

GW - 114

8/93

## WORK PLANS

GW MONITORING

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# **WESTERN WATER CONSULTANTS, INC.**

*Engineering • Hydrology • Hydrogeology • Waste Management • Construction Administration*

611 SKYLINE ROAD, P.O. BOX 4128 • LARAMIE, WYOMING 82071 • (307) 742-0031 • FAX (307) 721-2913

August 25, 1993

**RECEIVED**

AUG 26 1996

Mr. John Miller  
Environmental Coordinator  
Dowell Schlumberger Incorporated  
300 Schlumberger Drive  
Sugarland, TX 77478

Environmental Bureau  
Oil Conservation Division

**Re: Groundwater Monitoring Activities at the Dowell Schlumberger Incorporated Facility in Artesia, New Mexico WWC JN 0125**

Dear John:

Per your direction, Western Water Consultants Inc. (WWC) conducted additional groundwater monitoring activities on June 22 and 23, 1993 at the Dowell Schlumberger Incorporated (Dowell) Facility in Artesia, New Mexico. Activities included; 1) purging/developing all site monitoring wells of approximately 10 well volumes, and 2) sampling monitoring well MW-3 for EPA Method 8240 analysis. Activities were approved by the State of New Mexico Environmental Department in a letter dated June 29, 1993.

Approximately 10 well volumes were removed from each monitoring well which is part of the semi-annual monitoring program network (Figure 1). A total of 15 were developed. Groundwater originating from monitoring well MW-1 and MW-4 was placed into the truck wash separator system on-site. Based on historical data these two wells contain only aromatic organic contaminants and are not considered hazardous. Ground-water originating from the remaining wells all contain chlorinated compounds and were thus containerized in 55 gallon barrels on-site. Hazardous labels were affixed to each barrel. A total of five barrels are currently being stored on the barrel storage pad at the Artesia facility. Proper disposal is being arranged for this material.

The second objective of this monitoring event was to obtain a sample from monitoring well MW-3. MW-3 was sampled on June 24, with the sample being sent to Cenref Laboratories of Brighton, Colorado for analysis of EPA Method 8240 volatile organic compounds. The laboratory data reports are contained in Attachment A. Table 1 contains the most recent MW-3 data.

#### OTHER LOCATIONS

1949 SUGARLAND DRIVE, SUITE 134  
SHERIDAN, WYOMING 82801  
(307) 672-0761  
FAX (307) 674-4265

701 ANTLER DRIVE, SUITE 233  
CASPER, WY 82601  
(307) 473-2707  
FAX (307) 237-0828

Mr. John Miller  
Page 2  
August 25, 1993

If you have any question or comments please feel free to contact me at 307-742-0031.

Sincerely yours.



Scott Gustin  
Environmental Scientist

SG:sb

cc: Brent Schindler, 2 copies  
File: 0125-A



**Schlumberger**

Oilfield Services Shared Resources

John A. Miller  
Remediation Manager

File 90-125 B WWC  
WESTERN WATER CONTAMINANTS, INC.  
DEC 30 1994  
LARAMIE, WY 82070

Mr. Anthony Moreland, Geologist  
Underground Storage Tank Bureau  
New Mexico Environment Department  
1190 St. Francis Drive  
Santa Fe, NM 87502

RE: Third Quarterly Reporting of Activities at the Dowell Schlumberger Incorporated Facility  
in Artesia, New Mexico

Dear Tony:

This letter constitutes the third quarterly report of remedial activities at the Dowell Schlumberger Incorporated (Dowell) facility in Artesia, New Mexico for the quarter ending in October 1994, as determined in our meeting with you in November 1993. The report presents the results of ground-water monitoring and data from the operation of the two SVE systems at the facility. Soil vapor extraction (SVE) data through early December 1994 have been included. These activities are overseen by the underground Storage Tank Bureau of the New Mexico Environment Department (NMED-UST Bureau). The second quarterly report submitted to NMED-UST Bureau was dated July 25, 1994.

### GROUND-WATER MONITORING

Quarterly ground-water monitoring was conducted on October 24 and 25, 1994. Prior to purging wells, static water levels in all monitoring wells were measured with an oil/water interface probe. No floating product was detected in any well. Current and historic water levels are presented in Table 1. A potentiometric surface map generated from the October 1994 data is depicted on Figure 1. The ground-water flow direction is to the northeast, consistent with historic data.

Using dedicated polyethylene bailers, three casing volumes of water were purged from monitoring wells MW-1 through MW-15 before sampling. Using dedicated bailers with volatile organic carbon (VOC) sampling attachments, ground-water samples were collected into VOA vials containing hydrochloric acid preservative supplied by the analytical laboratory. Samples were placed in a cooler with ice immediately after collection and were kept cool until delivery to the laboratory. Samples were analyzed for volatile organics by EPA Method 8240. Results

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AUG 26 1996

Environmental Bureau  
Oil Conservation Division

P.O. Box 2727, Houston, Texas 77252-2727  
300 Schlumberger Drive, Sugar Land, Texas 77478  
(713) 275-8498 (713) 275-8526 (fax)

Mr. Anthony Moreland  
December 12, 1994  
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are presented in Table 2 with previous analytical results for comparison. Copies of the laboratory reports are attached to this letter as Appendix A.

### **SVE SYSTEM OPERATION AND MAINTENANCE**

The remediation system at the Artesia facility consists of two separate soil vapor extraction (SVE) systems (Figure 2). These systems are called the maintenance shop SVE system and the wash bay SVE system based on their proximity to these facility improvements. The maintenance shop SVE system consists of two zones, each with 7 vapor extraction wells. The wash bay SVE system consists of three zones, each with 7 vapor extraction wells. The systems have run almost continuously since startup.

#### **Overall Operation**

The system has operated continuously since the last quarterly report. On September 30, 1994, the vacuum relief valves on both systems were modified to prevent makeup air from entering the systems. This increases the well vacuum to almost 60 inches of water in all zones. Additionally, the operation of the wash bay system was modified to the following daily sequence:

|        |          |
|--------|----------|
| Zone 1 | 20 hours |
| Zone 2 | 2 hours  |
| Zone 3 | 2 hours  |

Due to the subsequent drop in concentrations in Zone 1, the wash bay system was returned to 8 hours per zone on December 5, 1994.

The system vacuum is measured at the blower and system manifold. These measurements are reported in Tables 3 and 4. The differences in these two measurements are very small, indicating no plugging of the filters.

#### **Volatile Organics in Soil Vapors**

The concentration of volatile organics in the extracted soil vapor and exhausted vapor are measured during each site visit with an HNu photoionization detector (PID). These data are presented in Tables 5 and 6. Note that the September 30, 1994 measurements include readings both before and after modifications to the vacuum relief valves. Measurements on November 3, 1994 were made with a ThermoEnvironmental Determinator PID and show consistently higher readings.

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December 12, 1994  
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Samples of the vapors have been collected for laboratory analysis using EPA Method 8240. These data are presented in Appendix B and summarized in Table 7. A sample was collected on December 5, 1994 but these results are not yet available.

### Maintenance

The systems have been relatively maintenance free. Minor problems have been corrected as they occur. Following is a list of maintenance activities occurring since the last quarterly report:

- On September 7, 1994, problems due to heat in the exhaust air were corrected. The steel pipe on the blower exhaust was lengthened. Flexible hose that had become brittle due to heat was replaced.
- On September 30, 1994, one valve actuator was inoperable. The actuator was cleaned, lubricated, and put back on line.
- On December 5, 1994, the controller at the wash bay SVE system was reprogrammed. The program was lost due to an interruption in electrical service.
- Carbon filters have been replaced at a rate of one every other month at the wash bay system.

### ADDITIONAL ACTIVITIES

In early October 1994, 20 additional SVE wells were drilled on Eddy County right of way north of the existing wash bay SVE system. The results of this work were incorporated into the plans and specifications for expansion of the wash bay SVE system into this area. These plans and specifications were submitted to Mr. Jeff Walker of the NMED Groundwater Protection and Remediation Bureau.

Dowell plans to continue operation of both SVE systems and quarterly monitoring of ground water. If you have questions or comments, please contact me.

Sincerely,

  
John A. Miller  
Remediation Manager

Mr. Anthony Moreland

December 22, 1994

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cc: Mr. Jeff Walker  
Mr. Brent Schindler  
Western Water Consultants, Inc. - Laramie

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,  
DOWELL SCHLUMBERGER INCORPORATED, ARTESIA, NEW MEXICO.**

| WELL # | DATE     | DEPTH TO<br>GROUND WATER<br>(ft) | MEASURING POINT<br>ELEVATION*<br>(ft) | GROUND-WATER<br>ELEVATION*<br>(ft) |
|--------|----------|----------------------------------|---------------------------------------|------------------------------------|
| MW-1   | 01/23/91 | 17.41                            | 100.56                                | 83.15                              |
|        | 09/13/91 | 16.04                            |                                       | 84.52                              |
|        | 11/22/91 | 14.50                            |                                       | 86.06                              |
|        | 03/16/93 | 13.72                            |                                       | 86.84                              |
|        | 01/09/94 | 14.62                            |                                       | 85.94                              |
|        | 04/19/94 | 14.48                            |                                       | 86.08                              |
|        | 07/20/94 | 14.38                            |                                       | 86.18                              |
|        | 10/24/94 | 14.73                            |                                       | 85.83                              |
| MW-2   | 01/23/91 | 16.95                            | 99.56                                 | 82.61                              |
|        | 09/13/91 | 15.01                            |                                       | 84.55                              |
|        | 11/22/91 | 13.76                            |                                       | 85.80                              |
|        | 03/16/93 | 13.16                            |                                       | 86.40                              |
|        | 01/09/94 | 13.91                            |                                       | 85.65                              |
|        | 04/19/94 | 13.80                            |                                       | 85.76                              |
|        | 07/20/94 | 13.65                            |                                       | 85.91                              |
|        | 10/24/94 | 13.88                            |                                       | 85.68                              |
| MW-3   | 01/23/91 | 17.28                            | 98.33                                 | 81.05                              |
|        | 09/13/91 | 14.66                            |                                       | 83.67                              |
|        | 11/22/91 | 13.63                            |                                       | 84.70                              |
|        | 03/16/93 | 12.89                            |                                       | 85.44                              |
|        | 01/09/94 | 13.66                            |                                       | 84.67                              |
|        | 04/19/94 | NM                               |                                       | NM                                 |
|        | 07/20/94 | 13.18                            |                                       | 85.15                              |
|        | 10/24/94 | 13.27                            |                                       | 85.06                              |
| MW-4   | 01/23/91 | 20.17                            | 103.18                                | 83.01                              |
|        | 09/13/91 | 18.54                            |                                       | 84.64                              |
|        | 11/22/91 | 17.15                            |                                       | 86.03                              |
|        | 03/16/93 | 16.49                            |                                       | 86.69                              |
|        | 01/09/94 | 17.28                            |                                       | 85.90                              |
|        | 04/19/94 | 17.15                            |                                       | 86.03                              |
|        | 07/20/94 | 16.99                            |                                       | 86.19                              |
|        | 10/24/94 | 17.25                            |                                       | 85.93                              |
| MW-5   | 01/23/91 | 17.20                            | 99.87                                 | 82.67                              |
|        | 09/13/91 | 15.52                            |                                       | 84.35                              |
|        | 11/22/91 | 14.19                            |                                       | 85.68                              |
|        | 03/16/93 | 13.47                            |                                       | 86.40                              |
|        | 01/09/94 | 14.31                            |                                       | 85.56                              |
|        | 04/19/94 | 14.17                            |                                       | 85.70                              |
|        | 07/20/94 | 13.97                            |                                       | 85.90                              |
|        | 10/24/94 | 14.21                            |                                       | 85.66                              |
| MW-6   | 01/23/91 | 19.59                            | 100.84                                | 81.25                              |
|        | 09/13/91 | 17.43                            |                                       | 83.41                              |
|        | 11/21/91 | 16.30                            |                                       | 84.54                              |
|        | 03/16/93 | 15.57                            |                                       | 85.27                              |
|        | 01/09/94 | 16.42                            |                                       | 84.42                              |
|        | 04/19/94 | 16.29                            |                                       | 84.55                              |
|        | 07/19/94 | 15.79                            |                                       | 85.05                              |
|        | 10/24/94 | 15.83                            |                                       | 85.01                              |
| MW-7   | 01/23/91 | 19.01                            | 100.23                                | 81.22                              |
|        | 09/13/91 | 17.43                            |                                       | 82.80                              |
|        | 11/21/91 | 16.00                            |                                       | 84.23                              |
|        | 03/16/93 | 14.91                            |                                       | 85.32                              |
|        | 01/09/94 | 15.99                            |                                       | 84.24                              |
|        | 04/19/94 | 15.83                            |                                       | 84.40                              |
|        | 07/19/94 | 15.24                            |                                       | 84.99                              |
|        | 10/24/94 | 15.32                            |                                       | 84.91                              |

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,  
DOWELL SCHLUMBERGER INCORPORATED, ARTESIA, NEW MEXICO.**

| WELL # | DATE     | DEPTH TO<br>GROUND WATER<br>(ft) | MEASURING POINT<br>ELEVATION*<br>(ft) | GROUND-WATER<br>ELEVATION*<br>(ft) |
|--------|----------|----------------------------------|---------------------------------------|------------------------------------|
| MW-8   | 01/23/91 | 20.16                            | 101.47                                | 81.31                              |
|        | 09/13/91 | 18.80                            |                                       | 82.67                              |
|        | 11/21/91 | 17.29                            |                                       | 84.18                              |
|        | 03/16/93 | 16.03                            |                                       | 85.44                              |
|        | 01/09/94 | 17.23                            |                                       | 84.24                              |
|        | 04/19/94 | 17.05                            |                                       | 84.42                              |
|        | 07/19/94 | 16.50                            |                                       | 84.97                              |
|        | 10/24/94 | 16.56                            |                                       | 84.91                              |
| MW-9   | 01/26/91 | 20.08                            | 102.18                                | 82.10                              |
|        | 09/13/91 | 18.93                            |                                       | 83.25                              |
|        | 11/21/91 | 17.35                            |                                       | 84.83                              |
|        | 03/16/93 | 16.19                            |                                       | 85.99                              |
|        | 01/09/94 | 17.31                            |                                       | 84.87                              |
|        | 04/19/94 | 17.33                            |                                       | 84.85                              |
|        | 07/19/94 | 16.85                            |                                       | 85.33                              |
|        | 10/24/94 | 17.05                            |                                       | 85.13                              |
| MW-10  | 01/26/91 | 19.68                            | 101.34                                | 81.66                              |
|        | 09/13/91 | 18.56                            |                                       | 82.78                              |
|        | 11/21/91 | 16.96                            |                                       | 84.38                              |
|        | 03/16/93 | 15.64                            |                                       | 85.70                              |
|        | 01/09/94 | 16.89                            |                                       | 84.45                              |
|        | 04/19/94 | 16.73                            |                                       | 84.61                              |
|        | 07/19/94 | 16.29                            |                                       | 85.05                              |
|        | 10/24/94 | 16.39                            |                                       | 84.95                              |
| MW-11  | 01/26/91 | 19.27                            | 100.60                                | 81.33                              |
|        | 09/13/91 | 17.81                            |                                       | 82.79                              |
|        | 11/21/91 | 16.35                            |                                       | 84.25                              |
|        | 03/16/93 | 15.20                            |                                       | 85.40                              |
|        | 01/09/94 | 16.31                            |                                       | 84.29                              |
|        | 04/19/94 | 16.17                            |                                       | 84.43                              |
|        | 07/19/94 | 15.63                            |                                       | 84.97                              |
|        | 10/24/94 | 15.72                            |                                       | 84.88                              |
| MW-12  | 01/26/91 | 19.24                            | 100.69                                | 81.45                              |
|        | 09/13/91 | 17.59                            |                                       | 83.10                              |
|        | 11/21/91 | 16.21                            |                                       | 84.48                              |
|        | 03/16/93 | 15.22                            |                                       | 85.47                              |
|        | 01/09/94 | 16.25                            |                                       | 84.44                              |
|        | 04/19/94 | 16.13                            |                                       | 84.56                              |
|        | 07/19/94 | 15.63                            |                                       | 85.06                              |
|        | 10/24/94 | 15.73                            |                                       | 84.96                              |
| MW-13  | 09/13/91 | 15.10                            | 99.25                                 | 84.15                              |
|        | 11/21/91 | 13.95                            |                                       | 85.30                              |
|        | 03/16/93 | 13.22                            |                                       | 86.03                              |
|        | 01/09/94 | 14.03                            |                                       | 85.22                              |
|        | 04/19/94 | 13.90                            |                                       | 85.35                              |
|        | 07/20/94 | 13.70                            |                                       | 85.55                              |
|        | 10/24/94 | 13.86                            |                                       | 85.39                              |
| MW-14  | 09/13/91 | 14.60                            | 98.74                                 | 84.14                              |
|        | 11/21/91 | 13.61                            |                                       | 85.13                              |
|        | 03/16/93 | 13.00                            |                                       | 85.74                              |
|        | 01/09/94 | 13.71                            |                                       | 85.03                              |
|        | 04/19/94 | 13.63                            |                                       | 85.11                              |
|        | 07/20/94 | 13.39                            |                                       | 85.35                              |
|        | 10/24/94 | 13.48                            |                                       | 85.26                              |

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,  
DOWELL SCHLUMBERGER INCORPORATED, ARTESIA, NEW MEXICO.**

| WELL # | DATE     | DEPTH TO<br>GROUND WATER<br>(ft) | MEASURING POINT<br>ELEVATION*<br>(ft) | GROUND-WATER<br>ELEVATION*<br>(ft) |
|--------|----------|----------------------------------|---------------------------------------|------------------------------------|
| MW-15  | 09/13/91 | 16.30                            | 100.05                                | 83.75                              |
|        | 11/21/91 | 15.01                            |                                       | 85.04                              |
|        | 03/16/93 | 13.95                            |                                       | 86.10                              |
|        | 01/09/94 | 14.91                            |                                       | 85.14                              |
|        | 04/19/94 | 14.80                            |                                       | 85.25                              |
|        | 07/20/94 | 14.56                            |                                       | 85.49                              |
|        | 10/24/94 | 14.73                            |                                       | 85.32                              |

**NOTES:**

\* = measured from a temporary benchmark of arbitrary elevation = 100.00 feet.

Benchmark is located on the concrete right up against the east shop wall,  
at the northeast corner of the shop.

NM = not measured

TABLE 2. RESULTS FROM LABORATORY ANALYSES OF GROUND-WATER SAMPLES,  
DOWELL SCHLUMBERGER INC. FACILITY, ARTESIA, NEW MEXICO

| WELL<br>NUMBER | SAMPLE<br>DATE | BENZENE<br>(mg/L) | ETHYL-<br>BENZENE<br>(mg/L) | TOLUENE<br>(mg/L) | XYLENES<br>(mg/L) | 1,1-DCA<br>(mg/L) | 1,2-DCA<br>(mg/L) | 1,1-DCE<br>(mg/L) | 1,1,1-<br>TCA<br>(mg/L) | 1,1,2-<br>TCA<br>(mg/L) | TCE<br>(mg/L) | PCE<br>(mg/L) | ACETONE<br>(mg/L) |
|----------------|----------------|-------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|-------------------------|---------------|---------------|-------------------|
| MW-1           | 01/26/91       | 0.033             | ND(0.005)                   | 0.029             | 0.13              | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | ND(0.005)     | ND(0.005)     | ND(0.05)          |
|                | 09/15/91       | ND(0.001)         | ND(0.001)                   | 0.002             | 0.009             | ND(0.001)         | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
|                | 11/22/91       | 0.026             | ND(0.001)                   | 0.007             | 0.014             | ND(0.001)         | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
|                | 03/16/93       | 0.016             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | ND(0.001)         | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
|                | 01/10/94       | 0.006             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | ND(0.001)         | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
| dup.           | 04/19/94       | 0.035             | 0.001J                      | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | ND(0.005)     | ND(0.005)     | ND(0.1)           |
|                | 07/20/94       | 0.008             | ND(0.005)                   | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | ND(0.005)     | ND(0.005)     | ND(0.1)           |
|                | 10/25/94       | 0.027             | ND(0.005)                   | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | ND(0.005)     | ND(0.005)     | ND(0.1)           |
|                |                |                   |                             |                   |                   |                   |                   |                   |                         |                         |               |               |                   |
|                |                |                   |                             |                   |                   |                   |                   |                   |                         |                         |               |               |                   |
| MW-2           | 01/26/91       | 0.21              | 0.59                        | 0.071             | 1.7               | 0.048             | ND(0.01)          | ND(0.01)          | ND(0.01)                | ND(0.01)                | ND(0.01)      | 0.11          | ND(0.1)           |
|                | 09/15/91       | 0.19              | 0.45                        | 0.062             | 1.3               | 0.043             | ND(0.01)          | ND(0.01)          | 0.011                   | ND(0.01)                | ND(0.01)      | 0.078         | ND(0.1)           |
|                | 11/22/91       | 0.12              | 0.05                        | 0.006             | 0.69              | 0.1               | ND(0.005)         | 0.005             | 0.023                   | ND(0.005)               | ND(0.005)     | 0.15          | ND(0.05)          |
|                | 03/16/93       | 0.033             | 0.001                       | 0.001             | 0.088             | 0.11              | ND(0.001)         | 0.007             | 0.016                   | ND(0.001)               | ND(0.001)     | 0.064         | ND(0.01)          |
|                | 01/10/94       | 0.019             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.06              | ND(0.001)         | 0.002             | 0.003                   | ND(0.001)               | ND(0.001)     | 0.028         | ND(0.01)          |
| dup.           | 04/19/94       | 0.024             | ND(0.001)                   | 0.001             | ND(0.005)         | 0.039             | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | 0.001J        | 0.079         | ND(0.01)          |
|                | 04/19/94       | 0.045             | 0.004J                      | ND(0.005)         | ND(0.005)         | 0.028             | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | 0.001J        | 0.048         | ND(0.1)           |
|                | 04/19/94       | 0.043             | 0.005J                      | ND(0.005)         | ND(0.005)         | 0.03              | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | 0.001J        | 0.052         | ND(0.1)           |
|                | 07/20/94       | 0.022             | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.026             | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | 0.021         | 0.021         | ND(0.1)           |
|                | 10/25/94       | 0.045             | 0.008                       | ND(0.005)         | ND(0.005)         | 0.03              | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | 0.001J        | 0.037         | ND(0.1)           |
| MW-3           | 01/26/91       | NA                | NA                          | NA                | NA                | NA                | NA                | NA                | NA                      | NA                      | NA            | NA            | NA                |
|                | 09/15/91       | 0.2               | 1.2                         | 1.2               | 14                | ND(0.2)           | ND(0.2)           | ND(0.2)           | 0.33                    | ND(0.2)                 | ND(0.2)       | 0.15          | 3.7               |
|                | 11/22/91       | 0.11              | 0.68                        | 0.53              | 6.8               | 0.084             | 0.004             | 0.19              | 0.11                    | 0.002*                  | 0.15          | 0.057         | 0.811             |
|                | 03/16/93       | ND(0.001)         | 1                           | 0.65              | 8.6               | ND(0.001)         | ND(0.001)         | ND(0.001)         | 0.26                    | ND(0.001)               | ND(0.001)     | 0.037         | 0.22              |
|                | 07/01/93       | 0.13              | 0.78                        | 0.54              | 9                 | ND(0.001)         | ND(0.001)         | 0.044             | 0.16                    | ND(0.05)                | ND(0.05)      | 0.33          | ND(0.5)           |
| dup.           | 01/10/94       | 0.14              | 1                           | 0.52              | 9.1               | 0.14              | ND(0.05)          | ND(0.05)          | 0.21                    | ND(0.1)                 | ND(0.1)       | ND(0.1)       | ND(1)             |
|                | 04/19/94       | 0.14              | 1                           | 0.7               | 11                | 0.19              | ND(0.1)           | NA                | NA                      | NA                      | NA            | NA            | NA                |
|                | 07/20/94       | 0.092             | 0.46                        | 0.16              | 3                 | 0.077             | 0.002J            | 0.036             | 0.069                   | ND(0.005)               | 0.064         | 0.011         | 0.048J            |
|                | 10/25/94       | 0.13              | 0.96                        | 0.25              | 4.2               | 0.2               | ND(0.05)          | 0.064             | ND(0.05)                | ND(0.05)                | 0.13          | 0.21J         | ND(0.1)           |
|                | 10/25/94       | 0.11              | 0.83                        | 0.3               | 4.7               | 0.18              | ND(0.05)          | 0.051             | ND(0.05)                | ND(0.05)                | 0.1           | 0.024J        | ND(0.1)           |
| MW-4           | 01/26/91       | 0.098             | 0.011                       | ND(0.001)         | 0.025             | ND(0.001)         | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
|                | 09/15/91       | 0.26              | ND(0.002)                   | ND(0.002)         | 0.015             | 0.006             | ND(0.002)         | ND(0.002)         | ND(0.002)               | ND(0.002)               | ND(0.002)     | ND(0.002)     | ND(0.02)          |
|                | 11/22/91       | 0.18              | 0.1                         | 0.001             | 0.037             | ND(0.001)         | ND(0.001)         | 0.019             | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
|                | 03/16/93       | 0.072             | 0.051                       | ND(0.001)         | ND(0.005)         | 0.001             | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
|                | 01/10/94       | 0.064             | 0.074                       | ND(0.001)         | ND(0.005)         | ND(0.001)         | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
| dup.           | 04/19/94       | 0.074             | 0.085                       | ND(0.005)         | 0.003J            | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | ND(0.005)     | ND(0.005)     | ND(0.01)          |
|                | 07/20/94       | 0.1               | 0.053                       | ND(0.005)         | 0.005             | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | ND(0.005)     | ND(0.005)     | ND(0.1)           |
|                | 10/25/94       | 0.14              | 0.26                        | ND(0.005)         | 0.004J            | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | ND(0.005)     | 0.005         | ND(0.1)           |
|                |                |                   |                             |                   |                   |                   |                   |                   |                         |                         |               |               |                   |
|                |                |                   |                             |                   |                   |                   |                   |                   |                         |                         |               |               |                   |

TABLE 2.  
RESULTS FROM LABORATORY ANALYSES OF GROUND-WATER SAMPLES,  
DOWELL SCHLUMBERGER INC. FACILITY, ARTESIA, NEW MEXICO

| WELL<br>NUMBER | SAMPLE<br>DATE | BENZENE<br>(mg/L) | ETHYL-<br>BENZENE<br>(mg/L) | TOLUENE<br>(mg/L) | XYLENES<br>(mg/L) | 1,1-DCA<br>(mg/L) | 1,2-DCA<br>(mg/L) | 1,1-DCE<br>(mg/L) | 1,1,1-<br>TCA<br>(mg/L) | 1,1,2-<br>TCA<br>(mg/L) | TCE<br>(mg/L) | PCE<br>(mg/L) | ACETONE<br>(mg/L) |
|----------------|----------------|-------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|-------------------------|---------------|---------------|-------------------|
| MW-5           | 01/26/81       | 0.014             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.004             | ND(0.001)         | 0.002             | 0.001                   | ND(0.001)               | ND(0.001)     | 0.01          | ND(0.01)          |
|                | 08/15/81       | ND(0.001)         | 0.001                       | ND(0.001)         | ND(0.005)         | 0.005             | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | ND(0.001)     | 0.018         | ND(0.01)          |
|                | 11/22/81       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.005             | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | ND(0.001)     | 0.018         | ND(0.01)          |
|                | 03/16/83       | 0.078             | 0.007                       | ND(0.001)         | ND(0.005)         | 0.013             | ND(0.001)         | 0.003             | ND(0.001)               | ND(0.001)               | 0.001         | 0.028         | ND(0.01)          |
|                | 01/10/84       | 0.025             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.008             | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | ND(0.001)     | 0.026         | ND(0.01)          |
| dup.           | 04/19/84       | 0.07              | 0.011                       | ND(0.005)         | ND(0.005)         | 0.008             | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | 0.0024        | 0.015         | ND(0.1)           |
|                | 07/20/84       | 0.22              | 0.041                       | ND(0.005)         | ND(0.005)         | 0.011             | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | 0.0044        | 0.025         | ND(0.1)           |
|                | 07/20/84       | 0.32              | 0.076                       | ND(0.005)         | 0.0014            | 0.028             | ND(0.005)         | 0.0024            | ND(0.005)               | ND(0.005)               | 0.006         | 0.039         | ND(0.1)           |
|                | 10/25/84       | 0.24              | 0.059                       | ND(0.005)         | ND(0.005)         | 0.02              | ND(0.005)         | 0.0024            | ND(0.005)               | ND(0.005)               | 0.0084        | 0.043         | ND(0.1)           |
| MW-6           | 01/26/81       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.007             | ND(0.001)         | 0.17              | 0.007                   | ND(0.001)               | ND(0.001)     | 0.083         | ND(0.01)          |
|                | 08/15/81       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.006             | ND(0.001)         | 0.084             | ND(0.001)               | ND(0.001)               | ND(0.001)     | 0.043         | ND(0.01)          |
|                | 11/22/81       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.005             | ND(0.001)         | 0.064             | ND(0.001)               | ND(0.001)               | ND(0.001)     | 0.035         | ND(0.01)          |
|                | 03/16/83       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.007             | ND(0.001)         | 0.098             | 0.001                   | ND(0.001)               | ND(0.001)     | 0.056         | ND(0.01)          |
|                | 01/10/84       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.017             | ND(0.001)         | 0.14              | 0.002                   | ND(0.001)               | ND(0.001)     | 0.12          | ND(0.01)          |
| dup.           | 04/19/84       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.013             | ND(0.005)         | 0.07              | 0.0024                  | ND(0.005)               | ND(0.005)     | 0.072         | ND(0.1)           |
|                | 07/20/84       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.009             | ND(0.005)         | 0.098             | 0.0014                  | ND(0.005)               | ND(0.005)     | 0.065         | ND(0.1)           |
|                | 07/20/84       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.013             | ND(0.005)         | 0.11              | 0.0014                  | ND(0.005)               | ND(0.005)     | 0.073         | ND(0.1)           |
|                | 10/25/84       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.012             | ND(0.005)         | 0.079             | ND(0.005)               | ND(0.005)               | ND(0.005)     | 0.059         | ND(0.1)           |
| MW-7           | 01/26/81       | 0.006             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.021             | ND(0.001)         | 0.26              | 0.01                    | ND(0.001)               | 0.068         | 0.2           | ND(0.01)          |
|                | 08/15/81       | 0.009             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.038             | ND(0.001)         | 0.32              | 0.005                   | ND(0.001)               | 0.069         | 0.27          | ND(0.01)          |
|                | 08/15/81       | 0.009             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.034             | ND(0.001)         | 0.31              | 0.006                   | ND(0.001)               | 0.069         | 0.28          | ND(0.01)          |
|                | 11/22/81       | 0.009             | ND(0.005)                   | ND(0.005)         | ND(0.025)         | 0.035             | ND(0.005)         | 0.36              | ND(0.005)               | ND(0.001)               | 0.053         | 0.31          | ND(0.05)          |
|                | 03/16/83       | 0.007             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.027             | ND(0.001)         | 0.28              | 0.002                   | ND(0.001)               | 0.05          | 0.16          | ND(0.01)          |
| dup.           | 01/10/84       | 0.005             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.023             | ND(0.001)         | 0.21              | 0.004                   | ND(0.001)               | 0.046         | 0.16          | ND(0.01)          |
|                | 04/19/84       | 0.0074            | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.021             | ND(0.005)         | 0.12              | 0.0034                  | ND(0.005)               | 0.038         | 0.12          | ND(0.1)           |
|                | 07/20/84       | 0.006             | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.018             | ND(0.005)         | 0.22              | 0.0034                  | ND(0.005)               | 0.04          | 0.16          | ND(0.1)           |
|                | 10/25/84       | 0.007             | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.033             | ND(0.005)         | 0.23              | ND(0.005)               | ND(0.005)               | 0.05          | 0.24          | ND(0.1)           |
|                | 10/25/84       | 0.0064            | ND(0.025)                   | ND(0.025)         | ND(0.025)         | 0.026             | ND(0.025)         | 0.2               | ND(0.025)               | ND(0.025)               | 0.045         | 0.23          | ND(0.1)           |
| MW-8           | 01/26/81       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | 0.005             | ND(0.001)         | ND(0.001)         | 0.015             | 0.004                   | ND(0.001)               | 0.001         | 0.003         | ND(0.01)          |
|                | 08/15/81       | 0.007             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.017             | ND(0.001)         | 0.101             | 0.007                   | ND(0.001)               | 0.039         | 0.05          | ND(0.01)          |
|                | 11/22/81       | 0.004             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.02              | ND(0.001)         | 0.087             | 0.003                   | ND(0.001)               | 0.045         | 0.063         | ND(0.01)          |
|                | 03/16/83       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.004             | ND(0.001)         | 0.054             | 0.005                   | ND(0.001)               | 0.006         | 0.009         | ND(0.01)          |
|                | 01/10/84       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.004             | ND(0.001)         | 0.054             | 0.004                   | ND(0.001)               | 0.006         | 0.006         | ND(0.01)          |
| dup.           | 01/10/84       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.005             | ND(0.001)         | 0.073             | 0.004                   | ND(0.001)               | 0.008         | 0.01          | ND(0.01)          |
|                | 04/19/84       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.0044            | ND(0.005)         | 0.039             | 0.0044                  | ND(0.005)               | 0.0044        | 0.007         | ND(0.1)           |
|                | 07/20/84       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.0044            | ND(0.005)         | 0.069             | 0.005                   | ND(0.005)               | 0.006         | 0.011         | ND(0.1)           |
|                | 10/25/84       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.008             | ND(0.005)         | 0.082             | ND(0.005)               | ND(0.005)               | 0.01          | 0.019         | ND(0.1)           |
|                | 10/25/84       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.008             | ND(0.005)         | 0.082             | ND(0.005)               | ND(0.005)               | 0.01          | 0.019         | ND(0.1)           |

TABLE 2.

RESULTS FROM LABORATORY ANALYSES OF GROUND-WATER SAMPLES,  
DOWELL SCHLUMBERGER INC. FACILITY, ARTESIA, NEW MEXICO

| WELL<br>NUMBER | SAMPLE<br>DATE | BENZENE<br>(mg/L) | ETHYL-<br>BENZENE<br>(mg/L) | TOLUENE<br>(mg/L) | XYLENES<br>(mg/L) | 1,1-DCA<br>(mg/L) | 1,2-DCA<br>(mg/L) | 1,1-DCE<br>(mg/L) | 1,1,1-<br>TCA<br>(mg/L) | 1,1,2-<br>TCA<br>(mg/L) | TCE<br>(mg/L) | PCE<br>(mg/L) | ACETONE<br>(mg/L) |
|----------------|----------------|-------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|-------------------------|---------------|---------------|-------------------|
| MW-9           | 01/26/91       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.022             | ND(0.001)         | 0.002             | ND(0.001)               | ND(0.001)               | ND(0.001)     | 0.001         | ND(0.01)          |
|                | 08/15/91       | 0.002             | 0.032                       | ND(0.001)         | ND(0.005)         | 0.035             | ND(0.001)         | 0.002             | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | 0.019             |
|                | 11/22/91       | 0.004             | 0.17                        | ND(0.001)         | ND(0.005)         | 0.029             | ND(0.001)         | 0.002             | ND(0.001)               | ND(0.001)               | ND(0.001)     | 0.001         | 0.014             |
|                | 03/16/93       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.012             | ND(0.001)         | 0.001             | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
|                | 01/10/94       | ND(0.001)         | ND(0.001)                   | 0.002             | ND(0.005)         | 0.012             | ND(0.001)         | ND(0.001)         | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
| MW-10          | 04/19/94       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.01              | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | ND(0.005)     | ND(0.005)     | ND(0.1)           |
|                | 07/20/94       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.017             | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | ND(0.005)     | ND(0.005)     | 0.0094            |
|                | 10/25/94       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.014             | ND(0.005)         | ND(0.005)         | ND(0.005)               | ND(0.005)               | ND(0.005)     | ND(0.005)     | ND(0.1)           |
|                | 01/26/91       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | ND(0.001)         | ND(0.001)         | 0.004             | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | 0.017             |
|                | 08/15/91       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | ND(0.001)         | ND(0.001)         | 0.012             | 0.002                   | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
| MW-11          | 11/22/91       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | ND(0.001)         | ND(0.001)         | 0.029             | 0.005                   | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
|                | 03/16/93       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | ND(0.001)         | ND(0.001)         | 0.025             | 0.001                   | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
|                | 01/10/94       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | ND(0.001)         | ND(0.001)         | 0.021             | ND(0.001)               | ND(0.001)               | ND(0.001)     | ND(0.001)     | ND(0.01)          |
|                | 04/19/94       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)         | 0.022             | 0.0014                  | ND(0.005)               | ND(0.005)     | ND(0.005)     | ND(0.1)           |
|                | 07/20/94       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)         | 0.052             | 0.0044                  | ND(0.005)               | ND(0.005)     | ND(0.005)     | ND(0.1)           |
| MW-12          | 10/25/94       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | ND(0.005)         | ND(0.005)         | 0.051             | ND(0.005)               | ND(0.005)               | ND(0.005)     | ND(0.005)     | ND(0.1)           |
|                | 01/26/91       | 0.01              | ND(0.005)                   | ND(0.005)         | ND(0.025)         | 0.045             | ND(0.005)         | 0.31              | ND(0.005)               | ND(0.005)               | 0.14          | 0.36          | ND(0.05)          |
|                | 08/15/91       | 0.056             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.068             | ND(0.001)         | 0.47              | 0.017                   | ND(0.001)               | 0.12          | 0.33          | ND(0.01)          |
|                | 11/22/91       | 0.048             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.052             | ND(0.001)         | 0.39              | 0.018                   | ND(0.001)               | 0.11          | 0.32          | ND(0.01)          |
|                | 03/16/93       | 0.005             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.04              | ND(0.001)         | 0.22              | 0.004                   | ND(0.001)               | 0.074         | 0.16          | ND(0.01)          |
| MW-12          | 01/10/94       | 0.005             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.042             | ND(0.005)         | 0.25              | ND(0.001)               | ND(0.001)               | 0.083         | 0.32          | ND(0.01)          |
|                | 04/19/94       | 0.009             | ND(0.005)                   | 0.0024            | ND(0.005)         | 0.042             | ND(0.005)         | 0.17              | 0.006                   | ND(0.005)               | 0.079         | 0.17          | ND(0.1)           |
|                | 07/20/94       | ND(0.025)         | ND(0.025)                   | ND(0.025)         | ND(0.025)         | 0.057             | ND(0.025)         | 0.46              | 0.014                   | ND(0.025)               | 0.12          | 0.36          | ND(0.5)           |
|                | 10/25/94       | 0.009             | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.067             | 0.0014            | 0.22              | ND(0.005)               | ND(0.005)               | 0.11          | 0.3           | ND(0.1)           |
|                | 01/26/91       | 0.26              | 0.95                        | 0.23              | 4.5               | 0.14              | ND(0.025)         | ND(0.025)         | 0.057                   | ND(0.025)               | 0.073         | 0.042         | 2.2               |
| MW-12          | 08/15/91       | 0.15              | 0.62                        | 0.63              | 2.2               | 0.12              | ND(0.001)         | 0.3               | 0.11                    | ND(0.001)               | 0.2           | 0.061         | 0.29              |
|                | 11/22/91       | 0.11              | 0.43                        | 0.034             | 0.81              | 0.11              | 0.002             | 0.24              | 0.1                     | ND(0.001)               | 0.26          | 0.051         | 0.056             |
|                | 03/16/93       | 0.16              | 0.8                         | 0.014             | 1.0               | 0.12              | ND(0.001)         | 0.039             | 0.055                   | ND(0.001)               | 0.036         | 0.018         | 0.017             |
|                | 01/10/94       | 0.16              | 0.87                        | 0.026             | 0.99              | 0.15              | ND(0.01)          | 0.075             | 0.053                   | ND(0.01)                | 0.07          | 0.024         | ND(0.1)           |
|                | 04/19/94       | 0.11              | 0.11                        | 0.049             | 0.25              | 0.11              | 0.0024            | 0.064             | 0.065                   | ND(0.005)               | 0.073         | 0.033         | ND(0.1)           |
| MW-12          | 07/20/94       | 0.16              | 0.72                        | 0.071             | 0.61              | 0.15              | ND(0.025)         | 0.073             | 0.075                   | ND(0.025)               | 0.086         | 0.0224        | ND(0.5)           |
|                | 10/25/94       | 0.096             | 0.66                        | ND(0.025)         | 0.1               | 0.16              | ND(0.025)         | 0.085             | ND(0.025)               | ND(0.025)               | 0.12          | 0.0154        | ND(0.1)           |

TABLE 2. RESULTS FROM LABORATORY ANALYSES OF GROUND-WATER SAMPLES,  
DOWELL SCHLUMBERGER INC. FACILITY, ARTESIA, NEW MEXICO

| WELL<br>NUMBER | SAMPLE<br>DATE | BENZENE<br>(mg/L) | ETHYL-<br>BENZENE<br>(mg/L) | TOLUENE<br>(mg/L) | XYLENES<br>(mg/L) | 1,1-DCA<br>(mg/L) | 1,2-DCA<br>(mg/L) | 1,1-DCE<br>(mg/L) | 1,1,1-<br>TCA<br>(mg/L) | 1,1,2-<br>TCA<br>(mg/L) | TCE<br>(mg/L) | PCE<br>(mg/L) | ACETONE<br>(mg/L) |
|----------------|----------------|-------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|-------------------------|---------------|---------------|-------------------|
| MW-13          | 09/15/91       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.03              | 0.002             | 0.038             | 0.005                   | ND(0.001)               | 0.004         | 0.24          | ND(0.01)          |
|                | 11/22/91       | 0.43              | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.016             | 0.001             | 0.025             | 0.002                   | ND(0.001)               | 0.002         | 0.11          | ND(0.01)          |
|                | 03/16/93       | 0.033             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.013             | ND(0.001)         | 0.014             | ND(0.001)               | ND(0.001)               | 0.002         | 0.062         | ND(0.01)          |
|                | 03/16/93       | 0.034             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.013             | 0.001             | 0.015             | ND(0.001)               | ND(0.001)               | 0.002         | 0.066         | ND(0.01)          |
|                | 01/10/94       | 0.022             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.016             | ND(0.001)         | 0.007             | ND(0.001)               | ND(0.001)               | 0.003         | 0.055         | ND(0.01)          |
| dup.           | 04/19/94       | 0.013             | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.011             | 0.001J            | 0.003J            | ND(0.005)               | ND(0.005)               | 0.003J        | 0.032         | ND(0.1)           |
|                | 07/20/94       | 0.016             | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.016             | 0.001J            | 0.005J            | ND(0.005)               | ND(0.005)               | 0.004J        | 0.034         | ND(0.1)           |
|                | 10/25/94       | 0.011             | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.013             | ND(0.005)         | 0.004J            | ND(0.005)               | ND(0.005)               | 0.004J        | 0.04          | ND(0.1)           |
|                |                |                   |                             |                   |                   |                   |                   |                   |                         |                         |               |               |                   |
|                |                |                   |                             |                   |                   |                   |                   |                   |                         |                         |               |               |                   |
| MW-14          | 09/15/91       | 0.022             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.13              | 0.002             | 0.3               | 0.014                   | 0.001                   | 0.002         | 0.46          | ND(0.01)          |
|                | 11/22/91       | 0.002             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.14              | 0.002             | 0.31              | 0.009                   | ND(0.001)               | 0.002         | 0.4           | ND(0.01)          |
|                | 11/22/91       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.11              | 0.002             | 0.32              | 0.01                    | ND(0.001)               | 0.002         | 0.44          | ND(0.01)          |
|                | 03/16/93       | 0.02              | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.08              | 0.001             | 0.18              | 0.004                   | ND(0.001)               | 0.002         | 0.21          | ND(0.01)          |
|                | 01/10/94       | 0.011             | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.057             | ND(0.001)         | 0.1               | ND(0.001)               | ND(0.001)               | 0.002         | 0.3           | 0.011             |
| dup.           | 04/19/94       | 0.005             | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.058             | ND(0.005)         | 0.056             | 0.001J                  | ND(0.005)               | ND(0.005)     | 0.16          | ND(0.1)           |
|                | 07/20/94       | 0.01J             | ND(0.025)                   | ND(0.025)         | ND(0.025)         | 0.072             | ND(0.025)         | 0.11              | ND(0.025)               | ND(0.025)               | ND(0.025)     | 0.21          | ND(0.5)           |
|                | 10/25/94       | 0.01              | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.079             | 0.001J            | 0.094             | ND(0.005)               | ND(0.005)               | ND(0.005)     | 0.23          | ND(0.1)           |
|                |                |                   |                             |                   |                   |                   |                   |                   |                         |                         |               |               |                   |
|                |                |                   |                             |                   |                   |                   |                   |                   |                         |                         |               |               |                   |
| MW-15          | 09/15/91       | 0.002             | 0.01                        | ND(0.001)         | 0.006             | 0.026             | 0.001             | 0.005             | ND(0.001)               | ND(0.001)               | ND(0.001)     | 0.004         | 0.024             |
|                | 11/22/91       | ND(0.001)         | ND(0.001)                   | ND(0.001)         | ND(0.005)         | 0.033             | 0.001             | 0.009             | ND(0.001)               | ND(0.001)               | 0.003         | 0.006         | ND(0.01)          |
|                | 03/16/93       | 0.001             | 0.002                       | ND(0.001)         | ND(0.005)         | 0.082             | 0.001             | 0.013             | ND(0.001)               | ND(0.001)               | 0.006         | 0.008         | ND(0.01)          |
|                | 01/10/94       | ND(0.001)         | 0.008                       | ND(0.001)         | ND(0.005)         | 0.048             | ND(0.001)         | 0.009             | ND(0.001)               | ND(0.001)               | 0.004         | 0.013         | ND(0.01)          |
|                | 01/10/94       | 0.001             | 0.008                       | 0.002             | ND(0.005)         | 0.054             | ND(0.001)         | 0.01              | ND(0.001)               | ND(0.001)               | 0.004         | 0.015         | ND(0.01)          |
| dup.           | 04/19/94       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.027             | ND(0.005)         | 0.005J            | ND(0.005)               | ND(0.005)               | 0.003J        | 0.008         | ND(0.1)           |
|                | 07/20/94       | ND(0.005)         | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.049             | 0.001J            | 0.006             | ND(0.005)               | ND(0.005)               | 0.004J        | 0.005         | ND(0.1)           |
|                | 10/25/94       | 0.001J            | ND(0.005)                   | ND(0.005)         | ND(0.005)         | 0.028             | ND(0.005)         | 0.006             | ND(0.005)               | ND(0.005)               | 0.004J        | 0.006         | ND(0.1)           |
|                |                |                   |                             |                   |                   |                   |                   |                   |                         |                         |               |               |                   |
|                |                |                   |                             |                   |                   |                   |                   |                   |                         |                         |               |               |                   |

NOTES:

ND(0.001) = chemical not detected at detection limit  
shown in parentheses  
dup. = duplicate sample  
\* = minor amounts of other chemicals also detected  
(see previous laboratory reports)  
# = minor amounts of other chemicals also detected  
(see laboratory reports appended to this letter)  
NA = not analyzed

CHEMICAL ABBREVIATIONS:

TPH = total petroleum hydrocarbons  
1,1-DCA = 1,1-dichloroethane  
1,2-DCA = 1,2-dichloroethane  
1,1-DCE = 1,1-dichloroethene  
1,1,1-TCA = 1,1,1-trichloroethane  
1,1,2-TCA = 1,1,2-trichloroethane  
TCE = trichloroethene  
PCE = tetrachloroethene

TABLE 3. OPERATIONAL CONDITIONS  
MAINTENANCE SHOP SVE SYSTEM  
DOWELL SCHLUMBERGER INCORPORATED  
ARTESIA, NEW MEXICO

| DATE     | HOUR<br>METER | VACUUM (INCHES OF WATER) |                  |                    |                  |
|----------|---------------|--------------------------|------------------|--------------------|------------------|
|          |               | ZONE 1<br>MANIFOLD       | ZONE 1<br>BLOWER | ZONE 2<br>MANIFOLD | ZONE 2<br>BLOWER |
| 01/31/94 | 0.0           |                          |                  |                    |                  |
| 02/01/94 | 5.1           | 44                       | 48               | 48                 | 50               |
| 02/02/94 | 23.2          |                          |                  | 48                 | 50               |
| 02/03/94 | 47.8          |                          |                  | 41                 | 46               |
| 02/10/94 | 219.4         |                          |                  | 43                 | 45               |
| 02/16/94 | 362.1         | 30                       | 35               |                    |                  |
| 02/23/94 | 531.0         |                          |                  | 37                 | 41               |
| 03/04/94 | 748.6         | 27                       | 32               |                    |                  |
| 03/11/94 | 915.3         |                          |                  | 37                 | 41               |
| 03/18/94 | 1086.1        | 28                       | 33               |                    |                  |
| 03/28/94 | 1325.8        | 29                       | 34               |                    |                  |
| 04/08/94 | 1583.0        |                          |                  | 38                 | 42               |
| 04/19/94 | 1857.6        | 31                       | 36               | 33                 | 38               |
| 05/06/94 | 2256.0        | 46                       | 48               | 48                 | 50               |
| 05/18/94 |               |                          |                  | 47                 | 49               |
| 06/01/94 |               |                          |                  | 51                 | 53               |
| 06/16/94 | 3099.9        | 49                       | 52               | 48                 | 51               |
| 07/06/94 | 3100.1        | 50                       | 52               | 47                 | 49               |
| 07/21/94 | 3457.6        | 44                       | 49               | 52                 | 54               |
| 08/09/94 | 3899.9        | 51                       | 54               | 49                 | 52               |
| 09/07/94 | 4093.7        | 48                       | 50               | 48                 | 49               |
| 09/30/94 | 4647.1        | 52                       | 54               | 49                 | 51               |
| 10/11/94 | 4911.1        | 53                       | 55               | 48                 | 51               |
| 11/03/94 | 5445.6        | 58                       | 60               | 54                 | 57               |
| 12/05/94 | 6204.9        | 57                       | 62               | 57                 | 61               |

TABLE 4.

OPERATIONAL CONDITIONS  
WASH BAY SVE SYSTEM  
DOWELL SCHLUMBERGER INCORPORATED  
ARTESIA, NEW MEXICO

| DATE     | HOUR<br>METER | VACUUM (INCHES OF WATER) |                  |                    |                  |                    |                  |
|----------|---------------|--------------------------|------------------|--------------------|------------------|--------------------|------------------|
|          |               | ZONE 1<br>MANIFOLD       | ZONE 1<br>BLOWER | ZONE 2<br>MANIFOLD | ZONE 2<br>BLOWER | ZONE 3<br>MANIFOLD | ZONE 3<br>BLOWER |
| 01/31/94 | 0.0           |                          |                  |                    |                  |                    |                  |
| 02/01/94 | 5.3           | 43                       | 44               | 41                 | 42               | 43                 | 44               |
| 02/02/94 | 20.6          | 40                       | 42               |                    |                  |                    |                  |
| 02/03/94 | 45.3          | 38                       | 42               |                    |                  | 43                 | 45               |
| 02/10/94 | 217.7         | 34                       | 38               |                    |                  |                    |                  |
| 02/16/94 | 359.7         |                          |                  |                    |                  | 41                 | 43               |
| 02/23/94 | 528.5         |                          |                  |                    |                  | 39                 | 42               |
| 03/04/94 | 746.2         | 32                       | 36               |                    |                  |                    |                  |
| 03/11/94 | 912.0         |                          |                  |                    |                  | 39                 | 40               |
| 03/18/94 | 1083.9        |                          |                  | 33                 | 37               |                    |                  |
| 03/28/94 | 1322.8        | 32                       | 36               |                    |                  |                    |                  |
| 04/08/94 | 1581.2        |                          |                  | 32                 | 36               |                    |                  |
| 04/19/94 | 1855.2        | 31                       | 34               | 33                 | 36               | 35                 | 38               |
| 05/06/94 | 2253.8        | 41                       | 44               | 45                 | 46               | 43                 | 44               |
| 05/18/94 |               |                          |                  |                    |                  | 43                 | 44               |
| 06/01/94 |               | 44                       | 44               |                    |                  |                    |                  |
| 06/16/94 | 3241.2        | 44                       | 45               | 46                 | 47               | 46                 | 47               |
| 07/06/94 | 3712.1        | 43                       | 44               | 44                 | 45               | 45                 | 45               |
| 07/21/94 | 3858.3        | 43                       | 45               | 48                 | 48               | 50                 | 51               |
| 08/09/94 | 3859.7        | 43                       | 44               | 45                 | 46               | 45                 | 46               |
| 09/07/94 | 4519.5        | 44                       | 45               | 46                 | 47               |                    |                  |
| 09/30/94 | 5073.4        | 44                       | 47               | 44                 | 46               | 49                 | 50               |
| 10/11/94 | 5328.8        | 48                       | 50               | 41                 | 44               | 48                 | 50               |
| 11/03/94 | 5864.3        | 39                       | 43               | 57                 | 58               | 58                 | 58               |
| 12/05/94 | 6546.8        | 57                       | 58               | 57                 | 58               | 58                 | 59               |

TABLE 5.

VOLATILE ORGANIC COMPOUNDS  
MAINTENANCE SHOP SVE SYSTEM  
DOWELL SCHLUMBERGER INCORPORA  
ARTESIA, NEW MEXICO

| DATE     | HOUR<br>METER | HNU READING (PPM) |        |        |
|----------|---------------|-------------------|--------|--------|
|          |               | EXHAUST           | ZONE 1 | ZONE 2 |
| 02/03/94 | 47.8          | 0                 | 4      | 35     |
| 02/10/94 | 219.4         | 0                 | 1      | 12     |
| 02/16/94 | 362.1         | 0                 | 1      | 6      |
| 02/23/94 | 531.0         | 3                 | 3      | 8      |
| 03/04/94 | 748.6         | 0                 | 1      | 6      |
| 03/11/94 | 915.3         | 3                 | 3      | 7      |
| 03/18/94 | 1086.1        | 0                 | 0      | 2      |
| 03/28/94 | 1325.8        | 0                 | 0      | 2      |
| 04/08/94 | 1583.0        | 0                 | 0      | 3.5    |
| 05/18/94 |               | 0                 |        |        |
| 07/06/94 | 3100.1        | 0                 | 0      | 0      |
| 07/21/94 | 3457.6        | 0                 | 0      | 0      |
| 08/09/94 | 3899.9        | 0                 | 0      | 1      |
| 09/06/94 | 4093.7        | 0                 | 0      | 1      |
| 09/30/94 | 4647.1        | 0                 | 0.5    | 1      |
| 10/11/94 | 4911.1        | 3                 | 1.8    | 1      |
| 11/03/94 | 5445.6        | 22                | 4.5    | 6.3    |
| 12/05/94 | 6204.9        | 4                 | 2      | 5      |

TABLE 6. VOLATILE ORGANIC COMPOUNDS  
WASH BAY SVE SYSTEM  
DOWELL SCHLUMBERGER INCORPORATED  
ARTESIA, NEW MEXICO

| DATE     | HOUR<br>METER | HNu READING (PPM) |        |        |        |
|----------|---------------|-------------------|--------|--------|--------|
|          |               | EXHAUST           | ZONE 1 | ZONE 2 | ZONE 3 |
| 02/03/94 | 45.3          | 2                 | 84     | 110    | 180    |
| 02/10/94 | 217.7         | 0                 | 56     | 69     | 137    |
| 02/16/94 | 359.7         | 0                 | 23     | 37     | 133    |
| 02/23/94 | 528.5         | 3                 | 22     | 54     | 118    |
| 03/04/94 | 746.2         | 3                 | 42     | 46     | 91     |
| 03/11/94 | 912.0         | 7                 | 44     | 42     | 93     |
| 03/18/94 | 1083.9        | 40                | 33     | 44     | 77     |
| 03/28/94 | 1322.8        | 18                | 26     | 13     | 21     |
| 04/08/94 | 1581.2        | 7                 | 29     | 39     | 67     |
| 05/18/94 |               | 0                 |        |        |        |
| 07/06/94 | 3712.1        | 1                 | 24     | 66     | 135    |
| 07/21/94 | 3858.3        | 0                 | 110    | 48     | 71     |
| 08/09/94 | 3859.7        | 1                 | 31     | 67     | 126    |
| 09/06/94 | 4519.5        | 0                 | 29     | 40     | 79     |
| 09/30/94 | 5073.4        | 44                | 33/51  | 69/133 | 95/161 |
| 10/11/94 | 5328.8        | 7                 | 43     | 78     | 118    |
| 11/03/94 | 5864.3        | 8                 | 151    | 434    | 745    |
| 12/05/94 | 6546.8        | 4                 | 30     | 152    | 240    |

TABLE 7.  
SUMMARY OF LABORATORY ANALYSES OF SOIL VAPOR SAMPLES,  
DOWELL SCHLUMBERGER INCORPORATED, ARTESIA, NEW MEXICO

| SVE<br>ZONE | SAMPLE<br>DATE | BENZENE<br>(ug/L) | ETHYL-<br>BENZENE<br>(ug/L) | TOLUENE<br>(ug/L) | XYLENES<br>(ug/L) | 1,1-DCA<br>(ug/L) | 1,2-DCA<br>(ug/L) | 1,1-DCE<br>(ug/L) | 1,1,1-<br>TCA<br>(ug/L) | 1,1,2-<br>TCA<br>(ug/L) | TCE<br>(ug/L) | PCE<br>(ug/L) | 2-BUTANONE<br>(ug/L) |
|-------------|----------------|-------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|-------------------------|---------------|---------------|----------------------|
| MS-1        | 02/10/94       | ND(1)             | ND(1)                       | ND(1)             | ND(1)             | ND(2)             | ND(2)             | ND(2)             | ND(2)                   | ND(2)                   | ND(2)         | ND(2)         | ND(2)                |
|             | 02/16/94       | ND(1)             | ND(0.5)                     | ND(1)             | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | ND(0.5)       | ND(0.5)              |
|             | 02/23/94       | ND(0.5)           | ND(0.5)                     | 0.51              | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | ND(0.5)       | ND(0.5)              |
|             | 03/04/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | ND(0.5)       | ND(0.5)              |
|             | 03/11/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | 5.6                     | ND(1)                   | ND(1)         | ND(0.5)       | ND(0.5)              |
|             | 03/18/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | 1.1                     | ND(1)                   | ND(1)         | ND(0.5)       | ND(0.5)              |
|             | 03/28/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | 21.3                    | ND(1)                   | ND(1)         | ND(0.5)       | ND(0.5)              |
|             | 04/20/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | 6.2                     | ND(0.5)                 | ND(0.5)       | ND(0.5)       | ND(10)               |
|             | 05/06/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(0.5)           | ND(0.5)           | ND(1)             | 4                       | ND(0.5)                 | ND(0.5)       | ND(0.5)       | ND(10)               |
|             | 05/18/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(0.5)           | ND(0.5)           | ND(1)             | 4                       | ND(0.5)                 | ND(0.5)       | ND(0.5)       | ND(1)                |
|             | 06/01/94       | ND(1)             | ND(1)                       | ND(1)             | ND(1)             | ND(1)             | ND(1)             | ND(1)             | 4                       | ND(1)                   | ND(1)         | ND(1)         | ND(1)                |
| MS-2        | 02/03/94       | 0.7               | 0.2                         | ND(0.5)           | ND(0.5)           | 1.6               | ND(0.5)           | ND(0.5)           | 2.2                     | ND(0.5)                 | 0.68          | 140           | ND(2)                |
|             | 02/10/94       | ND(1)             | ND(1)                       | ND(1)             | ND(1)             | ND(2)             | ND(2)             | ND(2)             | ND(2)                   | ND(2)                   | ND(2)         | 27.25         | ND(2)                |
|             | 02/16/94       | ND(1)             | ND(1)                       | ND(1)             | ND(1)             | ND(2)             | ND(2)             | ND(2)             | ND(1)                   | ND(2)                   | ND(1)         | 14.5          | ND(2)                |
|             | 02/23/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | 50.2          | 1.8                  |
|             | 03/04/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | 8.5           | ND(1)                |
|             | 03/11/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | 17.6          | ND(1)                |
|             | 03/18/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | 15.9          | ND(1)                |
|             | 03/28/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | 1.2                     | ND(1)                   | ND(1)         | 6.9           | ND(1)                |
|             | 04/08/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | 1.2                     | ND(1)                   | ND(1)         | 12.1          | 2.5                  |
|             | 04/20/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | ND(0.5)           | ND(1)             | ND(1)             | ND(1)             | 2.5                     | ND(0.5)                 | ND(0.5)       | 6.8           | ND(10)               |
| WB-1        | 02/10/94       | ND(1)             | 3.57                        | 2.98              | 12.6              | ND(1)             | ND(1)             | ND(1)             | 0.305                   | ND(0.5)                 | ND(0.5)       | 12            | ND(10)               |
|             | 02/16/94       | ND(1)             | 1.2                         | 2.4               | 10.4              | ND(2)             | ND(2)             | ND(2)             | 4.07                    | ND(2)                   | ND(2)         | 14.5          | ND(2)                |
|             | 02/23/94       | ND(0.5)           | 2.2                         | 2.5               | 18.3              | ND(1)             | ND(1)             | ND(1)             | 3.7                     | ND(1)                   | ND(1)         | ND(0.5)       | 9.1                  |
|             | 03/04/94       | ND(0.5)           | 2.6                         | 2.5               | 21.2              | ND(1)             | ND(1)             | ND(1)             | 6.6                     | ND(1)                   | ND(1)         | 17.6          | ND(1)                |
|             | 03/11/94       | ND(0.5)           | 14.6                        | 1.8               | 16.1              | ND(1)             | ND(1)             | ND(1)             | 3.5                     | ND(1)                   | ND(1)         | ND(0.5)       | 4.1                  |
|             | 03/18/94       | ND(0.5)           | 0.9                         | 1.2               | 8                 | ND(1)             | ND(1)             | ND(1)             | 3.4                     | ND(1)                   | ND(1)         | ND(0.5)       | 21.3                 |
|             | 03/28/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | 4.6               | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | ND(0.5)       | ND(1)                |
|             | 04/08/94       | ND(0.5)           | ND(0.5)                     | ND(0.5)           | 5.9               | ND(1)             | ND(1)             | ND(1)             | 2.8                     | ND(0.5)                 | ND(0.5)       | ND(0.5)       | 1.2                  |
|             | 04/20/94       | ND(0.5)           | 1.1                         | 1.7               | 5.8               | ND(0.5)           | ND(0.5)           | ND(1)             | 3.9                     | ND(0.5)                 | ND(0.5)       | ND(0.5)       | ND(10)               |
|             | 05/06/94       | ND(0.5)           | 0.8                         | ND(0.5)           | 8.4               | ND(1)             | ND(1)             | ND(1)             | 1.8                     | ND(1)                   | ND(1)         | 2             | ND(1)                |
| WB-2        | 02/10/94       | ND(1)             | 5.03                        | 10.13             | 14.9              | ND(2)             | ND(2)             | ND(2)             | 8.34                    | ND(2)                   | ND(2)         | ND(2)         | 14.71                |
|             | 02/16/94       | ND(1)             | 3                           | 4.8               | 29.9              | ND(2)             | ND(2)             | ND(2)             | 6.5                     | ND(2)                   | ND(2)         | 14.5          | 6.7                  |
|             | 02/23/94       | ND(0.5)           | 9.3                         | 16.4              | 53.2              | ND(1)             | ND(1)             | ND(1)             | 12.6                    | ND(1)                   | ND(1)         | ND(0.5)       | ND(1)                |
|             | 03/04/94       | ND(0.5)           | 5.3                         | 10.9              | 39.7              | ND(1)             | ND(1)             | ND(1)             | 12.1                    | ND(1)                   | ND(1)         | ND(0.5)       | ND(1)                |
|             | 03/11/94       | ND(0.5)           | 5.4                         | 9.6               | 23.2              | ND(1)             | ND(1)             | ND(1)             | 12.1                    | ND(1)                   | ND(1)         | ND(0.5)       | 26.7                 |
|             | 03/18/94       | 0.7               | 4.8                         | 3.5               | 28.1              | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | ND(0.5)       | 18.7                 |
|             | 03/28/94       | ND(0.5)           | 1.9                         | 3.5               | 12.8              | ND(1)             | ND(1)             | ND(1)             | 5                       | ND(1)                   | ND(1)         | ND(0.5)       | ND(1)                |
|             | 04/08/94       | ND(0.5)           | 1.1                         | 1.5               | 8.4               | ND(1)             | ND(1)             | ND(1)             | 2                       | ND(1)                   | ND(1)         | ND(0.5)       | ND(1)                |
|             | 04/20/94       | ND(0.5)           | 4.1                         | 5.8               | 27.5              | ND(1)             | ND(1)             | ND(1)             | 6.8                     | ND(0.5)                 | ND(0.5)       | ND(0.5)       | 1.8                  |
|             | 05/06/94       | ND(0.5)           | 3.7                         | 4.5               | 30                | ND(0.5)           | ND(0.5)           | ND(1)             | 3                       | ND(0.5)                 | ND(0.5)       | ND(10)        | ND(10)               |
| WB-2        | 05/18/94       | ND(0.5)           | 5.3                         | 6                 | 44.2              | ND(0.5)           | ND(0.5)           | ND(1)             | 2.8                     | ND(0.5)                 | ND(0.5)       | ND(0.5)       | ND(1)                |
|             | 06/01/94       | ND(1)             | 7                           | ND(1)             | 15                | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | ND(1)         | ND(1)                |
|             | 07/06/94       | ND(1)             | 5                           | 8                 | 42                | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | ND(1)         | ND(1)                |
|             | 08/10/94       | ND(0.01)          | 0.448                       | 0.411             | 4.117             | ND(0.01)          | ND(0.01)          | ND(0.01)          | ND(0.01)                | ND(0.01)                | ND(0.01)      | ND(0.01)      | 1.28                 |
|             | 08/10/94       | ND(0.01)          |                             |                   |                   | ND(0.01)          | ND(0.01)          | ND(0.01)          |                         | ND(0.01)                | ND(0.01)      |               |                      |
|             | 08/10/94       | ND(0.01)          |                             |                   |                   | ND(0.01)          | ND(0.01)          | ND(0.01)          |                         | ND(0.01)                | ND(0.01)      |               |                      |
|             | 08/10/94       | ND(0.01)          |                             |                   |                   | ND(0.01)          | ND(0.01)          | ND(0.01)          |                         | ND(0.01)                | ND(0.01)      |               |                      |
|             | 08/10/94       | ND(0.01)          |                             |                   |                   | ND(0.01)          | ND(0.01)          | ND(0.01)          |                         | ND(0.01)                | ND(0.01)      |               |                      |
|             | 08/10/94       | ND(0.01)          |                             |                   |                   | ND(0.01)          | ND(0.01)          | ND(0.01)          |                         | ND(0.01)                | ND(0.01)      |               |                      |
|             | 08/10/94       | ND(0.01)          |                             |                   |                   | ND(0.01)          | ND(0.01)          | ND(0.01)          |                         | ND(0.01)                | ND(0.01)      |               |                      |

TABLE 7. SUMMARY OF LABORATORY ANALYSES OF SOIL VAPOR SAMPLES,  
DOWELL SCHLUMBERGER INCORPORATED, ARTESIA, NEW MEXICO

| SVE<br>ZONE | SAMPLE<br>DATE | BENZENE<br>(ug/L) | ETHYL-<br>BENZENE<br>(ug/L) | TOLUENE<br>(ug/L) | XYLENES<br>(ug/L) | 1,1-DCA<br>(ug/L) | 1,2-DCA<br>(ug/L) | 1,1-DCE<br>(ug/L) | 1,1,1-<br>TCA<br>(ug/L) | 1,1,2-<br>TCA<br>(ug/L) | TCE<br>(ug/L) | PCE<br>(ug/L) | 2-BUTANONE<br>(ug/L) |
|-------------|----------------|-------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|-------------------------|---------------|---------------|----------------------|
| WB-3        | 02/03/94       | 5.5               | 22                          | 78                | 153               | 1.2               | ND(0.5)           | 2.8               | 28                      | ND(0.5)                 | ND(0.5)       | 5.2           | ND(2)                |
|             | 02/10/94       | ND(1)             | 13.6                        | 64.6              | 46.9              | ND(2)             | ND(2)             | ND(2)             | 11.4                    | ND(2)                   | ND(2)         | ND(2)         | 31.33                |
|             | 02/16/94       | ND(1)             | ND(1)                       | 25.7              | 44.5              | ND(2)             | ND(2)             | ND(2)             | 11                      | ND(2)                   | ND(2)         | ND(1)         | ND(2)                |
|             | 02/23/94       | 3.5               | 17.5                        | 73.2              | 99.1              | ND(1)             | ND(1)             | ND(1)             | 19.3                    | ND(1)                   | ND(1)         | 1.8           | 1.4                  |
|             | 03/04/94       | 2.1               | 10.6                        | 44.8              | 60.9              | ND(1)             | ND(1)             | ND(1)             | 14.7                    | ND(1)                   | ND(1)         | ND(0.5)       | ND(1)                |
|             | 03/11/94       | ND(0.5)           | 13.3                        | ND(0.5)           | 14.3              | ND(1)             | ND(1)             | ND(1)             | 17.9                    | ND(1)                   | ND(1)         | ND(0.5)       | 3.8                  |
|             | 03/18/94       | 1.2               | 10.1                        | 38.3              | 57.2              | ND(1)             | ND(1)             | ND(1)             | 11                      | ND(1)                   | ND(1)         | ND(0.5)       | 46.4                 |
|             | 03/28/94       | ND(0.5)           | 5.7                         | 21.4              | 30.8              | ND(1)             | ND(1)             | ND(1)             | 8.1                     | ND(1)                   | ND(1)         | ND(0.5)       | ND(1)                |
|             | 04/08/94       | ND(0.5)           | 1.5                         | 2.4               | 9.4               | ND(1)             | ND(1)             | ND(1)             | ND(1)                   | ND(1)                   | ND(1)         | ND(0.5)       | ND(1)                |
|             | 04/20/94       | ND(0.5)           | 10.6                        | 27.6              | 31.8              | ND(1)             | ND(1)             | ND(1)             | 11.1                    | ND(1)                   | ND(1)         | ND(0.5)       | 13.3                 |
|             | 05/06/94       | ND(0.5)           | 6.8                         | 17.5              | 38.9              | ND(0.5)           | ND(0.5)           | ND(1)             | 6                       | ND(0.5)                 | ND(0.5)       | ND(0.5)       | ND(10)               |
|             | 05/18/94       | ND(0.5)           | 6.2                         | 8.1               | 43.9              | ND(0.5)           | ND(1)             | ND(1)             | 1.9                     | ND(0.5)                 | ND(1)         | ND(0.5)       | ND(1)                |
|             | 06/01/94       | ND(1)             | 4                           | 7                 | 34                | ND(1)             | ND(1)             | ND(1)             | 3                       | ND(1)                   | ND(1)         | ND(1)         | ND(1)                |
|             | 07/06/94       | ND(1)             | 11                          | 22                | 73                | ND(1)             | ND(1)             | ND(1)             | ND(0.01)                | ND(1)                   | ND(1)         | ND(0.01)      | ND(1)                |
|             | 08/10/94       | ND(0.01)          | 1.348                       | ND(0.01)          | 10.32             | ND(0.01)          | ND(0.01)          | ND(0.01)          | 0.156                   | ND(0.01)                | ND(0.01)      | ND(0.01)      | ND(0.01)             |
|             | 09/07/94       | ND(0.01)          |                             | 2.803             |                   | ND(0.01)          |                   |                   |                         |                         |               |               |                      |

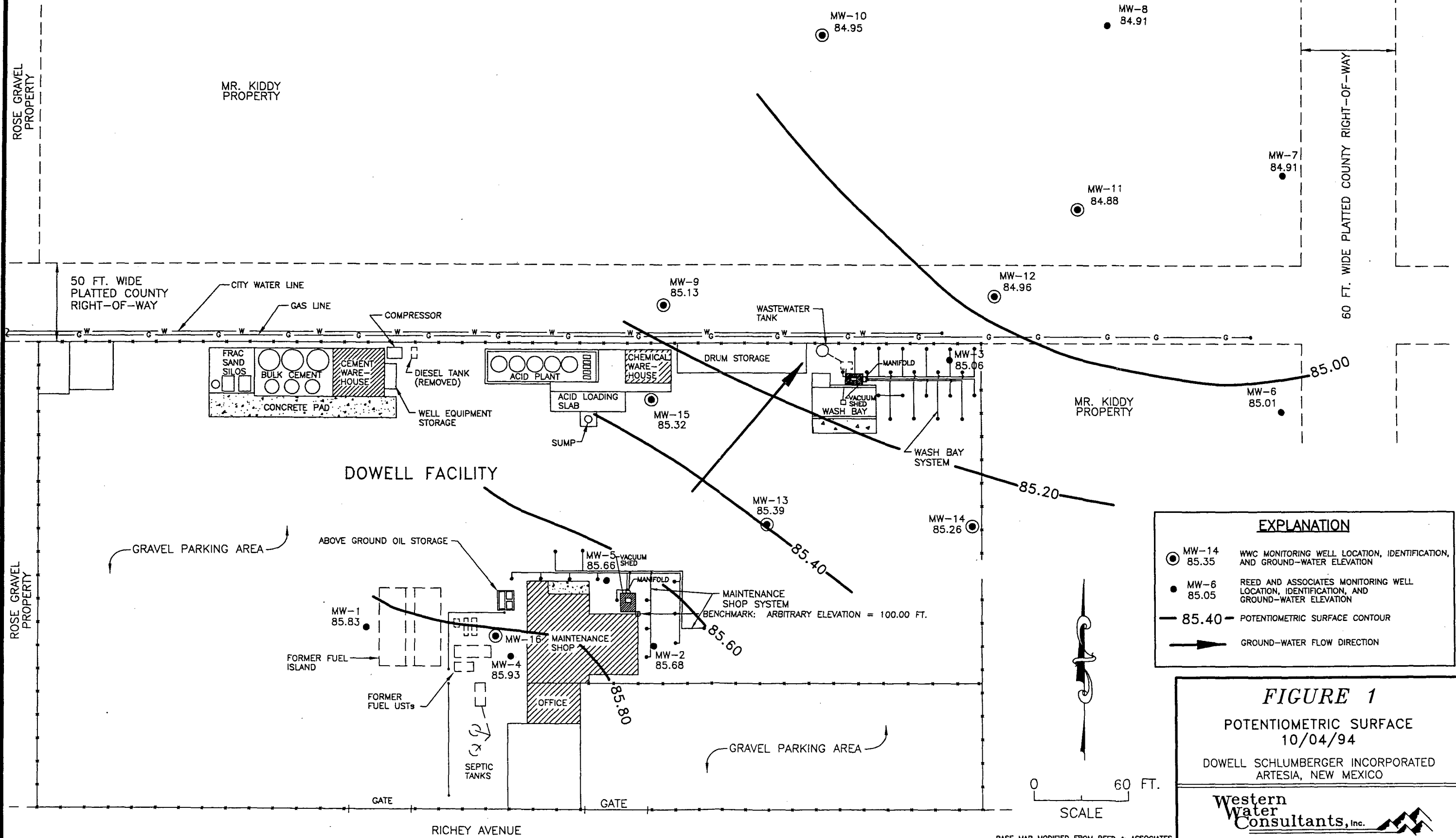
NOTES:

ND(1) = chemical not detected at detection limit  
shown in parentheses  
dup. = duplicate sample  
\* = minor amounts of other chemicals also detected  
(see previous laboratory reports)  
# = minor amounts of other chemicals also detected  
(see laboratory reports appended to this letter)  
NA = not analyzed

CHEMICAL ABBREVIATIONS:  
1,1-DCA = 1,1-dichloroethane  
1,2-DCA = 1,2-dichloroethane  
1,1-DCE = 1,1-dichloroethene  
1,1,1-TCA = 1,1,1-trichloroethane  
1,1,2-TCA = 1,1,2-trichloroethane  
TCE = trichloroethene  
PCE = tetrachloroethene

50 FT. WIDE PLATTED COUNTY RIGHT-OF-WAY

K:\172040\90-125L\94-CNT-2 12/02/94 10:04



# EXPLANATION

- MW-14  
85.35

WWC MONITORING WELL LOCATION, IDENTIFICATION, AND GROUND-WATER ELEVATION
- MW-6  
85.05

REED AND ASSOCIATES MONITORING WELL LOCATION, IDENTIFICATION, AND GROUND-WATER ELEVATION
- 85.40

POTENTIOMETRIC SURFACE CONTOUR
- GROUND-WATER FLOW DIRECTION

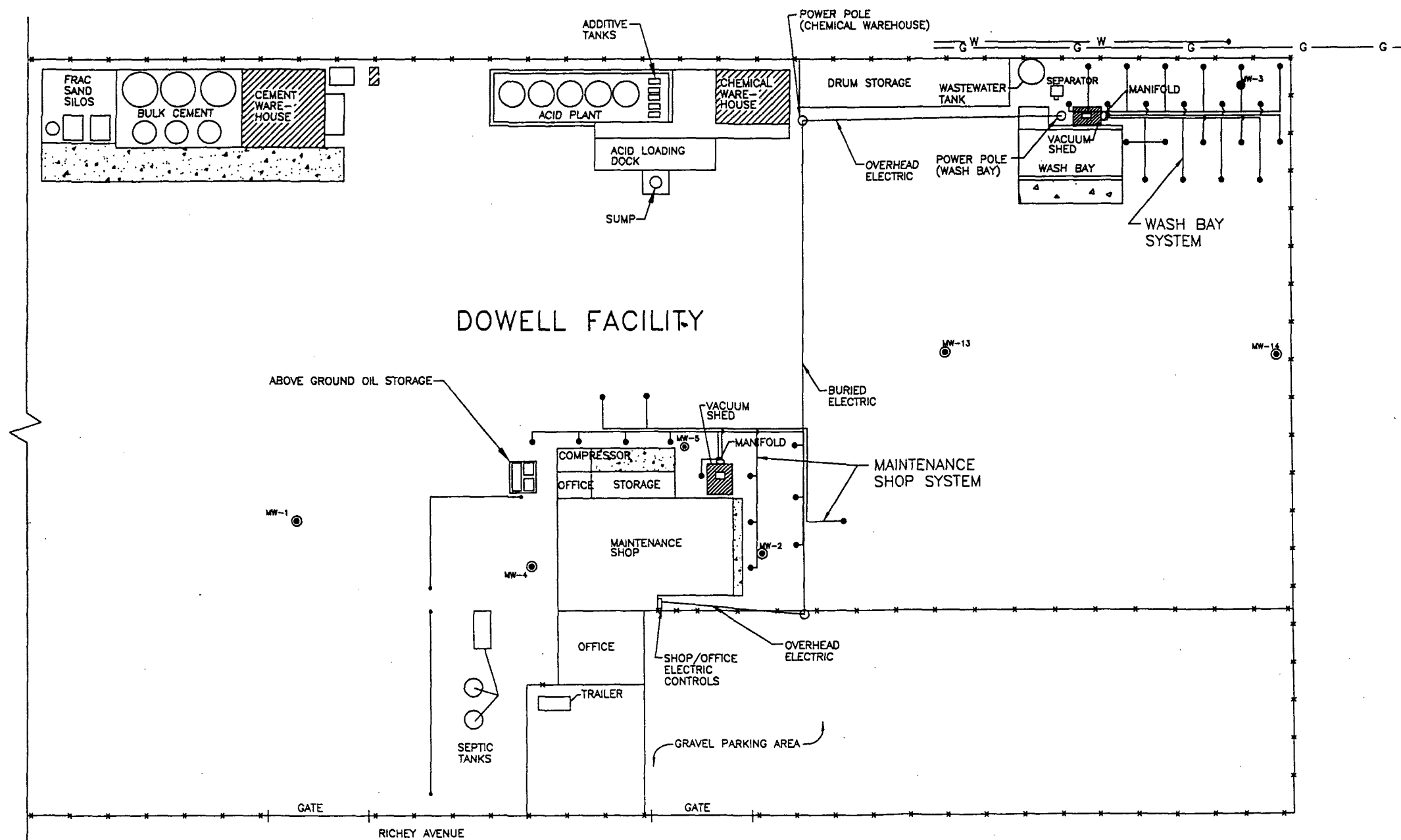
## FIGURE 1

POTENTIOMETRIC SURFACE  
10/04/94

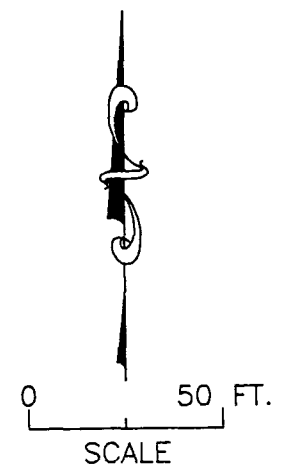
DOWELL SCHLUMBERGER INCORPORATED  
ARTESIA, NEW MEXICO

Western  
Water  
Consultants, Inc.

BASE MAP MODIFIED FROM REED & ASSOCIATES



| EXPLANATION |                                                 |
|-------------|-------------------------------------------------|
|             | WWC MONITORING WELL LOCATION AND IDENTIFICATION |
|             | SOIL VAPOR EXTRACTION (SVE) WELL                |
|             | AIR PIPING WITH DIRECTION OF FLOW               |



**FIGURE 2**  
LOCATION OF SVE SYSTEMS

DOWELL SCHLUMBERGER INCORPORATED  
ARTESIA, NEW MEXICO

Western  
Water  
Consultants, Inc.

**APPENDIX A**

**LABORATORY DATA FOR  
GROUND-WATER SAMPLES**

## COMPANY NAME:

Western Water Consultants

CENREF PROJECT NUMBER:

PR941776

CENREF SAMPLE NUMBER:

7583

SAMPLE IDENTIFICATION:

#90125.1 MW-1

DATE SAMPLED:

10/25/94

DATE/TIME ANALYZED:

11/5/94 @ 0313

## METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | BDL                     |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | BDL                     |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | BDL                     |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | 27                      |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | BDL                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7583  
SAMPLE IDENTIFICATION: #90125.1 MW-1  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | BDL                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

## COMPANY NAME:

Western Water Consultants

## CENREF PROJECT NUMBER:

PR941776

## CENREF SAMPLE NUMBER:

7584

## SAMPLE IDENTIFICATION:

#90125.4 mw - 4

## DATE SAMPLED:

10/25/94

## DATE/TIME ANALYZED:

11/7/94 @ 1459

## METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | 2 J                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | BDL                     |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | BDL                     |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | BDL                     |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | 140                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | 5                       |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7584  
SAMPLE IDENTIFICATION: #90125.4 mw -4  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | (E)                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | 4 J                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.  
B = Compound also detected in the blank.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7584DL

SAMPLE IDENTIFICATION: #90125.4 mw-4 dilution

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/8/94 @ 2130

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 50                   | BDL                     |
| Bromomethane              | 74-83-9        | 50                   | BDL                     |
| Chloroethane              | 75-00-3        | 50                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 25                   | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 25                   | BDL                     |
| 1,1-Dichloroethane        | 75-34-3        | 25                   | BDL                     |
| Total-1,2-Dichloroethene  | 540-59-0       | 25                   | BDL                     |
| Chloroform                | 67-66-3        | 25                   | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 25                   | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 25                   | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 25                   | BDL                     |
| Vinyl Acetate             | 108-05-4       | 50                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 25                   | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 25                   | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 50                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 25                   | BDL                     |
| Trichloroethene           | 79-01-6        | 25                   | BDL                     |
| Dibromochloromethane      | 124-48-1       | 25                   | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 25                   | BDL                     |
| Benzene                   | 71-43-2        | 25                   | 150                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 25                   | BDL                     |
| Bromoform                 | 75-25-2        | 25                   | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 25                   | BDL                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 25                   | BDL                     |
| Toluene                   | 108-88-3       | 25                   | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7584DL  
SAMPLE IDENTIFICATION: #90125.4 mw-4 dilution  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 25                   | BDL                     |
| Ethylbenzene    | 100-41-4       | 25                   | 260                     |
| Styrene         | 100-42-5       | 25                   | BDL                     |
| Xylenes (Total) | 1330-20-7      | 25                   | BDL                     |
| Vinyl Chloride  | 75-01-4        | 50                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

## COMPANY NAME:

Western Water Consultants

CENREF PROJECT NUMBER:

PR941776

CENREF SAMPLE NUMBER:

7585

SAMPLE IDENTIFICATION:

#90125.5 mw-5

DATE SAMPLED:

10/25/94

DATE/TIME ANALYZED:

11/7/94 @ 1540

## METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | 2 J                     |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | 20                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | BDL                     |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | (E)                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | 43                      |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2' continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7585  
SAMPLE IDENTIFICATION: #90125.5 mw-5  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | 59                      |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.  
B = Compound also detected in the blank.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7585DL  
SAMPLE IDENTIFICATION: #90125.5 mw-5 dilution  
DATE SAMPLED: 10/25/94  
DATE/TIME ANALYZED: 11/8/94 @ 2211

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 50                   | BDL                     |
| Bromomethane              | 74-83-9        | 50                   | BDL                     |
| Chloroethane              | 75-00-3        | 50                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 25                   | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 25                   | BDL                     |
| 1,1-Dichloroethane        | 75-34-3        | 25                   | 18 J                    |
| Total-1,2-Dichloroethene  | 540-59-0       | 25                   | BDL                     |
| Chloroform                | 67-66-3        | 25                   | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 25                   | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 25                   | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 25                   | BDL                     |
| Vinyl Acetate             | 108-05-4       | 50                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 25                   | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 25                   | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 50                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 25                   | BDL                     |
| Trichloroethene           | 79-01-6        | 25                   | 8 J                     |
| Dibromochloromethane      | 124-48-1       | 25                   | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 25                   | BDL                     |
| Benzene                   | 71-43-2        | 25                   | 240                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 25                   | BDL                     |
| Bromoform                 | 75-25-2        | 25                   | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 25                   | 34                      |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 25                   | BDL                     |
| Toluene                   | 108-88-3       | 25                   | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7585DL

SAMPLE IDENTIFICATION: #90125.5 mw-dilution

DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 25                   | BDL                     |
| Ethylbenzene    | 100-41-4       | 25                   | 51                      |
| Styrene         | 100-42-5       | 25                   | BDL                     |
| Xylenes (Total) | 1330-20-7      | 25                   | BDL                     |
| Vinyl Chloride  | 75-01-4        | 50                   | BDL                     |

BDL = Below Sample Detection Limit

SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

## COMPANY NAME:

Western Water Consultants

CENREF PROJECT NUMBER:

PR941776

CENREF SAMPLE NUMBER:

7586

SAMPLE IDENTIFICATION:

#90125.15 mw-15

DATE SAMPLED:

10/25/94

DATE/TIME ANALYZED:

11/7/94 @ 1621

## METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | 6                       |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | 29                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | 4 J                     |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | 1 J                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | 6                       |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7586  
SAMPLE IDENTIFICATION: #90125.15 mw-15  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | BDL                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7587

SAMPLE IDENTIFICATION: #90125.13 mw-13

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/7/94 @ 1701

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | 4 J                     |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | 13                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | 4 J                     |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | 11                      |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | 40                      |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7587  
SAMPLE IDENTIFICATION: #90125.13 mw-13  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | BDL                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

## COMPANY NAME:

Western Water Consultants

## CENREF PROJECT NUMBER:

PR941776

## CENREF SAMPLE NUMBER:

7588

## SAMPLE IDENTIFICATION:

#90125.2 mw-2

## DATE SAMPLED:

10/25/94

## DATE/TIME ANALYZED:

11/7/94 @ 1743

## METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | BDL                     |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | 30                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | 1 J                     |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | 45                      |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | 37                      |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7588  
SAMPLE IDENTIFICATION: #90125.2 mw-2  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | 8                       |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7589

SAMPLE IDENTIFICATION: #90125.14 mw-14

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/7/94 @ 1823

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | 94                      |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | 79                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | 1 J                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | BDL                     |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | 10                      |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | (E)                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7589  
SAMPLE IDENTIFICATION: #90125.14 mW - (4  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | BDL                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.  
B = Compound also detected in the blank.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7589DL

SAMPLE IDENTIFICATION: #90125.14 mw-14 dilution

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/8/94 @ 2252

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 20                   | BDL                     |
| Bromomethane              | 74-83-9        | 20                   | BDL                     |
| Chloroethane              | 75-00-3        | 20                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 10                   | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 10                   | 86                      |
| 1,1-Dichloroethane        | 75-34-3        | 10                   | 78                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 10                   | BDL                     |
| Chloroform                | 67-66-3        | 10                   | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 10                   | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 10                   | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 10                   | BDL                     |
| Vinyl Acetate             | 108-05-4       | 20                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 10                   | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 10                   | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 20                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 10                   | BDL                     |
| Trichloroethene           | 79-01-6        | 10                   | BDL                     |
| Dibromochloromethane      | 124-48-1       | 10                   | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 10                   | BDL                     |
| Benzene                   | 71-43-2        | 10                   | 9                       |
| Trans-1,3-Dichloropropene | 10061-02-6     | 10                   | BDL                     |
| Bromoform                 | 75-25-2        | 10                   | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 10                   | 230                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 10                   | BDL                     |
| Toluene                   | 108-88-3       | 10                   | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7589DL

SAMPLE IDENTIFICATION: #90125.14 mw-14 dilution

DATE SAMPLED: 10/25/94

**METHOD EPA 8240**

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 10                   | BDL                     |
| Ethylbenzene    | 100-41-4       | 10                   | BDL                     |
| Styrene         | 100-42-5       | 10                   | BDL                     |
| Xylenes (Total) | 1330-20-7      | 10                   | BDL                     |
| Vinyl chloride  | 75-01-4        | 20                   | BDL                     |

BDL = Below Sample Detection Limit

SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7590  
SAMPLE IDENTIFICATION: #90125.3 MW-3  
DATE SAMPLED: 10/25/94  
DATE/TIME ANALYZED: 11/7/94 @ 1920

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 100                  | BDL                     |
| Bromomethane              | 74-83-9        | 100                  | BDL                     |
| Chloroethane              | 75-00-3        | 100                  | BDL                     |
| Methylene Chloride        | 75-09-2        | 50                   | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 50                   | 64                      |
| 1,1-Dichloroethane        | 75-34-3        | 50                   | 200                     |
| Total-1,2-Dichloroethene  | 540-59-0       | 50                   | BDL                     |
| Chloroform                | 67-66-3        | 50                   | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 50                   | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 50                   | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 50                   | BDL                     |
| Vinyl Acetate             | 108-05-4       | 100                  | BDL                     |
| Bromodichloromethane      | 75-27-4        | 50                   | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 50                   | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 100                  | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 50                   | BDL                     |
| Trichloroethene           | 79-01-6        | 50                   | 130                     |
| Dibromochloromethane      | 124-48-1       | 50                   | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 50                   | BDL                     |
| Benzene                   | 71-43-2        | 50                   | 130                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 50                   | BDL                     |
| Bromoform                 | 75-25-2        | 50                   | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 100                  | BDL                     |
| 2-Hexanone                | 591-78-6       | 100                  | BDL                     |
| Tetrachloroethene         | 127-18-4       | 50                   | BDL                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 50                   | BDL                     |
| Toluene                   | 108-88-3       | 50                   | 250                     |

Page 2 continued

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7590

SAMPLE IDENTIFICATION: #90125.3 mw-3

DATE SAMPLED: 10/25/94

**METHOD EPA 8240**

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 50                   | BDL                     |
| Ethylbenzene    | 100-41-4       | 50                   | 960                     |
| Styrene         | 100-42-5       | 50                   | BDL                     |
| Xylenes (Total) | 1330-20-7      | 50                   | (E)                     |
| Vinyl Chloride  | 75-01-4        | 100                  | BDL                     |

BDL = Below Sample Detection Limit

SDL = Sample Detection Limit

COMMENTS: E = Exceeds the linear range of the instrument.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7590DL

SAMPLE IDENTIFICATION: #90125.3 m w - 3 dilution

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/7/94 @ 1920

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 200                  | BDL                     |
| Bromomethane              | 74-83-9        | 200                  | BDL                     |
| Chloroethane              | 75-00-3        | 200                  | BDL                     |
| Methylene Chloride        | 75-09-2        | 100                  | BDL                     |
| Acetone                   | 67-64-1        | 200                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 200                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 100                  | 54 J                    |
| 1,1-Dichloroethane        | 75-34-3        | 100                  | 180                     |
| Total-1,2-Dichloroethene  | 540-59-0       | 100                  | BDL                     |
| Chloroform                | 67-66-3        | 100                  | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 100                  | BDL                     |
| 2-Butanone                | 78-93-3        | 200                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 100                  | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 100                  | BDL                     |
| Vinyl Acetate             | 108-05-4       | 200                  | BDL                     |
| Bromodichloromethane      | 75-27-4        | 100                  | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 100                  | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 200                  | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 100                  | BDL                     |
| Trichloroethene           | 79-01-6        | 100                  | 100                     |
| Dibromochloromethane      | 124-48-1       | 100                  | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 100                  | BDL                     |
| Benzene                   | 71-43-2        | 100                  | 110                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 100                  | BDL                     |
| Bromoform                 | 75-25-2        | 100                  | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 200                  | BDL                     |
| 2-Hexanone                | 591-78-6       | 200                  | BDL                     |
| Tetrachloroethene         | 127-18-4       | 100                  | 21 J                    |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 100                  | BDL                     |
| Toluene                   | 108-88-3       | 100                  | 210                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7590DL  
SAMPLE IDENTIFICATION: #90125.3 mw-3 dilution  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 100                  | BDL                     |
| Ethylbenzene    | 100-41-4       | 100                  | 810                     |
| Styrene         | 100-42-5       | 100                  | BDL                     |
| Xylenes (Total) | 1330-20-7      | 100                  | 4200                    |
| Vinyl Chloride  | 75-01-4        | 200                  | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7591

SAMPLE IDENTIFICATION: #90125.30 duplicate MW-3

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/7/94 @ 2002

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 100                  | BDL                     |
| Bromomethane              | 74-83-9        | 100                  | BDL                     |
| Chloroethane              | 75-00-3        | 100                  | BDL                     |
| Methylene Chloride        | 75-09-2        | 50                   | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 50                   | 51                      |
| 1,1-Dichloroethane        | 75-34-3        | 50                   | 180                     |
| Total-1,2-Dichloroethene  | 540-59-0       | 50                   | BDL                     |
| Chloroform                | 67-66-3        | 50                   | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 50                   | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 50                   | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 50                   | BDL                     |
| Vinyl Acetate             | 108-05-4       | 100                  | BDL                     |
| Bromodichloromethane      | 75-27-4        | 50                   | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 50                   | BDL                     |
| 0-Chloroethyl Vinyl Ether | 110-75-8       | 100                  | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 50                   | BDL                     |
| Trichloroethene           | 79-01-6        | 50                   | 100                     |
| Dibromochloromethane      | 124-48-1       | 50                   | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 50                   | BDL                     |
| Benzene                   | 71-43-2        | 50                   | 110                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 50                   | BDL                     |
| Bromoform                 | 75-25-2        | 50                   | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 100                  | BDL                     |
| 2-Hexanone                | 591-78-6       | 100                  | BDL                     |
| Tetrachloroethene         | 127-18-4       | 50                   | 24 J                    |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 50                   | BDL                     |
| Toluene                   | 108-88-3       | 50                   | 300                     |

Page 2 continued

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7591

SAMPLE IDENTIFICATION: #90125.30 duplicate Ww-3

DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 50                   | BDL                     |
| Ethylbenzene    | 100-41-4       | 50                   | 830                     |
| Styrene         | 100-42-5       | 50                   | BDL                     |
| Xylenes (Total) | 1330-20-7      | 50                   | (E)                     |
| Vinyl Chloride  | 75-01-4        | 100                  | BDL                     |

BDL = Below Sample Detection Limit

SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

B = Compound also detected in the blank.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7591DL

SAMPLE IDENTIFICATION: #90125.30 duplicate MW-3 dilution

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/8/94 @ 2031

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 200                  | BDL                     |
| Bromomethane              | 74-83-9        | 200                  | BDL                     |
| Chloroethane              | 75-00-3        | 200                  | BDL                     |
| Methylene Chloride        | 75-09-2        | 100                  | BDL                     |
| Acetone                   | 67-64-1        | 200                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 200                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 100                  | 52 J                    |
| 1,1-Dichloroethane        | 75-34-3        | 100                  | 180                     |
| Total-1,2-Dichloroethene  | 540-59-0       | 100                  | BDL                     |
| Chloroform                | 67-66-3        | 100                  | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 100                  | BDL                     |
| 2-Butanone                | 78-93-3        | 200                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 100                  | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 100                  | BDL                     |
| Vinyl Acetate             | 108-05-4       | 200                  | BDL                     |
| Bromodichloromethane      | 75-27-4        | 100                  | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 100                  | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 200                  | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 100                  | BDL                     |
| Trichloroethene           | 79-01-6        | 100                  | 100                     |
| Dibromochloromethane      | 124-48-1       | 100                  | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 100                  | BDL                     |
| Benzene                   | 71-43-2        | 100                  | 110                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 100                  | BDL                     |
| Bromoform                 | 75-25-2        | 100                  | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 200                  | BDL                     |
| 2-Hexanone                | 591-78-6       | 200                  | BDL                     |
| Tetrachloroethene         | 127-18-4       | 100                  | 22 J                    |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 100                  | BDL                     |
| Toluene                   | 108-88-3       | 100                  | 250                     |

Page 2 continued

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7591DL

SAMPLE IDENTIFICATION: #90125.30 duplicate MW-3 dilution

DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 100                  | BDL                     |
| Ethylbenzene    | 100-41-4       | 100                  | 860                     |
| Styrene         | 100-42-5       | 100                  | BDL                     |
| Xylenes (Total) | 1330-20-7      | 100                  | 4700                    |
| Vinyl Chloride  | 75-01-4        | 200                  | BDL                     |

BDL = Below Sample Detection Limit

SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7592

SAMPLE IDENTIFICATION: #90125.10 MW-10

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/7/94 @ 2043

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | 51                      |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | BDL                     |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | BDL                     |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | BDL                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | BDL                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7592  
SAMPLE IDENTIFICATION: #90125.10 mw-10  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | BDL                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7593

SAMPLE IDENTIFICATION: #90125.9 mw -9

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/7/94 @ 2124

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | BDL                     |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | 14                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | BDL                     |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | BDL                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | BDL                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7593  
SAMPLE IDENTIFICATION: #90125.9 mw-9  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | BDL                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7594

SAMPLE IDENTIFICATION: #90125.6 mw -6

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/7/94 @ 2204

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | 79                      |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | 12                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | BDL                     |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | BDL                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | 59                      |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7594

SAMPLE IDENTIFICATION: #90125.6 mw-6

DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | BDL                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit

SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7595  
SAMPLE IDENTIFICATION: #90125.7 mw -7  
DATE SAMPLED: 10/25/94  
DATE/TIME ANALYZED: 11/7/94 @ 2245

**METHOD EPA 8240**

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | (E)                     |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | 33                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | 50                      |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | 7                       |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | (E)                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7595  
SAMPLE IDENTIFICATION: #90125.7 mw-7  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | BDL                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: E = Exceeds the linear range of the instrument.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7595DL

SAMPLE IDENTIFICATION: #90125.7 mw-7 dilution

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/9/94 @ 0014

**METHOD EPA 8240**

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 50                   | BDL                     |
| Bromomethane              | 74-83-9        | 50                   | BDL                     |
| Chloroethane              | 75-00-3        | 50                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 25                   | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 25                   | 230                     |
| 1,1-Dichloroethane        | 75-34-3        | 25                   | 31                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 25                   | BDL                     |
| Chloroform                | 67-66-3        | 25                   | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 25                   | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 25                   | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 25                   | BDL                     |
| Vinyl Acetate             | 108-05-4       | 50                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 25                   | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 25                   | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 50                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 25                   | BDL                     |
| Trichloroethene           | 79-01-6        | 25                   | BDL                     |
| Dibromochloromethane      | 124-48-1       | 25                   | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 25                   | BDL                     |
| Benzene                   | 71-43-2        | 25                   | 7 J                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 25                   | BDL                     |
| Bromoform                 | 75-25-2        | 25                   | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 25                   | 240                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 25                   | BDL                     |
| Toluene                   | 108-88-3       | 25                   | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7595DL  
SAMPLE IDENTIFICATION: #90125.7 mw-7 dilution  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 25                   | BDL                     |
| Ethylbenzene    | 100-41-4       | 25                   | BDL                     |
| Styrene         | 100-42-5       | 25                   | BDL                     |
| Xylenes (Total) | 1330-20-7      | 25                   | BDL                     |
| Vinyl Chloride  | 75-01-4        | 50                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7596  
SAMPLE IDENTIFICATION: #90125.8 mw-8  
DATE SAMPLED: 10/25/94  
DATE/TIME ANALYZED: 11/7/94 @ 2326

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | 82                      |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | 8                       |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | 10                      |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | BDL                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | 19                      |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7596  
SAMPLE IDENTIFICATION: #90125.8 mw-8  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | BDL                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

## COMPANY NAME:

Western Water Consultants

CENREF PROJECT NUMBER:

PR941776

CENREF SAMPLE NUMBER:

7597

SAMPLE IDENTIFICATION:

#90125.12 MW-12

DATE SAMPLED:

10/25/94

DATE/TIME ANALYZED:

11/9/94 @ 0055

## METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 50                   | BDL                     |
| Bromomethane              | 74-83-9        | 50                   | BDL                     |
| Chloroethane              | 75-00-3        | 50                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 25                   | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 25                   | 85                      |
| 1,1-Dichloroethane        | 75-34-3        | 25                   | 160                     |
| Total-1,2-Dichloroethene  | 540-59-0       | 25                   | BDL                     |
| Chloroform                | 67-66-3        | 25                   | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 25                   | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 25                   | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 25                   | BDL                     |
| Vinyl Acetate             | 108-05-4       | 50                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 25                   | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 25                   | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 50                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 25                   | BDL                     |
| Trichloroethene           | 79-01-6        | 25                   | 120                     |
| Dibromochloromethane      | 124-48-1       | 25                   | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 25                   | BDL                     |
| Benzene                   | 71-43-2        | 25                   | 96                      |
| Trans-1,3-Dichloropropene | 10061-02-6     | 25                   | BDL                     |
| Bromoform                 | 75-25-2        | 25                   | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 25                   | 15 J                    |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 25                   | BDL                     |
| Toluene                   | 108-88-3       | 25                   | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7597

SAMPLE IDENTIFICATION: #90125.12 mw -12

DATE SAMPLED: 10/25/94

**METHOD EPA 8240**

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 25                   | BDL                     |
| Ethylbenzene    | 100-41-4       | 25                   | 660                     |
| Styrene         | 100-42-5       | 25                   | BDL                     |
| Xylenes (Total) | 1330-20-7      | 25                   | 100                     |
| Vinyl Chloride  | 75-01-4        | 50                   | BDL                     |

BDL = Below Sample Detection Limit

SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7598  
SAMPLE IDENTIFICATION: #90125.11 MW-11  
DATE SAMPLED: 10/25/94  
DATE/TIME ANALYZED: 11/8/94 @ 0048

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | (E)                     |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | 67                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | 1 J                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | 110                     |
| Dibromochloromethane      | 124-48-1       | 5                    | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | 9                       |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | (E)                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7598  
SAMPLE IDENTIFICATION: #90125.11 mw-11  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | BDL                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | BDL                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.  
B = Compound also detected in the blank.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7598DL  
SAMPLE IDENTIFICATION: #90125.11 mw-11 dilution  
DATE SAMPLED: 10/25/94  
DATE/TIME ANALYZED: 11/9/94 @ 0136

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 50                   | BDL                     |
| Bromomethane              | 74-83-9        | 50                   | BDL                     |
| Chloroethane              | 75-00-3        | 50                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 25                   | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 25                   | 220                     |
| 1,1-Dichloroethane        | 75-34-3        | 25                   | 52                      |
| Total-1,2-Dichloroethene  | 540-59-0       | 25                   | BDL                     |
| Chloroform                | 67-66-3        | 25                   | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 25                   | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 25                   | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 25                   | BDL                     |
| Vinyl Acetate             | 108-05-4       | 50                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 25                   | BDL                     |
| 1,2-Dichloropropane       | 78-87-5        | 25                   | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 50                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 25                   | BDL                     |
| Trichloroethene           | 79-01-6        | 25                   | 84                      |
| Dibromochloromethane      | 124-48-1       | 25                   | BDL                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 25                   | BDL                     |
| Benzene                   | 71-43-2        | 25                   | BDL                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 25                   | BDL                     |
| Bromoform                 | 75-25-2        | 25                   | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 25                   | 300                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 25                   | BDL                     |
| Toluene                   | 108-88-3       | 25                   | BDL                     |

Page 2 continued

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7598DL

SAMPLE IDENTIFICATION: #90125.12-11 mw-11 dilution

DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 25                   | BDL                     |
| Ethylbenzene    | 100-41-4       | 25                   | BDL                     |
| Styrene         | 100-42-5       | 25                   | BDL                     |
| Xylenes (Total) | 1330-20-7      | 25                   | BDL                     |
| Vinyl Chloride  | 75-01-4        | 50                   | BDL                     |

BDL = Below Sample Detection Limit

SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

## COMPANY NAME:

Western Water Consultants

## CENREF PROJECT NUMBER:

PR941776

## CENREF SAMPLE NUMBER:

7599

## SAMPLE IDENTIFICATION:

#90125.70 duplicate MW-7 1

## DATE SAMPLED:

10/25/94

## DATE/TIME ANALYZED:

11/8/94 @ 1238

## METHOD EPA 8240

ANALYSISCAS NO.SDL  
(ug/l)RESULT  
(ug/l)

Chloromethane

74-87-3

50

BDL

Bromomethane

74-83-9

50

BDL

Chloroethane

75-00-3

50

BDL

Methylene Chloride

75-09-2

25

BDL

Acetone

67-64-1

100

BDL

Carbon Disulfide

75-15-0

100

BDL

1,1-Dichloroethene

75-35-4

25

200

1,1-Dichloroethane

75-34-3

25

26

Total-1,2-Dichloroethene

540-59-0

25

BDL

Chloroform

67-66-3

25

BDL

1,2-Dichloroethane

107-06-2

25

BDL

2-Butanone

78-93-3

100

BDL

1,1,1-Trichloroethane

71-55-6

25

BDL

Carbon Tetrachloride

56-23-5

25

BDL

Vinyl Acetate

108-05-4

50

BDL

Bromodichloromethane

75-27-4

25

BDL

1,2-Dichloropropane

78-87-5

25

BDL

2-Chloroethyl Vinyl Ether

110-75-8

50

BDL

Cis-1,3-Dichloropropene

10061-01-5

25

BDL

Trichloroethene

79-01-6

25

45

Dibromochloromethane

124-48-1

25

BDL

1,1,2-Trichloroethane

79-00-5

25

BDL

Benzene

71-43-2

25

6 J

Trans-1,3-Dichloropropene

10061-02-6

25

BDL

Bromoform

75-25-2

25

BDL

4-Methyl-2-Pentanone

108-10-1

50

BDL

2-Hexanone

591-78-6

50

BDL

Tetrachloroethene

127-18-4

25

230

1,1,2,2-Tetrachloroethane

79-34-5

25

BDL

Toluene

108-88-3

25

BDL

Page 2 continued

COMPANY NAME:

Western Water Consultants

CENREF PROJECT NUMBER:

PR941776

CENREF SAMPLE NUMBER:

7599

SAMPLE IDENTIFICATION:

#90125.70 duplicate MW-7

DATE SAMPLED:

10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 25                   | BDL                     |
| Ethylbenzene    | 100-41-4       | 25                   | BDL                     |
| Styrene         | 100-42-5       | 25                   | BDL                     |
| Xylenes (Total) | 1330-20-7      | 25                   | BDL                     |
| Vinyl Chloride  | 75-01-4        | 50                   | BDL                     |

BDL = Below Sample Detection Limit

SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR941776

CENREF SAMPLE NUMBER: 7600

SAMPLE IDENTIFICATION: #90125.0110 Trip blank

DATE SAMPLED: 10/25/94

DATE/TIME ANALYZED: 11/8/94 @ 1316

METHOD EPA 8240

| <u>ANALYSIS</u>           | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|---------------------------|----------------|----------------------|-------------------------|
| Chloromethane             | 74-87-3        | 10                   | BDL                     |
| Bromomethane              | 74-83-9        | 10                   | BDL                     |
| Chloroethane              | 75-00-3        | 10                   | BDL                     |
| Methylene Chloride        | 75-09-2        | 5                    | BDL                     |
| Acetone                   | 67-64-1        | 100                  | BDL                     |
| Carbon Disulfide          | 75-15-0        | 100                  | BDL                     |
| 1,1-Dichloroethene        | 75-35-4        | 5                    | BDL                     |
| 1,1-Dichloroethane        | 75-34-3        | 5                    | BDL                     |
| Total-1,2-Dichloroethene  | 540-59-0       | 5                    | BDL                     |
| Chloroform                | 67-66-3        | 5                    | BDL                     |
| 1,2-Dichloroethane        | 107-06-2       | 5                    | BDL                     |
| 2-Butanone                | 78-93-3        | 100                  | BDL                     |
| 1,1,1-Trichloroethane     | 71-55-6        | 5                    | BDL                     |
| Carbon Tetrachloride      | 56-23-5        | 5                    | BDL                     |
| Vinyl Acetate             | 108-05-4       | 10                   | BDL                     |
| Bromodichloromethane      | 75-27-4        | 5                    | 1 J                     |
| 1,2-Dichloropropane       | 78-87-5        | 5                    | BDL                     |
| 2-Chloroethyl Vinyl Ether | 110-75-8       | 10                   | BDL                     |
| Cis-1,3-Dichloropropene   | 10061-01-5     | 5                    | BDL                     |
| Trichloroethene           | 79-01-6        | 5                    | BDL                     |
| Dibromochloromethane      | 124-48-1       | 5                    | 2 J                     |
| 1,1,2-Trichloroethane     | 79-00-5        | 5                    | BDL                     |
| Benzene                   | 71-43-2        | 5                    | BDL                     |
| Trans-1,3-Dichloropropene | 10061-02-6     | 5                    | BDL                     |
| Bromoform                 | 75-25-2        | 5                    | BDL                     |
| 4-Methyl-2-Pentanone      | 108-10-1       | 50                   | BDL                     |
| 2-Hexanone                | 591-78-6       | 50                   | BDL                     |
| Tetrachloroethene         | 127-18-4       | 5                    | BDL                     |
| 1,1,2,2-Tetrachloroethane | 79-34-5        | 5                    | BDL                     |
| Toluene                   | 108-88-3       | 5                    | 3 J                     |

Page 2 continued

COMPANY NAME: Western Water Consultants  
CENREF PROJECT NUMBER: PR941776  
CENREF SAMPLE NUMBER: 7600  
SAMPLE IDENTIFICATION: #90125.0110 Trip blank  
DATE SAMPLED: 10/25/94

METHOD EPA 8240

| <u>ANALYSIS</u> | <u>CAS NO.</u> | <u>SDL</u><br>(ug/l) | <u>RESULT</u><br>(ug/l) |
|-----------------|----------------|----------------------|-------------------------|
| Chlorobenzene   | 108-90-7       | 5                    | BDL                     |
| Ethylbenzene    | 100-41-4       | 5                    | BDL                     |
| Styrene         | 100-42-5       | 5                    | BDL                     |
| Xylenes (Total) | 1330-20-7      | 5                    | 1 J                     |
| Vinyl Chloride  | 75-01-4        | 10                   | BDL                     |

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

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# WESTERN WATER CONSULTANTS, INC.

Engineering • Hydrology • Hydrogeology • Waste Management • Construction Administration

611 SKYLINE ROAD, P.O. BOX 4128 • LARAMIE, WYOMING 82071 • (307) 742-0031 • FAX (307) 721-2913

December 12, 1994

Mr. John A. Miller  
Remediation Manager  
Dowell Schlumberger Incorporated  
300 Schlumberger Drive  
Sugar Land, TX 77478

RE: Draft Report to Mr. Tony Moreland, New Mexico Environment Department: October 1994 Ground-water Monitoring Event and SVE Progress Report, Artesia, New Mexico.  
WWC JN 90-125L.3&4

Dear John:

Enclosed please find the draft letter report documenting monitoring for the August 1994 through October 1994 quarter at the Dowell Schlumberger Incorporated facility in Artesia, New Mexico. Included in this report are quarterly ground-water monitoring and operational data from the SVE system. Ground-water monitoring was conducted on October 24 and 25, 1994. Documentation of the installation and soil sampling of additional soil vapor extraction (SVE) wells which occurred on October 10 - 12, 1994 was included in the plans and specifications for the northern expansion of the wash bay SVE system prepared by Rick Deuell and sent to you on December 8, 1994.

A draft letter to Mr. Kiddy presenting the October 1994 analytical results from ground-water samples collected from wells on his property was sent to you under separate cover on December 1, 1994.

If you have questions or comments, please contact Susan Fields, Rick Deuell, or me at (307) 742-0031.

Sincerely,



Robin Daley  
Geologist

RD/jb  
Enclosures  
cc: Brent Schindler w/enclosures  
File: 90-125L-B

OTHER LOCATIONS

1949 SUGARLAND DRIVE, SUITE 134  
SHERIDAN, WYOMING 82801  
(307) 672-0761  
FAX (307) 674-4265

701 ANTLER DRIVE, SUITE 233  
CASPER, WY 82601  
(307) 473-2707  
FAX (307) 237-0828

**APPENDIX B**

**LABORATORY DATA FOR  
SVE EMISSIONS**



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS  
ATTN: SCOTT GUSTIN  
PO BOX 4128  
LARAMIE, WY 82071

Receiving Date: 09/09/94  
Reporting Date: 09/14/94  
Project Number: H1787  
Project Location: DOWELL - ARTESIA  
Project Name: 90-125  
Sample ID: MS-2  
Lab Number: H1787-1

Analysis Date: 09/13/94  
Sampling Date: NONE GIVEN  
Sample Type: AIR  
Sample Condition: INTACT  
Sample Received By: RKT  
Analyzed By: SL

VOLATILE ORGANIC

COMPOUNDS IN AIR - (ppm)

Detection Limit      Sample Result      Method      True Value  
                                 H1787-1      Blank      QC      %IA      QC

|    |                           |       |        |        |       |     |       |
|----|---------------------------|-------|--------|--------|-------|-----|-------|
| 1  | Acetone                   | 0.001 | <0.001 | <0.001 | 89.0  | 89  | 100.0 |
| 2  | 1,1-Dichloroethene        | 0.001 | <0.001 | <0.001 | 87.0  | 87  | 100.0 |
| 3  | Methylene Chloride        | 0.001 | <0.001 | <0.001 | 89.0  | 89  | 100.0 |
| 4  | trans-1,2-Dichloroethene  | 0.001 | <0.001 | <0.001 | 87.0  | 87  | 100.0 |
| 5  | 1,1-Dichloroethene        | 0.001 | <0.001 | <0.001 | 85.0  | 85  | 100.0 |
| 6  | 2-Butanone                | 0.001 | <0.001 | <0.001 | 107.0 | 107 | 100.0 |
| 7  | cis-1,2-Dichloroethene    | 0.001 | <0.001 | <0.001 | 87.0  | 87  | 100.0 |
| 8  | Chloroform                | 0.001 | <0.001 | <0.001 | 86.0  | 86  | 100.0 |
| 9  | 1,1,1-Trichloroethane     | 0.001 | 0.305  | <0.001 | 88.0  | 88  | 100.0 |
| 10 | 1,2-Dichloroethane        | 0.001 | <0.001 | <0.001 | 85.0  | 85  | 100.0 |
| 11 | Benzene                   | 0.001 | <0.001 | <0.001 | 86.0  | 86  | 100.0 |
| 12 | Carbon Tetrachloride      | 0.001 | <0.001 | <0.001 | 87.0  | 87  | 100.0 |
| 13 | Trichloroethene           | 0.001 | <0.001 | <0.001 | 83.0  | 83  | 100.0 |
| 14 | Bromodichloromethane      | 0.001 | <0.001 | <0.001 | 80.0  | 80  | 100.0 |
| 15 | trans-1,3-Dichloropropene | 0.001 | <0.001 | <0.001 | 86.0  | 86  | 100.0 |
| 16 | cis-1,3-Dichloropropene   | 0.001 | <0.001 | <0.001 | 82.0  | 82  | 100.0 |
| 17 | Toluene                   | 0.001 | <0.001 | <0.001 | 85.0  | 85  | 100.0 |
| 18 | 1,2-Dichloropropane       | 0.001 | <0.001 | <0.001 | 82.0  | 82  | 100.0 |
| 19 | 1,1,2-Trichloroethane     | 0.001 | <0.001 | <0.001 | 82.0  | 82  | 100.0 |
| 20 | Tetrachloroethane         | 0.001 | <0.001 | <0.001 | 87.0  | 87  | 100.0 |
| 21 | Dibromochloromethane      | 0.001 | <0.001 | <0.001 | 86.0  | 86  | 100.0 |
| 22 | Chlorobenzene             | 0.001 | <0.001 | <0.001 | 86.0  | 86  | 100.0 |
| 23 | Ethyl Benzene             | 0.001 | <0.001 | <0.001 | 86.0  | 86  | 100.0 |
| 24 | m,p-Xylene                | 0.001 | <0.001 | <0.001 | 86.0  | 86  | 100.0 |
| 25 | Bromoform                 | 0.001 | <0.001 | <0.001 | 82.0  | 82  | 100.0 |
| 26 | Styrene                   | 0.001 | <0.001 | <0.001 | 89.0  | 89  | 100.0 |



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PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS  
ATTN: SCOTT GUSTIN  
PO BOX 4128  
LARAMIE, WY 82071

Receiving Date: 09/09/94  
Reporting Date: 09/14/94  
Project Number: H1787  
Project Location: DOWELL - ARTESIA  
Project Name: 90-125  
Sample ID: MS-2  
Lab Number: H1787-1

Analysis Date: 09/13/94  
Sampling Date: NONE GIVEN  
Sample Type: AIR  
Sample Condition: INTACT  
Sample Received By: RKT  
Analyzed By: SL

**VOLATILE ORGANIC**

COMPOUNDS IN AIR - (ppm)

|                              | Detection<br>Limit | Sample Result<br>H1787-1 | Method<br>Blank | QC   | True Value |       |
|------------------------------|--------------------|--------------------------|-----------------|------|------------|-------|
|                              |                    |                          |                 |      | %IA        | QC    |
| 27 o-Xylene                  | 0.001              | <0.001                   | <0.001          | 89.0 | 89         | 100.0 |
| 28 1,1,2,2-Tetrachloroethane | 0.001              | <0.001                   | <0.001          | 85.0 | 85         | 100.0 |

|                         | % Recovery | Relative Percent Difference |
|-------------------------|------------|-----------------------------|
| 29 Dibromofluoromethane | 66         | 3                           |
| 30 Toluene-D8           | 96         | 6                           |
| 31 4-Bromofluorobenzene | 106        | 2                           |

METHOD: EPA 846-8240

  
Gayle A. Potter, President

09/14/94  
Date

PLEASE NOTE: Liability and Damages. CARDINAL's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by CARDINAL within thirty (30) days after completion of the applicable service. In no event shall CARDINAL be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by CARDINAL, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS  
ATTN: SCOTT GUSTIN  
PO BOX 4128  
LARAMIE, WY 82071

Receiving Date: 09/09/94  
Reporting Date: 09/14/94  
Project Number: H1787  
Project Location: DOWELL - ARTESIA  
Project Name: 90-125  
Sample ID: WB-2  
Lab Number: H1787-2

Analysis Date: 09/13/94  
Sampling Date: NONE GIVEN  
Sample Type: AIR  
Sample Condition: INTACT  
Sample Received By: RKT  
Analyzed By: SL

VOLATILE ORGANIC

COMPOUNDS IN AIR - (ppm)

|                              | Detection<br>Limit | Sample Result<br>H1787-2 | Method<br>Blank | QC    | True Value<br>%IA | QC    |
|------------------------------|--------------------|--------------------------|-----------------|-------|-------------------|-------|
| 1 Acetone                    | 0.001              | <0.001                   | <0.001          | 89.0  | 89                | 100.0 |
| 2 1,1-Dichloroethene         | 0.001              | <0.001                   | <0.001          | 87.0  | 87                | 100.0 |
| 3 Methylene Chloride         | 0.001              | <0.001                   | <0.001          | 89.0  | 89                | 100.0 |
| 4 trans-1,2-Dichloroethene   | 0.001              | <0.001                   | <0.001          | 87.0  | 87                | 100.0 |
| 5 1,1-Dichloroethene         | 0.001              | <0.001                   | <0.001          | 85.0  | 85                | 100.0 |
| 6 2-Butanone                 | 0.001              | 1.280                    | <0.001          | 107.0 | 107               | 100.0 |
| 7 cis-1,2-Dichloroethene     | 0.001              | <0.001                   | <0.001          | 87.0  | 87                | 100.0 |
| 8 Chloroform                 | 0.001              | <0.001                   | <0.001          | 86.0  | 86                | 100.0 |
| 9 1,1,1-Trichloroethane      | 0.001              | <0.001                   | <0.001          | 88.0  | 88                | 100.0 |
| 10 1,2-Dichloroethane        | 0.001              | <0.001                   | <0.001          | 85.0  | 85                | 100.0 |
| 11 Benzene                   | 0.001              | <0.001                   | <0.001          | 86.0  | 86                | 100.0 |
| 12 Carbon Tetrachloride      | 0.001              | <0.001                   | <0.001          | 87.0  | 87                | 100.0 |
| 13 Trichloroethene           | 0.001              | <0.001                   | <0.001          | 83.0  | 83                | 100.0 |
| 14 Bromodichloromethane      | 0.001              | <0.001                   | <0.001          | 80.0  | 80                | 100.0 |
| 15 trans-1,3-Dichloropropene | 0.001              | <0.001                   | <0.001          | 86.0  | 86                | 100.0 |
| 16 cis-1,3-Dichloropropene   | 0.001              | <0.001                   | <0.001          | 82.0  | 82                | 100.0 |
| 17 Toluene                   | 0.001              | 0.441                    | <0.001          | 85.0  | 85                | 100.0 |
| 18 1,2-Dichloropropane       | 0.001              | <0.001                   | <0.001          | 82.0  | 82                | 100.0 |
| 19 1,1,2-Trichloroethane     | 0.001              | <0.001                   | <0.001          | 82.0  | 82                | 100.0 |
| 20 Tetrachloroethane         | 0.001              | <0.001                   | <0.001          | 87.0  | 87                | 100.0 |
| 21 Dibromochloromethane      | 0.001              | <0.001                   | <0.001          | 86.0  | 86                | 100.0 |
| 22 Chlorobenzene             | 0.001              | <0.001                   | <0.001          | 86.0  | 86                | 100.0 |
| 23 Ethyl Benzene             | 0.001              | 0.449                    | <0.001          | 86.0  | 86                | 100.0 |
| 24 m,p-Xylene                | 0.001              | 1.227                    | <0.001          | 86.0  | 86                | 100.0 |
| 25 Bromoform                 | 0.001              | <0.001                   | <0.001          | 82.0  | 82                | 100.0 |
| 26 Styrene                   | 0.001              | <0.001                   | <0.001          | 89.0  | 89                | 100.0 |



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ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS  
ATTN: SCOTT GUSTIN  
PO BOX 4128  
LARAMIE, WY 82071

Receiving Date: 09/09/94  
Reporting Date: 09/14/94  
Project Number: H1787  
Project Location: DOWELL - ARTESIA  
Project Name: 90-125  
Sample ID: WB-2  
Lab Number: H1787-2

Analysis Date: 09/13/94  
Sampling Date: NONE GIVEN  
Sample Type: AIR  
Sample Condition: INTACT  
Sample Received By: RKT  
Analyzed By: SL

VOLATILE ORGANIC

COMPOUNDS IN AIR - (ppm)

|                              | Detection<br>Limit | Sample Result<br>H1787-2 | Method<br>Blank | QC   | True Value |       |
|------------------------------|--------------------|--------------------------|-----------------|------|------------|-------|
|                              |                    |                          |                 |      | %IA        | QC    |
| 27 o-Xylene                  | 0.001              | 2.890                    | <0.001          | 89.0 | 89         | 100.0 |
| 28 1,1,2,2-Tetrachloroethane | 0.001              | <0.001                   | <0.001          | 85.0 | 85         | 100.0 |

|                         | % Recovery | Relative Percent Difference |
|-------------------------|------------|-----------------------------|
| 29 Dibromofluoromethane | MI         | 3                           |
| 30 Toluene-D8           | 63         | 6                           |
| 31 4-Bromofluorobenzene | 91         | 2                           |

METHOD: EPA 846-8240  
MI - Matrix Interference

Gayle A. Potter, President

09/14/94  
Date

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ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS  
ATTN: SCOTT GUSTIN  
PO BOX 4128  
LARAMIE, WY 82071

Receiving Date: 09/09/94  
Reporting Date: 09/14/94  
Project Number: H1787  
Project Location: DOWELL - ARTESIA  
Project Name: 90-125  
Sample ID: WB-3  
Lab Number: H1787-3

Analysis Date: 09/13/94  
Sampling Date: NONE GIVEN  
Sample Type: AIR  
Sample Condition: INTACT  
Sample Received By: RKT  
Analyzed By: SL

VOLATILE ORGANIC

COMPOUNDS IN AIR - (ppm)

|                              | Detection<br>Limit | Sample Result<br>H1787-3 | Method<br>Blank | QC    | %IA | True Value<br>QC |
|------------------------------|--------------------|--------------------------|-----------------|-------|-----|------------------|
| 1 Acetone                    | 0.001              | <0.001                   | <0.001          | 89.0  | 89  | 100.0            |
| 2 1,1-Dichloroethene         | 0.001              | <0.001                   | <0.001          | 87.0  | 87  | 100.0            |
| 3 Methylene Chloride         | 0.001              | <0.001                   | <0.001          | 89.0  | 89  | 100.0            |
| 4 trans-1,2-Dichloroethene   | 0.001              | <0.001                   | <0.001          | 87.0  | 87  | 100.0            |
| 5 1,1-Dichloroethene         | 0.001              | <0.001                   | <0.001          | 85.0  | 85  | 100.0            |
| 6 2-Butanone                 | 0.001              | <0.001                   | <0.001          | 107.0 | 107 | 100.0            |
| 7 cis-1,2-Dichloroethene     | 0.001              | <0.001                   | <0.001          | 87.0  | 87  | 100.0            |
| 8 Chloroform                 | 0.001              | <0.001                   | <0.001          | 86.0  | 86  | 100.0            |
| 9 1,1,1-Trichloroethane      | 0.001              | 0.156                    | <0.001          | 88.0  | 88  | 100.0            |
| 10 1,2-Dichloroethane        | 0.001              | <0.001                   | <0.001          | 85.0  | 85  | 100.0            |
| 11 Benzene                   | 0.001              | <0.001                   | <0.001          | 86.0  | 86  | 100.0            |
| 12 Carbon Tetrachloride      | 0.001              | <0.001                   | <0.001          | 87.0  | 87  | 100.0            |
| 13 Trichloroethene           | 0.001              | <0.001                   | <0.001          | 83.0  | 83  | 100.0            |
| 14 Bromodichloromethane      | 0.001              | <0.001                   | <0.001          | 80.0  | 80  | 100.0            |
| 15 trans-1,3-Dichloropropene | 0.001              | <0.001                   | <0.001          | 86.0  | 86  | 100.0            |
| 16 cis-1,3-Dichloropropene   | 0.001              | <0.001                   | <0.001          | 82.0  | 82  | 100.0            |
| 17 Toluene                   | 0.001              | 2.903                    | <0.001          | 85.0  | 85  | 100.0            |
| 18 1,2-Dichloropropane       | 0.001              | <0.001                   | <0.001          | 82.0  | 82  | 100.0            |
| 19 1,1,2-Trichloroethane     | 0.001              | <0.001                   | <0.001          | 82.0  | 82  | 100.0            |
| 20 Tetrachloroethane         | 0.001              | <0.001                   | <0.001          | 87.0  | 87  | 100.0            |
| 21 Dibromochloromethane      | 0.001              | <0.001                   | <0.001          | 86.0  | 86  | 100.0            |
| 22 Chlorobenzene             | 0.001              | <0.001                   | <0.001          | 86.0  | 86  | 100.0            |
| 23 Ethyl Benzene             | 0.001              | 1.349                    | <0.001          | 86.0  | 86  | 100.0            |
| 24 m,p-Xylene                | 0.001              | 2.898                    | <0.001          | 86.0  | 86  | 100.0            |
| 25 Bromoform                 | 0.001              | <0.001                   | <0.001          | 82.0  | 82  | 100.0            |
| 26 Styrene                   | 0.001              | <0.001                   | <0.001          | 89.0  | 89  | 100.0            |



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ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS  
ATTN: SCOTT GUSTIN  
PO BOX 4128  
LARAMIE, WY 82071

Receiving Date: 09/09/94  
Reporting Date: 09/14/94  
Project Number: H1787  
Project Location: DOWELL - ARTESIA  
Project Name: 90-125  
Sample ID: WB-3  
Lab Number: H1787-3

Analysis Date: 09/13/94  
Sampling Date: NONE GIVEN  
Sample Type: AIR  
Sample Condition: INTACT  
Sample Received By: RKT  
Analyzed By: SL

VOLATILE ORGANIC

COMPOUNDS IN AIR - (ppm)

|                              | Detection<br>Limit | Sample Result<br>H1787-3 | Method<br>Blank | QC   | True Value<br>%IA | QC    |
|------------------------------|--------------------|--------------------------|-----------------|------|-------------------|-------|
| 27 o-Xylene                  | 0.001              | 7.422                    | <0.001          | 89.0 | 89                | 100.0 |
| 28 1,1,2,2-Tetrachloroethane | 0.001              | <0.001                   | <0.001          | 85.0 | 85                | 100.0 |

|                         | % Recovery | Relative Percent Difference |
|-------------------------|------------|-----------------------------|
| 29 Dibromofluoromethane | MI         | 3                           |
| 30 Toluene-D8           | 105        | 6                           |
| 31 4-Bromofluorobenzene | 111        | 2                           |

METHOD: EPA 846-8240  
MI - Matrix Interference

  
Gayle A. Potter, President

09/14/94  
Date

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ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS  
ATTN: SCOTT GUSTIN  
PO BOX 4128  
LARAMIE, WY 82071

Receiving Date: 09/09/94  
Reporting Date: 09/14/94  
Project Number: H1787  
Project Location: DOWELL - ARTESIA  
Project Name: 90-125  
Sample ID: WB-1  
Lab Number: H1787-4

Analysis Date: 09/13/94  
Sampling Date: NONE GIVEN  
Sample Type: AIR  
Sample Condition: INTACT  
Sample Received By: RKT  
Analyzed By: SL

**VOLATILE ORGANIC**

COMPOUNDS IN AIR - (ppm)

|                              | Detection<br>Limit | Sample Result<br>H1787-4 | Method<br>Blank | QC    | %IA | True Value<br>QC |
|------------------------------|--------------------|--------------------------|-----------------|-------|-----|------------------|
| 1 Acetone                    | 0.001              | <0.001                   | <0.001          | 89.0  | 89  | 100.0            |
| 2 1,1-Dichloroethene         | 0.001              | <0.001                   | <0.001          | 87.0  | 87  | 100.0            |
| 3 Methylene Chloride         | 0.001              | <0.001                   | <0.001          | 89.0  | 89  | 100.0            |
| 4 trans-1,2-Dichloroethene   | 0.001              | <0.001                   | <0.001          | 87.0  | 87  | 100.0            |
| 5 1,1-Dichloroethene         | 0.001              | <0.001                   | <0.001          | 85.0  | 85  | 100.0            |
| 6 2-Butanone                 | 0.001              | <0.001                   | <0.001          | 107.0 | 107 | 100.0            |
| 7 cis-1,2-Dichloroethene     | 0.001              | <0.001                   | <0.001          | 87.0  | 87  | 100.0            |
| 8 Chloroform                 | 0.001              | <0.001                   | <0.001          | 86.0  | 86  | 100.0            |
| 9 1,1,1-Trichloroethane      | 0.001              | <0.001                   | <0.001          | 88.0  | 88  | 100.0            |
| 10 1,2-Dichloroethane        | 0.001              | <0.001                   | <0.001          | 85.0  | 85  | 100.0            |
| 11 Benzene                   | 0.001              | <0.001                   | <0.001          | 86.0  | 86  | 100.0            |
| 12 Carbon Tetrachloride      | 0.001              | <0.001                   | <0.001          | 87.0  | 87  | 100.0            |
| 13 Trichloroethene           | 0.001              | <0.001                   | <0.001          | 83.0  | 83  | 100.0            |
| 14 Bromodichloromethane      | 0.001              | <0.001                   | <0.001          | 80.0  | 80  | 100.0            |
| 15 trans-1,3-Dichloropropene | 0.001              | <0.001                   | <0.001          | 86.0  | 86  | 100.0            |
| 16 cis-1,3-Dichloropropene   | 0.001              | <0.001                   | <0.001          | 82.0  | 82  | 100.0            |
| 17 Toluene                   | 0.001              | 0.093                    | <0.001          | 85.0  | 85  | 100.0            |
| 18 1,2-Dichloropropane       | 0.001              | <0.001                   | <0.001          | 82.0  | 82  | 100.0            |
| 19 1,1,2-Trichloroethane     | 0.001              | <0.001                   | <0.001          | 82.0  | 82  | 100.0            |
| 20 Tetrachloroethane         | 0.001              | <0.001                   | <0.001          | 87.0  | 87  | 100.0            |
| 21 Dibromochloromethane      | 0.001              | <0.001                   | <0.001          | 86.0  | 86  | 100.0            |
| 22 Chlorobenzene             | 0.001              | <0.001                   | <0.001          | 86.0  | 86  | 100.0            |
| 23 Ethyl Benzene             | 0.001              | 0.293                    | <0.001          | 86.0  | 86  | 100.0            |
| 24 m,p-Xylene                | 0.001              | 0.190                    | <0.001          | 86.0  | 86  | 100.0            |
| 25 Bromoform                 | 0.001              | <0.001                   | <0.001          | 82.0  | 82  | 100.0            |
| 26 Styrene                   | 0.001              | <0.001                   | <0.001          | 89.0  | 89  | 100.0            |

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ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS  
ATTN: SCOTT GUSTIN  
PO BOX 4128  
LARAMIE, WY 82071

Receiving Date: 09/09/94  
Reporting Date: 09/14/94  
Project Number: H1787  
Project Location: DOWELL - ARTESIA  
Project Name: 90-125  
Sample ID: WB-1  
Lab Number: H1787-4

Analysis Date: 09/13/94  
Sampling Date: NONE GIVEN  
Sample Type: AIR  
Sample Condition: INTACT  
Sample Received By: RKT  
Analyzed By: SL

VOLATILE ORGANIC

COMPOUNDS IN AIR - (ppm)

|                              | Detection<br>Limit | Sample Result<br>H1787-4 | Method<br>Blank | QC   | True Value |       |
|------------------------------|--------------------|--------------------------|-----------------|------|------------|-------|
|                              |                    |                          |                 |      | %IA        | QC    |
| 27 o-Xylene                  | 0.001              | 0.419                    | <0.001          | 89.0 | 89         | 100.0 |
| 28 1,1,2,2-Tetrachloroethane | 0.001              | <0.001                   | <0.001          | 85.0 | 85         | 100.0 |

|                         | % Recovery | Relative Percent Difference |
|-------------------------|------------|-----------------------------|
| 29 Dibromofluoromethane | 63         | 3                           |
| 30 Toluene-D8           | 86         | 6                           |
| 31 4-Bromofluorobenzene | 91         | 2                           |

METHOD: EPA 846-8240

  
Gayle A. Potter, President

09/14/94  
Date

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**Western  
Water  
Consultants, Inc.**

[illegible]



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**ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS**

ATTN: SCOTT GUSTIN

PO BOX 4128

LARAMIE, WY 82071

Receiving Date: 08/12/94

Reporting Date: 08/17/94

Project Number: H1769

Project Location: ARTESIA, NM

Project Name: DOWELL - ARTESIA, NM

Sample ID: WASH BAY ZONE 1

Analysis Date: 08/15/94

Sampling Date: 08/10/94

Sample Type: AIR

Sample Condition: TEDLAR BAG & INTACT

Sample Received By: RKT

Analyzed By: BT

**VOLATILE ORGANIC COMPOUNDS**

|    | (ppm)                     | Detection<br>Limit | Sample Result<br>H1769-1 | Method<br>Blank | QC    | True Value<br>%IA | QC    |
|----|---------------------------|--------------------|--------------------------|-----------------|-------|-------------------|-------|
| 1  | Dichlorodifluoromethane   | 0.001              | <0.001                   | <0.001          | 0.053 | 105               | 0.050 |
| 2  | 2-chloroethyl vinyl ether | 0.001              | <0.001                   | <0.001          | 0.053 | 107               | 0.050 |
| 3  | Chloromethane             | 0.001              | <0.001                   | <0.001          | 0.049 | 99                | 0.050 |
| 4  | Vinyl chloride            | 0.001              | <0.001                   | <0.001          | 0.048 | 96                | 0.050 |
| 5  | Bromomethane              | 0.001              | <0.001                   | <0.001          | 0.052 | 104               | 0.050 |
| 6  | Chloroethane              | 0.001              | <0.001                   | <0.001          | 0.050 | 101               | 0.050 |
| 7  | Trichlorofluoromethane    | 0.001              | <0.001                   | <0.001          | 0.048 | 97                | 0.050 |
| 8  | 1,1-Dichloroethene        | 0.001              | <0.001                   | <0.001          | 0.050 | 99                | 0.050 |
| 9  | Methylene chloride        | 0.001              | <0.001                   | <0.001          | 0.049 | 99                | 0.050 |
| 10 | trans-1,2-Dichloroethene  | 0.001              | <0.001                   | <0.001          | 0.050 | 100               | 0.050 |
| 11 | 1,1-Dichloroethane        | 0.001              | <0.001                   | <0.001          | 0.050 | 99                | 0.050 |
| 12 | Chloroform                | 0.001              | <0.001                   | <0.001          | 0.054 | 109               | 0.050 |
| 13 | 1,1,1-Trichloroethane     | 0.001              | <0.001                   | <0.001          | 0.051 | 102               | 0.050 |
| 14 | 1,2-Dichloroethene        | 0.001              | <0.001                   | <0.001          | 0.054 | 107               | 0.050 |
| 15 | Carbon tetrachloride      | 0.001              | <0.001                   | <0.001          | 0.049 | 99                | 0.050 |
| 16 | 1,2-Dichloropropane       | 0.001              | <0.001                   | <0.001          | 0.054 | 107               | 0.050 |
| 17 | Trichloroethene           | 0.001              | <0.001                   | <0.001          | 0.053 | 106               | 0.050 |
| 18 | Dibromomethane            | 0.001              | <0.001                   | <0.001          | 0.051 | 103               | 0.050 |
| 19 | Bromodichloromethane      | 0.001              | <0.001                   | <0.001          | 0.054 | 108               | 0.050 |
| 20 | trans-1,3-Dichloropropene | 0.001              | <0.001                   | <0.001          | 0.052 | 104               | 0.050 |
| 21 | cis-1,3-Dichloropropene   | 0.001              | <0.001                   | <0.001          | 0.054 | 107               | 0.050 |
| 22 | 1,1,2-Trichloroethane     | 0.001              | <0.001                   | <0.001          | 0.046 | 92                | 0.050 |
| 23 | Dibromochloromethane      | 0.001              | <0.001                   | <0.001          | 0.052 | 105               | 0.050 |
| 24 | Tetrachloroethene         | 0.001              | <0.001                   | <0.001          | 0.051 | 102               | 0.050 |
| 25 | Chlorobenzene             | 0.001              | <0.001                   | <0.001          | 0.047 | 94                | 0.050 |
| 26 | 1,1,1,2-Tetrachloroethane | 0.001              | <0.001                   | <0.001          | 0.051 | 101               | 0.050 |
| 27 | Bromoform                 | 0.001              | <0.001                   | <0.001          | 0.053 | 105               | 0.050 |
| 28 | 1,1,2,2-Tetrachloroethane | 0.001              | <0.001                   | <0.001          | 0.054 | 108               | 0.050 |

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ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS

ATTN: SCOTT GUSTIN

PO BOX 4128

LARAMIE, WY 82071

Analysis Date: 08/15/94

Sampling Date: 08/10/94

Sample Type: AIR

Sample Condition: TEDLAR BAG & INTACT

Sample Received By: RKT

Analyzed By: BT

Receiving Date: 08/12/94

Reporting Date: 08/17/94

Project Number: H1769

Project Location: ARTESIA, NM

Project Name: DOWELL - ARTESIA, NM

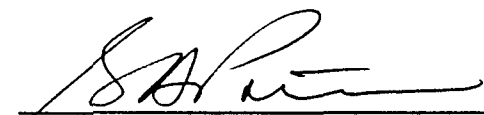
Sample ID: WASH BAY ZONE 1

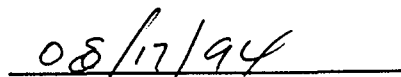
VOLATILE ORGANIC COMPOUNDS

| (ppm)                     | Detection<br>Limit | Sample Result<br>H1769-1 | Method<br>Blank | QC    | True Value<br>%IA | QC    |
|---------------------------|--------------------|--------------------------|-----------------|-------|-------------------|-------|
| 29 1,2,3-Trichloropropane | 0.001              | <0.001                   | <0.001          | 0.048 | 96                | 0.050 |
| 30 Bromobenzene           | 0.001              | <0.001                   | <0.001          | 0.050 | 99                | 0.050 |
| 31 2-Chlorotoluene        | 0.001              | <0.001                   | <0.001          | 0.048 | 96                | 0.050 |
| 32 1,3-Dichlorobenzene    | 0.001              | <0.001                   | <0.001          | 0.047 | 94                | 0.050 |
| 33 1,4 Dichlorobenzene    | 0.001              | <0.001                   | <0.001          | 0.049 | 98                | 0.050 |
| 34 1,2-Dichlorobenzene    | 0.001              | <0.001                   | <0.001          | 0.050 | 100               | 0.050 |
| 35 Acetone                | 0.001              | <0.001                   | <0.001          | 0.046 | 92                | 0.050 |

|                         | % Recovery | Relative Percent Difference |
|-------------------------|------------|-----------------------------|
| 35 Dibromofluoromethane | 100        | 0                           |
| 36 Toluene-D8           | 98         | 1                           |
| 37 4-Bromofluorobenzene | 95         | 0                           |

METHOD: EPA 846-8240

  
Gayle A. Potter, Chemist

  
Date 08/17/94

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# ARDINAL LABORATORIES

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## ANALYTICAL RESULTS FOR WESTERN WATER CONSULTANTS

ATTN: SCOTT GUSTIN

PO BOX 4128

LARAMIE, WY 82071

Receiving Date: 08/12/94

Reporting Date: 08/17/94

Project Number: H1769

Project Location: ARTESIA, NM

Project Name: DOWELL - ARTESIA, NM

Sample ID: WASH BAY ZONE 2

Analysis Date: 08/15/94

Sampling Date: 08/10/94

Sample Type: AIR

Sample Condition: TEDLAR BAG & INTACT

Sample Received By: RKT

Analyzed By: BT

### VOLATILE ORGANIC COMPOUNDS

| (ppm)                        | Detection<br>Limit | Sample Result<br>H1769-2 | Method<br>Blank | QC    | True Value<br>%IA | QC    |
|------------------------------|--------------------|--------------------------|-----------------|-------|-------------------|-------|
| 1 Dichlorodifluoromethane    | 0.001              | <0.001                   | <0.001          | 0.053 | 105               | 0.050 |
| 2 2-chloroethyl vinyl ether  | 0.001              | <0.001                   | <0.001          | 0.053 | 107               | 0.050 |
| 3 Chloromethane              | 0.001              | <0.001                   | <0.001          | 0.049 | 99                | 0.050 |
| 4 Vinyl chloride             | 0.001              | <0.001                   | <0.001          | 0.048 | 96                | 0.050 |
| 5 Bromomethane               | 0.001              | <0.001                   | <0.001          | 0.052 | 104               | 0.050 |
| 6 Chloroethane               | 0.001              | <0.001                   | <0.001          | 0.050 | 101               | 0.050 |
| 7 Trichlorofluoromethane     | 0.001              | <0.001                   | <0.001          | 0.048 | 97                | 0.050 |
| 8 1,1-Dichloroethene         | 0.001              | <0.001                   | <0.001          | 0.050 | 99                | 0.050 |
| 9 Methylene chloride         | 0.001              | <0.001                   | <0.001          | 0.049 | 99                | 0.050 |
| 10 trans-1,2-Dichloroethene  | 0.001              | <0.001                   | <0.001          | 0.050 | 100               | 0.050 |
| 11 1,1-Dichloroethane        | 0.001              | <0.001                   | <0.001          | 0.050 | 99                | 0.050 |
| 12 Chloroform                | 0.001              | <0.001                   | <0.001          | 0.054 | 109               | 0.050 |
| 13 1,1,1-Trichloroethane     | 0.001              | <0.001                   | <0.001          | 0.051 | 102               | 0.050 |
| 14 1,2-Dichloroethene        | 0.001              | <0.001                   | <0.001          | 0.054 | 107               | 0.050 |
| 15 Carbon tetrachloride      | 0.001              | <0.001                   | <0.001          | 0.049 | 99                | 0.050 |
| 16 1,2-Dichloropropane       | 0.001              | <0.001                   | <0.001          | 0.054 | 107               | 0.050 |
| 17 Trichloroethene           | 0.001              | <0.001                   | <0.001          | 0.053 | 106               | 0.050 |
| 18 Dibromomethane            | 0.001              | <0.001                   | <0.001          | 0.051 | 103               | 0.050 |
| 19 Bromodichloromethane      | 0.001              | <0.001                   | <0.001          | 0.054 | 108               | 0.050 |
| 20 trans-1,3-Dichloropropene | 0.001              | <0.001                   | <0.001          | 0.052 | 104               | 0.050 |
| 21 cis-1,3-Dichloropropene   | 0.001              | <0.001                   | <0.001          | 0.054 | 107               | 0.050 |
| 22 1,1,2-Trichloroethane     | 0.001              | <0.001                   | <0.001          | 0.046 | 92                | 0.050 |
| 23 Dibromochloromethane      | 0.001              | <0.001                   | <0.001          | 0.052 | 105               | 0.050 |
| 24 Tetrachloroethene         | 0.001              | <0.001                   | <0.001          | 0.051 | 102               | 0.050 |
| 25 Chlorobenzene             | 0.001              | <0.001                   | <0.001          | 0.047 | 94                | 0.050 |
| 26 1,1,1,2-Tetrachloroethane | 0.001              | <0.001                   | <0.001          | 0.051 | 101               | 0.050 |
| 27 Bromoform                 | 0.001              | <0.001                   | <0.001          | 0.053 | 105               | 0.050 |
| 28 1,1,2,2-Tetrachloroethane | 0.001              | <0.001                   | <0.001          | 0.054 | 108               | 0.050 |

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ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS  
ATTN: SCOTT GUSTIN  
PO BOX 4128  
LARAMIE, WY 82071

Receiving Date: 08/12/94  
Reporting Date: 08/17/94  
Project Number: H1769  
Project Location: ARTESIA, NM  
Project Name: DOWELL - ARTESIA, NM  
Sample ID: WASH BAY ZONE 2

Analysis Date: 08/15/94  
Sampling Date: 08/10/94  
Sample Type: AIR  
Sample Condition: TEDLAR BAG & INTACT  
Sample Received By: RKT  
Analyzed By: BT

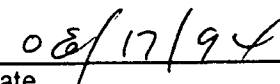
VOLATILE ORGANIC COMPOUNDS

| (ppm)                     | Detection<br>Limit | Sample Result<br>H1769-2 | Method<br>Blank | QC    | True Value<br>%IA | QC    |
|---------------------------|--------------------|--------------------------|-----------------|-------|-------------------|-------|
| 29 1,2,3-Trichloropropane | 0.001              | <0.001                   | <0.001          | 0.048 | 96                | 0.050 |
| 30 Bromobenzene           | 0.001              | <0.001                   | <0.001          | 0.050 | 99                | 0.050 |
| 31 2-Chlorotoluene        | 0.001              | <0.001                   | <0.001          | 0.048 | 96                | 0.050 |
| 32 1,3-Dichlorobenzene    | 0.001              | <0.001                   | <0.001          | 0.047 | 94                | 0.050 |
| 33 1,4 Dichlorobenzene    | 0.001              | <0.001                   | <0.001          | 0.049 | 98                | 0.050 |
| 34 1,2-Dichlorobenzene    | 0.001              | <0.001                   | <0.001          | 0.050 | 100               | 0.050 |
| 35 Acetone                | 0.001              | <0.001                   | <0.001          | 0.046 | 92                | 0.050 |

|                         | % Recovery | Relative Percent Difference |
|-------------------------|------------|-----------------------------|
| 35 Dibromofluoromethane | 104        | 0                           |
| 36 Toluene-D8           | 92         | 1                           |
| 37 4-Bromofluorobenzene | 97         | 0                           |

METHOD: EPA 846-8240

  
Gayle A. Potter, Chemist

  
Date

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**ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS**

ATTN: SCOTT GUSTIN

PO BOX 4128

LARAMIE, WY 82071

Analysis Date: 08/15/94

Sampling Date: 08/10/94

Sample Type: AIR

Sample Condition: TEDLAR BAG & INTACT

Sample Received By: RKT

Analyzed By: BT

Receiving Date: 08/12/94

Reporting Date: 08/17/94

Project Number: H1769

Project Location: ARTESIA, NM

Project Name: DOWELL - ARTESIA, NM

Sample ID: WASH BAY ZONE 3

**VOLATILE ORGANIC COMPOUNDS**

| (ppm)                        | Detection<br>Limit | Sample Result<br>H1769-3 | Method<br>Blank | QC    | True Value<br>%IA | QC    |
|------------------------------|--------------------|--------------------------|-----------------|-------|-------------------|-------|
| 1 Dichlorodifluoromethane    | 0.001              | <0.001                   | <0.001          | 0.053 | 105               | 0.050 |
| 2 2-chloroethyl vinyl ether  | 0.001              | <0.001                   | <0.001          | 0.053 | 107               | 0.050 |
| 3 Chloromethane              | 0.001              | <0.001                   | <0.001          | 0.049 | 99                | 0.050 |
| 4 Vinyl chloride             | 0.001              | <0.001                   | <0.001          | 0.048 | 96                | 0.050 |
| 5 Bromomethane               | 0.001              | <0.001                   | <0.001          | 0.052 | 104               | 0.050 |
| 6 Chloroethane               | 0.001              | <0.001                   | <0.001          | 0.050 | 101               | 0.050 |
| 7 Trichlorofluoromethane     | 0.001              | <0.001                   | <0.001          | 0.048 | 97                | 0.050 |
| 8 1,1-Dichloroethene         | 0.001              | <0.001                   | <0.001          | 0.050 | 99                | 0.050 |
| 9 Methylene chloride         | 0.001              | <0.001                   | <0.001          | 0.049 | 99                | 0.050 |
| 10 trans-1,2-Dichloroethene  | 0.001              | <0.001                   | <0.001          | 0.050 | 100               | 0.050 |
| 11 1,1-Dichloroethane        | 0.001              | <0.001                   | <0.001          | 0.050 | 99                | 0.050 |
| 12 Chloroform                | 0.001              | <0.001                   | <0.001          | 0.054 | 109               | 0.050 |
| 13 1,1,1-Trichloroethane     | 0.001              | <0.001                   | <0.001          | 0.051 | 102               | 0.050 |
| 14 1,2-Dichloroethene        | 0.001              | <0.001                   | <0.001          | 0.054 | 107               | 0.050 |
| 15 Carbon tetrachloride      | 0.001              | <0.001                   | <0.001          | 0.049 | 99                | 0.050 |
| 16 1,2-Dichloropropane       | 0.001              | <0.001                   | <0.001          | 0.054 | 107               | 0.050 |
| 17 Trichloroethene           | 0.001              | <0.001                   | <0.001          | 0.053 | 106               | 0.050 |
| 18 Dibromomethane            | 0.001              | <0.001                   | <0.001          | 0.051 | 103               | 0.050 |
| 19 Bromodichloromethane      | 0.001              | <0.001                   | <0.001          | 0.054 | 108               | 0.050 |
| 20 trans-1,3-Dichloropropene | 0.001              | <0.001                   | <0.001          | 0.052 | 104               | 0.050 |
| 21 cis-1,3-Dichloropropene   | 0.001              | <0.001                   | <0.001          | 0.054 | 107               | 0.050 |
| 22 1,1,2-Trichloroethane     | 0.001              | <0.001                   | <0.001          | 0.046 | 92                | 0.050 |
| 23 Dibromochloromethane      | 0.001              | <0.001                   | <0.001          | 0.052 | 105               | 0.050 |
| 24 Tetrachloroethene         | 0.001              | <0.001                   | <0.001          | 0.051 | 102               | 0.050 |
| 25 Chlorobenzene             | 0.001              | <0.001                   | <0.001          | 0.047 | 94                | 0.050 |
| 26 1,1,1,2-Tetrachloroethane | 0.001              | <0.001                   | <0.001          | 0.051 | 101               | 0.050 |
| 27 Bromoform                 | 0.001              | <0.001                   | <0.001          | 0.053 | 105               | 0.050 |
| 28 1,1,2,2-Tetrachloroethane | 0.001              | <0.001                   | <0.001          | 0.054 | 108               | 0.050 |

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ANALYTICAL RESULTS FOR  
WESTERN WATER CONSULTANTS

ATTN: SCOTT GUSTIN

PO BOX 4128

LARAMIE, WY 82071

Receiving Date: 08/12/94

Reporting Date: 08/17/94

Project Number: H1769

Project Location: ARTESIA, NM

Project Name: DOWELL - ARTESIA, NM

Sample ID: WASH BAY ZONE 3

Analysis Date: 08/15/94

Sampling Date: 08/10/94

Sample Type: AIR

Sample Condition: TEDLAR BAG & INTACT

Sample Received By: RKT

Analyzed By: BT

VOLATILE ORGANIC COMPOUNDS

| (ppm)                     | Detection<br>Limit | Sample Result<br>H1769-3 | Method<br>Blank | QC    | True Value |       |
|---------------------------|--------------------|--------------------------|-----------------|-------|------------|-------|
|                           |                    |                          |                 |       | %IA        | QC    |
| 29 1,2,3-Trichloropropane | 0.001              | <0.001                   | <0.001          | 0.048 | 96         | 0.050 |
| 30 Bromobenzene           | 0.001              | <0.001                   | <0.001          | 0.050 | 99         | 0.050 |
| 31 2-Chlorotoluene        | 0.001              | <0.001                   | <0.001          | 0.048 | 96         | 0.050 |
| 32 1,3-Dichlorobenzene    | 0.001              | <0.001                   | <0.001          | 0.047 | 94         | 0.050 |
| 33 1,4 Dichlorobenzene    | 0.001              | <0.001                   | <0.001          | 0.049 | 98         | 0.050 |
| 34 1,2-Dichlorobenzene    | 0.001              | <0.001                   | <0.001          | 0.050 | 100        | 0.050 |
| 35 Acetone                | 0.001              | <0.001                   | <0.001          | 0.046 | 92         | 0.050 |

|                         | % Recovery | Relative Percent Difference |
|-------------------------|------------|-----------------------------|
| 35 Dibromofluoromethane | 102        | 0                           |
| 36 Toluene-D8           | 90         | 1                           |
| 37 4-Bromofluorobenzene | 96         | 0                           |

METHOD: EPA 846-8240

  
Gayle A. Potter, Chemist

08/17/94  
Date

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FAX 505-393-2476.

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AND SAMPLING SHIPPING PAPERS



| PROJECT NO. PROJECT NAME     |  | DATE / TIME  |  | RECEIVED BY: (signature) |  | RELINQUISHED BY: (signature) |  | DATE / TIME |  | RECEIVED BY: (signature) |  |
|------------------------------|--|--------------|--|--------------------------|--|------------------------------|--|-------------|--|--------------------------|--|
| 70-125 DOVELL - ADTEST       |  | 8/14/94 8:10 |  | [Signature]              |  | [Signature]                  |  | 8/24/94     |  | [Signature]              |  |
| SAMPLES: (signature)         |  | 8/14/94 8:15 |  | [Signature]              |  | [Signature]                  |  | 8/24/94     |  | [Signature]              |  |
| SAMPLE I.D.                  |  | DATE         |  | TIME                     |  | COMP.                        |  | GRAB        |  | SAMPLE TYPE              |  |
| WASH BAS                     |  | 8/14/94      |  | 8:10                     |  | X                            |  |             |  | AIR                      |  |
| WASH BAS                     |  | 8/14/94      |  | 8:15                     |  | X                            |  |             |  | AIR                      |  |
| WASH BAS                     |  | 8/14/94      |  | 9:25                     |  | X                            |  |             |  | AIR                      |  |
| NO. OF CONTAINERS            |  | 1            |  | X                        |  |                              |  |             |  |                          |  |
| CONTAINER TYPE               |  | TETRA BAS    |  |                          |  |                              |  |             |  |                          |  |
| REMARKS                      |  |              |  |                          |  |                              |  |             |  |                          |  |
| Relinquished by: (signature) |  | Date / Time  |  | Received by: (signature) |  | Relinquished by: (signature) |  | Date / Time |  | Received by: (signature) |  |
| Relinquished by: (signature) |  | Date / Time  |  | Received by: (signature) |  | Relinquished by: (signature) |  | Date / Time |  | Received by: (signature) |  |

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