

ASHLAND/NSP LAKEFRONT SITE
APRIL 15, 2008 PROGRESS REPORT (No. 53)
WDNR BRRTS #02-02-00013
CERCLA Docket No. V-W-04-C-764
USEPA ID# WISFN057952

This is the fifty-third 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 March 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 free-product recovery system operated continuously from March 7th until April 2nd. However, free-product was only recovered between March 7th and 10th, and between March 28th and April 2nd. As described in the March (No. 52) report, system monitoring on the 10th found nearly 204 gallons of product settled at the base of the oil-water separator. This material was transferred to the storage tank on that date, and all other system components continued to operate normally throughout the month. Only an additional 8 gallons was collected in the tank between March 28th and April 2nd. Although this 212 gallon volume yields a constant rate of more than 8 gallons/day during the 26-day period, the data shows that since early December the recovery rate has averaged approximately 3.4 gallons/day.¹

The total discharge to the sanitary sewer during this same 26-day period was 22,600 gallons. This total includes 14,464 gallons collected from EW-4 between March 7th and March 28th (the meter battery had failed sometime before the later date, and not yet replaced by April 2nd). Incremental measurements for the EW-4 extraction well included 962 gallons between March 7th and 10th; 9,755 gallons between the 10th and 20th, and 3,747 gallons between the 20th and 28th. The rapid increase after March 10th is the likely cause of the absence in free-product recovery after this date. This increase at EW-4, which corresponds to the time of increasing ambient temperatures, likely overwhelmed the combined system recovery from the deeper extraction wells screened in the Copper Falls Aquifer. As the flow approached normal levels later in the month, free-product recovery was again measurable.

March water quality data confirms that the liquid phase treatment system continues to operate properly. The concentration of total VOCs measured at the influent was 6,165 µg/l, and the total at the effluent was 0.34 µg/l. The quarterly samples for PAHs yielded similar results.² The concentration of total PAHs measured at the influent was 4,649 µg/l, compared to 3.32 µg/l measured at the effluent.

Air monitoring samples were unintentionally not collected during March.

The summary of system monitoring data is included in Tables 1 – 4. Lab analysis reports for the system monitoring samples are included in the Appendix.

¹ It was incorrectly reported in the March (No. 52) report that the average recovery rate between December 6, 2007 and March 7, 2008 was 2.6 gal/day. This correct rate during this period was about 4.6 gal/day.

² PAHs are only collected during March, June, September and December

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Coleman Engineering was notified by NSPW that employees had observed a water/free-product mixture slowly discharging from two floor drains in the car barn area (the southwest corner) of the service center, near Prentice Avenue, on April 2nd. Coleman inspected the site the following day, and found the water levels in both drains at floor level. Both drains were confirmed by on-site records to be open sumps with no outlets (located east of the former ravine and the former MGP holders). The mixture, reported to have the odor of transmission fluid, was bailed from each drain and containerized, then discharged to the treatment system. After bailing the mixture, water levels stabilized in the drains at 7-inches and 10-inches below the floor level. Coleman concluded that the incursion was caused by the rise in the spring water table below the floor, and that the product was caused by several decades of accumulation of small drips from vehicle maintenance.

RI Activities

All RI field activities were completed during November 2005.

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.

USEPA's final report on the demonstration is pending.

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.

Reporting Activities Completed

Final RI Report

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

Draft Comparative Analysis of Alternatives Memorandum/Draft FS

NSPW submitted the revised draft Comparative Analysis of Alternatives Memorandum (CAA) to USEPA on October 5, 2007; the draft Feasibility Study (FS) was submitted on October 29, 2007.

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As mentioned in the March (No. 52) report, representatives from NSPW, USEPA and WDNR met on March 3rd to discuss the Agencies' review comments to the draft FS. The representatives subsequently held conference calls to discuss the final format for the revised draft FS on March 17th, March 28th and April 3rd. The revised format will include a new chapter that integrates the remedial alternatives for the upland and sediment affected areas in a series of nine scenarios. The purpose of this integrated approach is to provide the National Remedy Review board a range of combined alternatives from which a proposed remedial plan will be developed.

Field Activities Planned

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

Reporting Activities Planned

NSPW and the Agencies confirmed during the April 3rd conference call that the submittal date for the revised draft FS will be May 15, 2008.

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

Attachments:

- Table 1 - Remediation System Water Quality Monitoring Results
- Table 2 - Summary of Free-Product and Groundwater Volume Removed
- Table 3 – Remediation System – Air Treatment Summary
- Table 4 – Remediation System – Water Treatment Summary

Appendix – Interim Treatment System - Laboratory Reporting Forms

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

March 2008

| Analyte | Units | Influent | Precarbon | Effluent | Trip Blank | (1)POTW | Method | (3)Frequency |
|--------------------------------|-------|--------------|--------------|--------------|------------|----------------|----------|--------------|
| VOCs | | | | | | | | |
| 1,1,1,2-TETRACHLOROETHANE | ug/L | <54 | <0.22 | <0.22 | <0.22 | -- | EPA 8260 | Monthly |
| 1,1,1-TRICHLOROETHANE | ug/L | <45 | <0.18 | <0.18 | <0.18 | -- | EPA 8260 | Monthly |
| 1,1,2,2-TETRACHLOROETHANE | ug/L | <45 | <0.18 | <0.18 | <0.18 | -- | EPA 8260 | Monthly |
| 1,1,2-TRICHLOROETHANE | ug/L | <41 | <0.16 | <0.16 | <0.16 | -- | EPA 8260 | Monthly |
| 1,1-DICHLOROETHANE | ug/L | <53 | <0.21 | <0.21 | <0.21 | -- | EPA 8260 | Monthly |
| 1,1-DICHLOROETHENE | ug/L | <60 | <0.24 | <0.24 | <0.24 | -- | EPA 8260 | Monthly |
| 1,1-DICHLOROPROPENE | ug/L | <45 | <0.18 | <0.18 | <0.18 | -- | EPA 8260 | Monthly |
| 1,2,3-TRICHLOROBENZENE | ug/L | <49 | <0.2 | <0.2 | <0.2 | -- | EPA 8260 | Monthly |
| 1,2,3-TRICHLOROPROPANE | ug/L | <51 | <0.2 | <0.2 | <0.2 | -- | EPA 8260 | Monthly |
| 1,2,4-TRICHLOROBENZENE | ug/L | <48 | <0.19 | <0.19 | <0.19 | -- | EPA 8260 | Monthly |
| 1,2,4-TRIMETHYLBENZENE | ug/L | 75J | 2 | <0.22 | <0.22 | -- | EPA 8260 | Monthly |
| 1,2-DIBROMO-3-CHLOROPROPANE | ug/L | <44 | <0.17 | <0.17 | <0.17 | -- | EPA 8260 | Monthly |
| 1,2-DIBROMOETHANE | ug/L | <37 | <0.15 | <0.15 | <0.15 | -- | EPA 8260 | Monthly |
| 1,2-DICHLOROBENZENE | ug/L | <55 | <0.22 | <0.22 | <0.22 | -- | EPA 8260 | Monthly |
| 1,2-DICHLOROETHANE | ug/L | <39 | <0.15 | <0.15 | <0.15 | -- | EPA 8260 | Monthly |
| 1,2-DICHLOROPROPANE | ug/L | <56 | <0.23 | <0.23 | <0.23 | -- | EPA 8260 | Monthly |
| 1,3,5-TRIMETHYLBENZENE | ug/L | <61 | 0.84J | <0.24 | <0.24 | -- | EPA 8260 | Monthly |
| 1,3-DICHLOROBENZENE | ug/L | <54 | <0.21 | <0.21 | <0.21 | -- | EPA 8260 | Monthly |
| 1,3-DICHLOROPROPANE | ug/L | <42 | <0.17 | <0.17 | <0.17 | -- | EPA 8260 | Monthly |
| 1,4-DICHLOROBENZENE | ug/L | <46 | <0.18 | <0.18 | <0.18 | -- | EPA 8260 | Monthly |
| 2,2-DICHLOROPROPANE | ug/L | <42 | <0.17 | <0.17 | <0.17 | -- | EPA 8260 | Monthly |
| 2-CHLOROTOLUENE | ug/L | <58 | <0.23 | <0.23 | <0.23 | -- | EPA 8260 | Monthly |
| 4-CHLOROTOLUENE | ug/L | <60 | <0.24 | <0.24 | <0.24 | -- | EPA 8260 | Monthly |
| BENZENE | ug/L | 1700 | 2.9 | <0.21 | <0.21 | -- | EPA 8260 | Monthly |
| BROMOBENZENE | ug/L | <61 | <0.24 | <0.24 | <0.24 | -- | EPA 8260 | Monthly |
| BROMOCHLOROMETHANE | ug/L | <46 | <0.18 | <0.18 | <0.18 | -- | EPA 8260 | Monthly |
| BROMODICHLOROMETHANE | ug/L | <43 | <0.17 | <0.17 | <0.17 | -- | EPA 8260 | Monthly |
| BROMOFORM | ug/L | <35 | <0.14 | <0.14 | <0.14 | -- | EPA 8260 | Monthly |
| BROMOMETHANE | ug/L | <28 | <0.11 | <0.11 | <0.11 | -- | EPA 8260 | Monthly |
| CARBON TETRACHLORIDE | ug/L | <54 | <0.22 | <0.22 | <0.22 | -- | EPA 8260 | Monthly |
| CHLOROETHANE | ug/L | <57 | <0.23 | <0.23 | <0.23 | -- | EPA 8260 | Monthly |
| CHLOROETHANE | ug/L | <220 | <0.88 | <0.88 | <0.88 | -- | EPA 8260 | Monthly |
| CHLOROFORM | ug/L | <50 | <0.2 | 0.34J | <0.2 | -- | EPA 8260 | Monthly |
| CHLOROMETHANE | ug/L | <37 | <0.15 | <0.15 | <0.15 | -- | EPA 8260 | Monthly |
| CIS-1,2-DICHLOROETHYLENE | ug/L | <52 | <0.21 | <0.21 | <0.21 | -- | EPA 8260 | Monthly |
| CIS-1,3-DICHLOROPROPENE | ug/L | <38 | <0.15 | <0.15 | <0.15 | -- | EPA 8260 | Monthly |
| CYMENE | ug/L | <58 | <0.23 | <0.23 | <0.23 | -- | EPA 8260 | Monthly |
| DIBROMOCHLOROMETHANE | ug/L | <42 | <0.17 | <0.17 | <0.17 | -- | EPA 8260 | Monthly |
| DIBROMOMETHANE | ug/L | <43 | <0.17 | <0.17 | <0.17 | -- | EPA 8260 | Monthly |
| DICHLORODIFLUOROMETHANE | ug/L | <36 | <0.15 | <0.15 | <0.15 | -- | EPA 8260 | Monthly |
| ETHYLBENZENE | ug/L | <57 | 0.41J | <0.23 | <0.23 | -- | EPA 8260 | Monthly |
| HEXACHLOROBUTADIENE | ug/L | <69 | <0.28 | <0.28 | <0.28 | -- | EPA 8260 | Monthly |
| ISOPROPYL ETHER | ug/L | <47 | <0.19 | <0.19 | <0.19 | -- | EPA 8260 | Monthly |
| ISOPROPYLBENZENE (CUMENE) | ug/L | <52 | <0.21 | <0.21 | <0.21 | -- | EPA 8260 | Monthly |
| M,P-XYLENE (SUM OF ISOMERS) | ug/L | 290 | 3.9 | <0.43 | <0.43 | -- | EPA 8260 | Monthly |
| METHYLENE CHLORIDE | ug/L | <100 | <0.4 | <0.4 | <0.4 | -- | EPA 8260 | Monthly |
| NAPHTHALENE | ug/L | 2300 | 14 | <0.25 | <0.25 | -- | EPA 8260 | Monthly |
| N-BUTYLBENZENE | ug/L | <58 | <0.23 | <0.23 | <0.23 | -- | EPA 8260 | Monthly |
| N-PROPYLBENZENE | ug/L | <58 | <0.23 | <0.23 | <0.23 | -- | EPA 8260 | Monthly |
| O-XYLENE (1,2-DIMETHYLBENZENE) | ug/L | 180J | 1.2 | <0.23 | <0.23 | -- | EPA 8260 | Monthly |
| SEC-BUTYLBENZENE | ug/L | <60 | <0.24 | <0.24 | <0.24 | -- | EPA 8260 | Monthly |
| STYRENE | ug/L | 420 | 1.4 | <0.24 | <0.24 | -- | EPA 8260 | Monthly |
| T-BUTYLBENZENE | ug/L | <64 | <0.26 | <0.26 | <0.26 | -- | EPA 8260 | Monthly |
| TERT-BUTYL METHYL ETHER | ug/L | <29 | <0.12 | <0.12 | <0.12 | -- | EPA 8260 | Monthly |
| TETRACHLOROETHYLENE (PCE) | ug/L | <53 | <0.21 | <0.21 | <0.21 | -- | EPA 8260 | Monthly |
| TOLUENE | ug/L | 1200 | 2.3 | <0.2 | <0.2 | -- | EPA 8260 | Monthly |
| TRANS-1,2-DICHLOROETHENE | ug/L | <55 | <0.22 | <0.22 | <0.22 | -- | EPA 8260 | Monthly |
| TRANS-1,3-DICHLOROPROPENE | ug/L | <37 | <0.15 | <0.15 | <0.15 | -- | EPA 8260 | Monthly |
| TRICHLOROETHYLENE (TCE) | ug/L | <50 | <0.2 | <0.2 | <0.2 | -- | EPA 8260 | Monthly |
| TRICHLOROFLUOROMETHANE | ug/L | <32 | <0.13 | <0.13 | <0.13 | -- | EPA 8260 | Monthly |
| VINYL CHLORIDE | ug/L | <43 | <0.17 | <0.17 | <0.17 | -- | EPA 8260 | Monthly |
| Total VOCs | ug/L | 6,165 | 29.0 | 0.34 | 0 | (2)1000 | | |

Collected March 10, 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 1
Remediation System Water Quality Monitoring Results
Northern States Power, Ashland, Wisconsin**

March 2008

| Analyte | Units | Influent | Precarbon | Effluent | Trip Blank | ⁽¹⁾ POTW | Method | Frequency |
|-------------------------------|----------|----------------|----------------|---------------|----------------|----------------------------|--------------|-------------|
| PAHs, DRO, GRO | | | | | | | | |
| 1-METHYLNAPHTHALENE | ug/L | 1000 | ⁽⁴⁾ | <0.017 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| 2-METHYLNAPHTHALENE | ug/L | 780 | ⁽⁴⁾ | <0.024 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| ACENAPHTHENE | ug/L | 41 | ⁽⁴⁾ | <0.019 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| ACENAPHTHYLENE | ug/L | 420 | ⁽⁴⁾ | 0.14 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| ANTHRACENE | ug/L | 140 | ⁽⁴⁾ | 0.022J | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| BENZO(A)ANTHRACENE | ug/L | 95 | ⁽⁴⁾ | 0.36 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| BENZO(A)PYRENE | ug/L | 71 | ⁽⁴⁾ | 0.41 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| BENZO(B)FLUORANTHENE | ug/L | 61 | ⁽⁴⁾ | 0.38 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| BENZO(G,H,I)PERYLENE | ug/L | 29 | ⁽⁴⁾ | 0.24 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| BENZO(K)FLUORANTHENE | ug/L | 21 | ⁽⁴⁾ | 0.19 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| CHRYSENE | ug/L | 56 | ⁽⁴⁾ | 0.21 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| DIBENZO(A,H)ANTHRACENE | ug/L | 8.2J | ⁽⁴⁾ | 0.1 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| FLUORANTHENE | ug/L | 170 | ⁽⁴⁾ | 0.42 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| FLUORENE | ug/L | 180 | ⁽⁴⁾ | <0.017 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| INDENO(1,2,3-C,D)PYRENE | ug/L | 27 | ⁽⁴⁾ | 0.22 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| NAPHTHALENE | ug/L | 890 | ⁽⁴⁾ | <0.024 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| PHENANTHRENE | ug/L | 450 | ⁽⁴⁾ | <0.021 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| PYRENE | ug/L | 210 | ⁽⁴⁾ | 0.63 | ⁽⁴⁾ | -- | SW8270C | Quarterly |
| DIESEL RANGE ORGANICS (DRO) | mg/L | ⁽⁴⁾ | ⁽⁴⁾ | <0.021 | ⁽⁴⁾ | 50 | WI MOD DRO | Semi-Annual |
| GASOLINE RANGE ORGANICS (GRO) | mg/L | ⁽⁴⁾ | ⁽⁴⁾ | <0.015 | ⁽⁴⁾ | 50 | WI MOD GRO | Semi-Annual |
| Total PAHs | ug/L | 4,649 | | 3.32 | | ⁽²⁾ 1000 | | |
| Inorganics | | | | | | | | |
| CADMIUM, TOTAL (UG/L CD) | ug/L | ⁽⁴⁾ | ⁽⁴⁾ | 1.3 | ⁽⁴⁾ | 110 | SW6010 | Semi-Annual |
| CHROMIUM, TOTAL (UG/L CR) | ug/L | ⁽⁴⁾ | ⁽⁴⁾ | <1 | ⁽⁴⁾ | 2500 | SW6010 | Semi-Annual |
| COPPER, TOTAL (UG/L CU) | ug/L | ⁽⁴⁾ | ⁽⁴⁾ | 7.5 | ⁽⁴⁾ | 2000 | SW6010 | Semi-Annual |
| LEAD, TOTAL (UG/L PB) | ug/L | ⁽⁴⁾ | ⁽⁴⁾ | 17 | ⁽⁴⁾ | 100 | SW6010 | Semi-Annual |
| MERCURY, TOTAL (UG/L HG) | ug/L | ⁽⁴⁾ | ⁽⁴⁾ | <0.025 | ⁽⁴⁾ | 0.5 | 245.7M/1631M | Semi-Annual |
| OIL & GREASE, TOTAL REC | mg/L | ⁽⁴⁾ | ⁽⁴⁾ | 20 | ⁽⁴⁾ | -- | SW1664 | Quarterly |
| PH, LAB (STANDARD UNITS) | pH units | ⁽⁴⁾ | ⁽⁴⁾ | 7.88 | ⁽⁴⁾ | 5.5<pH>9.5 | SW9040 | Semi-Annual |
| PHOSPHORUS, TOTAL (MG/L P) | mg/L | ⁽⁴⁾ | ⁽⁴⁾ | 0.08 | ⁽⁴⁾ | 5 | E365.2 | Semi-Annual |

Collected March 10, 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

⁽⁴⁾ Parameter not analyzed

Table 2
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 2
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 2
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 2
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 2
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 |

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 3
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 |

- (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 4
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 |

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

Appendix

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: 115946

NLS Customer: 91206

Fax: 414 831 4101 Phone: 414 831 4100

Project: Xcel Energy - Ashland

Influent NLS ID: 470287

COC: 106533:1 Matrix: GW
 Collected: 03/10/08 00:00 Received: 03/12/08

| Parameter | Result | Units | Dilution | LOD | LOQ | Analyzed | Method | Lab |
|---|--------------|-------|----------|-----|-----|----------|-------------|-----------|
| VOCs (water) by EPA Method 8260B | see attached | | | | | 03/18/08 | SW846 8260 | 721026460 |
| PAH (water) by EPA Method 8270C - SIM | see attached | | | | | 04/01/08 | SW846 8270C | 721026460 |
| Organics Extraction PAH (water) EPA 8270C - SIM | yes | | | | | 03/14/08 | EPA 8270C | 721026460 |

Pre Carbon NLS ID: 470288

COC: 106533:2 Matrix: GW
 Collected: 03/10/08 00:00 Received: 03/12/08

| Parameter | Result | Units | Dilution | LOD | LOQ | Analyzed | Method | Lab |
|----------------------------------|--------------|-------|----------|-----|-----|----------|------------|-----------|
| VOCs (water) by EPA Method 8260B | see attached | | | | | 03/18/08 | SW846 8260 | 721026460 |

Effluent NLS ID: 470289

COC: 106533:3 Matrix: GW
 Collected: 03/10/08 00:00 Received: 03/12/08

| Parameter | Result | Units | Dilution | LOD | LOQ | Analyzed | Method | Lab |
|---|---|-------|----------|---------|-------|----------|---------------|-----------|
| Cadmium, tot. recoverable as Cd by ICP-Trace | 1.3 | ug/L | 1 | 0.17 | 0.55 | 03/17/08 | SW846 6010 | 721026460 |
| Chromium, tot. recoverable as Cr by ICP-Trace | ND | ug/L | 1 | 1.0 | 3.3 | 03/17/08 | SW846 6010 | 721026460 |
| Copper, tot. recoverable as Cu by ICP-Trace | 7.5 | ug/L | 1 | 1.3 | 4.0 | 03/17/08 | SW846 6010 | 721026460 |
| Lead, tot. recoverable as Pb by ICP-Trace | 17 | ug/L | 1 | 1.3 | 4.1 | 03/17/08 | SW846 6010 | 721026460 |
| Mercury, tot. as Hg | ND | ug/L | 1 | 0.025 | 0.050 | 03/20/08 | 245.7M/ 1631M | 721026460 |
| Oil and Grease, water (hexane) | 20 | mg/L | 1 | 1.1 | 3.8 | 03/14/08 | EPA 1664 | 721026460 |
| pH, Lab | 7.88 | s.u. | 1 | | | 03/14/08 | SW846 9040 | 721026460 |
| Phosphorus, tot. as P | 0.080 | mg/L | 1 | 0.0070* | | 03/20/08 | EPA 365.2 | 721026460 |
| Metals digestion - tot. recov. ICP | yes | | | | | 03/13/08 | SW846 3005M | 721026460 |
| VOCs (water) by EPA Method 8260B | see attached | | | | | 03/14/08 | SW846 8260 | 721026460 |
| GRO (water) | ND | mg/L | 1 | 0.015 | 0.050 | 03/20/08 | WI MOD GRO | 721026460 |
| | Surrogate-109%. | | | | | | | |
| DRO (water) | ND | mg/L | 1 | 0.021 | 0.074 | 03/26/08 | WI MOD DRO | 721026460 |
| | spike-76%, duplicate-84%, surrogate-91% | | | | | | | |
| Organics Extraction (DRO WATER) | yes | | | | | 03/17/08 | WI MOD DRO | 721026460 |
| PAH (water) by EPA Method 8270C - SIM | see attached | | | | | 03/26/08 | SW846 8270C | 721026460 |
| Organics Extraction PAH (water) EPA 8270C - SIM | yes | | | | | 03/14/08 | EPA 8270C | 721026460 |

Trip Blank NLS ID: 470290

COC: 106533 Matrix: TB
 Collected: 03/10/08 00:00 Received: 03/12/08

| Parameter | Result | Units | Dilution | LOD | LOQ | Analyzed | Method | Lab |
|----------------------------------|--------------|-------|----------|-----|-----|----------|------------|-----------|
| VOCs (water) by EPA Method 8260B | see attached | | | | | 03/14/08 | 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

Customer: URS Corporation (Milwaukee) NLS Project: 115946

Project Description: Xcel Energy - Ashland

Project Title: Template: SAT2W Printed: 04/08/2008 11:13

Sample: 470287 Influent Collected: 03/10/08 Analyzed: 03/18/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|-----------------------------|--------|-------|-----|-----|-----|------|
| Benzene | 1700 | ug/L | 250 | 53 | 190 | |
| Bromobenzene | ND | ug/L | 250 | 61 | 220 | |
| Bromochloromethane | ND | ug/L | 250 | 46 | 160 | |
| Bromodichloromethane | ND | ug/L | 250 | 43 | 150 | |
| Bromoform | ND | ug/L | 250 | 35 | 120 | |
| Bromomethane | ND | ug/L | 250 | 28 | 100 | CC |
| n-Butylbenzene | ND | ug/L | 250 | 58 | 210 | |
| sec-Butylbenzene | ND | ug/L | 250 | 60 | 210 | |
| tert-Butylbenzene | ND | ug/L | 250 | 64 | 230 | |
| Carbon Tetrachloride | ND | ug/L | 250 | 54 | 190 | |
| Chlorobenzene | ND | ug/L | 250 | 57 | 200 | |
| Chloroethane | ND | ug/L | 250 | 220 | 780 | |
| Chloroform | ND | ug/L | 250 | 50 | 180 | |
| Chloromethane | ND | ug/L | 250 | 37 | 130 | |
| 2-Chlorotoluene | ND | ug/L | 250 | 58 | 200 | |
| 4-Chlorotoluene | ND | ug/L | 250 | 60 | 210 | |
| Dibromochloromethane | ND | ug/L | 250 | 42 | 150 | |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 250 | 44 | 150 | |
| 1,2-Dibromoethane | ND | ug/L | 250 | 37 | 130 | |
| Dibromomethane | ND | ug/L | 250 | 43 | 150 | |
| 1,2-Dichlorobenzene | ND | ug/L | 250 | 55 | 190 | |
| 1,3-Dichlorobenzene | ND | ug/L | 250 | 54 | 190 | |
| 1,4-Dichlorobenzene | ND | ug/L | 250 | 46 | 160 | |
| Dichlorodifluoromethane | ND | ug/L | 250 | 36 | 130 | |
| 1,1-Dichloroethane | ND | ug/L | 250 | 53 | 190 | |
| 1,2-Dichloroethane | ND | ug/L | 250 | 39 | 140 | |
| 1,1-Dichloroethene | ND | ug/L | 250 | 60 | 210 | |
| cis-1,2-Dichloroethene | ND | ug/L | 250 | 52 | 190 | |
| trans-1,2-Dichloroethene | ND | ug/L | 250 | 55 | 190 | |
| 1,2-Dichloropropane | ND | ug/L | 250 | 56 | 200 | |
| 1,3-Dichloropropane | ND | ug/L | 250 | 42 | 150 | |
| 2,2-Dichloropropane | ND | ug/L | 250 | 42 | 150 | |
| 1,1-Dichloropropene | ND | ug/L | 250 | 45 | 160 | |
| cis-1,3-Dichloropropene | ND | ug/L | 250 | 38 | 130 | |
| trans-1,3-Dichloropropene | ND | ug/L | 250 | 37 | 130 | |
| Ethylbenzene | ND | ug/L | 250 | 57 | 200 | |
| Hexachlorobutadiene | ND | ug/L | 250 | 69 | 240 | |
| Isopropylbenzene | ND | ug/L | 250 | 52 | 180 | |
| p-Isopropyltoluene | ND | ug/L | 250 | 58 | 200 | |
| Methylene chloride | ND | ug/L | 250 | 100 | 180 | |
| Naphthalene | 2300 | ug/L | 250 | 61 | 220 | |
| n-Propylbenzene | ND | ug/L | 250 | 58 | 200 | |
| ortho-Xylene | [180] | ug/L | 250 | 59 | 210 | |
| Styrene | 420 | ug/L | 250 | 60 | 210 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 250 | 54 | 190 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 250 | 45 | 160 | |
| Tetrachloroethene | ND | ug/L | 250 | 53 | 190 | |
| Toluene | 1200 | ug/L | 250 | 50 | 180 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 250 | 49 | 170 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 250 | 48 | 170 | |
| 1,1,1-Trichloroethane | ND | ug/L | 250 | 45 | 160 | |
| 1,1,2-Trichloroethane | ND | ug/L | 250 | 41 | 140 | |

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)**Customer: URS Corporation (Milwaukee) NLS Project: 115946****Project Description: Xcel Energy - Ashland****Project Title: Template: SAT2W Printed: 04/08/2008 11:13**

Sample: 470287 Influent Collected: 03/10/08 Analyzed: 03/18/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|--------------------------------|--------|-------|-----|-----|-----|------|
| Trichloroethene | ND | ug/L | 250 | 50 | 180 | |
| Trichlorofluoromethane | ND | ug/L | 250 | 32 | 110 | |
| 1,2,3-Trichloropropane | ND | ug/L | 250 | 51 | 180 | |
| 1,2,4-Trimethylbenzene | [75] | ug/L | 250 | 54 | 190 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 250 | 61 | 220 | |
| Vinyl chloride | ND | ug/L | 250 | 43 | 150 | |
| meta,para-Xylene | [290] | ug/L | 250 | 110 | 380 | |
| MTBE | ND | ug/L | 250 | 29 | 100 | |
| Isopropyl ether | ND | ug/L | 250 | 47 | 170 | |
| Dibromofluoromethane (SURR) | 98% | | | | | S |
| Toluene-d8 (SURR) | 101% | | | | | S |
| 1-Bromo-4-Fluorobenzene (SURR) | 101% | | | | | S |

NOTES APPLICABLE TO THIS ANALYSIS:

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

CC = Continuing calibration verification standard recovery was outside QC limits.

Bromomethane recovery 66%

Customer: URS Corporation (Milwaukee) NLS Project: 115946

Project Description: Xcel Energy - Ashland

Project Title: Template: SAT2W Printed: 04/08/2008 11:13

Sample: 470288 Pre Carbon Collected: 03/10/08 Analyzed: 03/18/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|-----------------------------|--------|-------|-----|------|------|------|
| Benzene | 2.9 | ug/L | 1 | 0.21 | 0.75 | |
| Bromobenzene | ND | ug/L | 1 | 0.24 | 0.86 | |
| Bromochloromethane | ND | ug/L | 1 | 0.18 | 0.65 | |
| Bromodichloromethane | ND | ug/L | 1 | 0.17 | 0.61 | |
| Bromoform | ND | ug/L | 1 | 0.14 | 0.50 | |
| Bromomethane | ND | ug/L | 1 | 0.11 | 0.40 | CC |
| n-Butylbenzene | ND | ug/L | 1 | 0.23 | 0.82 | |
| sec-Butylbenzene | ND | ug/L | 1 | 0.24 | 0.85 | |
| tert-Butylbenzene | ND | ug/L | 1 | 0.26 | 0.91 | |
| Carbon Tetrachloride | ND | ug/L | 1 | 0.22 | 0.76 | |
| Chlorobenzene | ND | ug/L | 1 | 0.23 | 0.80 | |
| Chloroethane | ND | ug/L | 1 | 0.88 | 3.1 | |
| Chloroform | ND | ug/L | 1 | 0.20 | 0.70 | |
| Chloromethane | ND | ug/L | 1 | 0.15 | 0.53 | |
| 2-Chlorotoluene | ND | ug/L | 1 | 0.23 | 0.82 | |
| 4-Chlorotoluene | ND | ug/L | 1 | 0.24 | 0.85 | |
| Dibromochloromethane | ND | ug/L | 1 | 0.17 | 0.60 | |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 1 | 0.17 | 0.62 | |
| 1,2-Dibromoethane | ND | ug/L | 1 | 0.15 | 0.52 | |
| Dibromomethane | ND | ug/L | 1 | 0.17 | 0.60 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1 | 0.22 | 0.77 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1 | 0.21 | 0.76 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1 | 0.18 | 0.65 | |
| Dichlorodifluoromethane | ND | ug/L | 1 | 0.15 | 0.52 | |
| 1,1-Dichloroethane | ND | ug/L | 1 | 0.21 | 0.75 | |
| 1,2-Dichloroethane | ND | ug/L | 1 | 0.15 | 0.55 | |
| 1,1-Dichloroethene | ND | ug/L | 1 | 0.24 | 0.85 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1 | 0.21 | 0.74 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1 | 0.22 | 0.77 | |
| 1,2-Dichloropropane | ND | ug/L | 1 | 0.23 | 0.80 | |
| 1,3-Dichloropropane | ND | ug/L | 1 | 0.17 | 0.59 | |
| 2,2-Dichloropropane | ND | ug/L | 1 | 0.17 | 0.60 | |
| 1,1-Dichloropropene | ND | ug/L | 1 | 0.18 | 0.63 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1 | 0.15 | 0.53 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1 | 0.15 | 0.53 | |
| Ethylbenzene | [0.41] | ug/L | 1 | 0.23 | 0.80 | |
| Hexachlorobutadiene | ND | ug/L | 1 | 0.28 | 0.98 | |
| Isopropylbenzene | ND | ug/L | 1 | 0.21 | 0.74 | |
| p-Isopropyltoluene | ND | ug/L | 1 | 0.23 | 0.81 | |
| Methylene chloride | ND | ug/L | 1 | 0.40 | 0.71 | |
| Naphthalene | 14 | ug/L | 1 | 0.25 | 0.87 | |
| n-Propylbenzene | ND | ug/L | 1 | 0.23 | 0.82 | |
| ortho-Xylene | 1.2 | ug/L | 1 | 0.23 | 0.83 | |
| Styrene | 1.4 | ug/L | 1 | 0.24 | 0.85 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1 | 0.22 | 0.76 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1 | 0.18 | 0.64 | |
| Tetrachloroethene | ND | ug/L | 1 | 0.21 | 0.76 | |
| Toluene | 2.3 | ug/L | 1 | 0.20 | 0.71 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1 | 0.20 | 0.70 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1 | 0.19 | 0.68 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1 | 0.18 | 0.63 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1 | 0.16 | 0.57 | |

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)**Customer: URS Corporation (Milwaukee) NLS Project: 115946****Project Description: Xcel Energy - Ashland****Project Title: Template: SAT2W Printed: 04/08/2008 11:13**

Sample: 470288 Pre Carbon Collected: 03/10/08 Analyzed: 03/18/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|--------------------------------|--------|-------|-----|------|------|------|
| Trichloroethene | ND | ug/L | 1 | 0.20 | 0.70 | |
| Trichlorofluoromethane | ND | ug/L | 1 | 0.13 | 0.46 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1 | 0.20 | 0.72 | |
| 1,2,4-Trimethylbenzene | 2.0 | ug/L | 1 | 0.22 | 0.76 | |
| 1,3,5-Trimethylbenzene | [0.84] | ug/L | 1 | 0.24 | 0.86 | |
| Vinyl chloride | ND | ug/L | 1 | 0.17 | 0.61 | |
| meta,para-Xylene | 3.9 | ug/L | 1 | 0.43 | 1.5 | |
| MTBE | ND | ug/L | 1 | 0.12 | 0.41 | |
| Isopropyl ether | ND | ug/L | 1 | 0.19 | 0.66 | |
| Dibromofluoromethane (SURR) | 92% | | | | | S |
| Toluene-d8 (SURR) | 91% | | | | | S |
| 1-Bromo-4-Fluorobenzene (SURR) | 92% | | | | | S |

NOTES APPLICABLE TO THIS ANALYSIS:

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

CC = Continuing calibration verification standard recovery was outside QC limits.

Bromomethane recovery 66%

Customer: URS Corporation (Milwaukee) NLS Project: 115946

Project Description: Xcel Energy - Ashland

Project Title: Template: SAT2W Printed: 04/08/2008 11:13

Sample: 470289 Effluent Collected: 03/10/08 Analyzed: 03/14/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|-----------------------------|--------|-------|-----|------|------|------|
| Benzene | ND | ug/L | 1 | 0.21 | 0.75 | |
| Bromobenzene | ND | ug/L | 1 | 0.24 | 0.86 | |
| Bromochloromethane | ND | ug/L | 1 | 0.18 | 0.65 | |
| Bromodichloromethane | ND | ug/L | 1 | 0.17 | 0.61 | |
| Bromoform | ND | ug/L | 1 | 0.14 | 0.50 | |
| Bromomethane | ND | ug/L | 1 | 0.11 | 0.40 | |
| n-Butylbenzene | ND | ug/L | 1 | 0.23 | 0.82 | |
| sec-Butylbenzene | ND | ug/L | 1 | 0.24 | 0.85 | |
| tert-Butylbenzene | ND | ug/L | 1 | 0.26 | 0.91 | |
| Carbon Tetrachloride | ND | ug/L | 1 | 0.22 | 0.76 | |
| Chlorobenzene | ND | ug/L | 1 | 0.23 | 0.80 | |
| Chloroethane | ND | ug/L | 1 | 0.88 | 3.1 | |
| Chloroform | [0.34] | ug/L | 1 | 0.20 | 0.70 | |
| Chloromethane | ND | ug/L | 1 | 0.15 | 0.53 | |
| 2-Chlorotoluene | ND | ug/L | 1 | 0.23 | 0.82 | |
| 4-Chlorotoluene | ND | ug/L | 1 | 0.24 | 0.85 | |
| Dibromochloromethane | ND | ug/L | 1 | 0.17 | 0.60 | |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 1 | 0.17 | 0.62 | |
| 1,2-Dibromoethane | ND | ug/L | 1 | 0.15 | 0.52 | |
| Dibromomethane | ND | ug/L | 1 | 0.17 | 0.60 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1 | 0.22 | 0.77 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1 | 0.21 | 0.76 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1 | 0.18 | 0.65 | |
| Dichlorodifluoromethane | ND | ug/L | 1 | 0.15 | 0.52 | |
| 1,1-Dichloroethane | ND | ug/L | 1 | 0.21 | 0.75 | |
| 1,2-Dichloroethane | ND | ug/L | 1 | 0.15 | 0.55 | |
| 1,1-Dichloroethene | ND | ug/L | 1 | 0.24 | 0.85 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1 | 0.21 | 0.74 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1 | 0.22 | 0.77 | |
| 1,2-Dichloropropane | ND | ug/L | 1 | 0.23 | 0.80 | |
| 1,3-Dichloropropane | ND | ug/L | 1 | 0.17 | 0.59 | |
| 2,2-Dichloropropane | ND | ug/L | 1 | 0.17 | 0.60 | |
| 1,1-Dichloropropene | ND | ug/L | 1 | 0.18 | 0.63 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1 | 0.15 | 0.53 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1 | 0.15 | 0.53 | |
| Ethylbenzene | ND | ug/L | 1 | 0.23 | 0.80 | |
| Hexachlorobutadiene | ND | ug/L | 1 | 0.28 | 0.98 | |
| Isopropylbenzene | ND | ug/L | 1 | 0.21 | 0.74 | |
| p-Isopropyltoluene | ND | ug/L | 1 | 0.23 | 0.81 | |
| Methylene chloride | ND | ug/L | 1 | 0.40 | 0.71 | |
| Naphthalene | ND | ug/L | 1 | 0.25 | 0.87 | |
| n-Propylbenzene | ND | ug/L | 1 | 0.23 | 0.82 | |
| ortho-Xylene | ND | ug/L | 1 | 0.23 | 0.83 | |
| Styrene | ND | ug/L | 1 | 0.24 | 0.85 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1 | 0.22 | 0.76 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1 | 0.18 | 0.64 | |
| Tetrachloroethene | ND | ug/L | 1 | 0.21 | 0.76 | |
| Toluene | ND | ug/L | 1 | 0.20 | 0.71 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1 | 0.20 | 0.70 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1 | 0.19 | 0.68 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1 | 0.18 | 0.63 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1 | 0.16 | 0.57 | |

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)**Customer: URS Corporation (Milwaukee) NLS Project: 115946****Project Description: Xcel Energy - Ashland****Project Title: Template: SAT2W Printed: 04/08/2008 11:13**

Sample: 470289 Effluent Collected: 03/10/08 Analyzed: 03/14/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|--------------------------------|--------|-------|-----|------|------|------|
| Trichloroethene | ND | ug/L | 1 | 0.20 | 0.70 | |
| Trichlorofluoromethane | ND | ug/L | 1 | 0.13 | 0.46 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1 | 0.20 | 0.72 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 1 | 0.22 | 0.76 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 1 | 0.24 | 0.86 | |
| Vinyl chloride | ND | ug/L | 1 | 0.17 | 0.61 | |
| meta,para-Xylene | ND | ug/L | 1 | 0.43 | 1.5 | |
| MTBE | ND | ug/L | 1 | 0.12 | 0.41 | |
| Isopropyl ether | ND | ug/L | 1 | 0.19 | 0.66 | |
| Dibromofluoromethane (SURR) | 96% | | | | | S |
| Toluene-d8 (SURR) | 90% | | | | | S |
| 1-Bromo-4-Fluorobenzene (SURR) | 93% | | | | | 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: 115946

Project Description: Xcel Energy - Ashland

Project Title: Template: SAT2W Printed: 04/08/2008 11:13

Sample: 470290 Trip Blank Collected: 03/10/08 Analyzed: 03/14/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|-----------------------------|--------|-------|-----|------|------|------|
| Benzene | ND | ug/L | 1 | 0.21 | 0.75 | |
| Bromobenzene | ND | ug/L | 1 | 0.24 | 0.86 | |
| Bromochloromethane | ND | ug/L | 1 | 0.18 | 0.65 | |
| Bromodichloromethane | ND | ug/L | 1 | 0.17 | 0.61 | |
| Bromoform | ND | ug/L | 1 | 0.14 | 0.50 | |
| Bromomethane | ND | ug/L | 1 | 0.11 | 0.40 | |
| n-Butylbenzene | ND | ug/L | 1 | 0.23 | 0.82 | |
| sec-Butylbenzene | ND | ug/L | 1 | 0.24 | 0.85 | |
| tert-Butylbenzene | ND | ug/L | 1 | 0.26 | 0.91 | |
| Carbon Tetrachloride | ND | ug/L | 1 | 0.22 | 0.76 | |
| Chlorobenzene | ND | ug/L | 1 | 0.23 | 0.80 | |
| Chloroethane | ND | ug/L | 1 | 0.88 | 3.1 | |
| Chloroform | ND | ug/L | 1 | 0.20 | 0.70 | |
| Chloromethane | ND | ug/L | 1 | 0.15 | 0.53 | |
| 2-Chlorotoluene | ND | ug/L | 1 | 0.23 | 0.82 | |
| 4-Chlorotoluene | ND | ug/L | 1 | 0.24 | 0.85 | |
| Dibromochloromethane | ND | ug/L | 1 | 0.17 | 0.60 | |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 1 | 0.17 | 0.62 | |
| 1,2-Dibromoethane | ND | ug/L | 1 | 0.15 | 0.52 | |
| Dibromomethane | ND | ug/L | 1 | 0.17 | 0.60 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1 | 0.22 | 0.77 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1 | 0.21 | 0.76 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1 | 0.18 | 0.65 | |
| Dichlorodifluoromethane | ND | ug/L | 1 | 0.15 | 0.52 | |
| 1,1-Dichloroethane | ND | ug/L | 1 | 0.21 | 0.75 | |
| 1,2-Dichloroethane | ND | ug/L | 1 | 0.15 | 0.55 | |
| 1,1-Dichloroethene | ND | ug/L | 1 | 0.24 | 0.85 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1 | 0.21 | 0.74 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1 | 0.22 | 0.77 | |
| 1,2-Dichloropropane | ND | ug/L | 1 | 0.23 | 0.80 | |
| 1,3-Dichloropropane | ND | ug/L | 1 | 0.17 | 0.59 | |
| 2,2-Dichloropropane | ND | ug/L | 1 | 0.17 | 0.60 | |
| 1,1-Dichloropropene | ND | ug/L | 1 | 0.18 | 0.63 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1 | 0.15 | 0.53 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1 | 0.15 | 0.53 | |
| Ethylbenzene | ND | ug/L | 1 | 0.23 | 0.80 | |
| Hexachlorobutadiene | ND | ug/L | 1 | 0.28 | 0.98 | |
| Isopropylbenzene | ND | ug/L | 1 | 0.21 | 0.74 | |
| p-Isopropyltoluene | ND | ug/L | 1 | 0.23 | 0.81 | |
| Methylene chloride | ND | ug/L | 1 | 0.40 | 0.71 | |
| Naphthalene | ND | ug/L | 1 | 0.25 | 0.87 | |
| n-Propylbenzene | ND | ug/L | 1 | 0.23 | 0.82 | |
| ortho-Xylene | ND | ug/L | 1 | 0.23 | 0.83 | |
| Styrene | ND | ug/L | 1 | 0.24 | 0.85 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1 | 0.22 | 0.76 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1 | 0.18 | 0.64 | |
| Tetrachloroethene | ND | ug/L | 1 | 0.21 | 0.76 | |
| Toluene | ND | ug/L | 1 | 0.20 | 0.71 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1 | 0.20 | 0.70 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1 | 0.19 | 0.68 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1 | 0.18 | 0.63 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1 | 0.16 | 0.57 | |

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)**Customer: URS Corporation (Milwaukee) NLS Project: 115946****Project Description: Xcel Energy - Ashland****Project Title: Template: SAT2W Printed: 04/08/2008 11:13**

Sample: 470290 Trip Blank Collected: 03/10/08 Analyzed: 03/14/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|--------------------------------|--------|-------|-----|------|------|------|
| Trichloroethene | ND | ug/L | 1 | 0.20 | 0.70 | |
| Trichlorofluoromethane | ND | ug/L | 1 | 0.13 | 0.46 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1 | 0.20 | 0.72 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 1 | 0.22 | 0.76 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 1 | 0.24 | 0.86 | |
| Vinyl chloride | ND | ug/L | 1 | 0.17 | 0.61 | |
| meta,para-Xylene | ND | ug/L | 1 | 0.43 | 1.5 | |
| MTBE | ND | ug/L | 1 | 0.12 | 0.41 | |
| Isopropyl ether | ND | ug/L | 1 | 0.19 | 0.66 | |
| Dibromofluoromethane (SURR) | 96% | | | | | S |
| Toluene-d8 (SURR) | 94% | | | | | S |
| 1-Bromo-4-Fluorobenzene (SURR) | 95% | | | | | S |

NOTES APPLICABLE TO THIS ANALYSIS:

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

ANALYTICAL RESULTS: Polynuclear Aromatic Hydrocarbons by EPA 8270C SIM**Customer: URS Corporation (Milwaukee) NLS Project: 115946****Project Description: Xcel Energy - Ashland****Project Title: Template: 8270PAHW Printed: 04/08/2008 11:13**

Sample: 470287 Influent Collected: 03/10/08 Analyzed: 04/01/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|--------------------------|--------|-------|-----|-----|-----|------|
| Acenaphthene | 41 | ug/L | 250 | 4.8 | 16 | |
| Acenaphthylene | 420 | ug/L | 250 | 4.0 | 13 | |
| Anthracene | 140 | ug/L | 250 | 4.5 | 15 | |
| Benzo (a) anthracene | 95 | ug/L | 250 | 3.0 | 10 | |
| Benzo (a) pyrene | 71 | ug/L | 250 | 3.5 | 12 | |
| Benzo (b) fluoranthene | 61 | ug/L | 250 | 4.3 | 14 | |
| Benzo (g,h,i) perylene | 29 | ug/L | 250 | 3.5 | 12 | |
| Benzo (k) fluoranthene | 21 | ug/L | 250 | 4.0 | 13 | |
| Chrysene | 56 | ug/L | 250 | 4.5 | 15 | |
| Dibenzo (a,h) anthracene | [8.2] | ug/L | 250 | 3.5 | 12 | |
| Fluoranthene | 170 | ug/L | 250 | 4.8 | 16 | |
| Fluorene | 180 | ug/L | 250 | 4.3 | 14 | |
| Indeno (1,2,3-cd) pyrene | 27 | ug/L | 250 | 3.0 | 10 | |
| Methyl-1-Naphthalene | 1000 | ug/L | 250 | 4.3 | 14 | LD |
| Methyl-2-Naphthalene | 780 | ug/L | 250 | 6.0 | 20 | CC |
| Naphthalene | 890 | ug/L | 250 | 6.0 | 20 | LD |
| Phenanthrene | 450 | ug/L | 250 | 5.3 | 17 | |
| Pyrene | 210 | ug/L | 250 | 5.0 | 17 | |
| Nitrobenzene-d5 (SURR) | 118% | | | | | SR S |
| 2-Fluorobiphenyl (SURR) | 98% | | | | | SR S |
| Terphenyl-d14 (SURR) | 67% | | | | | S |

NOTES APPLICABLE TO THIS ANALYSIS:

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

FV = Final extract volume is 10 mL.

CC = Continuing calibration verification standard recovery was outside QC limits.

Methyl-2-Naphthalene recovery 77%

LD = Laboratory control spike and laboratory control spike duplicate relative percent difference exceed QC limits.

SR = Surrogate recovery was outside QC limits.

2-Fluorobiphenyl recovered above QC limits.

Nitrobenzene-d5 recovered above QC limits.

ANALYTICAL RESULTS: Polynuclear Aromatic Hydrocarbons by EPA 8270C SIM

Customer: URS Corporation (Milwaukee) NLS Project: 115946

Project Description: Xcel Energy - Ashland

Project Title: Template: 8270PAHW Printed: 04/08/2008 11:13

Sample: 470289 Effluent Collected: 03/10/08 Analyzed: 03/26/08 -

| ANALYTE NAME | RESULT | UNITS | DIL | LOD | LOQ | Note |
|--------------------------|---------|-------|-----|-------|-------|------|
| Acenaphthene | ND | ug/L | 1 | 0.019 | 0.064 | |
| Acenaphthylene | 0.14 | ug/L | 1 | 0.016 | 0.052 | |
| Anthracene | [0.022] | ug/L | 1 | 0.018 | 0.061 | |
| Benzo (a) anthracene | 0.36 | ug/L | 1 | 0.012 | 0.041 | |
| Benzo (a) pyrene | 0.41 | ug/L | 1 | 0.014 | 0.047 | |
| Benzo (b) fluoranthene | 0.38 | ug/L | 1 | 0.017 | 0.057 | |
| Benzo (g,h,i) perylene | 0.24 | ug/L | 1 | 0.014 | 0.047 | |
| Benzo (k) fluoranthene | 0.19 | ug/L | 1 | 0.016 | 0.052 | |
| Chrysene | 0.21 | ug/L | 1 | 0.018 | 0.060 | |
| Dibenzo (a,h) anthracene | 0.10 | ug/L | 1 | 0.014 | 0.047 | |
| Fluoranthene | 0.42 | ug/L | 1 | 0.019 | 0.064 | |
| Fluorene | ND | ug/L | 1 | 0.017 | 0.055 | |
| Indeno (1,2,3-cd) pyrene | 0.22 | ug/L | 1 | 0.012 | 0.041 | |
| Methyl-1-Naphthalene | ND | ug/L | 1 | 0.017 | 0.057 | |
| Methyl-2-Naphthalene | ND | ug/L | 1 | 0.024 | 0.079 | |
| Naphthalene | ND | ug/L | 1 | 0.024 | 0.080 | |
| Phenanthrene | ND | ug/L | 1 | 0.021 | 0.069 | |
| Pyrene | 0.63 | ug/L | 1 | 0.020 | 0.068 | MS |
| Nitrobenzene-d5 (SURR) | 62% | | | | | S |
| 2-Fluorobiphenyl (SURR) | 74% | | | | | S |
| Terphenyl-d14 (SURR) | 80% | | | | | S |

NOTES APPLICABLE TO THIS ANALYSIS:

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

MS = Matrix spike recovery was outside QC limits.

Pyrene recovered above QC limits.