10-Aug-06 | 1791 | Influent | 125 | 29 | 10.7 | 3.33 | 0.12 | 0.04 | 2181.33 | 444.98 | | |
| 10-Aug-06 | 1791 | Intermediate | 125 | 29 | 51.7 | 17.30 | 0.57 | 0.19 | | | | |
| 10-Aug-06 | 1791 | Effluent | 125 | 29 | 14.0 | 7.40 | 0.15 | 0.08 | | | 310.9 | 98.7 |
| 6-Sep-06 | 1818 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2181.92 | 445.38 | | |
| 6-Sep-06 | 1818 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 6-Sep-06 | 1818 | Effluent | 125 | 29 | 3.0 | 2.00 | 0.03 | 0.02 | | | 311.8 | 99.3 |
| 11-Oct-06 | 1853 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2180.84 | 445.89 | | |
| 11-Oct-06 | 1853 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 11-Oct-06 | 1853 | Effluent | 125 | 29 | 7.8 | 2.00 | 0.09 | 0.02 | | | 314.8 | 100.1 |
| 1-Nov-06 | 1874 | Influent | 125 | 29 | 12.3 | 3.33 | 0.14 | 0.04 | 2181.10 | 446.20 | | |
| 1-Nov-06 | 1874 | Intermediate | 125 | 29 | 11.7 | 3.33 | 0.13 | 0.04 | | | | |
| 1-Nov-06 | 1874 | Effluent | 125 | 29 | 11.2 | 2.00 | 0.12 | 0.02 | | | 317.4 | 100.5 |
| 13-Dec-06 | 1916 | Influent | 125 | 29 | 18.0 | 3.33 | 0.20 | 0.04 | 2184.71 | 446.81 | | |
| 13-Dec-06 | 1916 | Intermediate | 125 | 29 | 13.7 | 3.33 | 0.15 | 0.04 | | | | |
| 13-Dec-06 | 1916 | Effluent | 125 | 29 | 10.2 | 2.00 | 0.11 | 0.02 | | | 322.1 | 101.5 |
| 4-Jan-07 | 1938 | Influent | 125 | 29 | 32.7 | 10.70 | 0.36 | 0.12 | 2188.61 | 447.66 | | |
| 4-Jan-07 | 1938 | Intermediate | 125 | 29 | 23.0 | 8.30 | 0.25 | 0.09 | | | | |
| 4-Jan-07 | 1938 | Effluent | 125 | 29 | 16.6 | 7.20 | 0.18 | 0.08 | | | 326.1 | 103.2 |
| 15-Feb-07 | 1980 | Influent | 125 | 29 | 14.3 | 3.33 | 0.16 | 0.04 | 2186.34 | 445.59 | | |
| 15-Feb-07 | 1980 | Intermediate | 125 | 29 | 22.7 | 3.33 | 0.25 | 0.04 | | | | |
| 15-Feb-07 | 1980 | Effluent | 125 | 29 | 19.2 | 7.80 | 0.21 | 0.09 | | | 335.0 | 106.8 |

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 |
|-------------|--|---------------------------------|---------------------|--------------------|--|---|---|-------------------------------------|--|---|--|---|
| 7-Mar-07 | 2000 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2185.02 | 445.89 | | |
| 7-Mar-07 | 2000 | Intermediate | 125 | 29 | 14.3 | 3.33 | 0.16 | 0.04 | | | | |
| 7-Mar-07 | 2000 | Effluent | 125 | 29 | 11.0 | 2.00 | 0.12 | 0.02 | | | 337.4 | 107.3 |
| 11-Apr-07 | 2035 | Influent | 125 | 29 | 16.7 | 3.33 | 0.18 | 0.04 | 2190.30 | 446.40 | | |
| 11-Apr-07 | 2035 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 11-Apr-07 | 2035 | Effluent | 125 | 29 | 3.0 | 2.00 | 0.03 | 0.02 | | | 338.6 | 108.0 |
| 1-May-07 | 2055 | Influent | 125 | 29 | 17.7 | 3.33 | 0.20 | 0.04 | 2191.21 | 445.72 | | |
| 1-May-07 | 2055 | Intermediate | 125 | 29 | 21.7 | 7.67 | 0.24 | 0.08 | | | | |
| 1-May-07 | 2055 | Effluent | 125 | 29 | 13.6 | 6.40 | 0.15 | 0.07 | | | 341.6 | 109.5 |
| 5-Jun-07 | 2090 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2181.87 | 443.84 | | |
| 5-Jun-07 | 2090 | Intermediate | 125 | 29 | 20.0 | 3.33 | 0.22 | 0.04 | | | | |
| 5-Jun-07 | 2090 | Effluent | 125 | 29 | 29.2 | 8.20 | 0.32 | 0.09 | | | 352.9 | 112.6 |
| 5-Jul-07 | 2120 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2175.59 | 442.17 | | |
| 5-Jul-07 | 2120 | Intermediate | 125 | 29 | 25.0 | 7.67 | 0.28 | 0.08 | | | | |
| 5-Jul-07 | 2120 | Effluent | 125 | 29 | 24.0 | 8.4 | 0.26 | 0.09 | | | 360.8 | 115.4 |
| 16-Aug-07 | 2162 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2176.52 | 442.78 | | |
| 16-Aug-07 | 2162 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 16-Aug-07 | 2162 | Effluent | 125 | 29 | 3.0 | 2.0 | 0.03 | 0.02 | | | 362.2 | 116.3 |
| 5-Sep-07 | 2182 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2176.96 | 443.08 | | |
| 5-Sep-07 | 2182 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 5-Sep-07 | 2182 | Effluent | 125 | 29 | 3.0 | 2.0 | 0.03 | 0.02 | | | 362.8 | 116.8 |
| 2-Oct-07 | 2209 | Influent | 125 | 29 | 13.7 | 3.33 | 0.15 | 0.04 | 2180.14 | 443.47 | | |
| 2-Oct-07 | 2209 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 2-Oct-07 | 2209 | Effluent | 125 | 29 | 3.0 | 2.0 | 0.03 | 0.02 | | | 363.7 | 117.4 |
| 6-Nov-07 | 2244 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2180.91 | 443.99 | | |
| 6-Nov-07 | 2244 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 6-Nov-07 | 2244 | Effluent | 125 | 29 | 3.0 | 2.0 | 0.03 | 0.02 | | | 364.9 | 118.1 |
| 10-Dec-07 | 2278 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2181.66 | 444.48 | | |
| 10-Dec-07 | 2278 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 10-Dec-07 | 2278 | Effluent | 125 | 29 | 3.0 | 2.0 | 0.03 | 0.02 | | | 366.0 | 118.9 |
| 8-Jan-08 | 2307 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2182.30 | 444.91 | | |
| 8-Jan-08 | 2307 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 8-Jan-08 | 2307 | Effluent | 125 | 29 | 3.0 | 2.0 | 0.03 | 0.02 | | | 367.0 | 119.5 |
| 13-Feb-08 | 2343 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2183.10 | 445.44 | | |
| 13-Feb-08 | 2343 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 13-Feb-08 | 2343 | Effluent | 125 | 29 | 3.0 | 2.0 | 0.03 | 0.02 | | | 368.2 | 120.3 |
| 2-Apr-08 | 2392 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2184.18 | 446.15 | | |
| 2-Apr-08 | 2392 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 2-Apr-08 | 2392 | Effluent | 125 | 29 | 3.0 | 2.0 | 0.03 | 0.02 | | | 369.8 | 121.4 |
| 7-May-08 | 2427 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2184.18 | 446.15 | | |
| 7-May-08 | 2427 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 7-May-08 | 2427 | Effluent | 125 | 29 | 5.0 | 3.3 | 0.06 | 0.04 | | | 371.7 | 122.7 |
| 5-Jun-08 | 2456 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2184.82 | 446.58 | | |
| 5-Jun-08 | 2456 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 5-Jun-08 | 2456 | Effluent | 125 | 29 | 3.0 | 2.0 | 0.03 | 0.02 | | | 372.7 | 123.3 |
| 9-Jul-08 | 2490 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2185.56 | 447.08 | | |
| 9-Jul-08 | 2490 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 9-Jul-08 | 2490 | Effluent | 125 | 29 | 3.0 | 2.0 | 0.03 | 0.02 | | | 373.8 | 124.1 |
| 7-Aug-08 | 2519 | Influent | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | 2186.20 | 447.50 | | |
| 7-Aug-08 | 2519 | Intermediate | 125 | 29 | 5.0 | 3.33 | 0.06 | 0.04 | | | | |
| 7-Aug-08 | 2519 | Effluent | 125 | 29 | 3.0 | 2.0 | 0.03 | 0.02 | | | 374.8 | 124.7 |

- (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 | 28,000 | | | | |
| 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 |
| 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 |

**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 |
|-------------|--|-------------|---|--------------------------|-----------------------------|--|---|---|--|
| 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 |
| 11-Apr-06 | 1670 | Influent | | 11,760 | 2,000 | | | | |
| 11-Apr-06 | 1670 | Precarbon | | 280.5 | 28 | | | | |
| 11-Apr-06 | 1670 | Effluent | 1,328,300 | 319.4 | 290 | 499.3 | 194.0 | 13.33471 | 8.36115 |
| 4-May-06 | 1693 | Influent | | 53,032 | 21,000 | | | | |
| 4-May-06 | 1693 | Precarbon | | 349.4 | 96 | | | | |
| 4-May-06 | 1693 | Effluent | 1,338,700 | 3.74 | 2.7 | 503.9 | 195.8 | 13.33503 | 8.36139 |
| 6-Jun-06 | 1726 | Influent | | 11,110 | 1,800 | | | | |
| 6-Jun-06 | 1726 | Precarbon | | 498 | 34 | | | | |
| 6-Jun-06 | 1726 | Effluent | 1,361,400 | 0.4 | 0 | 506.0 | 196.1 | 13.33511 | 8.36139 |

**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 |
|-------------|--|-------------|---|--------------------------|-----------------------------|--|---|---|--|
| 12-Jul-06 | 1762 | Influent | | 64,080 | 25,000 | | | | |
| 12-Jul-06 | 1762 | Precarbon | | 4 | 1.5 | | | | |
| 12-Jul-06 | 1762 | Effluent | 1,380,300 | 0.6 | 0.23 | 516.1 | 200.1 | 13.33520 | 8.36142 |
| 10-Aug-06 | 1791 | Influent | | 10,760 | 1,200 | | | | |
| 10-Aug-06 | 1791 | Precarbon | | 1,434 | 46.0 | | | | |
| 10-Aug-06 | 1791 | Effluent | 1,406,000 | 0.8 | 0 | 518.4 | 200.3 | 13.33537 | 8.36142 |
| 6-Sep-06 | 1818 | Influent | | 8,860 | 600 | | | | |
| 6-Sep-06 | 1818 | Precarbon | | 1,039 | 31.0 | | | | |
| 6-Sep-06 | 1818 | Effluent | 1,433,400 | 0.95 | 0 | 520.4 | 200.5 | 13.33559 | 8.36142 |
| 11-Oct-06 | 1853 | Influent | | 48,460 | 22,000 | | | | |
| 11-Oct-06 | 1853 | Precarbon | | 257 | 59.0 | | | | |
| 11-Oct-06 | 1853 | Effluent | 1,456,400 | 5.44 | 1.8 | 529.7 | 204.7 | 13.33663 | 8.36177 |
| 1-Nov-06 | 1874 | Influent | | 60,910 | 25,000 | | | | |
| 1-Nov-06 | 1874 | Precarbon | | 100 | 6.9 | | | | |
| 1-Nov-06 | 1874 | Effluent | 1,470,500 | 1.00 | 0 | 536.9 | 207.6 | 13.33675 | 8.36177 |
| 13-Dec-06 | 1916 | Influent | | 19,600 | 4,300 | | | | |
| 13-Dec-06 | 1916 | Precarbon | | 690 | 54.0 | | | | |
| 13-Dec-06 | 1916 | Effluent | 1,487,000 | 0.32 | 0 | 539.6 | 208.2 | 13.33680 | 8.36177 |
| 4-Jan-07 | 1938 | Influent | | 37,940 | 13,000 | | | | |
| 4-Jan-07 | 1938 | Precarbon | | 338.9 | 36.0 | | | | |
| 4-Jan-07 | 1938 | Effluent | 1,506,300 | 3.39 | 2.8 | 545.7 | 210.3 | 13.33734 | 8.36222 |
| 15-Feb-07 | 1980 | Influent | | 26,990 | 7,900 | | | | |
| 15-Feb-07 | 1980 | Precarbon | | 357.9 | 78.0 | | | | |
| 15-Feb-07 | 1980 | Effluent | 1,542,600 | 0.53 | 0.2 | 553.9 | 212.7 | 13.33750 | 8.36227 |
| 6-Mar-07 | 1999 | Influent | | 73,170 | 28,000 | | | | |
| 6-Mar-07 | 1999 | Precarbon | | 347.9 | 33.0 | | | | |
| 6-Mar-07 | 1999 | Effluent | 1,553,900 | 2.43 | 0.27 | 560.8 | 215.3 | 13.33773 | 8.36229 |
| 11-Apr-07 | 2035 | Influent | | 45,400 | 18,000 | | | | |
| 11-Apr-07 | 2035 | Precarbon | | 157.0 | 20 | | | | |
| 11-Apr-07 | 2035 | Effluent | 1,579,400 | 1.10 | 0 | 570.4 | 219.2 | 13.33796 | 8.36229 |
| 30-Apr-07 | 2054 | Influent | | 19,280 | 4,900 | | | | |
| 30-Apr-07 | 2054 | Precarbon | | 98.4 | 87 | | | | |
| 30-Apr-07 | 2054 | Effluent | 1,619,500 | 49.2 | 3.7 | 576.9 | 220.8 | 13.35442 | 8.36353 |
| 5-Jun-07 | 2090 | Influent | | 28,510 | 9,800 | | | | |
| 5-Jun-07 | 2090 | Precarbon | | 68.3 | 3.7 | | | | |
| 5-Jun-07 | 2090 | Effluent | 1,678,400 | 4.6 | 1.0 | 590.9 | 225.6 | 13.35668 | 8.36403 |
| 5-Jul-07 | 2120 | Influent | | 34,990 | 11,000 | | | | |
| 5-Jul-07 | 2120 | Precarbon | | 106.3 | 16 | | | | |
| 5-Jul-07 | 2120 | Effluent | 1,708,300 | 2.4 | 1.8 | 599.6 | 228.4 | 13.35727 | 8.36448 |
| 16-Aug-07 | 2162 | Influent | | 81 | 0 | | | | |
| 16-Aug-07 | 2162 | Precarbon | | 35.6 | 2 | | | | |
| 16-Aug-07 | 2162 | Effluent | 1,742,800 | 1.3 | 1.1 | 599.6 | 228.4 | 13.35763 | 8.36480 |
| 5-Sep-07 | 2182 | Influent | | 11,640 | 1,900 | | | | |
| 5-Sep-07 | 2182 | Precarbon | | 59.8 | 4.1 | | | | |
| 5-Sep-07 | 2182 | Effluent | 1,768,100 | 4.4 | 3.6 | 602.1 | 228.8 | 13.35857 | 8.36556 |
| 2-Oct-07 | 2209 | Influent | | 19,590 | 5,200 | | | | |
| 2-Oct-07 | 2209 | Precarbon | | 118.4 | 5.3 | | | | |
| 2-Oct-07 | 2209 | Effluent | 1,797,325 | 5.3 | 4.1 | 606.9 | 230.0 | 13.35987 | 8.36656 |
| 6-Nov-07 | 2244 | Influent | | 55,030 | 24,000 | | | | |
| 6-Nov-07 | 2244 | Precarbon | | 24.0 | 7.3 | | | | |
| 6-Nov-07 | 2244 | Effluent | 1,819,742 | 53.6 | 49.0 | 617.1 | 234.5 | 13.36990 | 8.37576 |
| 10-Dec-07 | 2278 | Influent | | 56,230 | 22,000 | | | | |
| 10-Dec-07 | 2278 | Precarbon | | 121.3 | 14.0 | | | | |
| 10-Dec-07 | 2278 | Effluent | 1,850,521 | 1.0 | 0.0 | 631.6 | 240.2 | 13.37016 | 8.37576 |
| 8-Jan-08 | 2307 | Influent | | 2,967 | 1,100 | | | | |
| 8-Jan-08 | 2307 | Precarbon | | 36.5 | 1.5 | | | | |
| 8-Jan-08 | 2307 | Effluent | 1,867,100 | 1.4 | 0.0 | 632.0 | 240.3 | 13.37035 | 8.37576 |
| 13-Feb-08 | 2343 | Influent | | 2,095 | 300 | | | | |
| 13-Feb-08 | 2343 | Precarbon | | 17.0 | 1.5 | | | | |
| 13-Feb-08 | 2343 | Effluent | 1,891,000 | 1.2 | 0.0 | 632.4 | 240.4 | 13.37060 | 8.37576 |
| 10-Mar-08 | 2369 | Influent | | 6,165 | 1,700 | | | | |
| 10-Mar-08 | 2369 | Precarbon | | 29.0 | 2.9 | | | | |
| 10-Mar-08 | 2369 | Effluent | 1,902,491 | 0.3 | 0.0 | 633.0 | 240.5 | 13.37063 | 8.37576 |
| 2-Apr-08 | 2392 | Influent | | 67,500 | 31,000 | | | | |
| 2-Apr-08 | 2392 | Precarbon | | 394.8 | 30.0 | | | | |
| 2-Apr-08 | 2392 | Effluent | 1,923,000 | 0.72 | 0.0 | 644.6 | 245.8 | 13.37075 | 8.37576 |
| 7-May-08 | 2427 | Influent | | 12.4 | 0 | | | | |
| 7-May-08 | 2427 | Precarbon | | 94,180 | 34,000 | | | | |
| 7-May-08 | 2427 | Effluent | 1,923,000 | 0.54 | 0.0 | 644.6 | 245.8 | 13.37075 | 8.37576 |
| 5-Jun-08 | 2456 | Influent | | 90,980.0 | 34,000 | | | | |
| 5-Jun-08 | 2456 | Precarbon | | 14 | 1.3 | | | | |
| 5-Jun-08 | 2456 | Effluent | 1,998,630 | 1.20 | 0.0 | 702.0 | 267.3 | 13.37151 | 8.37576 |
| 9-Jul-08 | 2490 | Influent | | 147.4 | 2.2 | | | | |
| 9-Jul-08 | 2490 | Precarbon | | 2.5 | 0.0 | | | | |
| 9-Jul-08 | 2490 | Effluent | 2,021,600 | 0.5 | 0.0 | 702.0 | 267.3 | 13.37161 | 8.37576 |
| 7-Aug-08 | 2519 | Influent | | 107,860 | 42,000.0 | | | | |
| 7-Aug-08 | 2519 | Precarbon | | 2.3 | 0.0 | | | | |
| 7-Aug-08 | 2519 | Effluent | 2,035,300 | 1.4 | 0.0 | 714.3 | 272.1 | 13.37177 | 8.37576 |

- (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.

**Table 6
Summary of Historic Groundwater Elevations
Northern States Power, Ashland, Wisconsin**

| Well Location | Reference Elevation | Sep. 10, 2001 | | Dec. 3, 2001 | | Mar. 18, 2002 | | June 28, 2002 | | Sept 16, 2002 | | Dec 16, 2002 | | Mar. 24, 2003 | |
|---------------|---------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|
| | | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations |
| MW-1 | 634.18 | 15.08 | 619.10 | 14.26 | 619.92 | -- | -- | 14.79 | 619.39 | 17.43 | 616.75 | 15.28 | 618.90 | 15.51 | 618.67 |
| MW-2 | 634.85 | 14.92 | 619.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2A | 634.24 | 19.50 | 614.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2B | 634.68 | 10.52 | 624.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2R | 637.43 | -- | -- | -- | -- | 14.70 | 622.73 | 15.00 | 622.43 | 14.75 | 622.68 | 16.21 | 621.22 | 16.43 | 621.00 |
| MW-2AR | 636.28 | -- | -- | -- | -- | 20.13 | 616.15 | 20.25 | 616.03 | 14.87 | 621.41 | 20.24 | 616.04 | 20.28 | 616.00 |
| MW-2BR | 636.24 | -- | -- | -- | -- | 11.97 | 624.27 | 12.03 | 624.21 | 12.14 | 624.10 | 10.86 | 625.38 | 10.61 | 625.63 |
| MW-3 | 637.83 | 3.14 | 634.69 | 0.00 | 637.83 | -- | -- | 2.72 | 635.11 | 2.16 | 635.67 | 3.69 | 634.14 | 5.09 | 632.74 |
| MW-4 | 640.92 | 6.40 | 631.63 | 4.98 | 636.05 | 5.60 | 635.43 | 5.02 | 636.01 | 5.86 | 635.17 | 6.60 | 634.43 | 5.78 | 634.43 |
| MW-4A | 641.22 | 14.28 | 626.94 | 14.20 | 627.02 | 13.50 | 627.72 | 13.10 | 628.12 | 14.01 | 627.21 | 14.02 | 627.20 | 14.36 | 626.86 |
| MW-4B | 640.98 | 16.61 | 624.37 | 15.32 | 625.66 | 16.27 | 624.71 | 16.73 | 624.25 | 17.16 | 623.82 | 15.98 | 625.00 | 15.93 | 625.05 |
| MW-5 | 633.82 | 18.15 | 615.67 | 17.95 | 615.87 | 19.44 | 614.38 | 17.80 | 616.02 | 18.58 | 615.24 | -- | -- | 19.70 | 614.12 |
| MW-5A | 633.72 | 19.38 | 614.34 | 19.26 | 614.46 | 19.60 | 614.12 | 19.05 | 614.67 | 19.17 | 614.55 | -- | -- | 19.09 | 614.63 |
| MW-5B | 633.89 | 19.14 | 614.75 | 19.25 | 614.64 | 19.37 | 614.52 | 19.03 | 614.86 | 19.13 | 614.76 | -- | -- | 18.98 | 614.91 |
| MW-5C | 634.33 | 9.90 | 624.43 | 9.47 | 624.86 | 9.33 | 625.00 | 9.51 | 624.82 | 9.94 | 624.39 | -- | -- | 8.97 | 625.36 |
| MW-6 | 644.88 | 17.01 | 627.87 | 15.95 | 628.93 | -- | -- | 14.25 | 630.63 | 16.58 | 628.30 | 17.04 | 627.84 | 15.54 | 629.34 |
| MW-6A | 644.79 | 20.31 | 624.48 | 19.76 | 625.03 | -- | -- | 20.02 | 624.77 | 20.63 | 624.16 | 19.51 | 625.28 | 19.52 | 625.27 |
| MW-7 | 612.60 | 3.92 | 608.68 | 4.00 | 608.60 | 4.17 | 608.43 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7A | 613.25 | flowing | -- | flowing | -- | flowing | -- | -- | -- | flowing | flowing | flowing | flowing | flowing | flowing |
| MW-8 | 634.42 | 4.79 | 629.63 | 4.46 | 629.96 | 8.09 | 626.33 | 4.52 | 629.90 | 3.79 | 630.63 | 5.81 | 628.61 | frozen | -- |
| MW-8A | 634.62 | 15.68 | 618.94 | 15.24 | 619.38 | 15.27 | 619.35 | 15.47 | 619.15 | 15.72 | 618.90 | 15.02 | 619.60 | 14.94 | 619.68 |
| MW-9 | 637.98 | 5.92 | 632.06 | -- | -- | -- | -- | 4.58 | 633.40 | 4.50 | 633.48 | 6.79 | 631.19 | -- | -- |
| MW-9A | 637.86 | 13.66 | 624.20 | 13.25 | 624.61 | 13.21 | 624.65 | 13.92 | 623.94 | 13.58 | 624.28 | -- | -- | 12.94 | -- |
| MW-9B | 638.02 | 13.80 | 624.22 | 13.28 | 624.74 | 13.30 | 624.72 | 13.86 | 624.16 | 14.42 | 623.60 | 13.09 | 624.93 | 12.96 | 625.06 |
| MW-9C | 637.95 | 13.67 | 624.28 | 13.28 | 624.67 | 13.22 | 624.73 | 14.06 | 623.89 | 14.40 | 623.55 | 13.07 | 624.88 | 12.97 | 624.98 |
| MW-10 | 638.20 | 4.64 | 633.56 | 4.33 | 633.87 | 4.59 | 633.61 | 3.40 | 634.80 | 4.17 | 634.03 | 5.06 | 633.14 | 8.93 | 629.27 |
| MW-10A | 638.07 | 15.55 | 622.52 | 14.19 | 623.88 | 14.21 | 623.86 | 14.61 | 623.46 | 14.98 | 623.09 | 13.91 | 624.16 | 14.05 | 624.02 |
| MW-10B | 638.40 | 22.42 | 615.98 | 22.33 | 616.07 | 21.25 | 617.15 | 21.75 | 616.65 | 21.45 | 616.95 | 21.71 | 616.69 | frozen | -- |
| MW-11 | 636.13 | 8.62 | 627.51 | 6.23 | 629.90 | -- | -- | 6.20 | 629.93 | 7.03 | 629.10 | 9.16 | 626.97 | -- | -- |

Notes: Reference elevation surveyed by Dames & Moore/URS

**Table 6
Summary of Historic Groundwater Elevations
Northern States Power, Ashland, Wisconsin**

| Well Location | Reference Elevation | Sep. 10, 2001 | | Dec. 3, 2001 | | Mar. 18, 2002 | | June 28, 2002 | | Sept 16, 2002 | | Dec 16, 2002 | | Mar. 24, 2003 | |
|---------------|---------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|
| | | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations |
| TW-13 | 635.72 | 9.54 | 626.29 | 4.58 | 631.25 | 4.71 | 631.12 | 3.86 | 631.97 | 4.50 | 631.33 | -- | -- | 6.06 | 629.66 |
| MW-13A | 635.94 | 20.79 | 615.15 | 21.58 | 614.36 | 21.00 | 614.94 | 20.70 | 615.24 | 20.46 | 615.48 | 20.75 | 615.19 | 20.50 | 615.44 |
| MW-13B | 635.90 | 20.83 | 615.07 | 21.21 | 614.69 | 20.75 | 615.15 | 20.62 | 615.28 | 20.13 | 615.77 | 20.25 | 615.65 | 19.98 | 615.92 |
| MW-13C | 636.11 | 11.73 | 624.38 | 11.32 | 624.79 | 11.24 | 624.87 | 11.95 | 624.16 | 12.40 | 623.71 | 11.08 | 625.03 | 11.03 | 625.08 |
| MW-13D | 637.09 | 11.81 | 625.28 | 11.39 | 625.70 | 11.39 | 625.70 | 12.03 | 625.06 | 12.52 | 624.57 | 11.16 | 625.93 | 11.08 | 626.01 |
| MW-14 | 639.15 | 4.33 | 634.82 | 4.92 | 634.23 | -- | -- | -- | -- | 3.00 | 636.15 | 4.35 | 634.80 | -- | -- |
| MW-15 | 641.21 | 4.52 | 636.69 | 4.33 | 636.88 | 3.60 | 637.61 | 3.52 | 637.69 | 3.73 | 637.48 | 5.10 | 636.11 | 4.68 | 636.53 |
| MW-16 | 642.20 | 1.74 | 640.46 | 1.05 | 641.15 | -- | -- | 0.40 | 641.80 | 1.66 | 640.54 | 4.20 | 638.00 | 8.03 | 634.17 |
| MW-17 | 633.88 | 2.64 | 631.24 | -- | -- | 3.29 | 630.59 | 2.56 | 631.32 | 2.24 | 631.64 | 4.98 | 628.90 | -- | -- |
| MW-17A | 633.68 | 19.94 | 613.74 | -- | -- | 20.18 | 613.50 | 19.90 | 613.78 | 19.77 | 613.91 | 19.32 | 614.36 | 19.80 | 613.88 |
| MW-18A | 635.57 | -- | -- | -- | -- | 20.50 | 615.07 | 20.22 | 615.35 | 20.24 | 615.33 | 19.93 | 615.64 | 20.16 | 615.41 |
| MW-18B | 635.52 | -- | -- | -- | -- | 13.46 | 622.06 | 13.75 | 621.77 | 13.98 | 621.54 | 13.12 | 622.40 | 13.31 | 622.21 |
| MW-19A | 636.76 | -- | -- | -- | -- | 21.27 | 615.49 | 20.41 | 616.35 | 20.90 | 615.86 | 20.58 | 616.18 | 20.66 | 616.10 |
| MW-19B | 636.65 | -- | -- | -- | -- | 11.74 | 624.91 | 11.58 | 625.07 | 12.38 | 624.27 | 11.25 | 625.40 | 10.90 | 625.75 |
| MW-20A | 642.65 | -- | -- | -- | -- | 24.30 | 618.35 | 24.25 | 618.40 | 24.81 | 617.84 | 24.37 | 618.28 | 24.85 | 617.80 |
| MW-21A | 637.82 | -- | -- | -- | -- | 21.75 | 616.07 | 20.87 | 616.95 | 21.57 | 616.25 | 21.26 | 616.56 | 21.7 | 616.12 |
| MW-22A | 638.34 | -- | -- | -- | -- | -- | -- | 19.11 | 619.23 | 19.44 | 618.90 | 19.16 | 619.18 | 19.56 | 618.78 |
| MW-22B | 638.50 | -- | -- | -- | -- | -- | -- | 14.56 | 623.94 | 14.79 | 623.71 | 13.80 | 624.70 | 13.87 | 624.63 |
| MW-1(NET) | 608.40 | 7.30 | 601.10 | 7.47 | 600.93 | 8.00 | 600.40 | 7.17 | 601.23 | 7.09 | 601.31 | 7.67 | 600.73 | 8.27 | 600.13 |
| MW-2(NET) | 608.23 | 7.11 | 601.12 | 7.24 | 600.99 | 7.79 | 600.44 | 6.95 | 601.28 | -- | -- | -- | -- | 7.98 | 600.25 |
| MW-2A(NET) | 607.99 | -- | -- | -- | -- | -- | -- | -- | -- | flowing | flowing | flowing | flowing | flowing | flowing |
| MW-2B(NET) | 608.50 | -- | -- | -- | -- | -- | -- | -- | -- | flowing | flowing | flowing | flowing | flowing | flowing |
| MW-3(NET) | 612.10 | 7.17 | 604.93 | 11.25 | 600.85 | 11.38 | 600.72 | 10.75 | 601.35 | 10.38 | 601.72 | 11.52 | 600.58 | 12.24 | 599.86 |
| TW-11 | 606.80 | 5.75 | 601.05 | 5.75 | 601.05 | 5.74 | 601.06 | 3.58 | 603.22 | 3.75 | 603.05 | 6.00 | 600.80 | 5.99 | 600.81 |
| TW-12 | 608.45 | -- | -- | -- | -- | -- | -- | 7.38 | 601.07 | -- | -- | -- | -- | 8.48 | 599.97 |

Notes: Reference elevation surveyed by Dames & Moore/URS

**Table 6
Summary of Historic Groundwater Elevations
Northern States Power, Ashland, Wisconsin**

| Well Location | Reference Elevation | June 23, 2003 | | September 29, 2003 | | December 15, 2003 | | March 16, 2004 | | June 14, 2004 | | September 20, 2004 | | December 6, 2004 | | March 15, 2005 | |
|---------------|---------------------|----------------|------------------------|--------------------|------------------------|-------------------|------------------------|----------------|------------------------|----------------|------------------------|--------------------|------------------------|------------------|------------------------|----------------|------------------------|
| | | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations |
| AW-1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- |
| AW-2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- |
| MW-1 | 634.18 | 14.51 | 619.67 | 14.80 | 619.38 | NM | -- | NM | -- | 15.51 | 618.67 | 14.70 | 619.48 | 15.10 | 619.08 | 15.22 | 618.96 |
| MW-2R | 637.43 | 15.59 | 621.84 | 15.58 | 621.85 | 15.52 | 621.91 | 15.32 | 622.11 | 15.57 | 621.86 | 15.78 | 621.65 | 16.66 | 620.77 | 16.80 | 620.63 |
| MW-2AR | 636.28 | 21.09 | 615.19 | 20.95 | 615.33 | 20.21 | 616.07 | 20.58 | 615.70 | 21.11 | 615.17 | 20.24 | 616.04 | 21.77 | 614.51 | 22.35 | 613.93 |
| MW-2BR | 636.24 | 11.67 | 624.57 | 11.10 | 625.14 | 10.41 | 625.83 | 10.68 | 625.56 | 10.88 | 625.36 | 11.56 | 624.68 | 10.68 | 625.56 | 10.31 | 625.93 |
| MW-2C | -- | -- | -- | -- | -- | 2.45 | -- | 9.81 | -- | 10.02 | -- | 10.51 | -- | 9.66 | -- | 9.98 | -- |
| MW-3 | 637.83 | 2.60 | 635.23 | 2.62 | 635.21 | NM | -- | 5.36 | 632.47 | 2.77 | 635.06 | 2.94 | 634.89 | 3.45 | 634.38 | 5.41 | 632.42 |
| MW-4 | 640.92 | 5.07 | 635.85 | 6.34 | 634.58 | 5.74 | 635.18 | 5.31 | 635.61 | 5.08 | 635.84 | 5.88 | 635.04 | 5.93 | 634.99 | 5.69 | 635.23 |
| MW-4A | 641.22 | 13.74 | 627.48 | 14.69 | 626.53 | 14.14 | 627.08 | 14.28 | 626.94 | 13.28 | 627.94 | 13.93 | 627.29 | 13.81 | 627.41 | 14.19 | 627.03 |
| MW-4B | 640.98 | 16.72 | 624.26 | 16.35 | 624.63 | 16.03 | 624.95 | 16.32 | 624.66 | 16.05 | 624.93 | 16.91 | 624.07 | 15.57 | 625.41 | 14.93 | 626.05 |
| MW-5 | 633.82 | 19.20 | 614.62 | 18.73 | 615.09 | NM | -- | 18.68 | 615.14 | 18.12 | 615.70 | 18.19 | 615.63 | 18.82 | 615.00 | NM | -- |
| MW-5A | 633.72 | 19.18 | 614.54 | 19.17 | 614.55 | NM | -- | 19.29 | 614.43 | 19.74 | 613.98 | 19.85 | 613.87 | 19.81 | 613.91 | 20.02 | 613.70 |
| MW-5B | 633.89 | 19.15 | 614.74 | 19.09 | 614.80 | NM | -- | 19.08 | 614.81 | 19.35 | 614.54 | 19.84 | 614.05 | 19.69 | 614.20 | 19.92 | 613.97 |
| MW-5C | 634.33 | 10.07 | 624.26 | 9.42 | 624.91 | NM | -- | 9.17 | 625.16 | 9.32 | 625.01 | 10.02 | 624.31 | 9.03 | 625.30 | 9.09 | 625.24 |
| MW-6 | 644.88 | 15.28 | 629.60 | 16.41 | 628.47 | NM | -- | 13.41 | 631.47 | 14.25 | 630.63 | 16.59 | 628.29 | 16.97 | 627.91 | 15.59 | 629.29 |
| MW-6A | 644.79 | 20.10 | 624.69 | 20.02 | 624.77 | NM | -- | 19.68 | 625.11 | 19.46 | 625.33 | 20.17 | 624.62 | 19.37 | 625.42 | 19.55 | 625.24 |
| MW-7R | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.86 | -- | 8.29 | -- | 9.09 | -- | 10.09 | -- |
| MW-7A | 613.25 | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- |
| MW-7B | -- | -- | -- | -- | -- | -- | -- | -- | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- |
| MW-8 | 634.42 | 4.29 | 630.13 | 4.30 | 630.12 | 5.28 | 629.14 | NM | -- | 3.53 | 630.89 | 3.41 | 631.01 | 3.74 | 630.68 | 6.39 | 628.03 |
| MW-8A | 634.62 | 15.67 | 618.95 | 15.19 | 619.43 | NM | -- | NM | -- | 14.66 | 619.96 | 14.91 | 619.71 | 14.67 | 619.95 | 10.16 | 624.46 |
| MW-9 | 637.98 | 4.54 | 633.44 | 5.60 | 632.38 | NM | -- | NM | -- | 4.26 | 633.72 | 4.83 | 633.15 | 5.15 | 632.83 | 6.17 | 631.81 |
| MW-9A | 637.86 | 14.21 | 623.65 | 13.40 | 624.46 | 12.98 | 624.88 | 13.26 | 624.60 | 15.48 | 622.38 | 14.10 | 623.76 | 12.91 | 624.95 | 10.06 | 627.80 |
| MW-9B | 638.02 | 13.23 | 624.79 | 13.37 | 624.65 | 13.20 | 624.82 | 13.13 | 624.89 | 13.60 | 624.42 | 14.05 | 623.97 | 12.88 | 625.14 | 13.06 | 624.96 |
| MW-9C | 637.95 | 14.28 | 623.67 | 13.41 | 624.54 | 13.05 | 624.90 | 13.30 | 624.65 | 15.50 | 622.45 | 14.11 | 623.84 | 12.93 | 625.02 | 13.32 | 624.63 |
| MW-10 | 638.20 | 3.98 | 634.22 | 6.29 | 631.91 | 5.84 | 632.36 | 6.62 | 631.58 | 4.46 | 633.74 | 4.78 | 633.42 | 5.04 | 633.16 | NM | -- |
| MW-10A | 638.07 | 14.67 | 623.40 | 14.31 | 623.76 | 14.06 | 624.01 | 14.25 | 623.82 | 14.12 | 623.95 | 14.71 | 623.36 | 13.92 | 624.15 | 14.13 | 623.94 |
| MW-10B | 638.40 | 22.52 | 615.88 | 22.85 | 615.55 | 22.27 | -- | 22.15 | 616.25 | 24.03 | 614.37 | 25.61 | 612.79 | NM | -- | 22.11 | 616.29 |
| MW-11 | 636.13 | 6.62 | 629.51 | 6.60 | 629.53 | NM | -- | NM | -- | 6.76 | 629.37 | 6.93 | 629.20 | 7.19 | 628.94 | 7.94 | 628.19 |
| TW-13 | 635.72 | 4.74 | 630.98 | 5.26 | 630.46 | 5.10 | 630.62 | NM | -- | 4.09 | 631.63 | 3.97 | 631.75 | 4.45 | 631.27 | 5.79 | 629.93 |
| MW-13A | 635.94 | 21.55 | 614.39 | 21.27 | 614.67 | 20.60 | 615.34 | 20.97 | 614.97 | 21.01 | 614.93 | 21.52 | 614.42 | 21.63 | 614.31 | 21.15 | 614.79 |
| MW-13B | 635.90 | 21.38 | 614.52 | -- | -- | 20.12 | 615.78 | 20.46 | 615.44 | 20.44 | 615.46 | 21.08 | 614.82 | NM | -- | NM | -- |
| MW-13C | 636.11 | 12.21 | 623.90 | 11.47 | 624.64 | 11.07 | 625.04 | 11.31 | 624.80 | 11.31 | 624.80 | 11.91 | 624.20 | 10.79 | 625.32 | 10.96 | 625.15 |
| MW-13D | 637.09 | 12.25 | 624.84 | 11.53 | 625.56 | 11.11 | 625.98 | 11.45 | 625.64 | 11.51 | 625.58 | 12.18 | 624.91 | 11.00 | 626.09 | 11.17 | 625.92 |

Notes: Reference elevation surveyed by Dames & Moore/URS

**Table 6
Summary of Historic Groundwater Elevations
Northern States Power, Ashland, Wisconsin**

| Well Location | Reference Elevation | June 23, 2003 | | September 29, 2003 | | December 15, 2003 | | March 16, 2004 | | June 14, 2004 | | September 20, 2004 | | December 6, 2004 | | March 15, 2005 | |
|---------------|---------------------|----------------|------------------------|--------------------|------------------------|-------------------|------------------------|----------------|------------------------|----------------|------------------------|--------------------|------------------------|------------------|------------------------|----------------|------------------------|
| | | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations |
| MW-14 | 639.15 | 3.78 | 635.37 | 4.33 | 634.82 | NM | -- | NM | -- | 3.63 | 635.52 | 3.67 | 635.48 | 4.00 | 635.15 | 4.30 | 634.85 |
| MW-15 | 641.21 | 4.22 | 636.99 | 5.30 | 635.91 | 4.77 | 636.44 | 4.92 | 636.29 | 4.54 | 636.67 | 4.34 | 636.87 | 4.23 | 636.98 | 4.92 | 636.29 |
| MW-15A | 641.44 | -- | -- | -- | -- | NM | -- | 15.13 | 626.31 | 14.59 | 626.85 | 15.05 | 626.39 | 14.99 | 626.45 | 15.17 | 626.27 |
| MW-15B | 641.47 | -- | -- | -- | -- | 16.48 | 624.99 | 16.79 | 624.68 | 16.61 | 624.86 | 17.27 | 624.20 | 16.28 | 625.19 | 16.45 | 625.02 |
| MW-16 | 642.20 | 0.73 | 641.47 | 1.82 | 640.38 | NM | -- | NM | -- | 0.57 | 641.63 | 0.93 | 641.27 | 2.93 | 639.27 | 5.21 | 636.99 |
| MW-17 | 633.88 | 2.26 | 631.62 | 2.52 | 631.36 | 2.65 | 631.23 | 2.17 | 631.71 | 2.33 | 631.55 | 3.52 | 630.36 | 3.14 | 630.74 | 5.24 | 628.64 |
| MW-17A | 633.68 | 19.82 | 613.86 | 19.61 | 614.07 | 19.48 | 614.20 | 18.27 | 615.41 | 19.34 | 614.34 | 20.31 | 613.37 | 19.71 | 613.97 | 19.47 | 614.21 |
| MW-18A | 635.57 | 20.35 | 615.22 | 20.26 | 615.31 | 20.12 | 615.45 | 20.42 | 615.15 | 20.53 | 615.04 | 20.98 | 614.59 | 21.02 | 614.55 | 21.40 | 614.17 |
| MW-18B | 635.52 | 13.74 | 621.78 | 13.37 | 622.15 | 14.66 | 620.86 | 12.17 | 623.35 | 13.35 | 622.17 | 13.83 | 621.69 | 13.29 | 622.23 | 13.41 | 622.11 |
| MW-19A | 636.76 | 21.05 | 615.71 | 20.96 | 615.80 | NM | -- | 20.83 | 615.93 | 21.05 | 615.71 | 21.58 | 615.18 | 21.58 | 615.18 | 21.54 | 615.22 |
| MW-19B | 636.65 | 12.15 | 624.50 | 11.58 | 625.07 | NM | -- | 11.12 | 625.53 | 11.23 | 625.42 | 12.12 | 624.53 | 11.23 | 625.42 | 11.28 | 625.37 |
| MW-20A | 642.65 | 24.85 | 617.80 | 24.85 | 617.80 | 24.82 | 617.83 | 24.89 | 617.76 | 24.73 | 617.92 | 25.14 | 617.51 | 25.10 | 617.55 | 25.22 | 617.43 |
| MW-21A | 637.82 | 21.84 | 615.98 | 21.92 | 615.90 | 21.53 | 616.29 | 21.38 | 616.44 | 21.61 | 616.21 | 21.94 | 615.88 | 21.71 | 616.11 | 22 | 615.82 |
| MW-21B | 636.83 | -- | -- | -- | -- | 20.78 | 616.05 | 20.94 | 615.89 | 20.86 | 615.97 | 21.36 | 615.47 | 21.27 | 615.56 | NM | -- |
| MW-22A | 638.34 | 19.47 | 618.87 | 19.77 | 618.57 | 19.40 | 618.94 | 19.29 | 619.05 | 19.11 | 619.23 | 19.58 | 618.76 | 19.57 | 618.77 | 19.71 | 618.63 |
| MW-22B | 638.50 | 14.58 | 623.92 | 14.15 | 624.35 | 13.88 | 624.62 | 13.97 | 624.53 | 13.98 | 624.52 | 14.65 | 623.85 | 13.69 | 624.81 | 13.85 | 624.65 |
| MW-23A | -- | -- | -- | -- | -- | -- | -- | -- | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- |
| MW-23B | -- | -- | -- | -- | -- | -- | -- | -- | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- |
| MW-24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.78 | -- | 2.32 | -- | 2.64 | -- | 3.56 | -- |
| P-24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.08 | -- | 2.69 | -- | 2.98 | -- | 3.79 | -- |
| MW-24A | -- | -- | -- | -- | -- | -- | -- | -- | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- |
| MW-25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.27 | -- | 1.80 | -- | 2.17 | -- | 2.97 | -- |
| P-25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.77 | -- | 1.87 | -- | 2.21 | -- | 2.65 | -- |
| MW-25A | -- | -- | -- | -- | -- | -- | -- | -- | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- |
| MW-26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.25 | -- | 2.90 | -- | 3.11 | -- | 4.10 | -- |
| P-26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.29 | -- | 2.88 | -- | 3.57 | -- | 4.15 | -- |
| MW-26A | -- | -- | -- | -- | -- | -- | -- | -- | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- |
| MW-1(NET) | 608.40 | 7.41 | 600.99 | 7.73 | 600.67 | 7.80 | 600.60 | 8.12 | 600.28 | 7.11 | 601.29 | 6.68 | 601.72 | 7.28 | 601.12 | 7.89 | 600.51 |
| MW-2(NET) | 608.23 | 7.16 | 601.07 | 7.48 | 600.75 | 7.56 | 600.67 | 7.82 | 600.41 | 6.85 | 601.38 | 6.42 | 601.81 | 6.90 | 601.33 | 7.62 | 600.61 |
| MW-2A(NET) | 607.99 | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- |
| MW-2B(NET) | 608.50 | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- | flowing | -- |
| MW-3(NET) | 612.10 | 11.76 | 600.34 | 11.68 | 600.42 | 11.68 | 600.42 | 12.21 | 599.89 | 11.19 | 600.91 | 10.77 | 601.33 | 10.98 | 601.12 | 11.75 | 600.35 |
| TW-9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.78 | -- | 7.48 | -- | 8.05 | -- | 8.94 | -- |
| TW-11 | 606.80 | 6.09 | 600.71 | 5.43 | 601.37 | 5.21 | 601.59 | 5.77 | 601.03 | 5.63 | 601.17 | 4.62 | 602.18 | 4.51 | 602.29 | 5.42 | 601.38 |
| TW-12 | 608.45 | 7.66 | 600.79 | 7.91 | 600.54 | 7.99 | 600.46 | NM | -- | 4.65 | 603.80 | 4.22 | 604.23 | 4.52 | 603.93 | NM | -- |

Notes: Reference elevation surveyed by Dames & Moore/URS

**Table 6
Summary of Historic Groundwater Elevations
Northern States Power, Ashland, Wisconsin**

| Well Location | Reference Elevation | June 15, 2005 | | November 3, 2005 | | August 11, 2008 | |
|---------------|---------------------|----------------|------------------------|------------------|------------------------|-----------------|------------------------|
| | | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations |
| AW-1 | -- | flowing | -- | flowing | -- | flowing | -- |
| AW-2 | -- | flowing | -- | flowing | -- | flowing | -- |
| MW-1 | 634.04 | 13.12 | 620.92 | NM | -- | 14.32 | 619.72 |
| MW-2R | 635.37 | 14.35 | 621.02 | 15.95 | 619.42 | 16.55 | 618.82 |
| MW-2AR | 635.23 | NM | -- | 22.33 | 612.90 | 22.08 | 613.15 |
| MW-2BR | 635.19 | NM | -- | 10.98 | 624.21 | 10.73 | 624.46 |
| MW-2C | 635.30 | 9.71 | 625.59 | 9.51 | 625.79 | 10.49 | 624.81 |
| MW-3 | 637.86 | 2.21 | 635.65 | 2.86 | 635.00 | 2.84 | 635.02 |
| MW-4 | 641.32 | 4.77 | 636.55 | 5.19 | 636.13 | 7.54 | 633.78 |
| MW-4A | 641.03 | 13.37 | 627.66 | 13.34 | 627.69 | 14.14 | 626.89 |
| MW-4B | 640.93 | 15.63 | 625.30 | 15.59 | 625.34 | -- | -- |
| MW-5 | 633.63 | NM | -- | NM | -- | 18.86 | 614.77 |
| MW-5A | 633.54 | 19.86 | 613.68 | 20.49 | 613.05 | 20.10 | 613.44 |
| MW-5B | 633.75 | NM | -- | 20.35 | 613.40 | 19.95 | 613.80 |
| MW-5C | 633.92 | 9.16 | 624.76 | 8.81 | 625.11 | 9.89 | 624.03 |
| MW-6 | 644.66 | 13.66 | 631.00 | 15.65 | 629.01 | 17.41 | 627.25 |
| MW-6A | 644.60 | 19.51 | 625.09 | 19.46 | 625.14 | 20.06 | 624.54 |
| MW-7R | 613.31 | 9.69 | 603.62 | 10.21 | 603.10 | 10.10 | 603.21 |
| MW-7A | 612.32 | -0.80 | 613.12 | -0.40 | 612.72 | -0.61 | 612.93 |
| MW-7B | 613.00 | flowing | -- | 2.36 | 610.64 | 0.75 | 612.25 |
| MW-8 | 634.77 | 3.25 | 631.52 | 3.60 | 631.17 | 4.00 | 630.77 |
| MW-8A | 634.62 | 14.50 | 620.12 | 14.82 | 619.80 | 15.29 | 619.33 |
| MW-9 | 637.96 | 4.52 | 633.44 | NM | -- | -- | -- |
| MW-9A | 637.95 | 13.27 | 624.68 | 12.85 | 625.10 | 14.26 | 623.69 |
| MW-9B | 638.01 | 12.84 | 625.17 | 13.17 | 624.84 | 14.23 | 623.78 |
| MW-9C | 637.90 | 13.25 | 624.65 | 12.80 | 625.10 | 14.10 | 623.80 |
| MW-10 | 638.01 | 3.34 | 634.67 | 3.99 | 634.02 | 4.39 | 633.62 |
| MW-10A | 638.00 | 13.95 | 624.05 | 13.82 | 624.18 | 14.61 | 623.39 |
| MW-10B | 637.61 | 18.19 | 619.42 | 20.63 | 616.98 | 20.83 | 616.78 |
| MW-11 | 637.07 | 4.80 | 632.27 | 6.25 | 630.82 | 7.01 | 630.06 |
| TW-13 | 635.57 | 3.05 | 632.52 | 4.45 | 631.12 | 4.80 | 630.77 |
| MW-13A | 635.36 | 20.96 | 614.40 | 21.35 | 614.01 | 21.19 | 614.17 |
| MW-13B | 635.33 | 20.42 | -- | 21.24 | 614.09 | 19.72 | 615.61 |
| MW-13C | 636.11 | 11.04 | 625.07 | 10.63 | 625.48 | 12.00 | 624.11 |
| MW-13D | 636.00 | 11.32 | 624.68 | 10.89 | 625.11 | 12.19 | 623.81 |

Notes: All site wells re-surveyed by Coleman Engineering in April/May 2005.
 Note new reference elevations for site wells.
 Negative depth to water measurements indicate head above well casing (artesian flow).

**Table 6
Summary of Historic Groundwater Elevations
Northern States Power, Ashland, Wisconsin**

| Well Location | Reference Elevation | June 15, 2005 | | November 3, 2005 | | August 11, 2008 | |
|---------------|---------------------|----------------|------------------------|------------------|------------------------|-----------------|------------------------|
| | | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations | Depth to Water | Groundwater Elevations |
| MW-14 | 639.02 | 3.70 | -- | 3.32 | 635.70 | NM | -- |
| MW-15 | 641.02 | 4.58 | -- | 5.26 | 635.76 | 4.60 | 636.42 |
| MW-15A | 641.31 | 14.56 | 626.75 | 14.46 | 626.85 | 17.32 | 623.99 |
| MW-15B | 641.29 | 16.58 | 624.71 | 16.61 | 624.68 | 15.00 | 626.29 |
| MW-16 | 641.91 | 0.96 | 640.95 | 0.90 | 641.01 | 1.84 | 640.07 |
| MW-17 | 634.83 | 1.45 | 633.38 | 2.05 | 632.78 | 3.23 | 631.60 |
| MW-17A | 634.58 | 20.05 | 614.53 | 20.75 | 613.83 | 19.91 | 614.67 |
| MW-18A | 634.51 | 20.92 | 613.59 | 21.63 | 612.88 | 21.20 | 613.31 |
| MW-18B | 634.40 | 13.22 | 621.18 | 13.43 | 620.97 | 13.94 | 620.46 |
| MW-19A | 635.73 | 21.31 | 614.42 | 22.07 | 613.66 | 21.54 | 614.19 |
| MW-19B | 635.58 | 11.25 | 624.33 | 11.05 | 624.53 | 11.94 | 623.64 |
| MW-20A | 641.69 | 25.09 | 616.60 | 25.22 | 616.47 | 25.14 | 616.55 |
| MW-21A | 636.76 | 21.90 | 614.86 | 22.61 | 614.15 | 21.97 | 614.79 |
| MW-21B | 636.76 | 21.09 | 615.67 | 21.50 | 615.26 | 21.15 | 615.61 |
| MW-22A | 638.32 | 19.29 | 619.03 | 19.43 | 618.89 | 19.40 | 618.92 |
| MW-22B | 638.47 | 13.80 | 624.67 | 13.50 | 624.97 | 14.56 | 623.91 |
| MW-23A | 610.74 | -1.95 | 612.69 | -2.22 | 612.96 | -2.27 | 613.01 |
| MW-23B | 610.74 | -2.35 | 613.09 | -2.30 | 613.04 | -3.08 | 613.82 |
| MW-24 | 605.28 | 2.66 | 602.62 | 2.99 | 602.29 | 2.83 | 602.45 |
| P-24 | 604.94 | 3.00 | 601.94 | 3.21 | 601.73 | 3.13 | 601.81 |
| MW-24A | 605.01 | -11.65 | 616.66 | -11.20 | 616.21 | -11.55 | 616.56 |
| MW-25 | 604.39 | 2.11 | 602.28 | 2.38 | 602.01 | 2.28 | 602.11 |
| P-25 | 604.37 | 2.30 | 602.07 | 2.26 | 602.11 | 2.29 | 602.08 |
| MW-25A | 606.95 | -9.70 | 616.65 | -9.50 | 616.45 | -10.14 | 617.09 |
| MW-26 | 605.28 | 3.16 | 602.12 | 3.32 | 601.96 | 3.06 | 602.22 |
| P-26 | 605.26 | 3.19 | 602.07 | 3.37 | 601.89 | 3.13 | 602.13 |
| MW-26A | 605.31 | -13.05 | 618.36 | -12.30 | 617.61 | -12.50 | 617.81 |
| MW-1(NET) | 609.31 | 6.98 | 602.33 | 7.21 | 602.10 | 7.09 | 602.22 |
| MW-2(NET) | 609.01 | 6.70 | 602.31 | 6.99 | 602.02 | 6.82 | 602.19 |
| MW-2A(NET) | 608.90 | -4.55 | 613.45 | -4.00 | 612.90 | -3.33 | 612.23 |
| MW-2B(NET) | 608.84 | 6.21 | 602.63 | 6.28 | 602.56 | -0.01 | 608.85 |
| MW-3(NET) | 612.99 | 11.13 | 601.86 | 11.31 | 601.68 | 10.88 | 602.11 |
| TW-9 | 610.02 | 7.90 | 602.12 | 8.11 | 601.91 | 7.77 | 602.25 |
| TW-11 | 607.11 | 4.29 | 602.82 | NM | -- | 4.88 | 602.23 |
| TW-12 | 606.81 | 3.45 | 603.36 | 4.72 | 602.09 | 4.60 | 602.21 |

Notes: All site wells re-surveyed by Coleman Engineering in April/May 2005.
Note new reference elevations for site wells.
Negative depth to water measurements indicate head above well casing (artesian flow).

Table 7
Summary of Historic Free Phase Hydrocarbon Thickness
Northern States Power, Ashland, Wisconsin

| Well Location | Depth to Bottom | October 6, 1998 | | | November 23, 1998 | | | June 2, 1999 | | |
|---------------|-----------------|----------------------|--------------|--------------|----------------------|--------------|--------------|----------------------|--------------|--------------|
| | | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape |
| EW-1 | 53.51 | 41.45 | 12.06 | 12.25 | 40.09 | 13.42 | 13.5 | 35.25 | 18.26 | 18.2 |
| MW-7 | 17.88 | (1) | (1) | 10.14 | (1) | (1) | 10.01 | (1) | (1) | 9.91 |
| MW-9 | 14.62 | 13.78 | 0.84 | 2.73 | 14.2 | 0.42 | 3.6 | 14.03 | 0.59 | -- |
| TW-13 | 14.82 | (2) | (2) | (2) | (2) | (2) | (2) | 18.10 | 0.31 | 2.2 |
| MW-13A | 45.33 | 43.22 | 2.11 | 4.73 | 43.36 | 1.97 | 3.0 | 43.37 | 1.96 | -- |
| MW-13B | 69.82 | 43.56 | 26.26 | 26.1 | 43.56 | 26.26 | 27.6 | 52.28 | 17.54 | -- |
| MW-15 | 15.59 | 14.78 | 0.81 | 2.94 | 13.93 | 1.66 | 2.09 | 13.26 | 2.33 | 2.6 |
| Well Location | Depth to Bottom | August 23, 1999 | | | November 29, 1999 | | | September 27, 2000 | | |
| | | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape |
| EW-1 | 53.51 | 34.31 | 19.2 | | (2) | (2) | 16.2 | (2) | (2) | (2) |
| MW-7 | 17.88 | (1) | (1) | 10.44 | (2) | (2) | 0 | (2) | (2) | (2) |
| MW-9 | 14.62 | 13.02 | 1.6 | | (2) | (2) | <1 inch | (2) | (2) | (2) |
| TW-13 | 14.82 | (2) | < 6 inches | < 6 inches | (2) | (2) | <1 inch | 14.32 | 0.5 | 0.5 |
| MW-13A | 45.33 | (1) | (1) | 8.5 | (2) | (2) | 2.1 | 44.33 | 1.0 | 1.0 |
| MW-13B | 69.82 | (1) | (1) | 26 | (2) | (2) | 12.1 | 57.49 | 12.33 | 12.33 |
| MW-15 | 15.59 | (1) | (1) | 10.6 | (2) | (2) | 0.67 | (2) | (2) | (2) |
| Well Location | Depth to Bottom | December 4, 2000 | | | March 27, 2001 | | | June 11, 2001 | | |
| | | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape |
| EW-1 | 53.51 | Not Measured | -- | -- | Not Measured | -- | -- | 47.51 | 6.00 | 6.00 |
| EW-2 | 50.00 | Not Measured | -- | -- | Not Measured | -- | -- | 40.5 | 9.50 | 9.50 |
| EW-3 | 70.00 | Not Measured | -- | -- | Not Measured | -- | -- | 68.58 | 1.42 | 1.42 |
| MW-2A | 44.41 | Not Measured | -- | -- | 41.66 | 2.75 | 2.75 | 40.37 | 4.04 | 4.04 |
| MW-7 | 17.88 | Frozen | -- | -- | Frozen | -- | -- | Damaged | -- | -- |
| MW-9 | 14.62 | 14.5 | 0.1 | 0.1 | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-10B | 34.91 | | | | 34.66 | 0.25 | 0.25 | 34.33 | 0.58 | 0.58 |
| TW-13 | 14.82 | 14.57 | 0.25 | 0.25 | 14.74 | 0.08 | 0.08 | (2) | (2) | (2) |
| MW-13A | 45.33 | 44.25 | 1.08 | 1.08 | 44.25 | 1.08 | 1.08 | 44.83 | 0.50 | 0.50 |
| MW-13B | 69.82 | 57.24 | 12.58 | 12.58 | 55.86 | 13.96 | 13.96 | 58.65 | 11.17 | 11.17 |
| MW-15 | 15.59 | 15.17 | 0.42 | 0.25 | 12.84 | 2.75 | 2.75 | 15.34 | 0.25 | 0.25 |

(1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.
(2) Product not encountered.

Hydrocarbon thickness in well is difference between depth to bottom and depth to hydrocarbon/water interface.
Hydrocarbon thickness on tape measure after probe removed from the well.

| Well Location | Depth to Bottom | September 10, 2001 | | | December 3, 2001 | | | March 18, 2002 | | |
|---------------|-----------------|----------------------|--------------|--------------|----------------------|--------------|--------------|----------------------|--------------|--------------|
| | | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape |
| EW-1 | 53.51 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-2 | 50.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-3 | 70.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| MW-2A* | 44.41 | 41.33 | 3.08 | 3.08 | Not Measured | -- | -- | 43.45** | 1.63 | 1.63 |
| MW-7 | 17.88 | Damaged | -- | -- | Damaged | -- | -- | Damaged | -- | -- |
| MW-9 | 14.62 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| MW-10B | 34.91 | 34.41 | 0.5 | 0.5 | 34.58 | 0.33 | 0.33 | 34.58 | 0.33 | 0.33 |
| TW-13 | 14.82 | (2) | (2) | (2) | 14.74 | 0.08 | 0.08 | 14.74 | 0.08 | 0.08 |
| MW-13A | 45.33 | 43.83 | 0.58 | 0.58 | 43.91 | 0.5 | 0.5 | 44.75 | 0.58 | 0.58 |
| MW-13B | 69.82 | 58.99 | 10.83 | 10.83 | 59.65 | 10.17 | 10.17 | 58.32 | 11.50 | 11.50 |
| MW-15 | 15.59 | 15.26 | 0.33 | 0.33 | 15.34 | 0.25 | 0.25 | 15.51 | 0.08 | 0.08 |
| MW-18A | 44.86 | -- | -- | -- | -- | -- | -- | (2) | (2) | (2) |
| MW-19A | 45.20 | -- | -- | -- | -- | -- | -- | (2) | (2) | (2) |
| MW-21A | 46.26 | -- | -- | -- | -- | -- | -- | 46.25* | 0.01* | 0.01* |
| Well Location | Depth to Bottom | June 28, 2002 | | | September 16, 2002 | | | December 16, 2002 | | |
| | | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape |
| EW-1 | 53.51 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-2 | 50.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-3 | 70.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-4 | 29.50 | 29.25 | 0.25 | 0.25 | (2) | (2) | (2) | Not Measured | -- | -- |
| MW-2R | 29.40 | 28.23 | 1.17 | 1.17 | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-2AR | 45.08 | 44.31 | 0.77 | 0.77 | 41.08 | 4.00 | 4.00 | 39.88 | 5.20 | 5.20 |
| MW-7 | 17.88 | Abandoned | -- | -- | Abandoned | -- | -- | Abandoned | -- | -- |
| MW-9 | 14.62 | Not Measured | -- | -- | (2) | (2) | (2) | Not Measured | -- | -- |
| MW-10B | 34.91 | 34.08 | 0.83 | 0.73 | 33.74 | 1.17 | 1.17 | 33.40 | 1.51 | 1.51 |
| TW-13 | 14.82 | Trace | -- | -- | Trace | -- | -- | Trace | -- | -- |
| MW-13A | 45.33 | 45.25 | 0.08 | 0.08 | 44.33 | 1.00 | 1.00 | 44.33 | 1.00 | 1.00 |
| MW-13B | 69.82 | 67.99 | 1.83 | 1.83 | 59.40 | 10.42 | 10.42 | 58.32 | 11.50 | 11.50 |
| MW-15 | 15.59 | 15.46 | 0.13 | 0.13 | 15.55 | 0.04 | 0.04 | 15.46 | 0.13 | 0.13 |
| MW-18A | 44.86 | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-19A | 45.20 | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-21A | 46.26 | Trace | -- | -- | Trace | -- | -- | (2) | (2) | (2) |
| MW-22A | 27.55 | (2) | (2) | (2) | (2) | (2) | (2) | 27.42 | 0.13 | 0.13 |

(1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.
(2) Product not encountered.

Table 7
Summary of Historic Free Phase Hydrocarbon Thickness
Northern States Power, Ashland, Wisconsin

| Well Location | Depth to Bottom | March 24, 2003 | | | June 23, 2003 | | | September 29, 2003 | | |
|---------------|-----------------|----------------------|--------------|--------------|----------------------|--------------|--------------|----------------------|--------------|--------------|
| | | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape |
| EW-1 | 53.51 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-2 | 50.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-3 | 70.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-4 | 29.50 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| MW-2R | 29.40 | 27.32 | 2.08 | 2.08 | 28.02 | 1.38 | 1.38 | 27.53 | 1.87 | 1.87 |
| MW-2AR | 45.08 | 40.91 | 4.17 | 4.17 | 38.08 | 7.00 | 7.00 | 41.96 | 3.12 | 3.12 |
| MW-3 (NET) | 17.60 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| MW-4B | 52.30 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| MW-7R | 17.01 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| MW-9 | 14.62 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| TW-9 | 16.20 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| MW-10B | 34.91 | Not Measured | -- | -- | 33.24 | 1.67 | 1.67 | 33.83 | 1.08 | 1.08 |
| TW-11 | 14.00 | Not Measured | -- | -- | 13.50 | 0.50 | 0.50 | 13.17 | 0.83 | 0.83 |
| TW-13 | 14.82 | Trace | -- | -- | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-13A | 45.33 | 44.06 | 1.27 | 1.27 | 44.33 | Trace | Trace | 45.31 | 0.02 | 0.02 |
| MW-13B | 69.82 | 58.00 | 11.82 | 11.82 | (3) | (3) | (3) | (3) | (3) | (3) |
| MW-15 | 15.59 | 15.49 | 0.10 | 0.10 | 15.14 | 0.45 | 0.45 | 15.43 | 0.16 | 0.16 |
| MW-15A | 30.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-18A | 44.86 | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-19A | 45.20 | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-21A | 46.26 | (2) | (2) | (2) | Trace | Trace | Trace | (2) | (2) | (2) |
| MW-22A | 27.55 | 27.26 | 0.29 | 0.29 | (2) | (2) | (2) | (2) | (2) | (2) |

- (1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.
(2) Product not encountered.
(3) Measuring device did not reach the well bottom. Suspected obstruction near well screen.
(4) Trace floating LNAPL encountered in well.

| Well Location | Depth to Bottom | December 15, 2003 | | | March 16, 2004 | | | June 14, 2004 | | |
|---------------|-----------------|----------------------|--------------|--------------|----------------------|--------------|--------------|----------------------|--------------|--------------|
| | | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape |
| EW-1 | 53.51 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-2 | 50.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-3 | 70.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-4 | 29.50 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| MW-2R | 29.40 | 27.90 | 1.50 | 1.50 | 28.00 | 1.4 | 1.4 | 28.26 | 1.14 | 1.14 |
| MW-2AR | 45.08 | 40.63 | 4.45 | 4.45 | 43.43 | 1.65 | 1.65 | 41.99 | 3.09 | 3.09 |
| MW-3 (NET) | 17.60 | 17.60 | Trace | Trace | 17.59 | 0.01 | 0.01 | 17.6 | Trace | Trace |
| MW-4B | 52.30 | Not Measured | -- | -- | Not Measured | -- | -- | 52.30 | Trace | Trace |
| MW-7R | 17.01 | Not Measured | -- | -- | -- | -- | -- | (2) | (2) | (2) |
| MW-9 | 14.62 | Not Measured | -- | -- | Not Measured | -- | -- | (2) | (2) | (2) |
| TW-9 | 16.20 | Not Measured | -- | -- | Not Measured | -- | -- | 13.87 | 2.33 | 2.33 |
| MW-10B | 34.91 | 32.31 | 2.60 | 2.60 | 33.01 | 1.9 | 1.9 | 33.83 | 1.08 | 1.08 |
| TW-11 | 14.00 | 12.92 | 1.08 | 1.08 | 13.20 | 0.80 | 0.80 | 12.92 | 1.08 | 1.08 |
| TW-13 | 14.82 | (2) | (2) | (2) | Not Measured | -- | -- | (2) | (2) | (2) |
| MW-13A | 45.33 | 45.08 | 0.25 | 0.25 | 45.08 | 0.25 | 0.25 | 44.91 | 0.42 | 0.42 |
| MW-13B | 69.82 | 58.57 | 11.25 | 11.25 | 64.4 | 5.42 | 5.42 | (3) | (3) | (3) |
| MW-15 | 15.59 | 15.57 | 0.02 | 0.02 | 15.58 | 0.01 | 0.01 | 15.04 | 0.55 | 0.55 |
| MW-15A | 30.00 | 26.25 | 3.75 | 3.75 | Not Measured | -- | -- | 29.70 | 0.30 | 0.30 |
| MW-18A | 44.86 | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-19A | 45.20 | Not Measured | -- | -- | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-21A | 46.26 | 46.24 | 0.02 | 0.02 | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-22A | 27.55 | 27.51 | 0.04 | 0.04 | 27.54 | 0.01 | 0.01 | (2) | (2) | (2) |

- (1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.
(2) Product not encountered.
(3) Measuring device did not reach the well bottom. Suspected obstruction near well screen.
(4) Trace floating LNAPL encountered in well.

Table 7
Summary of Historic Free Phase Hydrocarbon Thickness
Northern States Power, Ashland, Wisconsin

| Well Location | Depth to Bottom | September 20, 2004 | | | December 6, 2004 | | | March 15, 2005 | | |
|---------------|-----------------|----------------------|--------------|--------------|----------------------|--------------|--------------|----------------------|--------------|--------------|
| | | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape |
| EW-1 | 53.51 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-2 | 50.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-3 | 70.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-4 | 29.50 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| MW-2R | 29.40 | 28.23 | 1.17 | 1.17 | 28.50 | 0.90 | 0.90 | 28.82 | 0.58 | 0.58 |
| MW-2AR | 45.08 | 38.35 | 6.73 | 6.73 | 24.68 | 20.4 | 20.4 | 29.98 | 15.10 | 15.10 |
| MW-3 (NET) | 17.60 | (4) | (4) | (4) | (4) | (4) | (4) | 17.59 | 0.01 | 0.01 |
| MW-4A | 25.40 | Not Measured | -- | -- | Not Measured | -- | -- | 25.32 | 0.08 | 0.08 |
| MW-4B | 52.30 | 49.48 | 2.82 | 2.82 | 47.48 | 4.82 | 4.82 | 49.10 | 3.20 | 3.20 |
| MW-7R | 17.00 | (4) | (4) | (4) | (4) | (4) | (4) | 17.00 | (4) | (4) |
| MW-9 | 14.62 | (4) | (4) | (4) | (4) | (4) | (4) | Not Measured | -- | -- |
| TW-9 | 16.20 | 13.93 | 2.27 | 2.27 | 13.97 | 2.23 | 2.23 | 13.60 | 2.60 | 2.60 |
| MW-10B | 34.91 | 33.60 | 1.31 | 1.31 | Not Measured | -- | -- | 33.33 | 1.58 | 1.58 |
| TW-11 | 14.00 | 12.97 | 1.03 | 1.03 | 12.99 | 1.01 | 1.01 | 12.84 | 1.16 | 1.16 |
| TW-13 | 14.82 | (2) | (2) | (2) | (4) | (4) | (4) | (2) | (2) | (2) |
| MW-13A | 45.33 | 44.93 | 0.40 | 0.40 | 44.41 | 0.92 | 0.92 | 45.25 | 0.08 | 0.08 |
| MW-13B | 69.82 | (3) | (3) | (3) | Not Measured | -- | -- | Not Measured | -- | -- |
| MW-15 | 15.59 | (4) | (4) | (4) | 15.30 | 0.29 | 0.29 | 15.59 | Trace | Trace |
| MW-15A | 30.00 | 28.27 | 1.73 | 1.73 | 24.80 | 5.20 | 5.20 | 30.00 | Trace | Trace |
| MW-18A | 44.86 | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-19A | 45.20 | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-21A | 46.26 | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-22A | 27.55 | (2) | (2) | (2) | (4) | (4) | (4) | (2) | (2) | (2) |

- (1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.
(2) Product not encountered.
(3) Measuring device did not reach the well bottom. Suspected obstruction near well screen.
(4) Trace floating LNAPL encountered in well.

| Well Location | Depth to Bottom | June 15, 2005 | | | November 3, 2005 | | | August 11, 2008 | | |
|---------------|-----------------|----------------------|--------------|--------------|----------------------|--------------|--------------|----------------------|--------------|--------------|
| | | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape | Depth to Hydrocarbon | Feet in Well | Feet on Tape |
| EW-1 | 53.51 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-2 | 50.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-3 | 70.00 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| EW-4 | 29.50 | Not Measured | -- | -- | Not Measured | -- | -- | Not Measured | -- | -- |
| MW-2R | 29.40 | 29.39 | 0.01 | 0.01 | 29.20 | 0.20 | 0.20 | 29.23 | 0.17 | 0.17 |
| MW-2AR | 45.08 | Not Measured | -- | -- | 33.08 | 12.00 | 12 | 33.00 | 12.08 | 12.08 |
| MW-3 (NET) | 17.60 | Not Measured | -- | -- | (4) | (4) | (4) | (4) | (4) | (4) |
| MW-4A | 25.40 | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| MW-4B | 52.30 | 48.55 | 3.75 | 3.75 | 43.30 | 9.00 | 9.00 | -- | -- | -- |
| MW-7R | 17.00 | (4) | (4) | (4) | 16.60 | 0.40 | 0.40 | 16.58 | 0.42 | 0.42 |
| MW-9 | 14.62 | (4) | (4) | (4) | Not Measured | -- | -- | -- | -- | -- |
| TW-9 | 16.20 | 13.85 | 2.35 | 2.35 | 15.70 | 0.50 | 0.50 | 12.62 | 3.58 | 3.58 |
| MW-10B | 34.91 | 33.95 | 0.96 | 0.96 | 34.01 | 0.90 | 0.90 | 33.95 | 0.96 | 0.96 |
| TW-11 | 14.00 | 12.88 | 1.12 | 1.12 | 13.05 | 0.95 | 0.95 | 13.08 | 0.92 | 0.92 |
| TW-13 | 14.82 | (2) | (2) | (2) | Not Measured | -- | -- | 14.82 | Trace | Trace |
| MW-13A | 45.33 | 44.91 | 0.42 | 0.42 | (2) | (2) | (2) | 45.33 | Trace | Trace |
| MW-13B | 69.82 | (3) | (3) | (3) | 69.37 | 0.45 | 0.45 | (3) | (3) | (3) |
| MW-15 | 15.59 | (4) | (4) | (4) | 15.24 | 0.35 | 0.35 | 15.59 | Trace | Trace |
| MW-15A | 30.00 | 29.99 | 0.01 | 0.01 | 29.90 | 0.10 | 0.1 | (2) | (2) | (2) |
| MW-18A | 44.86 | Not Measured | -- | -- | Not Measured | -- | -- | (2) | (2) | (2) |
| MW-19A | 45.20 | Not Measured | -- | -- | Not Measured | -- | -- | (2) | (2) | (2) |
| MW-21A | 46.26 | Not Measured | -- | -- | Not Measured | -- | -- | (2) | (2) | (2) |
| MW-22A | 27.55 | Not Measured | -- | -- | (2) | (2) | (2) | (3) | (3) | (3) |
| MW-26 | 14.5 | Not Measured | -- | -- | Not Measured | -- | -- | 14.25 | 0.25 | 0.25 |

- (1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.
(2) Product not encountered.
(3) Measuring device did not reach the well bottom. Suspected obstruction near well screen.
(4) Trace floating LNAPL encountered in well.

Appendix

Interim Treatment System Laboratory Reporting Forms

ANALYTICAL REPORT

Client: URS Corporation (Milwaukee)
 Attn: Paul Sklar
 6737 West Washington Street #2265
 Milwaukee, WI 53214

NLS Project: 121469

NLS Customer: 91206

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

Project: Xcel Energy Ashland

Influent NLS ID: 489538

COC: 108931:1 Matrix: GW
 Collected: 08/07/08 00:00 Received: 08/08/08

| Parameter | Result | Units | Dilution | LOD | LOQ | Analyzed | Method | Lab |
|----------------------------------|--------------|-------|----------|-----|-----|----------|------------|-----------|
| VOCs (water) by EPA Method 8260B | see attached | | | | | 08/12/08 | SW846 8260 | 721026460 |

Pre Carbon NLS ID: 489539

COC: 108931:2 Matrix: GW
 Collected: 08/07/08 00:00 Received: 08/08/08

| Parameter | Result | Units | Dilution | LOD | LOQ | Analyzed | Method | Lab |
|----------------------------------|--------------|-------|----------|-----|-----|----------|------------|-----------|
| VOCs (water) by EPA Method 8260B | see attached | | | | | 08/12/08 | SW846 8260 | 721026460 |

Effluent NLS ID: 489540

COC: 108931:3 Matrix: GW
 Collected: 08/07/08 00:00 Received: 08/08/08

| Parameter | Result | Units | Dilution | LOD | LOQ | Analyzed | Method | Lab |
|----------------------------------|--------------|-------|----------|-----|-----|----------|------------|-----------|
| VOCs (water) by EPA Method 8260B | see attached | | | | | 08/12/08 | SW846 8260 | 721026460 |

Trip Blank NLS ID: 489541

COC: 108931 Matrix: TB
 Collected: 08/07/08 00:00 Received: 08/08/08

| Parameter | Result | Units | Dilution | LOD | LOQ | Analyzed | Method | Lab |
|----------------------------------|--------------|-------|----------|-----|-----|----------|------------|-----------|
| VOCs (water) by EPA Method 8260B | see attached | | | | | 08/12/08 | 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 (< LOD) 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. Shaded results indicate >MCL.

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

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

Page 1 of 8

Customer: URS Corporation (Milwaukee) NLS Project: 121469

Project Description: Xcel Energy Ashland

Project Title: Template: SATW Printed: 09/08/2008 14:35

Sample: 489538 Influent Collected: 08/07/08 Analyzed: 08/12/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|-----------------------------|--------|-------|------|------|-------|------|
| Benzene | 42000 | ug/L | 2500 | 1000 | 3500 | |
| Bromobenzene | ND | ug/L | 2500 | 1000 | 3400 | |
| Bromochloromethane | ND | ug/L | 2500 | 940 | 3100 | |
| Bromodichloromethane | ND | ug/L | 2500 | 880 | 2900 | |
| Bromoform | ND | ug/L | 2500 | 960 | 3200 | |
| Bromomethane | ND | ug/L | 2500 | 1400 | 4700 | |
| n-Butylbenzene | ND | ug/L | 2500 | 910 | 3000 | |
| sec-Butylbenzene | ND | ug/L | 2500 | 900 | 3000 | |
| tert-Butylbenzene | ND | ug/L | 2500 | 940 | 3100 | |
| Carbon Tetrachloride | ND | ug/L | 2500 | 690 | 2300 | |
| Chlorobenzene | ND | ug/L | 2500 | 970 | 3200 | |
| Chloroethane | ND | ug/L | 2500 | 3500 | 12000 | |
| Chloroform | ND | ug/L | 2500 | 1000 | 3500 | |
| Chloromethane | ND | ug/L | 2500 | 840 | 2800 | |
| 2-Chlorotoluene | ND | ug/L | 2500 | 1000 | 3400 | |
| 4-Chlorotoluene | ND | ug/L | 2500 | 1000 | 3500 | |
| Dibromochloromethane | ND | ug/L | 2500 | 910 | 3000 | |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 2500 | 1300 | 4200 | |
| 1,2-Dibromoethane | ND | ug/L | 2500 | 760 | 2500 | |
| Dibromomethane | ND | ug/L | 2500 | 1100 | 3800 | |
| 1,2-Dichlorobenzene | ND | ug/L | 2500 | 950 | 3200 | |
| 1,3-Dichlorobenzene | ND | ug/L | 2500 | 960 | 3200 | |
| 1,4-Dichlorobenzene | ND | ug/L | 2500 | 870 | 2900 | |
| Dichlorodifluoromethane | ND | ug/L | 2500 | 560 | 1900 | |
| 1,1-Dichloroethane | ND | ug/L | 2500 | 870 | 2900 | |
| 1,2-Dichloroethane | ND | ug/L | 2500 | 1200 | 3900 | |
| 1,1-Dichloroethene | ND | ug/L | 2500 | 850 | 2800 | |
| cis-1,2-Dichloroethene | ND | ug/L | 2500 | 1000 | 3400 | |
| trans-1,2-Dichloroethene | ND | ug/L | 2500 | 1200 | 3900 | |
| 1,2-Dichloropropane | ND | ug/L | 2500 | 970 | 3200 | |
| 1,3-Dichloropropane | ND | ug/L | 2500 | 910 | 3000 | |
| 2,2-Dichloropropane | ND | ug/L | 2500 | 1400 | 4500 | |
| 1,1-Dichloropropene | ND | ug/L | 2500 | 840 | 2800 | |
| cis-1,3-Dichloropropene | ND | ug/L | 2500 | 870 | 2800 | |
| trans-1,3-Dichloropropene | ND | ug/L | 2500 | 940 | 3100 | |
| Ethylbenzene | [860] | ug/L | 2500 | 810 | 2700 | |
| Hexachlorobutadiene | ND | ug/L | 2500 | 810 | 2700 | |
| Isopropylbenzene | ND | ug/L | 2500 | 810 | 2700 | |
| p-Isopropyltoluene | ND | ug/L | 2500 | 900 | 3000 | |
| Methylene chloride | ND | ug/L | 2500 | 1000 | 3300 | |
| Naphthalene | 35000 | ug/L | 2500 | 920 | 2900 | |
| n-Propylbenzene | ND | ug/L | 2500 | 1000 | 3300 | |
| ortho-Xylene | [1600] | ug/L | 2500 | 790 | 2600 | |
| Styrene | 4400 | ug/L | 2500 | 870 | 2900 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 2500 | 990 | 3300 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 2500 | 1200 | 4100 | |
| Tetrachloroethene | ND | ug/L | 2500 | 760 | 2500 | |
| Toluene | 21000 | ug/L | 2500 | 920 | 3100 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 2500 | 980 | 3300 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 2500 | 860 | 2900 | |
| 1,1,1-Trichloroethane | ND | ug/L | 2500 | 840 | 2800 | |
| 1,1,2-Trichloroethane | ND | ug/L | 2500 | 1100 | 3600 | |

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)**Customer: URS Corporation (Milwaukee) NLS Project: 121469****Project Description: Xcel Energy Ashland****Project Title: Template: SATW Printed: 09/08/2008 14:35**

Sample: 489538 Influent Collected: 08/07/08 Analyzed: 08/12/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|--------------------------------|---------|-------|------|------|------|------|
| Trichloroethene | ND | ug/L | 2500 | 1100 | 3600 | |
| Trichlorofluoromethane | ND | ug/L | 2500 | 680 | 2300 | |
| 1,2,3-Trichloropropane | ND | ug/L | 2500 | 1900 | 6400 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 2500 | 1000 | 3300 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 2500 | 1000 | 3400 | |
| Vinyl chloride | ND | ug/L | 2500 | 240 | 790 | |
| meta,para-Xylene | 3000 | ug/L | 2500 | 660 | 2200 | |
| MTBE | ND | ug/L | 2500 | 950 | 3200 | |
| Isopropyl Ether | ND | ug/L | 2500 | 840 | 2800 | |
| Dibromofluoromethane (SURR) | 111.03% | | | | | S |
| Toluene-d8 (SURR) | 116.16% | | | | | S |
| 1-Bromo-4-Fluorobenzene (SURR) | 97.06% | | | | | S |

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: URS Corporation (Milwaukee) NLS Project: 121469

Project Description: Xcel Energy Ashland

Project Title: Template: SATW Printed: 09/08/2008 14:35

Sample: 489539 Pre Carbon Collected: 08/07/08 Analyzed: 08/12/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|-----------------------------|--------|-------|-----|------|------|------|
| Benzene | ND | ug/L | 1 | 0.42 | 1.4 | |
| Bromobenzene | ND | ug/L | 1 | 0.41 | 1.4 | |
| Bromochloromethane | ND | ug/L | 1 | 0.38 | 1.3 | |
| Bromodichloromethane | ND | ug/L | 1 | 0.35 | 1.2 | |
| Bromoform | ND | ug/L | 1 | 0.38 | 1.3 | |
| Bromomethane | ND | ug/L | 1 | 0.56 | 1.9 | |
| n-Butylbenzene | ND | ug/L | 1 | 0.36 | 1.2 | |
| sec-Butylbenzene | ND | ug/L | 1 | 0.36 | 1.2 | |
| tert-Butylbenzene | ND | ug/L | 1 | 0.38 | 1.3 | |
| Carbon Tetrachloride | ND | ug/L | 1 | 0.28 | 0.92 | |
| Chlorobenzene | ND | ug/L | 1 | 0.39 | 1.3 | |
| Chloroethane | ND | ug/L | 1 | 1.4 | 4.7 | |
| Chloroform | ND | ug/L | 1 | 0.42 | 1.4 | |
| Chloromethane | ND | ug/L | 1 | 0.33 | 1.1 | |
| 2-Chlorotoluene | ND | ug/L | 1 | 0.41 | 1.4 | |
| 4-Chlorotoluene | ND | ug/L | 1 | 0.42 | 1.4 | |
| Dibromochloromethane | ND | ug/L | 1 | 0.36 | 1.2 | |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 1 | 0.51 | 1.7 | |
| 1,2-Dibromoethane | ND | ug/L | 1 | 0.30 | 1.0 | |
| Dibromomethane | ND | ug/L | 1 | 0.45 | 1.5 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1 | 0.38 | 1.3 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1 | 0.38 | 1.3 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1 | 0.35 | 1.2 | |
| Dichlorodifluoromethane | ND | ug/L | 1 | 0.22 | 0.74 | |
| 1,1-Dichloroethane | ND | ug/L | 1 | 0.35 | 1.2 | |
| 1,2-Dichloroethane | ND | ug/L | 1 | 0.47 | 1.6 | |
| 1,1-Dichloroethene | ND | ug/L | 1 | 0.34 | 1.1 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1 | 0.40 | 1.3 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1 | 0.47 | 1.6 | |
| 1,2-Dichloropropane | ND | ug/L | 1 | 0.39 | 1.3 | |
| 1,3-Dichloropropane | ND | ug/L | 1 | 0.36 | 1.2 | |
| 2,2-Dichloropropane | ND | ug/L | 1 | 0.54 | 1.8 | |
| 1,1-Dichloropropene | ND | ug/L | 1 | 0.33 | 1.1 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1 | 0.35 | 1.1 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1 | 0.38 | 1.3 | |
| Ethylbenzene | ND | ug/L | 1 | 0.33 | 1.1 | |
| Hexachlorobutadiene | ND | ug/L | 1 | 0.33 | 1.1 | |
| Isopropylbenzene | ND | ug/L | 1 | 0.32 | 1.1 | |
| p-Isopropyltoluene | ND | ug/L | 1 | 0.36 | 1.2 | |
| Methylene chloride | ND | ug/L | 1 | 0.40 | 1.3 | |
| Naphthalene | 1.8 | ug/L | 1 | 0.37 | 1.2 | |
| n-Propylbenzene | ND | ug/L | 1 | 0.40 | 1.3 | |
| ortho-Xylene | ND | ug/L | 1 | 0.32 | 1.1 | |
| Styrene | ND | ug/L | 1 | 0.35 | 1.2 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1 | 0.39 | 1.3 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1 | 0.49 | 1.6 | |
| Tetrachloroethene | ND | ug/L | 1 | 0.31 | 1.0 | |
| Toluene | ND | ug/L | 1 | 0.37 | 1.2 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1 | 0.39 | 1.3 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1 | 0.34 | 1.1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1 | 0.34 | 1.1 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1 | 0.43 | 1.4 | |

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

Customer: URS Corporation (Milwaukee) NLS Project: 121469

Project Description: Xcel Energy Ashland

Project Title: Template: SATW Printed: 09/08/2008 14:35

Sample: 489539 Pre Carbon Collected: 08/07/08 Analyzed: 08/12/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|--------------------------------|---------|-------|-----|-------|------|------|
| Trichloroethene | ND | ug/L | 1 | 0.43 | 1.4 | |
| Trichlorofluoromethane | ND | ug/L | 1 | 0.27 | 0.91 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1 | 0.76 | 2.5 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 1 | 0.40 | 1.3 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 1 | 0.41 | 1.4 | |
| Vinyl chloride | ND | ug/L | 1 | 0.095 | 0.32 | |
| meta,para-Xylene | [0.51] | ug/L | 1 | 0.26 | 0.87 | |
| MTBE | ND | ug/L | 1 | 0.38 | 1.3 | |
| Isopropyl Ether | ND | ug/L | 1 | 0.34 | 1.1 | |
| Dibromofluoromethane (SURR) | 109.4% | | | | | S |
| Toluene-d8 (SURR) | 114.93% | | | | | S |
| 1-Bromo-4-Fluorobenzene (SURR) | 103.95% | | | | | S |

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: URS Corporation (Milwaukee) NLS Project: 121469

Project Description: Xcel Energy Ashland

Project Title: Template: SATW Printed: 09/08/2008 14:35

Sample: 489540 Effluent Collected: 08/07/08 Analyzed: 08/12/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|-----------------------------|--------|-------|-----|------|------|------|
| Benzene | ND | ug/L | 1 | 0.42 | 1.4 | |
| Bromobenzene | ND | ug/L | 1 | 0.41 | 1.4 | |
| Bromochloromethane | ND | ug/L | 1 | 0.38 | 1.3 | |
| Bromodichloromethane | ND | ug/L | 1 | 0.35 | 1.2 | |
| Bromoform | ND | ug/L | 1 | 0.38 | 1.3 | |
| Bromomethane | ND | ug/L | 1 | 0.56 | 1.9 | |
| n-Butylbenzene | ND | ug/L | 1 | 0.36 | 1.2 | |
| sec-Butylbenzene | ND | ug/L | 1 | 0.36 | 1.2 | |
| tert-Butylbenzene | ND | ug/L | 1 | 0.38 | 1.3 | |
| Carbon Tetrachloride | ND | ug/L | 1 | 0.28 | 0.92 | |
| Chlorobenzene | ND | ug/L | 1 | 0.39 | 1.3 | |
| Chloroethane | ND | ug/L | 1 | 1.4 | 4.7 | |
| Chloroform | [0.77] | ug/L | 1 | 0.42 | 1.4 | |
| Chloromethane | ND | ug/L | 1 | 0.33 | 1.1 | |
| 2-Chlorotoluene | ND | ug/L | 1 | 0.41 | 1.4 | |
| 4-Chlorotoluene | ND | ug/L | 1 | 0.42 | 1.4 | |
| Dibromochloromethane | ND | ug/L | 1 | 0.36 | 1.2 | |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 1 | 0.51 | 1.7 | |
| 1,2-Dibromoethane | ND | ug/L | 1 | 0.30 | 1.0 | |
| Dibromomethane | ND | ug/L | 1 | 0.45 | 1.5 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1 | 0.38 | 1.3 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1 | 0.38 | 1.3 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1 | 0.35 | 1.2 | |
| Dichlorodifluoromethane | ND | ug/L | 1 | 0.22 | 0.74 | |
| 1,1-Dichloroethane | ND | ug/L | 1 | 0.35 | 1.2 | |
| 1,2-Dichloroethane | ND | ug/L | 1 | 0.47 | 1.6 | |
| 1,1-Dichloroethene | ND | ug/L | 1 | 0.34 | 1.1 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1 | 0.40 | 1.3 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1 | 0.47 | 1.6 | |
| 1,2-Dichloropropane | ND | ug/L | 1 | 0.39 | 1.3 | |
| 1,3-Dichloropropane | ND | ug/L | 1 | 0.36 | 1.2 | |
| 2,2-Dichloropropane | ND | ug/L | 1 | 0.54 | 1.8 | |
| 1,1-Dichloropropene | ND | ug/L | 1 | 0.33 | 1.1 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1 | 0.35 | 1.1 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1 | 0.38 | 1.3 | |
| Ethylbenzene | ND | ug/L | 1 | 0.33 | 1.1 | |
| Hexachlorobutadiene | ND | ug/L | 1 | 0.33 | 1.1 | |
| Isopropylbenzene | ND | ug/L | 1 | 0.32 | 1.1 | |
| p-Isopropyltoluene | ND | ug/L | 1 | 0.36 | 1.2 | |
| Methylene chloride | [0.64] | ug/L | 1 | 0.40 | 1.3 | |
| Naphthalene | ND | ug/L | 1 | 0.37 | 1.2 | |
| n-Propylbenzene | ND | ug/L | 1 | 0.40 | 1.3 | |
| ortho-Xylene | ND | ug/L | 1 | 0.32 | 1.1 | |
| Styrene | ND | ug/L | 1 | 0.35 | 1.2 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1 | 0.39 | 1.3 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1 | 0.49 | 1.6 | |
| Tetrachloroethene | ND | ug/L | 1 | 0.31 | 1.0 | |
| Toluene | ND | ug/L | 1 | 0.37 | 1.2 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1 | 0.39 | 1.3 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1 | 0.34 | 1.1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1 | 0.34 | 1.1 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1 | 0.43 | 1.4 | |

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

Customer: URS Corporation (Milwaukee) NLS Project: 121469

Project Description: Xcel Energy Ashland

Project Title: Template: SATW Printed: 09/08/2008 14:35

Sample: 489540 Effluent Collected: 08/07/08 Analyzed: 08/12/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|--------------------------------|---------|-------|-----|-------|------|------|
| Trichloroethene | ND | ug/L | 1 | 0.43 | 1.4 | |
| Trichlorofluoromethane | ND | ug/L | 1 | 0.27 | 0.91 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1 | 0.76 | 2.5 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 1 | 0.40 | 1.3 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 1 | 0.41 | 1.4 | |
| Vinyl chloride | ND | ug/L | 1 | 0.095 | 0.32 | |
| meta,para-Xylene | ND | ug/L | 1 | 0.26 | 0.87 | |
| MTBE | ND | ug/L | 1 | 0.38 | 1.3 | |
| Isopropyl Ether | ND | ug/L | 1 | 0.34 | 1.1 | |
| Dibromofluoromethane (SURR) | 110.7% | | | | | S |
| Toluene-d8 (SURR) | 116.66% | | | | | S |
| 1-Bromo-4-Fluorobenzene (SURR) | 99.8% | | | | | S |

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: URS Corporation (Milwaukee) NLS Project: 121469

Project Description: Xcel Energy Ashland

Project Title: Template: SATW Printed: 09/08/2008 14:35

Sample: 489541 Trip Blank Collected: 08/07/08 Analyzed: 08/12/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|-----------------------------|--------|-------|-----|------|------|------|
| Benzene | ND | ug/L | 1 | 0.42 | 1.4 | |
| Bromobenzene | ND | ug/L | 1 | 0.41 | 1.4 | |
| Bromochloromethane | ND | ug/L | 1 | 0.38 | 1.3 | |
| Bromodichloromethane | ND | ug/L | 1 | 0.35 | 1.2 | |
| Bromoform | ND | ug/L | 1 | 0.38 | 1.3 | |
| Bromomethane | ND | ug/L | 1 | 0.56 | 1.9 | |
| n-Butylbenzene | ND | ug/L | 1 | 0.36 | 1.2 | |
| sec-Butylbenzene | ND | ug/L | 1 | 0.36 | 1.2 | |
| tert-Butylbenzene | ND | ug/L | 1 | 0.38 | 1.3 | |
| Carbon Tetrachloride | ND | ug/L | 1 | 0.28 | 0.92 | |
| Chlorobenzene | ND | ug/L | 1 | 0.39 | 1.3 | |
| Chloroethane | ND | ug/L | 1 | 1.4 | 4.7 | |
| Chloroform | ND | ug/L | 1 | 0.42 | 1.4 | |
| Chloromethane | ND | ug/L | 1 | 0.33 | 1.1 | |
| 2-Chlorotoluene | ND | ug/L | 1 | 0.41 | 1.4 | |
| 4-Chlorotoluene | ND | ug/L | 1 | 0.42 | 1.4 | |
| Dibromochloromethane | ND | ug/L | 1 | 0.36 | 1.2 | |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 1 | 0.51 | 1.7 | |
| 1,2-Dibromoethane | ND | ug/L | 1 | 0.30 | 1.0 | |
| Dibromomethane | ND | ug/L | 1 | 0.45 | 1.5 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1 | 0.38 | 1.3 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1 | 0.38 | 1.3 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1 | 0.35 | 1.2 | |
| Dichlorodifluoromethane | ND | ug/L | 1 | 0.22 | 0.74 | |
| 1,1-Dichloroethane | ND | ug/L | 1 | 0.35 | 1.2 | |
| 1,2-Dichloroethane | ND | ug/L | 1 | 0.47 | 1.6 | |
| 1,1-Dichloroethene | ND | ug/L | 1 | 0.34 | 1.1 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1 | 0.40 | 1.3 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1 | 0.47 | 1.6 | |
| 1,2-Dichloropropane | ND | ug/L | 1 | 0.39 | 1.3 | |
| 1,3-Dichloropropane | ND | ug/L | 1 | 0.36 | 1.2 | |
| 2,2-Dichloropropane | ND | ug/L | 1 | 0.54 | 1.8 | |
| 1,1-Dichloropropene | ND | ug/L | 1 | 0.33 | 1.1 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1 | 0.35 | 1.1 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1 | 0.38 | 1.3 | |
| Ethylbenzene | ND | ug/L | 1 | 0.33 | 1.1 | |
| Hexachlorobutadiene | ND | ug/L | 1 | 0.33 | 1.1 | |
| Isopropylbenzene | ND | ug/L | 1 | 0.32 | 1.1 | |
| p-Isopropyltoluene | ND | ug/L | 1 | 0.36 | 1.2 | |
| Methylene chloride | ND | ug/L | 1 | 0.40 | 1.3 | |
| Naphthalene | ND | ug/L | 1 | 0.37 | 1.2 | |
| n-Propylbenzene | ND | ug/L | 1 | 0.40 | 1.3 | |
| ortho-Xylene | ND | ug/L | 1 | 0.32 | 1.1 | |
| Styrene | ND | ug/L | 1 | 0.35 | 1.2 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1 | 0.39 | 1.3 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1 | 0.49 | 1.6 | |
| Tetrachloroethene | ND | ug/L | 1 | 0.31 | 1.0 | |
| Toluene | ND | ug/L | 1 | 0.37 | 1.2 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1 | 0.39 | 1.3 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1 | 0.34 | 1.1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1 | 0.34 | 1.1 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1 | 0.43 | 1.4 | |

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)**Customer: URS Corporation (Milwaukee) NLS Project: 121469****Project Description: Xcel Energy Ashland****Project Title: Template: SATW Printed: 09/08/2008 14:35**

Sample: 489541 Trip Blank Collected: 08/07/08 Analyzed: 08/12/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|--------------------------------|---------|-------|-----|-------|------|------|
| Trichloroethene | ND | ug/L | 1 | 0.43 | 1.4 | |
| Trichlorofluoromethane | ND | ug/L | 1 | 0.27 | 0.91 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1 | 0.76 | 2.5 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 1 | 0.40 | 1.3 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 1 | 0.41 | 1.4 | |
| Vinyl chloride | ND | ug/L | 1 | 0.095 | 0.32 | |
| meta,para-Xylene | ND | ug/L | 1 | 0.26 | 0.87 | |
| MTBE | ND | ug/L | 1 | 0.38 | 1.3 | |
| Isopropyl Ether | ND | ug/L | 1 | 0.34 | 1.1 | |
| Dibromofluoromethane (SURR) | 108.09% | | | | | S |
| Toluene-d8 (SURR) | 113.65% | | | | | S |
| 1-Bromo-4-Fluorobenzene (SURR) | 103.76% | | | | | S |

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

August 15, 2008

Client:

URS CORPORATION - MILWAUKEE
6737 West Washington St., Suite 226
Milwaukee, WI 53214

Work Order: CRH0527
Project Name: Xcel Energy - Ashland
Project Number: Air Samples

Attn: Paul Sklar

Date Received: 08/11/08

The Chain(s) of Custody, 2 pages, are included and are an integral part of 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 (influent) | CRH0527-01 | 08/07/08 |
| 1st Stage Carbon | CRH0527-02 | 08/07/08 |
| Air Effluent | CRH0527-03 | 08/07/08 |

Case Narrative: Total Hydrocarbons quantified as Gasoline.

Wisconsin Certification Number: 999917270

Field blanks are not used in sample correction unless noted.

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TestAmerica Laboratories, Inc. 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 Cedar Falls

Brian C. Graettinger
Operations Manager

URS CORPORATION - MILWAUKEE
6737 West Washington St., Suite 226
Milwaukee, WI 53214
Paul Sklar

Work Order: CRH0527
Project: Xcel Energy - Ashland
Project Number: Air Samples

Received: 08/11/08
Reported: 08/15/08 10:17

ANALYTICAL REPORT

| Analyte | Result | Data Qualifiers | Date Analyzed | Analyst | Method | Quant. Limit |
|--|--------------|---------------------------------|---------------|--------------------------|----------------|--------------|
| Sample ID: CRH0527-01 (Air Stripper (influent)) | | Sample Air Volume: 3.0 L | | Sampled: 08/07/08 | | |
| Benzene | <20.0ug/tube | <6.67 mg/m3 | <2.09 ppm | 8/12/2008 | mdm NIOSH 1501 | 20.0 |
| Ethylbenzene | <20.0ug/tube | <6.67 mg/m3 | <1.54 ppm | 8/12/2008 | mdm NIOSH 1501 | 20.0 |
| Hydrocarbons, Total | <30.0ug/tube | <10 mg/m3 | --- ppm | 8/14/2008 | mdm NIOSH 1550 | 30.0 |
| Toluene | <20.0ug/tube | <6.67 mg/m3 | <1.77 ppm | 8/12/2008 | mdm NIOSH 1501 | 20.0 |
| Xylenes, total | <30.0ug/tube | <10 mg/m3 | <2.3 ppm | 8/12/2008 | mdm NIOSH 1501 | 30.0 |
| Sample ID: CRH0527-02 (1st Stage Carbon) | | Sample Air Volume: 3.0 L | | Sampled: 08/07/08 | | |
| Benzene | <20.0ug/tube | <6.67 mg/m3 | <2.09 ppm | 8/13/2008 | mdm NIOSH 1501 | 20.0 |
| Ethylbenzene | <20.0ug/tube | <6.67 mg/m3 | <1.54 ppm | 8/13/2008 | mdm NIOSH 1501 | 20.0 |
| Hydrocarbons, Total | <30.0ug/tube | <10 mg/m3 | --- ppm | 8/14/2008 | mdm NIOSH 1550 | 30.0 |
| Toluene | <20.0ug/tube | <6.67 mg/m3 | <1.77 ppm | 8/13/2008 | mdm NIOSH 1501 | 20.0 |
| Xylenes, total | <30.0ug/tube | <10 mg/m3 | <2.3 ppm | 8/13/2008 | mdm NIOSH 1501 | 30.0 |
| Sample ID: CRH0527-03 (Air Effluent) | | Sample Air Volume: 5.0 L | | Sampled: 08/07/08 | | |
| Benzene | <20.0ug/tube | <4 mg/m3 | <1.25 ppm | 8/13/2008 | mdm NIOSH 1501 | 20.0 |
| Ethylbenzene | <20.0ug/tube | <4 mg/m3 | <0.92 ppm | 8/13/2008 | mdm NIOSH 1501 | 20.0 |
| Hydrocarbons, Total | <30.0ug/tube | <6 mg/m3 | --- ppm | 8/14/2008 | mdm NIOSH 1550 | 30.0 |
| Toluene | <20.0ug/tube | <4 mg/m3 | <1.06 ppm | 8/13/2008 | mdm NIOSH 1501 | 20.0 |
| Xylenes, total | <30.0ug/tube | <6 mg/m3 | <1.38 ppm | 8/13/2008 | mdm NIOSH 1501 | 30.0 |

TestAmerica

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613
800-750-2401 • 319-277-2425 FAX

THE LEADER IN ENVIRONMENTAL TESTING

IH Sample Receipt Form

Client: URS Project: Xcel Energy

City: Milwaukee

Date: 8/11/08 Receiver's Initials: W Time (Delivered): 2:40

COC Completed Correctly? Yes No
(Cite inconsistencies below)

Sample Checklist (Check indicates conformance failure) Couriers

| | | | |
|--------------------------|-----------------|--------------------------|----------------------------|
| <input type="checkbox"/> | Received Broken | <input type="checkbox"/> | Information Missing |
| <input type="checkbox"/> | Improper Media | <input type="checkbox"/> | Missing Sample |
| <input type="checkbox"/> | Missing Label | <input type="checkbox"/> | Sample Past Hold Date |
| <input type="checkbox"/> | Temperature | <input type="checkbox"/> | Extra Sample |
| <input type="checkbox"/> | COC Discrepancy | <input type="checkbox"/> | Insufficient Sample Volume |
| <input type="checkbox"/> | Other: | | |

| | |
|---|--|
| <input type="checkbox"/> UPS | <input type="checkbox"/> TA Courier |
| <input type="checkbox"/> FedEx | <input type="checkbox"/> TA Field Services |
| <input type="checkbox"/> DHL | <input type="checkbox"/> Client |
| <input checked="" type="checkbox"/> USPS | <input type="checkbox"/> Other |
| <input type="checkbox"/> Spee-Dee | |
| <input type="checkbox"/> Samples Not Received in a Cooler | |
| <input type="checkbox"/> Temperature Not Taken | |

Reviewed By SD Date 8/10/08

Comments OK 12 SD

Remarks/Action Taken:

Initial/Date: