

**GW - 355**

# **MONITORING REPORTS**

**DATE:**

**12/99**

# **Annual Report of Groundwater Remediation Activities**

**Transwestern Pipeline Company  
Bell Lake Plant  
Lea County, New Mexico**

**Submitted to:  
New Mexico Oil Conservation Division**

**December 14, 1999**

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# **Report of Groundwater Remediation Activities**

## **Transwestern Pipeline Company Bell Lake Plant**

### **I. Installation, Repair, & Abandonment of Wells**

#### **Installation of Five Additional SVE Wells**

Five additional soil vapor extraction (SVE) wells were installed on May 22-27, 1999. The locations of the new wells are indicated in Figure 1 as wells SVE-8, SVE-9, SVE-10, SVE-11, and SVE-12. These wells were installed in order to more effectively remove phase separated hydrocarbon (PSH) accumulated at the water table. Two of the new wells were replacements for wells SVE-1 and SVE-4. The well screens in wells SVE-1 and SVE-4 had failed, presumably due to softening of the PVC material by PSH liquid. In light of this, all new SVE wells were completed using stainless steel screen.

#### **Repair of Monitor Well MW-7**

Monitor well MW-7 was damaged in the course of facility construction activities which were completed sometime just prior to the February 1999 sampling event. The protective well vault and surface pad had been inadvertently knocked off the well casing by heavy construction equipment. A new well vault and surface pad were constructed around monitor well MW-7 in May 1999. The well was subsequently redeveloped to remove soil and debris which had fallen into the well casing.

#### **Abandonment of Monitor Well MW-3**

Monitor well MW-3 was destroyed in the course of facility construction activities which were completed sometime just prior to the February 1999 sampling event. The protective well vault and surface pad had been inadvertently knocked off the well casing by heavy construction equipment. Soil and debris had filled the well casing to a depth above the water table which made rehabilitation efforts infeasible. As a result, monitor well MW-3 was abandoned in May 1999 by filling the remaining open casing with a 3-5% bentonite grout. This well was not replaced since it was an upgradient well and a sufficient history of background groundwater quality had already been developed.

### **II. Groundwater Monitoring Activities**

#### **Semiannual Groundwater Sampling Events**

Three sampling events have been completed since the last report of groundwater remediation activities. These events were completed on August 3, 1998, February 10, 1999, and August 10, 1999.

Prior to sampling, the depth to water, and the depth to hydrocarbon where phase separated hydrocarbon (PSH) was present, was determined for each monitor well and soil vapor extraction (SVE) well. The measured depths and the corresponding water table elevation for each monitor well and SVE well are presented in Table 1.

In the course of each sample event, groundwater samples were collected from each of the monitor wells at the site. In addition, groundwater samples were collected from the on-site water well. Samples were not collected from monitor wells with PSH accumulated in the well casing. Samples were not collected from well MW-7 in the course of the February 1999 sampling event due to damage to the well which had occurred during facility construction activities. In addition, samples were not collected from well MW-3 in the course of the February 1999 or August 1999 sampling events due to damage to the well which had occurred during facility construction activities. Groundwater samples were delivered to a laboratory for analysis by EPA Method 8021B for benzene, toluene, ethylbenzene, and xylenes (BTEX), total dissolved solids (TDS), and chlorides. In addition, samples collected in the course of the August 1998 and August 1999 sampling events were also submitted to a laboratory for analysis for a selected list of

metals. A summary of the laboratory results for organics and for field measured parameters is presented in Table 2. A summary of the laboratory results for inorganics is presented in Table 3.

### **Results/Conclusions from Groundwater Sampling Events**

#### ***Occurrence and Direction of Groundwater Flow***

A groundwater surface elevation map, based on measurements obtained on August 10, 1999, is included as Figure 2. The apparent direction of groundwater flow is consistent with water table elevation maps previously developed for this site. The hydraulic gradient, as estimated from the information presented in Figure 2, is approximately 0.002 ft/ft over the site area.

#### ***Lateral Extent of Phase Separated Hydrocarbon***

The lateral extent of PSH is currently defined by the occurrence of PSH at the water table in wells SVE-1, SVE-3, SVE-4, SVE-8, SVE-9, SVE-10, SVE-12, and MW-4, and the absence of PSH in all other wells. The thickness of accumulated PSH in wells is presented in Table 1. A figure indicating the estimated area with PSH present at the water table is included as Figure 3.

#### ***Condition of Affected Groundwater***

The condition of affected groundwater, based on recent sampling events, has not changed significantly from previous sampling events as evidenced by the information presented in Tables 2 and 3 and in Figures 4 and 5. Elevated concentrations of benzene continue to be the primary concern. A sufficient history of constituent concentrations has yet to be developed in order to evaluate natural attenuation processes.

### **III. Planned Changes to the Groundwater Monitoring Program**

#### **Disposal of Monitor Well Purge Water**

No changes are proposed at this time.

#### **Frequency of Groundwater Monitoring**

No changes are proposed at this time.

#### **Sample Analysis Plan**

The current sample analysis plan requires that groundwater samples are collected for analysis for BTEX constituents, Total Dissolved Solids (TDS), and chloride in the course of each semiannual sampling event and samples are collected for analysis for metal constituents in the course of just one semiannual sampling event (i.e., annually). The current list of analytes and laboratory analytical methods are as follows:

- BTEX Compounds (method 8021B)
- Total Dissolved Solids (method 160.1)
- Chloride (method 325.2)
- Total Metals including Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Mercury, Manganese, Selenium, Silver, & Zinc. [method 7470 for Mercury, method 7060 for Arsenic, method 7740 for Selenium, & method 6010 for all others]

The current sampling plan will be modified so that samples for TDS and chloride will be collected at the same frequency as metal constituents (i.e., annually). In addition, the current sampling plan will be modified to exclude nine of the twelve metal constituents from the sample analysis plan. Only three of the twelve metal constituents have consistently been detected above a NMWQCC groundwater standard: Arsenic, measured in samples from monitor wells MW-5, MW-6, MW-8, & MW-11; Barium, measured in samples from monitor wells MW-9, MW-10, & MW-11; and Manganese, measured in samples from monitor wells MW-2, MW-7, MW-10, & MW-11. In light of this, only these three metal constituents will be included in the sample analysis plan.

### **Routine Reporting of Monitoring Activities**

Routine reporting will continue on an annual basis. The next annual report will be submitted to the OCD by December 1, 2000.

## **IV. Status of Remediation Activities**

### **Remediation Activities Completed through November 1999**

The following remediation activities were completed between June 1998 and November 1999:

- 1) Five additional SVE wells were installed in May 1999. Four of the five wells indicated the presence of accumulated PSH at the water table and have been connected to the SVE system manifold.
- 2) A liquid recovery pump is rotated between wells containing PSH in an effort to accelerate the removal of PSH accumulated at the water table. Liquid recovery is done concurrent with vapor extraction (i.e., dual phase extraction).
- 3) Three ground water sampling events were completed; and
- 4) Routine O&M of the remediation system has continued to ensure efficient and effective operation.

### **Current Status of Remediation Activities**

Routine operation and maintenance of the remediation system is ongoing.

### **Remediation Activities Planned for December 1999 through November 2000**

A downgradient monitor well will be installed at the location indicated as MW-13 in Figure 1. This well will be installed during the month of December 1999. The objective of this well is to provide a groundwater monitoring point directly downgradient of monitor well MW-11.

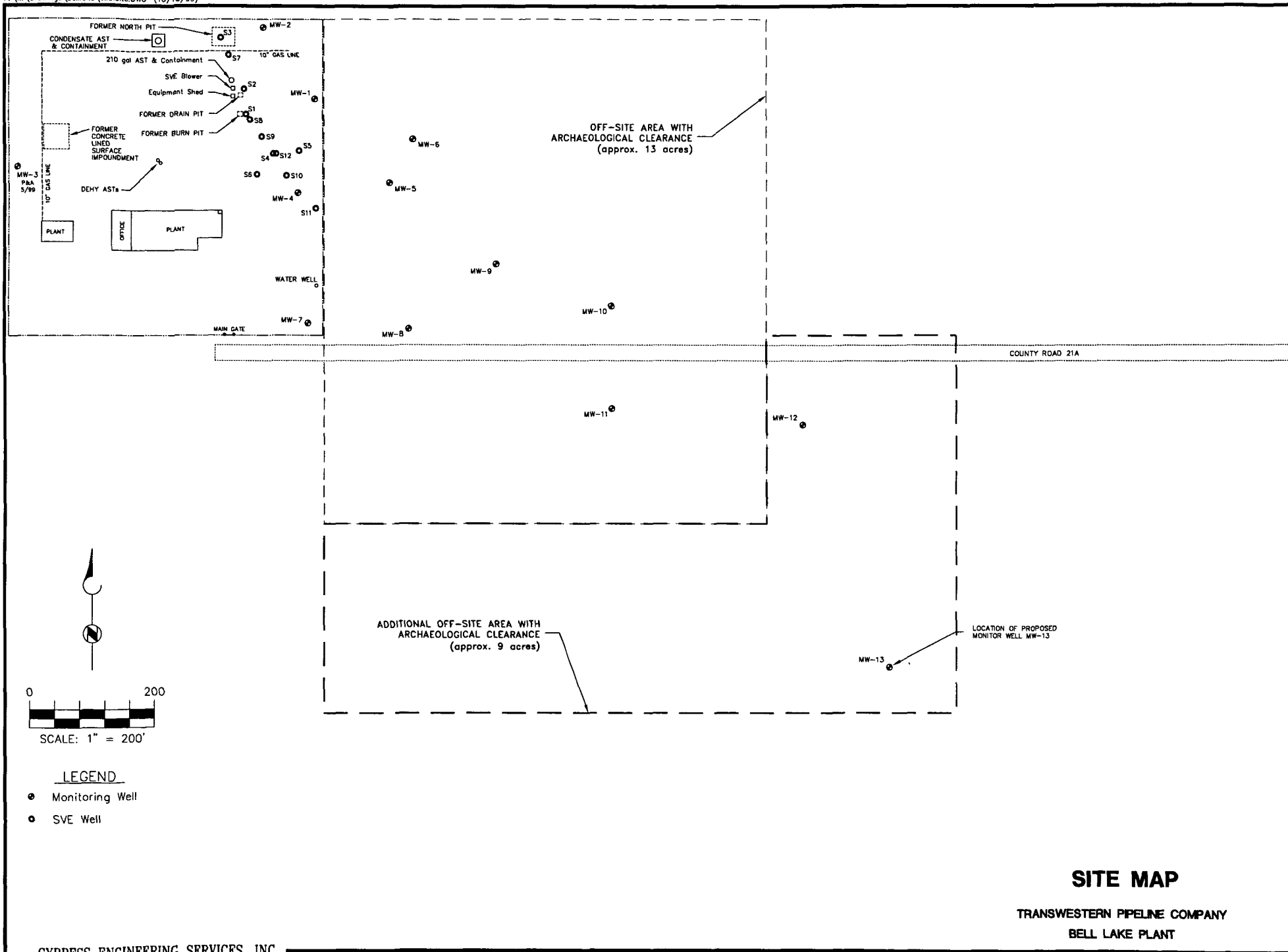
An additional SVE well will be installed adjacent to monitor well MW-4. The well screen in well MW-4 has failed, presumably due to softening of the PVC material by PSH liquid. The new SVE well will be completed using stainless steel screen.

The remediation system is anticipated to be in operation at least through year-2000 in order to achieve its cleanup objectives. The groundwater sampling program will continue as outlined above.

**Annual Report of Ground Water Remediation Activities**

**Transwestern Pipeline Company  
Bell Lake Plant**

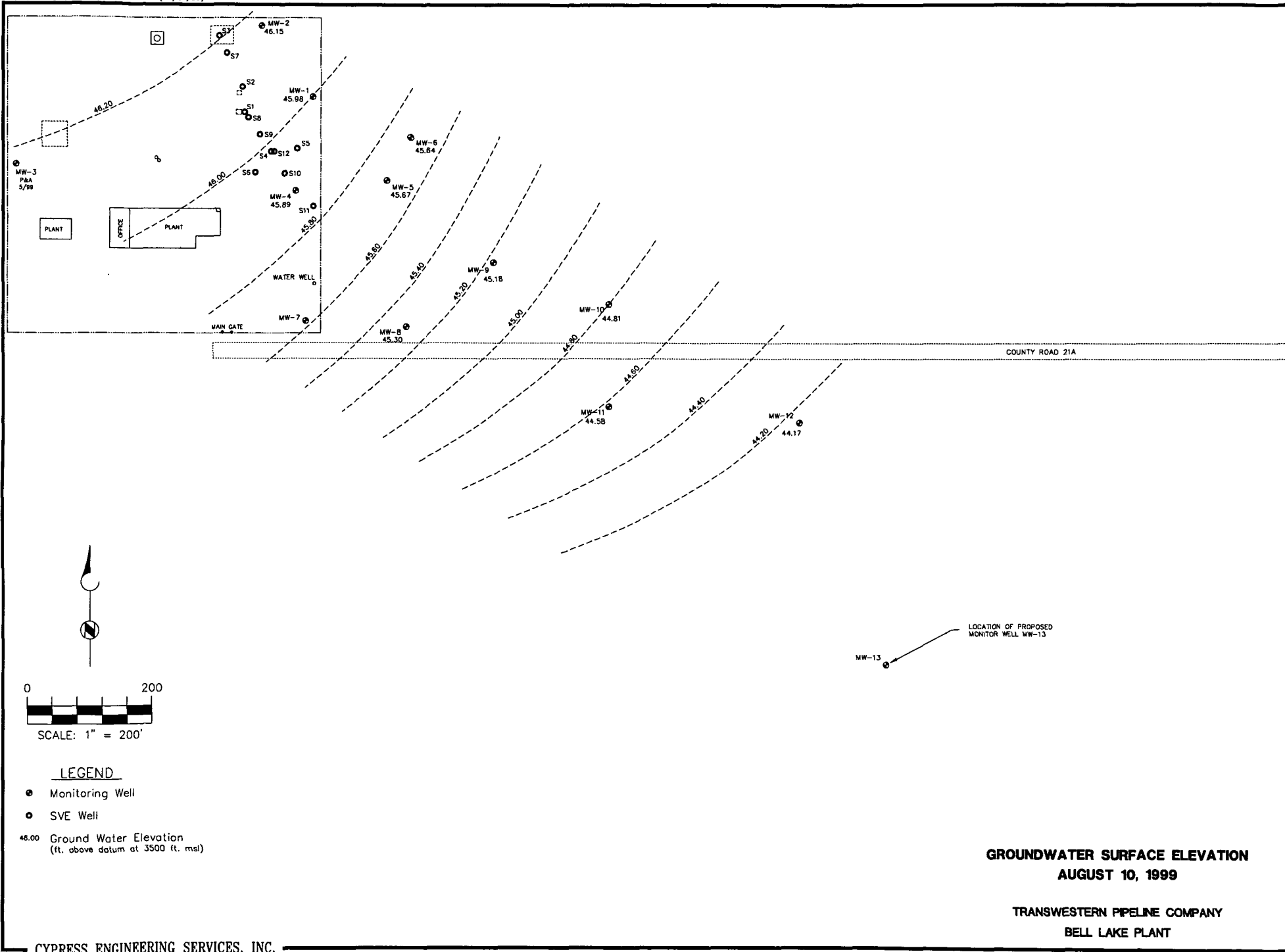
**Figures**

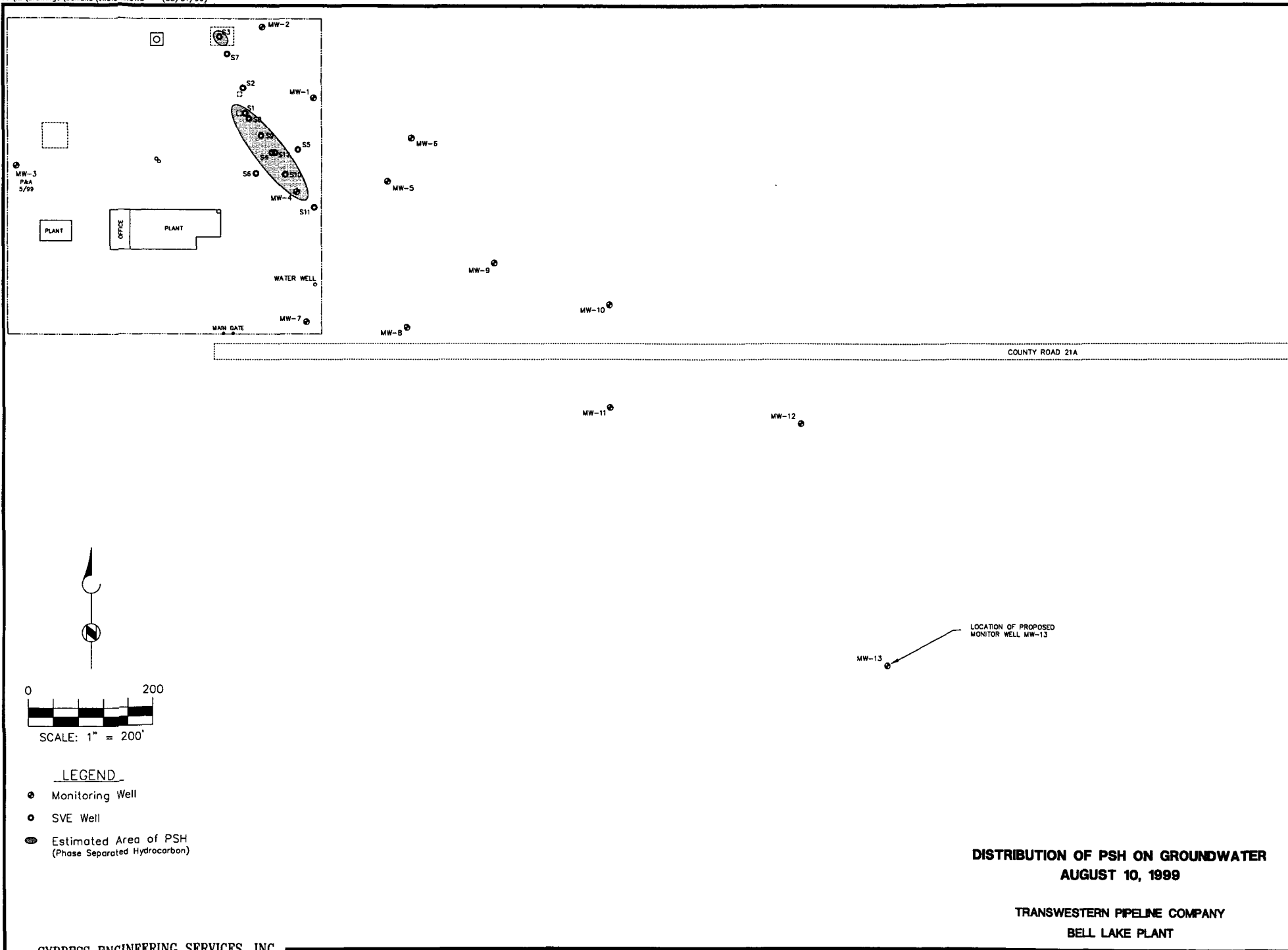


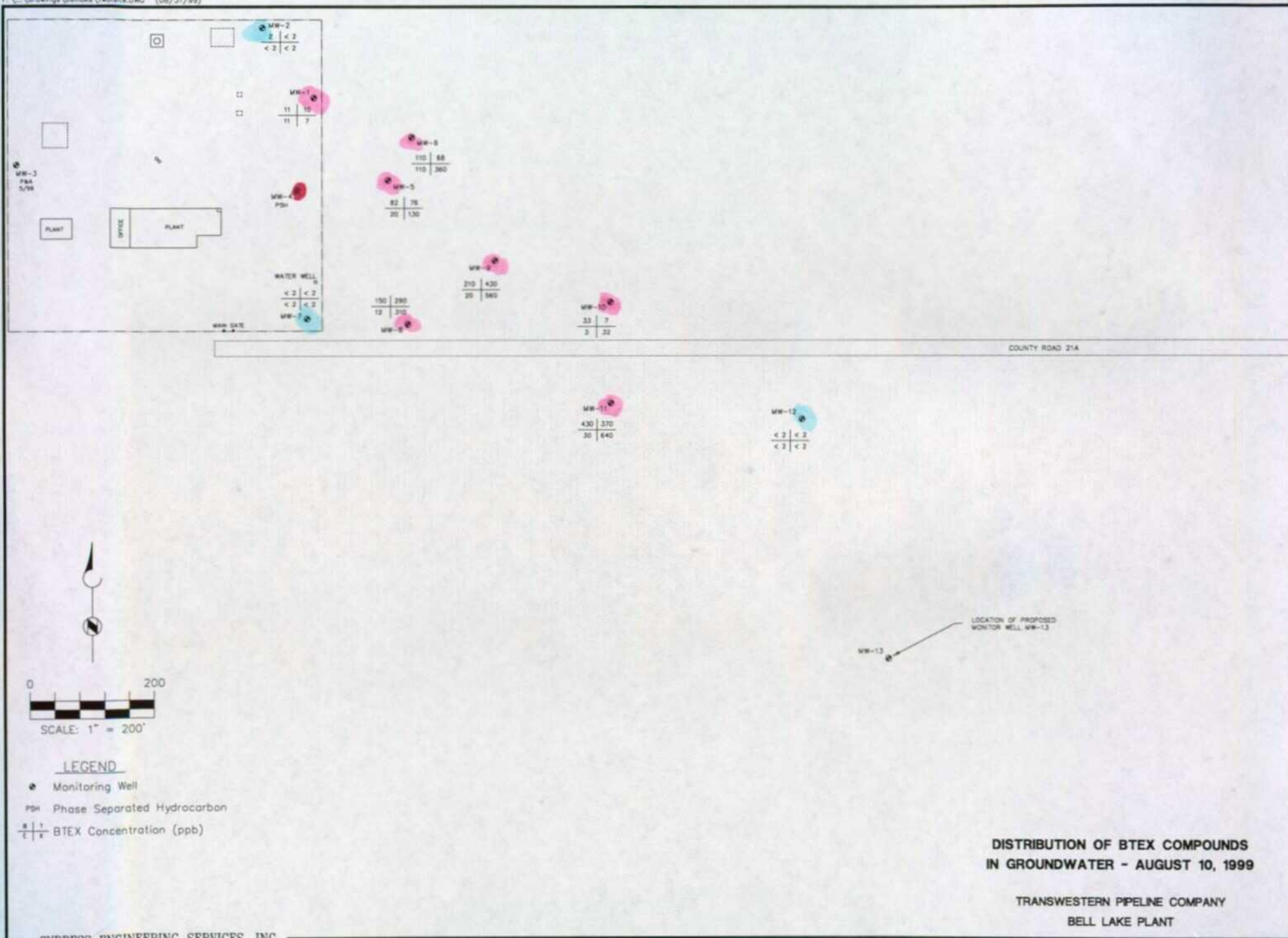
## SITE MAP

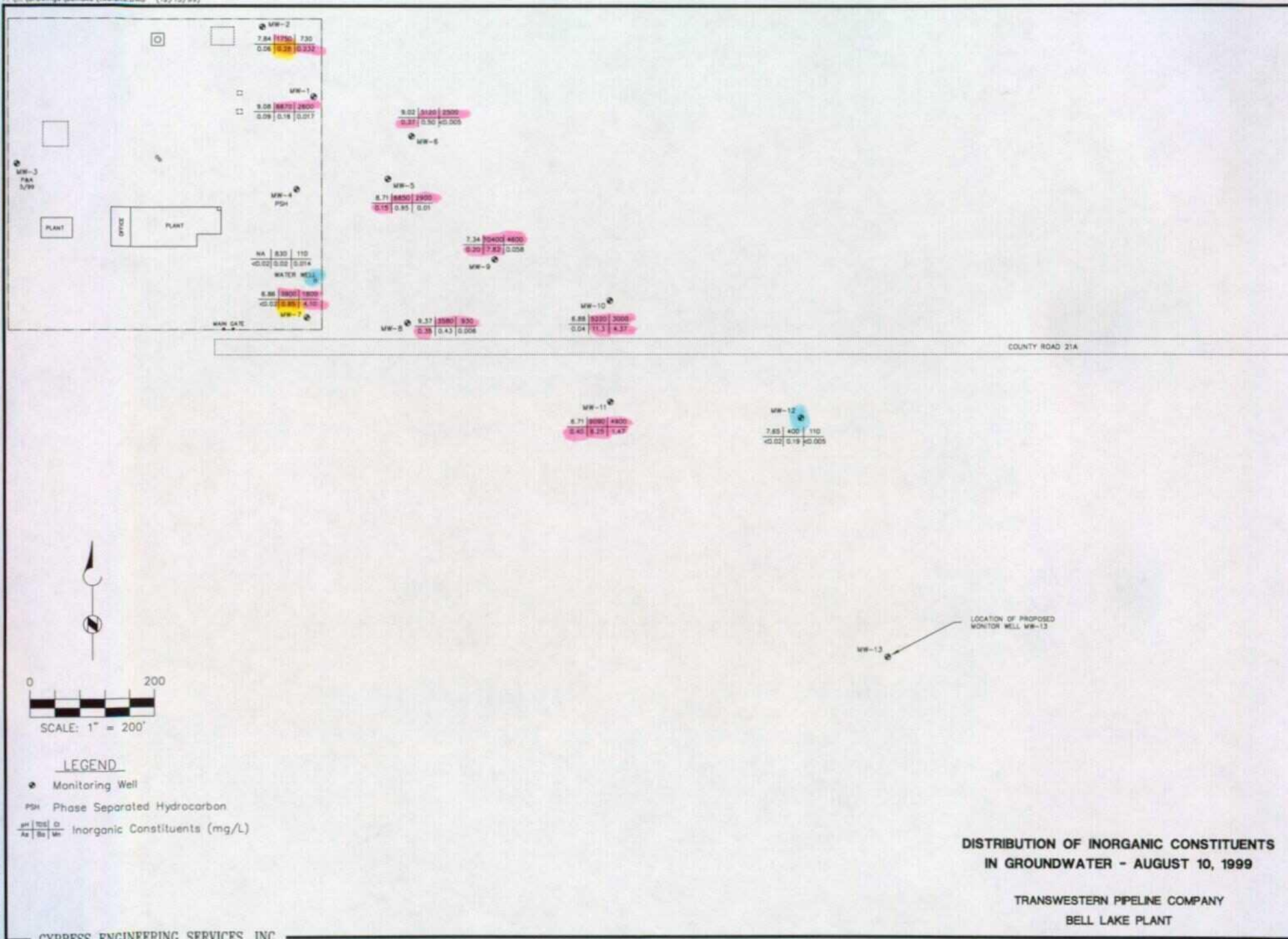
TRANSWESTERN PIPELINE COMPANY  
BELL LAKE PLANT

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**Annual Report of Ground Water Remediation Activities**

**Transwestern Pipeline Company  
Bell Lake Plant**

**Tables**

**Table 1. Summary of Ground Water Surface Elevations  
TW Bell Lake Gas Plant**

| Well | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-1 | 10/24/93      | 3635.37            | (a)               | 88.97               | (a)      | 3546.40                |
|      | 12/08/94      |                    | (a)               | 89.38               | (a)      | 3545.99                |
|      | 05/31/95      |                    | (a)               | 89.18               | (a)      | 3546.19                |
|      | 12/12/95      |                    | (a)               | 89.27               | (a)      | 3546.10                |
|      | 02/20/96      |                    | (a)               | 89.24               | (a)      | 3546.13                |
|      | 05/15/96      |                    | (a)               | 89.21               | (a)      | 3546.16                |
|      | 08/14/96      |                    | (a)               | 89.32               | (a)      | 3546.05                |
|      | 11/12/96      |                    | (a)               | 89.10               | (a)      | 3546.27                |
|      | 02/07/97      |                    | (a)               | 89.35               | (a)      | 3546.02                |
|      | 08/08/97      |                    | (a)               | 89.22               | (a)      | 3546.15                |
|      | 01/09/98      |                    | (a)               | 89.41               | (a)      | 3545.96                |
|      | 02/24/98      |                    | (a)               | 89.21               | (a)      | 3546.16                |
|      | 08/03/98      |                    | (a)               | 89.40               | (a)      | 3545.97                |
|      | 02/10/99      |                    | (a)               | 89.40               | (a)      | 3545.97                |
|      | 08/10/99      |                    | (a)               | 89.39               | (a)      | 3545.98                |
| MW-2 | 10/19/93      | 3634.63            | (a)               | 88.02               | (a)      | 3546.61                |
|      | 12/08/94      |                    | (a)               | 88.15               | (a)      | 3546.48                |
|      | 05/31/95      |                    | (a)               | 88.23               | (a)      | 3546.40                |
|      | 12/12/95      |                    | (a)               | 88.31               | (a)      | 3546.32                |
|      | 02/20/96      |                    | (a)               | 88.29               | (a)      | 3546.34                |
|      | 05/15/96      |                    | (a)               | 88.27               | (a)      | 3546.36                |
|      | 08/14/96      |                    | (a)               | 88.39               | (a)      | 3546.24                |
|      | 11/12/96      |                    | (a)               | 88.10               | (a)      | 3546.53                |
|      | 02/07/97      |                    | (a)               | 88.37               | (a)      | 3546.26                |
|      | 08/08/97      |                    | (a)               | 88.27               | (a)      | 3546.36                |
|      | 01/09/98      | 3634.68 (c)        | (a)               | 88.42               | (a)      | 3546.26                |
|      | 02/24/98      |                    | (a)               | 88.30               | (a)      | 3546.38                |
|      | 08/03/98      |                    | (a)               | 88.42               | (a)      | 3546.26                |
|      | 02/10/99      |                    | (a)               | 88.43               | (a)      | 3546.25                |
|      | 08/10/99      |                    | (a)               | 88.53               | (a)      | 3546.15                |
| MW-3 | 10/20/93      | 3639.64            | (a)               | 92.96               | (a)      | 3546.68                |
|      | 12/08/94      |                    | (a)               | 93.08               | (a)      | 3546.56                |
|      | 05/31/95      |                    | (a)               | 93.17               | (a)      | 3546.47                |
|      | 12/12/95      |                    | (a)               | 93.24               | (a)      | 3546.40                |
|      | 02/20/96      |                    | (a)               | 93.20               | (a)      | 3546.44                |
|      | 05/15/96      |                    | (a)               | 93.20               | (a)      | 3546.44                |
|      | 08/14/96      |                    | (a)               | 93.31               | (a)      | 3546.33                |
|      | 11/12/96      |                    | (a)               | 93.30               | (a)      | 3546.34                |
|      | 02/07/97      |                    | (a)               | 93.31               | (a)      | 3546.33                |
|      | 08/08/97      |                    | (a)               | 93.27               | (a)      | 3546.37                |
|      | 01/09/98      |                    | (a)               | 93.40               | (a)      | 3546.24                |
|      | 02/24/98      |                    | (a)               | 93.28               | (a)      | 3546.36                |
|      | 08/03/98      |                    | (a)               | 93.41               | (a)      | 3546.23                |

**Table 1. Summary of Ground Water Surface Elevations  
TW Bell Lake Gas Plant**

| Well | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-4 | 12/08/94      | 3636.05            | (a)               | 89.90               | (a)      | 3546.15                |
|      | 05/31/95      |                    | (a)               | 89.97               | (a)      | 3546.08                |
|      | 12/12/95      |                    | (a)               | 90.05               | (a)      | 3546.00                |
|      | 02/20/96      |                    | (a)               | 90.05               | (a)      | 3546.00                |
|      | 05/15/96      |                    | (a)               | 89.99               | (a)      | 3546.06                |
|      | 08/14/96      |                    | (a)               | 90.09               | (a)      | 3545.96                |
|      | 11/12/96      |                    | (a)               | 90.00               | (a)      | 3546.05                |
|      | 02/07/97      |                    | (a)               | 90.13               | (a)      | 3545.92                |
|      | 08/08/97      |                    | 90.00             | 90.60               | 0.60     | 3545.93                |
|      | 11/06/97      |                    | 90.01             | 90.15               | 0.14     | 3546.01                |
|      | 11/12/97      | 3637.04 (c)        | 90.02             | 90.25               | 0.23     | 3545.98                |
|      | 12/29/97      |                    | 90.69             | 92.55               | 1.86     | 3545.98                |
|      | 11/24/98      |                    | 90.28             | 94.04               | 3.76     | 3546.01                |
|      | 01/28/99      |                    | 90.50             | 94.03               | 3.53     | 3545.83                |
|      | 02/10/99      |                    | 90.81             | 91.93               | 1.12     | 3546.01                |
|      | 02/24/99      |                    | 90.45             | 93.54               | 3.09     | 3545.97                |
|      | 06/02/99      |                    | 89.90             | 92.65               | 2.75     | 3546.59                |
|      | 06/04/99      |                    | 90.80             | 91.54               | 0.74     | 3546.09                |
|      | 08/10/99      |                    | 90.66             | 93.12               | 2.46     | 3545.89                |
| MW-5 | 12/08/94      | 3635.31            | (a)               | 89.33               | (a)      | 3545.98                |
|      | 05/31/95      |                    | (a)               | 89.36               | (a)      | 3545.95                |
|      | 12/12/95      |                    | (a)               | 89.40               | (a)      | 3545.91                |
|      | 02/20/96      |                    | (a)               | 89.46               | (a)      | 3545.85                |
|      | 05/15/96      |                    | (a)               | 89.40               | (a)      | 3545.91                |
|      | 08/14/96      |                    | (a)               | 89.43               | (a)      | 3545.88                |
|      | 11/12/96      |                    | (a)               | 89.42               | (a)      | 3545.89                |
|      | 02/07/97      |                    | (a)               | 89.53               | (a)      | 3545.78                |
|      | 08/08/97      |                    | (a)               | 89.41               | (a)      | 3545.90                |
|      | 01/09/98      |                    | (a)               | 89.57               | (a)      | 3545.74                |
|      | 02/24/98      |                    | (a)               | 89.38               | (a)      | 3545.93                |
|      | 08/03/98      |                    | (a)               | 89.59               | (a)      | 3545.72                |
|      | 02/10/99      |                    | (a)               | 89.65               | (a)      | 3545.66                |
|      | 08/10/99      |                    | (a)               | 89.64               | (a)      | 3545.67                |
| MW-6 | 12/08/94      | 3634.66            | (a)               | 88.65               | (a)      | 3546.01                |
|      | 05/31/95      |                    | (a)               | 88.70               | (a)      | 3545.96                |
|      | 12/12/95      |                    | (a)               | 88.72               | (a)      | 3545.94                |
|      | 02/20/96      |                    | (a)               | 88.81               | (a)      | 3545.85                |
|      | 05/15/96      |                    | (a)               | 88.75               | (a)      | 3545.91                |
|      | 08/14/96      |                    | (a)               | 88.82               | (a)      | 3545.84                |
|      | 11/12/96      |                    | (a)               | 88.81               | (a)      | 3545.85                |
|      | 02/07/97      |                    | (a)               | 88.88               | (a)      | 3545.78                |
|      | 08/08/97      |                    | (a)               | 88.80               | (a)      | 3545.86                |
|      | 01/09/98      |                    | (a)               | 88.92               | (a)      | 3545.74                |
|      | 02/24/98      |                    | (a)               | 88.75               | (a)      | 3545.91                |
|      | 08/03/98      |                    | (a)               | 88.93               | (a)      | 3545.73                |
|      | 02/10/99      |                    | (a)               | 89.00               | (a)      | 3545.66                |
|      | 08/10/99      |                    | (a)               | 89.02               | (a)      | 3545.64                |

**Table 1. Summary of Ground Water Surface Elevations  
TW Bell Lake Gas Plant**

| Well  | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|-------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-7  | 12/12/95      | 3635.89            | (a)               | 90.18               | (a)      | 3545.71                |
|       | 02/20/96      |                    | (a)               | 90.15               | (a)      | 3545.74                |
|       | 05/15/96      |                    | (a)               | 90.11               | (a)      | 3545.78                |
|       | 08/14/96      |                    | (a)               | 90.21               | (a)      | 3545.68                |
|       | 11/12/96      |                    | (a)               | 90.20               | (a)      | 3545.69                |
|       | 02/07/97      |                    | (a)               | 90.22               | (a)      | 3545.67                |
|       | 08/08/97      |                    | (a)               | 90.19               | (a)      | 3545.70                |
|       | 01/09/98      |                    | (a)               | 90.28               | (a)      | 3545.61                |
|       | 02/24/98      |                    | (a)               | 90.18               | (a)      | 3545.71                |
|       | 08/03/98      |                    | (a)               | 90.29               | (a)      | 3545.60                |
|       | 08/10/99      | ---                | (a)               | 90.40               | (a)      | ---                    |
| MW-8  | 12/12/95      | 3635.28            | (a)               | 89.82               | (a)      | 3545.46                |
|       | 02/20/96      |                    | (a)               | 89.82               | (a)      | 3545.46                |
|       | 05/15/96      |                    | (a)               | 89.78               | (a)      | 3545.50                |
|       | 08/14/96      |                    | (a)               | 89.86               | (a)      | 3545.42                |
|       | 11/12/96      |                    | (a)               | 89.86               | (a)      | 3545.42                |
|       | 02/07/97      |                    | (a)               | 89.89               | (a)      | 3545.39                |
|       | 08/08/97      |                    | (a)               | 89.85               | (a)      | 3545.43                |
|       | 01/09/98      | 3635.30 (c)        | (a)               | 89.95               | (a)      | 3545.35                |
|       | 02/24/98      |                    | (a)               | 89.87               | (a)      | 3545.43                |
|       | 08/03/98      |                    | (a)               | 89.95               | (a)      | 3545.35                |
|       | 02/10/99      |                    | (a)               | 89.97               | (a)      | 3545.33                |
|       | 08/10/99      |                    | (a)               | 90.00               | (a)      | 3545.30                |
| MW-9  | 12/12/95      | 3633.58            | (a)               | 88.21               | (a)      | 3545.37                |
|       | 02/20/96      |                    | (a)               | 88.23               | (a)      | 3545.35                |
|       | 05/15/96      |                    | (a)               | 88.18               | (a)      | 3545.40                |
|       | 08/14/96      |                    | (a)               | 88.22               | (a)      | 3545.36                |
|       | 11/12/96      |                    | (a)               | 88.27               | (a)      | 3545.31                |
|       | 02/07/97      |                    | (a)               | 88.29               | (a)      | 3545.29                |
|       | 08/08/97      |                    | (a)               | 88.25               | (a)      | 3545.33                |
|       | 01/09/98      |                    | (a)               | 88.35               | (a)      | 3545.23                |
|       | 02/24/98      |                    | (a)               | 88.24               | (a)      | 3545.34                |
|       | 08/03/98      |                    | (a)               | 88.33               | (a)      | 3545.25                |
|       | 02/10/99      |                    | (a)               | 88.37               | (a)      | 3545.21                |
|       | 08/10/99      |                    | (a)               | 88.40               | (a)      | 3545.18                |
| MW-10 | 01/09/98      | 3633.25 (c)        | (a)               | 88.42               | (a)      | 3544.83                |
|       | 02/24/98      |                    | (a)               | 88.33               | (a)      | 3544.92                |
|       | 08/03/98      |                    | (a)               | 88.41               | (a)      | 3544.84                |
|       | 02/10/99      |                    | (a)               | 88.43               | (a)      | 3544.82                |
|       | 08/10/99      |                    | (a)               | 88.44               | (a)      | 3544.81                |
| MW-11 | 01/09/98      | 3631.57 (c)        | (a)               | 86.99               | (a)      | 3544.58                |
|       | 02/24/98      |                    | (a)               | 86.94               | (a)      | 3544.63                |
|       | 08/03/98      |                    | (a)               | 86.98               | (a)      | 3544.59                |
|       | 02/10/99      |                    | (a)               | 86.99               | (a)      | 3544.58                |
|       | 08/10/99      |                    | (a)               | 86.99               | (a)      | 3544.58                |

**Table 1. Summary of Ground Water Surface Elevations  
TW Bell Lake Gas Plant**

| Well  | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|-------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-12 | 01/09/98      | 3630.61 (c)        | (a)               | 86.39               | (a)      | 3544.22                |
|       | 02/24/98      |                    | (a)               | 86.29               | (a)      | 3544.32                |
|       | 08/03/98      |                    | (a)               | 86.37               | (a)      | 3544.24                |
|       | 02/10/99      |                    | (a)               | 86.39               | (a)      | 3544.22                |
|       | 08/10/99      |                    | (a)               | 86.44               | (a)      | 3544.17                |
| SVE-1 | 12/01/95      | 3637.06            | 90.68             | 92.12               | 1.44     | 3546.09                |
|       | 02/20/96      |                    | 90.52             | 92.12               | 1.60     | 3546.22                |
|       | 05/01/96      |                    | 90.51             | 92.20               | 1.69     | 3546.21                |
|       | 01/17/97      | 3638.21 (c)        | 91.63             | 93.34               | 1.71     | 3546.24                |
|       | 11/06/97      |                    | 91.45             | 93.59               | 2.14     | 3546.33                |
|       | 12/29/97      |                    | 91.50             | 93.45               | 1.95     | 3546.32                |
|       | 11/24/98      |                    | 91.12             | 94.65               | 3.53     | 3546.38                |
|       | 01/28/99      |                    | 91.80             | 93.10               | 1.30     | 3546.15                |
|       | 06/02/99      |                    | 91.79             | 92.49               | 0.70     | 3546.28                |
|       | 06/04/99      |                    | 91.70             | 92.32               | 0.62     | 3546.39                |
|       | 08/10/99      |                    | 91.97             | 92.35               | 0.38     | 3546.16                |
| SVE-2 | 12/01/95      | 3636.49            | (a)               | 90.18               | (a)      | 3546.31                |
|       | 02/20/96      |                    | (a)               | 90.22               | (a)      | 3546.27                |
|       | 05/01/96      |                    | (a)               | 90.21               | (a)      | 3546.28                |
|       | 01/17/97      | 3637.53 (c)        | (a)               | 91.20               | (a)      | 3546.33                |
|       | 11/06/97      |                    | (a)               | 91.10               | (a)      | 3546.43                |
|       | 12/29/97      |                    | (a)               | 91.13               | (a)      | 3546.40                |
|       | 08/04/98      |                    | (a)               | 91.32               | (a)      | 3546.21                |
|       | 11/24/98      |                    | (a)               | 91.30               | (a)      | 3546.23                |
|       | 02/10/99      |                    | (a)               | 91.21               | (a)      | 3546.32                |
|       | 06/02/99      |                    | (a)               | 91.34               | (a)      | 3546.19                |
|       | 08/10/99      |                    | (a)               | 91.36               | (a)      | 3546.17                |
| SVE-3 | 12/01/95      | 3636.44            | 90.00             | 90.30               | 0.30     | 3546.38                |
|       | 02/20/96      |                    | 89.52             | 92.37               | 2.85     | 3546.35                |
|       | 05/01/96      |                    | 89.38             | 92.92               | 3.54     | 3546.35                |
|       | 01/17/97      | 3637.62 (c)        | 90.65             | 93.60               | 2.95     | 3546.38                |
|       | 11/06/97      |                    | 90.65             | 93.00               | 2.35     | 3546.50                |
|       | 12/29/97      |                    | 90.50             | 93.70               | 3.20     | 3546.48                |
|       | 01/16/99      |                    | (a)               | 90.83               | (a)      | 3546.79                |
|       | 01/28/99      |                    | (a)               | 91.06               | (a)      | 3546.56                |
|       | 02/08/99      |                    | (a)               | 91.10               | (a)      | 3546.52                |
|       | 02/10/99      |                    | (a)               | 91.04               | (a)      | 3546.58                |
|       | 06/02/99      |                    | (a)               | 90.95               | (a)      | 3546.67                |
|       | 06/05/99      |                    | (a)               | 91.20               | (a)      | 3546.42                |
|       | 08/10/99      |                    | 91.38             | 91.50               | 0.12     | 3546.22                |

**Table 1. Summary of Ground Water Surface Elevations  
TW Bell Lake Gas Plant**

| Well   | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|--------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| SVE-4  | 11/12/97      | 3636.95 (c)        | (a)               | 89.69               | (a)      | 3547.26                |
|        | 12/29/97      |                    | 90.40             | 92.30               | 1.90     | 3546.17                |
|        | 11/24/98      | 3636.49 (d)        | 89.14             | 93.54               | 4.40     | 3546.93                |
|        | 01/06/99      |                    | 87.70             | 91.75               | 4.05     | 3547.98                |
|        | 02/08/99      |                    | 89.85             | 93.26               | 3.41     | 3545.96                |
|        | 06/02/99      |                    | 89.65             | 90.82               | 1.17     | 3546.61                |
|        | 06/04/99      |                    | 89.75             | 90.73               | 0.98     | 3546.54                |
|        |               |                    |                   |                     |          |                        |
| SVE-5  | 11/12/97      | 3635.65 (c)        | (a)               | 89.60               | (a)      | 3546.05                |
|        | 12/29/97      |                    | (a)               | 89.59               | (a)      | 3546.06                |
|        | 01/09/98      |                    | (a)               | 89.75               | (a)      | 3545.90                |
|        | 11/24/98      |                    | (a)               | 89.60               | (a)      | 3546.05                |
|        | 02/10/99      |                    | (a)               | 89.67               | (a)      | 3545.98                |
|        | 06/02/99      |                    | (a)               | 89.59               | (a)      | 3546.06                |
|        | 08/10/99      |                    | (a)               | 89.71               | (a)      | 3545.94                |
|        |               |                    |                   |                     |          |                        |
| SVE-6  | 11/12/97      | 3636.38 (c)        | (a)               | 90.20               | (a)      | 3546.18                |
|        | 12/29/97      |                    | (a)               | 90.20               | (a)      | 3546.18                |
|        | 01/09/98      |                    | (a)               | 90.25               | (a)      | 3546.13                |
|        | 11/24/98      |                    | (a)               | 90.20               | (a)      | 3546.18                |
|        | 02/10/99      |                    | (a)               | 90.27               | (a)      | 3546.11                |
|        | 06/02/99      |                    | (a)               | 90.13               | (a)      | 3546.25                |
|        | 08/10/99      |                    | (a)               | 90.23               | (a)      | 3546.15                |
|        |               |                    |                   |                     |          |                        |
| SVE-7  | 11/12/97      | 3637.01 (c)        | (a)               | 89.61               | (a)      | 3547.40                |
|        | 12/29/97      |                    | (a)               | 90.52               | (a)      | 3546.49                |
|        | 08/04/98      |                    | (a)               | 90.58               | (a)      | 3546.43                |
|        | 11/24/98      |                    | (a)               | 90.71               | (a)      | 3546.30                |
|        | 02/10/99      |                    | (a)               | 90.60               | (a)      | 3546.41                |
|        | 06/02/99      |                    | (a)               | 89.61               | (a)      | 3547.40                |
|        | 08/10/99      |                    | (a)               | 89.80               | (a)      | 3547.21                |
|        |               |                    |                   |                     |          |                        |
| SVE-8  | 06/02/99      | —                  | 89.15             | 92.09               | 2.94     | —                      |
|        | 06/04/99      | 3637.71 (d)        | 90.75             | 92.63               | 1.88     | 3546.58                |
| SVE-9  | 06/02/99      | —                  | 89.28             | 91.56               | 2.28     | —                      |
|        | 06/04/99      | 3637.48 (d)        | 90.41             | 93.14               | 2.73     | 3546.52                |
|        | 08/10/99      |                    | 90.96             | 93.27               | 2.31     | 3546.06                |
| SVE-10 | 06/02/99      | —                  | (a)               | 89.90               | (a)      | —                      |
|        | 06/04/99      | 3637.38 (d)        | (a)               | 91.20               | (a)      | 3546.18                |
|        | 08/10/99      |                    | 90.88             | 93.51               | 2.63     | 3545.97                |
| SVE-11 | 06/02/99      | —                  | (a)               | 90.89               | (a)      | —                      |
|        | 06/04/99      | 3637.31 (d)        | (a)               | 91.45               | (a)      | 3545.86                |
|        | 08/10/99      |                    | (a)               | 91.45               | (a)      | 3545.86                |

**Table 1. Summary of Ground Water Surface Elevations  
TW Bell Lake Gas Plant**

| Well   | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|--------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| SVE-12 | 06/02/99      | —                  | 88.75             | 91.36               | 2.61     | —                      |
|        | 06/04/99      | 3637.39 (d)        | 90.34             | 92.64               | 2.30     | 3546.59                |
|        | 08/10/99      |                    | 90.95             | 93.08               | 2.13     | 3546.01                |

NOTES:

- (a) Not applicable since no measurable thickness of hydrocarbon is present
- (b) Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming a specific gravity of 0.8
- (c) TOC elevation based on survey by CES (GCR) on 01/09/98.
- (d) TOC elevation based on survey by CES (GCR) on 08/11/99.

**Table 2. Summary of Ground Water Analyses  
Organics and Field Measured Parameters  
TW Bell Lake Gas Plant**

| Well            | Sampling Date | TPH (ug/L) | BTEX (ug/L) |         |              |               | Field Measured Parameters |            |           |                      |
|-----------------|---------------|------------|-------------|---------|--------------|---------------|---------------------------|------------|-----------|----------------------|
|                 |               |            | Benzene     | Toluene | Ethylbenzene | Total xylenes | DO (mg/L)                 | pH (units) | Temp. (C) | Conductivity (uS/cm) |
| NMWQCC Standard |               | none       | 10          | 750     | 750          | 620           | none                      | 6-9        | none      | none                 |
| MW-1            | 10/24/93      | -          | 24          | 29      | 32           | 82            | -                         | -          | -         | -                    |
|                 | 12/07/94      | -          | 92          | 50      | 54           | < 111         | -                         | 8.82       | -         | -                    |
|                 | 05/31/95      | -          | 8           | 13      | 9            | 29            | -                         | 8.80       | -         | -                    |
|                 | 12/14/95      | -          | < 200       | 366     | < 200        | 204           | -                         | 9.55       | 18.7      | 8090                 |
|                 | 02/21/96      | 757        | 13          | 6       | 29           | 54            | -                         | -          | -         | -                    |
|                 | 05/16/96      | -          | 15          | 9       | 33           | 47            | -                         | 9.68       | 26.7      | 14650                |
|                 | 08/14/96      | 744        | 11          | 5       | 23           | 30            | < 1                       | 8.97       | 23.2      | 8490                 |
|                 | 11/14/96      | -          | 2.4         | 4.9     | 13           | 9             | < 1                       | 8.38       | 19.7      | -                    |
|                 | 02/08/97      | -          | 11          | 13      | 11           | 14            | < 1                       | 9.32       | 14.5      | 9200                 |
|                 | 08/09/97      | -          | 14          | 14      | 12           | 12            | 0                         | 8.92       | 23.1      | 8750                 |
|                 | 02/25/98      | -          | 6.54        | 7.66    | 8.45         | 7.01          | 0 / 0                     | 9.45       | 19.7      | 9340                 |
|                 | 08/03/98      | -          | 6.5         | 6.4     | 11           | 11            | 1.5 / 0                   | 8.59       | 22.4      | 7450                 |
|                 | 02/10/99      | -          | 5           | 3       | 14           | 3             | 1.3 / 0                   | 8.63       | 22.2      | 7160                 |
|                 | 08/10/99      | -          | 11          | 10      | 11           | 7             | 0.7                       | 9.08       | 23.8      | 7090                 |
| MW-2            | 10/19/93      | -          | < 5         | < 5     | < 5          | < 5           | -                         | -          | -         | -                    |
|                 | 12/07/94      | -          | 6           | 5       | < 2          | < 4           | -                         | 7.18       | -         | -                    |
|                 | 05/31/95      | -          | 3           | < 2     | < 2          | < 2           | -                         | 7.40       | -         | -                    |
|                 | 12/14/95      | -          | < 2         | < 2     | < 2          | < 2           | -                         | 8.26       | 19.8      | 3890                 |
|                 | 02/20/96      | < 50       | < 2         | < 2     | < 2          | < 2           | -                         | 7.07       | 22.2      | 2220                 |
|                 | 05/16/96      | < 50       | < 2         | < 2     | < 2          | < 2           | -                         | 7.84       | 24.4      | 3950                 |
|                 | 08/13/96      | -          | < 2         | < 2     | < 2          | < 3           | 3                         | 8.62       | 27.2      | 6860                 |
|                 | 11/14/96      | -          | < 2         | < 2     | < 2          | < 2           | 2                         | 7.67       | 16.9      | -                    |
|                 | 02/08/97      | -          | < 2         | < 2     | < 2          | < 2           | 4                         | 7.38       | 13.7      | 2000                 |
|                 | 08/08/97      | -          | 7.3         | 5.4     | < 2          | 2.7           | 1.7                       | 7.38       | 22.0      | 1701                 |
|                 | 02/25/98      | -          | < 5         | < 5     | < 5          | < 5           | 2.8                       | 7.56       | 18.6      | 1433                 |
|                 | 08/03/98      | -          | < 5         | < 5     | < 5          | < 5           | 3.6 / 1.0                 | 8.12       | 22.5      | 3340                 |
|                 | 02/10/99      | -          | 1           | < 1     | < 1          | < 1           | 2.5                       | 7.53       | 22.1      | 1284                 |
|                 | 08/10/99      | -          | 2           | < 2     | < 2          | < 2           | 2.5                       | 7.84       | 21.8      | 2000                 |
| MW-3            | 10/20/93      | -          | < 5         | < 5     | < 5          | < 5           | -                         | -          | -         | -                    |
|                 | 12/07/94      | -          | < 2         | < 2     | < 2          | < 4           | -                         | 7.32       | -         | -                    |
|                 | 05/31/95      | -          | < 2         | < 2     | < 2          | < 2           | -                         | 7.70       | -         | -                    |
|                 | 12/14/95      | -          | < 2         | < 2     | < 2          | < 2           | -                         | 7.79       | 23.0      | 480                  |
|                 | 02/20/96      | -          | < 2         | < 2     | < 2          | 2             | -                         | 7.52       | 22.7      | 490                  |
|                 | 05/16/96      | < 50       | < 2         | < 2     | < 2          | < 2           | -                         | 7.62       | 27.2      | 5880                 |
|                 | 08/13/96      | -          | < 2         | < 2     | < 2          | < 3           | 10                        | 7.46       | 28.9      | 550                  |
|                 | 11/14/96      | -          | < 2         | < 2     | < 2          | < 2           | 8                         | 7.37       | 17.2      | -                    |
|                 | 02/08/97      | -          | < 2         | < 2     | < 2          | < 2           | 8                         | 7.35       | 15.3      | 400                  |
|                 | 08/09/97      | -          | < 2         | < 2     | < 2          | < 2           | 8.1                       | 7.53       | 21.6      | 573                  |
|                 | 02/25/98      | -          | < 5         | < 5     | < 5          | < 5           | 8.1                       | 7.51       | 18.7      | 484                  |
|                 | 08/03/98      | -          | < 5         | < 5     | < 5          | < 5           | 8.5                       | 7.51       | 21.8      | 516                  |

**Table 2. Summary of Ground Water Analyses  
Organics and Field Measured Parameters  
TW Bell Lake Gas Plant**

| Well            | Sampling Date | TPH (ug/L) | BTEX (ug/L) |         |              |               | Field Measured Parameters |            |           |                      |
|-----------------|---------------|------------|-------------|---------|--------------|---------------|---------------------------|------------|-----------|----------------------|
|                 |               |            | Benzene     | Toluene | Ethylbenzene | Total xylenes | DO (mg/L)                 | pH (units) | Temp. (C) | Conductivity (uS/cm) |
| NMWQCC Standard |               | none       | 10          | 750     | 750          | 620           | none                      | 6-9        | none      | none                 |
| MW-4            | 12/07/94      | -          | 18          | 71      | 4            | 160           | -                         | 9.7        | -         | -                    |
|                 | 05/31/95      | -          | 300         | 1300    | < 2          | 800           | -                         | 10.0       | -         | -                    |
|                 | 12/13/95      | -          | 445         | 1380    | < 200        | 970           | -                         | 10.73      | 17.7      | 6300                 |
|                 | 02/21/96      | 2520       | < 200       | 454     | < 200        | 594           | -                         | -          | -         | -                    |
|                 | 05/16/96      | 58800      | 92          | 549     | 52           | 1370          | -                         | 9.93       | 27.5      | 9840                 |
|                 | 08/14/96      | 80200      | 333         | 992     | < 200        | 2630          | < 1                       | 12.89      | 24.0      | 6480                 |
|                 | 11/14/96      | -          | 260         | 1010    | 55           | 1200          | < 1                       | 8.51       | 21.1      | -                    |
|                 | 02/08/97      | -          | 240         | 1000    | < 100        | 1200          | < 1                       | 10.73      | 16.5      | 7600                 |
| MW-5            | 12/07/94      | -          | 9           | 20      | 4            | 64            | -                         | 9.29       | -         | -                    |
|                 | 05/31/95      | -          | 51          | 109     | 16           | 219           | -                         | 9.00       | -         | -                    |
|                 | 12/12/95      | -          | 27          | 26      | 16           | 107           | -                         | 10.40      | 21.5      | 12420                |
|                 | 02/21/96      | 1090       | 45          | 59      | 17           | 133           | -                         | 12.96      | 20.4      | 9860                 |
|                 | 05/16/96      | 1710       | 51          | 52      | 26           | 177           | -                         | 8.85       | 26.7      | 10110                |
|                 | 08/14/96      | 28900      | 48          | 33      | 21           | 150           | < 1                       | 9.10       | 24.4      | 10620                |
|                 | 11/14/96      | -          | 67          | 56      | 32           | 270           | < 1                       | 8.61       | 22.6      | -                    |
|                 | 02/08/97      | -          | 75          | 60      | 26           | 140           | < 1                       | 9.58       | 15.3      | 4200                 |
|                 | 08/09/97      | -          | 140         | 110     | 47           | 370           | 0.6                       | 8.74       | 26.1      | 12060                |
|                 | 02/25/98      | -          | 91.8        | 100     | 19.5         | 172.1         | 0.6                       | 8.97       | 18.9      | 11540                |
|                 | 08/04/98      | -          | 110         | 96      | 27           | 190           | 2.5                       | 8.73       | 24.0      | 11760                |
|                 | 02/11/99      | -          | 120         | 140     | 18           | 200           | 1.3                       | 8.94       | 17.3      | 12000                |
|                 | 08/10/99      | -          | 82          | 76      | 20           | 130           | 1.5                       | 8.71       | 21.6      | 11010                |
|                 | MW-6          | 12/07/94   | -           | < 2     | 3            | < 2           | < 6                       | -          | 8.51      | -                    |
| 05/31/95        |               | -          | 28          | 26      | 4            | 57            | -                         | 9.20       | -         | -                    |
| 12/12/95        |               | -          | 18          | 11      | 3            | 33            | -                         | 9.13       | 21.6      | 6150                 |
| 02/20/96        |               | 277        | 16          | 12      | 6            | 48            | -                         | 9.04       | 21.7      | 6000                 |
| 05/16/96        |               | 618        | 24          | 26      | 10           | 74            | -                         | 9.09       | 28.4      | 7880                 |
| 08/14/96        |               | 27100      | 24          | 23      | < 20         | 80            | < 1                       | 8.79       | 23.1      | 6590                 |
| 11/14/96        |               | -          | 38          | 31      | 11           | 43            | < 1                       | 8.62       | 21.9      | -                    |
| 02/08/97        |               | -          | 24          | 22      | 11           | 75            | < 1                       | 9.67       | 17.4      | 8700                 |
| 08/09/97        |               | -          | 68          | 58      | 28           | 150           | 0                         | 9.14       | 24.0      | 8470                 |
| 02/25/98        |               | -          | 26.1        | 25.0    | 13.7         | 107.0         | 0.1                       | 9.06       | 18.4      | 7390                 |
| 08/04/98        |               | -          | 29          | 22      | 24           | 120           | 1.9 / 0                   | 9.01       | 24.3      | 8540                 |
| 02/10/99        |               | -          | 32          | 37      | 15           | 140           | -                         | -          | -         | -                    |
| 08/10/99        |               | -          | 110         | 68      | 110          | 360           | 1.5                       | 9.02       | 21.5      | 8060                 |

**Table 2. Summary of Ground Water Analyses  
Organics and Field Measured Parameters  
TW Bell Lake Gas Plant**

| Well            | Sampling Date | TPH (ug/L) | BTEX (ug/L) |         |              |               | Field Measured Parameters |            |           |                      |   |
|-----------------|---------------|------------|-------------|---------|--------------|---------------|---------------------------|------------|-----------|----------------------|---|
|                 |               |            | Benzene     | Toluene | Ethylbenzene | Total xylenes | DO (mg/L)                 | pH (units) | Temp. (C) | Conductivity (uS/cm) |   |
| NMWQCC Standard |               | none       | 10          | 750     | 750          | 620           | none                      | 6-9        | none      | none                 |   |
| MW-7            | 12/13/95      | -          | < 2         | < 2     | < 2          | < 2           | -                         | 7.15       | 19.5      | 4580                 |   |
|                 | 02/20/96      | < 50       | 2           | < 2     | < 2          | < 2           | -                         | 6.47       | 22.5      | 6310                 |   |
|                 | 05/15/96      | < 50       | 4           | < 2     | 2            | < 2           | -                         | 6.57       | 25.9      | 7070                 |   |
|                 | 08/14/96      | < 50       | 11          | < 2     | < 2          | < 2           | 2                         | 6.80       | 22.3      | 5270                 |   |
|                 | 11/14/96      | -          | < 2         | < 2     | < 2          | < 2           | < 1                       | 6.79       | 18.7      | -                    |   |
|                 | 02/08/97      | -          | < 2         | < 2     | < 2          | < 2           | 1.4                       | 6.97       | 15.0      | 5700                 |   |
|                 | 08/08/97      | -          | < 2         | < 2     | < 2          | < 2           | 0.9                       | 6.84       | 22.6      | 6650                 |   |
|                 | 02/24/98      | -          | < 5         | < 5     | < 5          | < 5           | 2.0                       | 6.79       | 20.3      | 6730                 |   |
|                 | 08/04/98      | -          | < 5         | 5.6     | < 5          | < 5           | 2.3                       | 6.80       | 22.8      | 7030                 |   |
|                 | 08/10/99      | -          | < 2         | < 2     | < 2          | < 2           | 2.5                       | 6.86       | 21.3      | 6380                 |   |
| MW-8            | 12/12/95      | -          | 227         | 391     | < 200        | 228           | -                         | 8.76       | 19.7      | 4790                 |   |
|                 | 02/21/96      | 1630       | 191         | 379     | < 20         | 300           | -                         | 9.34       | 21.2      | 2920                 |   |
|                 | 05/16/96      | 1110       | 47          | 94      | 5            | 91            | -                         | 8.43       | 27.2      | 6870                 |   |
|                 | 08/14/96      | 45500      | 54          | 110     | < 20         | 93            | < 1                       | 8.75       | 23.6      | 2440                 |   |
|                 | 11/14/96      | -          | 110         | 230     | 11           | 160           | < 1                       | 8.61       | 21.6      | -                    |   |
|                 | 02/08/97      | -          | 98          | 210     | 8            | 130           | 0.4                       | 9.57       | 16.9      | 4000                 |   |
|                 | 08/09/97      | -          | 430         | 660     | < 100        | 610           | 0.1                       | 9.17       | 24.7      | 5010                 |   |
|                 | 02/26/98      | -          | 248         | 461     | 14.9         | 388.2         | 1.1                       | 9.36       | 18.3      | 4130                 |   |
|                 | dup (MW-13)   | 02/26/98   | -           | 104     | 207          | < 50          | 121                       | -          | -         | -                    | - |
|                 | 08/04/98      | -          | 200         | 410     | 19           | 340           | 2.6 / 0                   | 9.14       | 22.5      | 4080                 |   |
| dup (MW-13)     | 02/11/99      | -          | 210         | 360     | 15           | 400           | 0.8                       | 9.43       | 19.6      | 4480                 |   |
|                 | 08/11/99      | -          | 150         | 290     | 12           | 310           | 0.9                       | 9.37       | 21.1      | 4760                 |   |
|                 | 08/11/99      | -          | 86          | 110     | 10           | 160           | -                         | -          | -         | -                    |   |
| MW-9            | 12/12/95      | -          | < 200       | 241     | < 200        | 383           | -                         | 7.17       | 23.2      | 14520                |   |
|                 | 02/21/96      | 2540       | 331         | 662     | < 200        | 739           | -                         | -          | -         | -                    |   |
|                 | 05/16/96      | 42100      | 460         | 450     | < 200        | 1650          | -                         | 6.93       | 30.1      | 17580                |   |
|                 | 08/14/96      | 46200      | 250         | 340     | < 50         | 800           | -                         | -          | 26.8      | 11640                |   |
|                 | 11/14/96      | -          | 240         | 410     | 28           | 780           | < 1                       | 8.72       | 23.2      | -                    |   |
|                 | 02/08/97      | -          | 250         | 480     | < 100        | 930           | < 1                       | 7.50       | 18.9      | 17700                |   |
|                 | 08/09/97      | -          | 490         | 810     | < 100        | 1100          | 1.3                       | 7.20       | 25.9      | 17080                |   |
|                 | 02/25/98      | -          | 251         | 693     | < 50         | 845           | 0                         | 7.21       | 19.4      | 19960                |   |
|                 | 08/04/98      | -          | 190         | 460     | 28           | 680           | 1.2                       | 7.31       | 223       | -                    |   |
|                 | dup (MW-13)   | 02/11/99   | -           | 240     | 520          | 25            | 640                       | -          | -         | -                    | - |
| dup (MW-13)     | 02/11/99      | -          | 230         | 510     | 25           | 580           | 1.2                       | 7.25       | 20.1      | 17460                |   |
|                 | 08/11/99      | -          | 210         | 430     | 20           | 560           | 2.3 / 0.0                 | 7.34       | 21.5      | 16650                |   |
| MW-10           | 01/09/98      | -          | 49          | 37      | 4.3          | 71            | -                         | -          | -         | -                    |   |
|                 | 02/25/98      | -          | 60.3        | 46.3    | < 5          | 79.1          | 0.7                       | 6.74       | 18.7      | 953                  |   |
|                 | 08/04/98      | -          | 56          | 39      | 5.4          | 85            | 3.0                       | 6.81       | 23.8      | 11040                |   |
|                 | 02/11/99      | -          | 56          | 24      | 5            | 89            | 0.9 / 0                   | 6.87       | 16.7      | 9860                 |   |
|                 | 08/11/99      | -          | 33          | 7       | 3            | 32            | 1.5                       | 6.88       | 20.8      | 9320                 |   |

**Table 2. Summary of Ground Water Analyses  
Organics and Field Measured Parameters  
TW Bell Lake Gas Plant**

| Well            | Sampling Date | TPH (ug/L) | BTEX (ug/L) |         |              |               | Field Measured Parameters |            |           |                      |
|-----------------|---------------|------------|-------------|---------|--------------|---------------|---------------------------|------------|-----------|----------------------|
|                 |               |            | Benzene     | Toluene | Ethylbenzene | Total xylenes | DO (mg/L)                 | pH (units) | Temp. (C) | Conductivity (uS/cm) |
| NMWQCC Standard |               | none       | 10          | 750     | 750          | 620           | none                      | 6-9        | none      | none                 |
| MW-11           | 01/10/98      | -          | 360         | 320     | 19           | 490           | -                         | -          | -         | -                    |
|                 | 02/25/98      | -          | 466         | 439     | 23.7         | 570           | 2.1                       | 6.61       | 18.7      | 13670                |
|                 | 08/04/98      | -          | 490         | 590     | 32           | 650           | 3.2                       | 6.67       | 21.3      | 14570                |
|                 | 02/11/99      | -          | 610         | 610     | 31           | 670           | 2.2 / 0                   | 6.65       | 19.7      | 15560                |
|                 | 08/11/99      | -          | 430         | 370     | 30           | 640           | 2.1/0.0                   | 6.71       | 21.1      | 14950                |
| MW-12           | 01/10/98      | -          | < 0.5       | < 0.5   | < 0.5        | < 0.5         | -                         | -          | -         | -                    |
|                 | 02/24/98      | -          | < 5         | < 5     | < 5          | < 5           | 6.8 / 7.0                 | 7.67       | 20.6      | 547                  |
|                 | 08/04/98      | -          | < 1         | < 1     | < 1          | < 1           | 7.4 / 7.5                 | 7.67       | 21.3      | 617                  |
|                 | 02/10/99      | -          | < 1         | < 1     | < 1          | < 1           | 7.5 / 7.5                 | 7.61       | 21.3      | 659                  |
|                 | 08/10/99      | -          | < 2         | < 2     | < 2          | < 2           | 7.6                       | 7.65       | 20.9      | 686                  |
| Water Well      | 05/31/95      | -          | < 2         | < 2     | < 2          | < 2           | -                         | 8.20       | -         | -                    |
|                 | 12/14/95      | -          | < 2         | < 2     | < 2          | < 2           | -                         | 8.53       | 22.9      | 1160                 |
|                 | 02/21/96      | -          | < 2         | < 2     | < 2          | < 2           | -                         | -          | 23.3      | 9060                 |
|                 | 05/16/96      | < 50       | < 2         | < 2     | < 2          | < 2           | -                         | 7.52       | 27.3      | 1320                 |
|                 | 08/14/96      | -          | < 2         | < 2     | < 2          | < 3           | -                         | -          | -         | -                    |
|                 | 11/14/96      | -          | < 2         | < 2     | < 2          | < 2           | < 1                       | 7.52       | -         | -                    |
|                 | 02/08/97      | -          | < 2         | < 2     | < 2          | < 2           | 0.8                       | 8.45       | 20.2      | 1200                 |
|                 | 08/09/97      | -          | < 2         | < 2     | < 2          | < 2           | 1.1                       | 8.11       | 24.9      | 1338                 |
|                 | 02/26/98      | -          | < 5         | < 5     | < 5          | < 5           | 0.8                       | 7.56       | 20.6      | 1221                 |
|                 | 08/04/98      | -          | < 1         | < 1     | < 1          | < 1           | 1.4                       | 8.12       | 22.2      | 1362                 |
|                 | 02/11/99      | -          | < 1         | < 1     | < 1          | < 1           | -                         | -          | -         | -                    |
|                 | 08/11/99      | -          | < 2         | < 2     | < 2          | < 2           | -                         | -          | -         | -                    |
| SVE-2           | 12/13/95      | -          | < 200       | 231     | < 200        | 202           | < 1                       | 9.50       | 21.4      | 5820                 |
|                 | 02/20/96      | < 500      | 133         | 191     | < 2          | 72            | 2                         | 9.05       | 22.0      | 4750                 |

Notes:

Values exceeding NMWQCC standards are shown in bold type

TPH - Total Petroleum Hydrocarbons by Method 8015 mod (gasoline fraction)

**Table 3. Summary of Ground Water Analyses - Inorganics**  
**TW Bell Lake Gas Plant**

| Well             | Sampling Date | TDS (mg/L) | Alk., total (mg/L) | Major Ions (mg/L) |         |                    |                  |           |         |           |           |        |         | Metals (mg/L) |         |          |        |        |       |         |           |          |        |        |       |
|------------------|---------------|------------|--------------------|-------------------|---------|--------------------|------------------|-----------|---------|-----------|-----------|--------|---------|---------------|---------|----------|--------|--------|-------|---------|-----------|----------|--------|--------|-------|
|                  |               |            |                    | Chloride          | Sulfate | Sulfite            | N-Nitrate        | N-Nitrite | Calcium | Magnesium | Potassium | Sodium | Arsenic | Barium        | Cadmium | Chromium | Copper | Iron   | Lead  | Mercury | Manganese | Selenium | Silver | Zinc   |       |
| NMW/QCC Standard |               |            |                    | 1000              | none    | none               | 10               | none      | none    | none      | none      | none   | none    | 0.1           | 1.0     | 0.01     | 0.05   | 1.0    | 1.0   | 0.05    | 0.002     | 0.2      | 0.05   | 0.05   | 10    |
| MW-1             | 12/07/94      | 7100       | -                  | -                 | -       | -                  | .06 <sup>a</sup> | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 05/31/95      | 5800       | 1290               | 2620              | 78.3    | 2.0                | 0.37             | 0.04      | 62.7    | 114       | 12.6      | 1400   | -       | 0.07          | 0.32    | <0.01    | <0.01  | <0.01  | 0.73  | <0.03   | <0.0002   | 0.28     | <0.04  | <0.01  | <0.03 |
|                  | 12/14/95      | 5640       | -                  | 2500              | 176     | 3.0                | 30               | 0.02      | 34.3    | 75.8      | 9.48      | 2400   | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 02/21/96      | 5050       | -                  | 2450              | 155     | <0.50              | <0.05            | 0.04      | 35.8    | 112       | 11.7      | 1550   | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 02/08/97      | 5610       | -                  | 2350              | -       | -                  | -                | -         | -       | -         | -         | -      | -       | <0.03         | 0.30    | <0.01    | <0.01  | 0.01   | 1.7   | <0.03   | <0.0002   | 0.10     | <0.04  | <0.01  | 0.12  |
|                  | 08/09/97      | 5090       | -                  | 2050              | -       | -                  | -                | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 02/25/98      | 5700       | -                  | 2140              | -       | -                  | -                | -         | -       | -         | -         | -      | -       | <0.1          | 0.184   | 0.005    | <0.01  | <0.01  | 0.10  | <0.05   | <0.0002   | 0.063    | <0.1   | <0.01  | <0.02 |
|                  | 08/03/98      | 3600       | -                  | 2215              | -       | -                  | -                | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 02/10/99      | 5250       | -                  | 2100              | -       | -                  | -                | -         | -       | -         | -         | -      | -       | 0.085         | 0.159   | <0.002   | <0.005 | <0.002 | 0.053 | <0.025  | <0.0002   | 0.017    | <0.02  | <0.003 | <0.01 |
|                  | 08/10/99      | 6670       | -                  | 2600              | -       | -                  | -                | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
| MW-2             | 10/19/93      | 9200       | -                  | -                 | -       | -                  | -                | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 12/07/94      | 2600       | -                  | 51                | -       | <0.05 <sup>a</sup> | -                | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 05/31/95      | 1500       | 445                | 512               | 73.6    | 0.50               | <0.10            | 0.01      | 79.8    | 43.1      | 5.4       | 195    | -       | 0.06          | 0.22    | <0.01    | <0.01  | 0.02   | 3.7   | <0.03   | <0.0002   | 0.67     | <0.04  | <0.01  | 0.04  |
|                  | 12/14/95      | 1420       | -                  | 470               | 89      | <1                 | 10               | 0.02      | 132     | 46.2      | 5.89      | 3060   | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 02/20/96      | 940        | -                  | 214               | 95.5    | <0.50              | <0.05            | <0.01     | 85.7    | 44.8      | 5.75      | 216    | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 02/08/97      | 1040       | -                  | 325               | -       | -                  | -                | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 08/08/97      | 986        | -                  | 280               | -       | -                  | -                | -         | -       | -         | -         | -      | -       | <0.03         | 0.44    | <0.01    | <0.01  | <0.01  | 2.3   | <0.03   | <0.0002   | 0.38     | <0.04  | <0.01  | 0.03  |
|                  | 02/25/98      | 1020       | -                  | 353               | -       | -                  | -                | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 08/03/98      | 1000       | -                  | 500               | -       | -                  | -                | -         | -       | -         | -         | -      | -       | <0.1          | 0.231   | <0.005   | <0.01  | <0.01  | <0.02 | <0.05   | <0.0002   | 0.339    | <0.1   | <0.01  | <0.02 |
|                  | 02/10/99      | 2830       | -                  | 1300              | -       | -                  | -                | -         | -       | -         | -         | -      | -       | 0.056         | 0.280   | <0.002   | <0.005 | <0.002 | <0.01 | <0.025  | <0.0002   | 0.232    | <0.02  | <0.003 | <0.01 |
| MW-3             | 10/20/93      | 1500       | -                  | -                 | -       | -                  | -                | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 12/07/94      | 320        | -                  | 31                | -       | 3.6 <sup>a</sup>   | -                | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 05/31/95      | 380        | 210                | 14.5              | 43.4    | 0.50               | 3.3              | <0.01     | 54.7    | 17.6      | 7.1       | 20.5   | -       | <0.03         | 0.21    | <0.01    | <0.01  | <0.01  | 0.22  | <0.03   | <0.0002   | <0.01    | <0.04  | <0.01  | <0.03 |
|                  | 12/14/95      | 334        | -                  | 17.0              | 35      | <1.0               | 6.7              | 0.01      | 68      | 15.8      | 6.69      | 20.6   | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 02/20/96      | 346        | -                  | 20.0              | 32.1    | <0.50              | 2.92             | <0.01     | 64.9    | 19.6      | 7.6       | 67.4   | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 02/08/97      | 368        | -                  | 15                | -       | -                  | -                | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 08/09/97      | 380        | -                  | 10                | -       | -                  | -                | -         | -       | -         | -         | -      | -       | <0.03         | 0.21    | <0.01    | <0.01  | <0.01  | 1.0   | <0.03   | <0.0002   | 0.03     | <0.04  | <0.01  | 0.06  |
|                  | 02/25/98      | 330        | -                  | 13.0              | -       | -                  | -                | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -     | -       | -         | -        | -      | -      |       |
|                  | 08/03/98      | 200        | -                  | 15.0              | -       | -                  | -                | -         | -       | -         | -         | -      | -       | <0.1          | 0.184   | <0.005   | <0.01  | <0.01  | <0.02 | <0.05   | <0.0002   | <0.005   | <0.1   | <0.01  | <0.02 |

**Table 3. Summary of Ground Water Analyses - Inorganics**  
**TW Bell Lake Gas Plant**

| Well            | Sampling Date | TDS (mg/L) | Alk., total (mg/L) | Major Ions (mg/L) |         |         |                    |           |         |           |           |        |         | Metals (mg/L) |         |          |        |       |        |         |           |          |        |       |    |
|-----------------|---------------|------------|--------------------|-------------------|---------|---------|--------------------|-----------|---------|-----------|-----------|--------|---------|---------------|---------|----------|--------|-------|--------|---------|-----------|----------|--------|-------|----|
|                 |               |            |                    | Chloride          | Sulfate | Sulfite | N-Nitrate          | N-Nitrite | Calcium | Magnesium | Potassium | Sodium | Arsenic | Barium        | Cadmium | Chromium | Copper | Iron  | Lead   | Mercury | Manganese | Selenium | Silver | Zinc  |    |
| NMWQCC Standard |               |            |                    | none              | 250     | 600     | none               | 10        | none    | none      | none      | none   | none    | 0.1           | 1.0     | 0.01     | 0.05   | 1.0   | 1.0    | 0.05    | 0.002     | 0.2      | 0.05   | 0.05  | 10 |
| MW-4            | 12/07/94      | 4700       | -                  | -                 | 70      | -       | <0.05 <sup>a</sup> | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 05/31/95      | 5200       | 2180               | 1700              | 104     | 17.5    | <0.10              | <0.01     | <0.10   | 0.76      | 4.9       | 1650   | 0.33    | 0.23          | <0.01   | <0.01    | <0.01  | 0.11  | <0.03  | <0.0002 | 0.03      | <0.04    | <0.01  | <0.03 |    |
|                 | 12/13/95      | 6600       | -                  | 1900              | 90      | 21.0    | 103                | <0.01     | 74.2    | 4.25      | 6.15      | 1880   | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 02/21/96      | 3450       | -                  | 1010              | 35.7    | 20.0    | <0.05              | <0.01     | 10.6    | 2.02      | 4.84      | 1210   | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 02/08/97      | 4380       | -                  | 1110              | -       | -       | -                  | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
| MW-5            | 12/07/94      | 9500       | -                  | -                 | 49      | -       | <0.05 <sup>a</sup> | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 05/31/95      | 7400       | 1690               | 4070              | 12.4    | 4.5     | <0.10              | 0.01      | 4.8     | 2.0       | 13.8      | 2690   | 0.14    | 0.88          | <0.01   | <0.01    | 0.01   | 0.13  | <0.03  | <0.0002 | 0.02      | <0.04    | <0.01  | <0.03 |    |
|                 | 12/12/95      | 7580       | -                  | 3650              | 24      | 3.0     | 53                 | 0.06      | 6.13    | 1.98      | 11.8      | 2590   | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 02/21/96      | 8050       | -                  | 4050              | 17.9    | <0.50   | <0.05              | 1.45      | 22.2    | 2.79      | 12.6      | 3100   | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 02/08/97      | 6980       | -                  | 3300              | -       | -       | -                  | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/09/97      | 8370       | -                  | 1450              | -       | -       | -                  | -         | -       | -         | -         | -      | <0.03   | 0.94          | <0.01   | <0.01    | <0.01  | 0.93  | <0.03  | <0.0002 | 0.01      | <0.04    | <0.01  | 0.29  |    |
|                 | 02/25/98      | 7300       | -                  | 3480              | -       | -       | -                  | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/04/98      | 6800       | -                  | 3330              | -       | -       | -                  | -         | -       | -         | -         | -      | 0.2     | 0.960         | <0.005  | <0.01    | <0.01  | 0.05  | <0.05  | <0.0002 | 0.014     | <0.1     | <0.01  | <0.02 |    |
|                 | 02/11/99      | 7860       | -                  | 3200              | -       | -       | -                  | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/10/99      | 6850       | -                  | 2900              | -       | -       | -                  | -         | -       | -         | -         | -      | 0.15    | 0.946         | <0.002  | <0.005   | <0.002 | 0.033 | <0.025 | <0.0002 | 0.010     | <0.02    | <0.003 | <0.01 |    |
| MW-6            | 12/07/94      | 4700       | -                  | -                 | 150     | -       | <0.05 <sup>a</sup> | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 05/31/95      | 5400       | 1070               | 2670              | 78.3    | 2.5     | 0.59               | 0.04      | 11.1    | 4.6       | 14.4      | 1320   | 0.33    | 0.36          | <0.01   | <0.01    | <0.01  | 0.25  | <0.03  | <0.0002 | 0.04      | <0.04    | <0.01  | <0.03 |    |
|                 | 12/12/95      | 4770       | -                  | 2500              | 92      | 2.0     | 44.2               | 0.03      | 68.8    | 11.8      | 17        | 1560   | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 02/20/96      | 4830       | -                  | 2500              | 85.9    | <0.50   | <0.50              | <0.01     | 26.6    | 10.5      | 18.1      | 1500   | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 02/08/97      | 4050       | -                  | 2200              | -       | -       | -                  | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/09/97      | 5040       | -                  | 2220              | -       | -       | -                  | -         | -       | -         | -         | -      | 0.39    | 0.57          | <0.01   | <0.01    | <0.01  | 0.98  | <0.03  | <0.0002 | 0.03      | <0.04    | <0.01  | <0.03 |    |
|                 | 02/25/98      | 5280       | -                  | 2540              | -       | -       | -                  | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/04/98      | 4200       | -                  | 2450              | -       | -       | -                  | -         | -       | -         | -         | -      | 0.4     | 0.548         | <0.005  | <0.01    | <0.01  | 0.04  | <0.05  | <0.0002 | 0.001     | <0.1     | <0.01  | <0.02 |    |
|                 | 02/10/99      | 5050       | -                  | 2500              | -       | -       | -                  | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/10/99      | 5120       | -                  | 2500              | -       | -       | -                  | -         | -       | -         | -         | -      | 0.365   | 0.496         | <0.002  | <0.005   | <0.002 | 0.016 | <0.025 | <0.0002 | <0.005    | <0.02    | <0.003 | <0.01 |    |

**Table 3. Summary of Ground Water Analyses - Inorganics**  
**TW Bell Lake Gas Plant**

| Well             | Sampling Date | TDS (mg/L) | Alk., total (mg/L) | Major Ions (mg/L) |         |         |           |           |         |           |           |        |         | Metals (mg/L) |         |          |        |        |         |         |           |          |        |       |       |
|------------------|---------------|------------|--------------------|-------------------|---------|---------|-----------|-----------|---------|-----------|-----------|--------|---------|---------------|---------|----------|--------|--------|---------|---------|-----------|----------|--------|-------|-------|
|                  |               |            |                    | Chloride          | Sulfate | Sulfite | N-Nitrate | N-Nitrite | Calcium | Magnesium | Potassium | Sodium | Arsenic | Barium        | Cadmium | Chromium | Copper | Iron   | Lead    | Mercury | Manganese | Selenium | Silver | Zinc  |       |
| NMW/QCC Standard |               |            |                    | 250               | 600     | none    | 10        | none      | none    | none      | none      | none   | none    | 0.1           | 1.0     | 0.01     | 0.05   | 1.0    | 1.0     | 0.05    | 0.002     | 0.2      | 0.05   | 0.05  | 10    |
| MW-7             | 12/13/95      | 4040       | -                  | 2150              | 88      | 2.0     | 17.5      | 0.023     | 419     | 155       | 31.2      | 954    | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
|                  | 02/20/96      | 4490       | -                  | 2500              | 60.9    | <0.50   | <0.50     | <0.01     | 499     | 193       | 29.3      | 745    | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
|                  | 02/08/97      | 4350       | -                  | 2100              | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
|                  | 08/08/97      | 6260       | -                  | 2200              | -       | -       | -         | -         | -       | -         | -         | -      | <0.03   | 1.5           | <0.01   | <0.01    | 0.04   | 3.1    | <0.03   | <0.0002 | 6.7       | 0.19     | <0.01  | 0.15  |       |
|                  | 02/24/98      | 4470       | -                  | 1810              | -       | -       | -         | -         | -       | -         | -         | -      | <0.01   | 0.968         | <0.005  | <0.01    | <0.01  | 0.11   | <0.05   | <0.0002 | 4.86      | <0.1     | <0.01  | <0.02 |       |
|                  | 08/04/98      | 3400       | -                  | 1950              | -       | -       | -         | -         | -       | -         | -         | -      | <0.02   | 0.854         | <0.002  | <0.005   | 0.0051 | <0.01  | <0.025  | <0.0002 | 4.10      | <0.02    | <0.003 | 0.021 |       |
| 08/10/99         | 3900          | -          | 1800               | -                 | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      |       |       |
| MW-8             | 12/12/95      | 2840       | -                  | 1140              | 71      | 2.0     | 24.5      | 0.07      | 66.3    | 13        | 15.8      | 979    | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
|                  | 02/21/96      | 2530       | -                  | 790               | 10.2    | <0.50   | <0.50     | <0.01     | 50.4    | 13.2      | 14.5      | 873    | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
|                  | 02/08/97      | 3050       | -                  | 825               | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
|                  | 08/09/97      | 4910       | -                  | 1420              | -       | -       | -         | -         | -       | -         | -         | -      | 0.29    | 0.63          | <0.01   | <0.01    | 0.02   | 4.2    | <0.03   | <0.0002 | 0.10      | <0.04    | <0.01  | 0.90  |       |
|                  | 02/26/98      | 2730       | -                  | 800               | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
|                  | 02/26/98      | 2950       | -                  | 887               | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
| Jup (MW-13)      | 08/04/98      | 2600       | -                  | 960               | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
|                  | 02/11/99      | 3670       | -                  | 1000              | -       | -       | -         | -         | -       | -         | -         | -      | 0.3     | 0.481         | <0.005  | <0.01    | <0.01  | 0.29   | <0.05   | <0.0002 | 0.019     | <0.1     | <0.01  | <0.02 |       |
|                  | 08/11/99      | 3580       | -                  | 930               | -       | -       | -         | -         | -       | -         | -         | -      | 0.352   | 0.430         | <0.002  | <0.005   | <0.002 | 0.268  | <0.025  | <0.0002 | 0.0062    | <0.02    | <0.003 | <0.01 |       |
|                  | 08/11/99      | 3530       | -                  | 980               | -       | -       | -         | -         | -       | -         | -         | -      | 0.365   | 0.467         | <0.002  | <0.005   | <0.002 | 0.293  | <0.025  | <0.0002 | 0.0060    | <0.02    | <0.003 | <0.01 |       |
|                  | MW-9          | 12/12/95   | 11700              | -                 | 4500    | 7       | 3.0       | 38.3      | <0.01   | 388       | 168       | 32     | 3030    | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     | -     |
|                  |               | 02/21/96   | 11000              | -                 | 4200    | <5.0    | <0.50     | <0.50     | 0.02    | 201       | 118       | 28.9   | 3740    | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     | -     |
| 02/08/97         |               | 10800      | -                  | 4750              | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
| 08/09/97         |               | 11400      | -                  | 4450              | -       | -       | -         | -         | -       | -         | -         | -      | <0.03   | 14.7          | <0.01   | <0.01    | <0.01  | 4.8    | <0.03   | <0.0002 | 0.18      | 0.20     | <0.01  | 0.20  |       |
| 02/25/98         |               | 10900      | -                  | 5730              | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
| 08/04/98         |               | 10900      | -                  | 4960              | -       | -       | -         | -         | -       | -         | -         | -      | 0.03    | 10.3          | <0.005  | <0.01    | <0.01  | 0.30   | <0.05   | <0.0002 | 0.107     | <0.1     | <0.01  | <0.02 |       |
| Jup (MW-13)      | 02/11/99      | 10500      | -                  | 3400              | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
|                  | 02/11/99      | 10700      | -                  | 4600              | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
|                  | 08/11/99      | 10400      | -                  | 4600              | -       | -       | -         | -         | -       | -         | -         | -      | 0.200   | 7.82          | <0.002  | <0.005   | <0.002 | 0.075  | <0.025  | <0.0002 | 0.0579    | <0.02    | <0.003 | <0.01 |       |
|                  | MW-10         | 01/09/98   | 5930               | -                 | 3600    | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     | -     |
|                  |               | 02/25/98   | 9150               | -                 | 3860    | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     | -     |
|                  |               | 08/04/98   | 6200               | -                 | 3690    | -       | -         | -         | -       | -         | -         | -      | -       | <0.1          | 19.3    | <0.005   | <0.01  | <0.01  | 30.3    | <0.05   | <0.0002   | 11.3     | <0.1   | <0.01 | <0.02 |
| 02/11/99         |               | 5710       | -                  | 2900              | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -      | -       | -       | -         | -        | -      | -     |       |
| 08/11/99         | 5220          | -          | 3000               | -                 | -       | -       | -         | -         | -       | -         | -         | 0.040  | 11.3    | <0.002        | <0.005  | <0.002   | 0.012  | <0.025 | <0.0002 | 4.37    | <0.02     | <0.003   | <0.01  |       |       |

**Table 3. Summary of Ground Water Analyses - Inorganics**  
**TW Bell Lake Gas Plant**

| Well            | Sampling Date | TDS (mg/L) | Alk., total (mg/L) | Major Ions (mg/L) |         |         |           |           |         |           |           |        |         | Metals (mg/L) |         |          |        |       |        |         |           |          |        |       |    |
|-----------------|---------------|------------|--------------------|-------------------|---------|---------|-----------|-----------|---------|-----------|-----------|--------|---------|---------------|---------|----------|--------|-------|--------|---------|-----------|----------|--------|-------|----|
|                 |               |            |                    | Chloride          | Sulfate | Sulfite | N-Nitrate | N-Nitrite | Calcium | Magnesium | Potassium | Sodium | Arsenic | Barium        | Cadmium | Chromium | Copper | Iron  | Lead   | Mercury | Manganese | Selenium | Silver | Zinc  |    |
| NMWQCC Standard |               |            |                    | 250               | 600     | none    | 10        | none      | none    | none      | none      | none   | none    | 0.1           | 1.0     | 0.01     | 0.05   | 1.0   | 1.0    | 0.05    | 0.002     | 0.2      | 0.05   | 0.05  | 10 |
| MW-11           | 01/10/98      | 6760       | -                  | 3500              | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 02/25/98      | 10800      | -                  | 4650              | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/04/98      | 9400       | -                  | 5140              | -       | -       | -         | -         | -       | -         | -         | -      | 0.5     | 10.0          | <0.005  | <0.01    | <0.01  | 21.1  | <0.05  | <0.0002 | 3.54      | <0.1     | <0.01  | <0.02 |    |
|                 | 02/11/99      | 9620       | -                  | 4600              | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/10/99      | 9090       | -                  | 4900              | -       | -       | -         | -         | -       | -         | -         | -      | 0.404   | 8.25          | <0.002  | <0.005   | <0.002 | 0.267 | <0.025 | <0.0002 | 1.47      | <0.02    | <0.003 | <0.01 |    |
| MW-12           | 01/10/98      | 413        | -                  | 180               | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 02/24/98      | 362        | -                  | 77.3              | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/04/98      | 340        | -                  | 80                | -       | -       | -         | -         | -       | -         | -         | -      | <0.1    | 0.176         | <0.005  | <0.01    | <0.01  | <0.02 | <0.05  | <0.0002 | <0.005    | <0.1     | <0.01  | <0.02 |    |
|                 | 02/10/99      | 390        | -                  | 93                | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/10/99      | 400        | -                  | 110               | -       | -       | -         | -         | -       | -         | -         | -      | <0.02   | 0.194         | <0.002  | <0.005   | <0.002 | <0.01 | <0.025 | <0.0002 | <0.005    | <0.02    | <0.003 | <0.01 |    |
| Water Well      | 05/31/95      | 900        | 144                | 100               | 356     | 0.50    | <0.10     | <0.01     | 38.7    | 23.2      | 5.3       | 194    | 0.02    | 0.02          | <0.01   | <0.01    | <0.01  | 0.39  | <0.03  | <0.0002 | 0.01      | <0.04    | <0.01  | <0.03 |    |
|                 | 12/14/95      | 825        | -                  | 106               | 345     | <1.0    | 1.7       | <0.01     | 38      | 22.2      | 5.32      | 186    | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 02/21/96      | 402        | -                  | 107               | 343     | <0.50   | <0.50     | <0.01     | 44.9    | 26.1      | 5.82      | 221    | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 02/08/97      | 854        | -                  | 109               | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/09/97      | 840        | -                  | 500               | -       | -       | -         | -         | -       | -         | -         | -      | <0.03   | <0.01         | <0.01   | <0.01    | <0.01  | 0.66  | <0.03  | <0.0002 | 0.02      | <0.04    | <0.01  | 0.19  |    |
|                 | 02/26/98      | 850        | -                  | 102               | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/04/98      | 850        | -                  | 113               | -       | -       | -         | -         | -       | -         | -         | -      | <0.1    | 0.020         | <0.005  | <0.01    | <0.01  | 0.05  | <0.05  | <0.0002 | 0.015     | <0.1     | <0.01  | <0.02 |    |
|                 | 02/11/99      | 850        | -                  | 110               | -       | -       | -         | -         | -       | -         | -         | -      | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |
|                 | 08/11/99      | 830        | -                  | 110               | -       | -       | -         | -         | -       | -         | -         | -      | <0.02   | 0.0238        | <0.002  | <0.005   | <0.002 | 0.018 | <0.025 | <0.0002 | 0.014     | <0.02    | <0.003 | <0.01 |    |
|                 | SVE-2         | 12/13/95   | 2670               | -                 | 1500    | 43      | 3.0       | 31.9      | 0.03    | 317       | 25.2      | 26.8   | 1720    | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     | -  |
| 02/20/96        |               | 2410       | -                  | 495               | 33.5    | <0.50   | <0.50     | 0.01      | 66.5    | 56.6      | 25        | 1390   | -       | -             | -       | -        | -      | -     | -      | -       | -         | -        | -      | -     |    |

Notes:  
(a) Nitrate + Nitrite

**Table 4. Summary of SVE Emissions at Individual Extraction Points  
TW Bell Lake Gas Plant**

| SVE Well  | Date     | PID Reading | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|-------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppmv)      | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| SVE-1     | 08/13/96 | >2000       | 15,000                 | 3,726                 | 0.0  | 18.2  | 43.1  | 22.7  | 13.7  | 2.1    | 0.2     | 0.0     | 0.0     | 0.0  |
|           | 02/08/97 | >2000       | 650                    | 161                   | 0.0  | 8.3   | 29.1  | 56.6  | 5.5   | 0.4    | 0.1     | 0.0     | 0.0     | 0.0  |
|           | 08/10/97 | na          | 6,000                  | 1,490                 | 0.0  | 0.4   | 3.1   | 21.2  | 31.9  | 34.2   | 7.5     | 1.5     | 0.1     | 0.1  |
|           | 01/09/98 | na          | 6,400                  | 1,590                 | 0.0  | 0.9   | 5.2   | 17.6  | 32.7  | 28.9   | 12.4    | 2.1     | 0.2     | 0.0  |
|           | 08/12/98 | na          | 5,200                  | 1,292                 | 0.0  | 0.4   | 3.6   | 18.9  | 28.7  | 28.0   | 15.4    | 3.9     | 1.1     | 0.0  |
| SVE-2     | 08/13/96 | >2000       | 9,000                  | 2,236                 | 0.3  | 13.9  | 39.1  | 25.4  | 17.2  | 3.9    | 0.2     | 0.0     | 0.0     | 0.0  |
|           | 02/08/97 | >2000       | 630                    | 156                   | 0.0  | 1.9   | 25.4  | 61.7  | 9.1   | 1.3    | 0.0     | 0.1     | 0.3     | 0.2  |
|           | 01/09/98 | na          | 3,900                  | 969                   | 0.0  | 0.0   | 3.8   | 19.6  | 33.5  | 27.9   | 12.3    | 2.5     | 0.3     | 0.1  |
| SVE-3     | 08/13/96 | >2000       | 4,700                  | 1,167                 | 0.6  | 19.3  | 29.2  | 22.9  | 19.6  | 7.4    | 0.7     | 0.1     | 0.2     | 0.0  |
|           | 02/08/97 | >2000       | 800                    | 199                   | 0.0  | 2.0   | 27.8  | 61.3  | 8.1   | 0.8    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 08/10/97 | na          | 3,300                  | 820                   | 0.0  | 0.2   | 2.4   | 34.2  | 29.6  | 21.0   | 8.8     | 3.3     | 0.5     | 0.0  |
|           | 01/09/98 | na          | 1,400                  | 348                   | 0.0  | 0.0   | 1.4   | 17.6  | 28.6  | 24.8   | 18.6    | 7.3     | 1.7     | 0.0  |
|           | 08/12/98 | na          | 1,900                  | 472                   | 0.0  | 0.0   | 1.2   | 21.1  | 29.9  | 25.7   | 13.9    | 6.3     | 1.8     | 0.1  |
| SVE-4     | 01/09/98 | na          | 5,300                  | 1,317                 | 0.0  | 1.3   | 10.4  | 31.3  | 25.2  | 19.2   | 9.4     | 2.7     | 0.5     | 0.0  |
|           | 08/12/98 | na          | 1,800                  | 447                   | 0.0  | 0.9   | 8.0   | 28.7  | 21.7  | 20.4   | 9.4     | 4.3     | 5.0     | 1.6  |
| SVE-7     | 01/09/98 | na          | 4,100                  | 1,018                 | 0.0  | 0.1   | 2.6   | 25.9  | 38.2  | 23.2   | 7.1     | 2.2     | 0.7     | 0.0  |
| MW-4      | 01/09/98 | na          | 1,200                  | 298                   | 0.0  | 0.5   | 5.6   | 20.2  | 24.5  | 23.5   | 16.6    | 6.6     | 2.3     | 0.2  |
|           | 08/12/98 | na          | 820                    | 204                   | 0.0  | 0.4   | 4.7   | 24.3  | 24.7  | 23.8   | 14.1    | 5.1     | 2.6     | 0.3  |
| SVE-Total | 08/10/97 | na          | 2,800                  | 696                   | 0.0  | 0.2   | 3.1   | 21.8  | 31.0  | 30.4   | 9.4     | 3.4     | 0.7     | 0.0  |
|           | 01/09/98 | na          | 4,000                  | 994                   | 0.0  | 0.2   | 4.1   | 19.7  | 32.7  | 26.8   | 12.6    | 3.2     | 0.7     | 0.0  |
|           | 08/04/98 | na          | 2,400                  | 596                   | 0.0  | 0.4   | 4.0   | 23.4  | 28.9  | 24.8   | 13.6    | 4.0     | 0.9     | 0.0  |
|           | 08/12/98 | na          | 2,300                  | 571                   | 0.0  | 0.3   | 3.1   | 22.1  | 28.9  | 24.8   | 16.1    | 3.5     | 1.2     | 0.0  |
| (dup)     | 08/12/98 | na          | 2,500                  | 621                   | 0.0  | 0.4   | 3.6   | 21.8  | 26.9  | 23.1   | 15.0    | 6.4     | 2.5     | 0.3  |
|           | 04/14/99 | na          | 3,000                  | 745                   | 0.0  | 0.4   | 3.4   | 16.4  | 27.2  | 31.3   | 13.7    | 6.1     | 1.5     | 0.0  |

All air samples analyzed by Hall Laboratory of Albuquerque, NM  
PID = Photoionization detector

<sup>(a)</sup> Conversion Factor:

$P = 0.88 \text{ atm}$ ,  $MW = 110 \text{ g/mole}$ ,  $R = 0.08205 \text{ L*atm/(K*mole)}$ ,  $T = 293^{\circ}\text{K}$

$C \text{ ppmv} = C \text{ ug/L} * ((R * T)/(MW * P))$

$C \text{ ppmv} = C \text{ ug/L} * 0.2484$

**Annual Report of Ground Water Remediation Activities**

**Transwestern Pipeline Company  
Bell Lake Plant**

**Attachment #1**

**Laboratory Reports for the August 1998, February 1999  
& August 1999 Ground Water Sampling Event**



August 20, 1998

Mr. George Robinson  
CYPRESS ENGINEERING, INC.  
10235 W. Little York Rd #256  
Houston, TX 77040

The following report contains analytical results for the sample(s) received at Southern Petroleum Laboratories (SPL) on August 6, 1998. The sample(s) was assigned to Certificate of Analysis No.(s) 9808149 and analyzed for all parameters as listed on the chain of custody.

Sample "Water Well" (SPL#9808149-08A) was randomly chosen as a Quality Control sample for the Volatile Aromatics analysis SW-846 method 8021B. The recovery of o-Xylene in the Matrix Spike (MS) and Matrix Spike Duplicate(MSD) was outside of the advisory QC limits. A Laboratory Control Sample was analyzed with the QC batch (HP\_U980808054801). The recovery of all analytes in the LCS was within the mandatory QC limits, validating the batch.

Any data flag or quality control exception associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s).

If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis No. during any inquiries.

Again, SPL is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Southern Petroleum Laboratories

  
Electa Brown  
Project Manager



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

**Southern Petroleum Laboratories, Inc.**

**Certificate of Analysis Number: 98-08-149**

Approved for Release by:

A handwritten signature in cursive script, reading "Electa Brown", is written over a horizontal line.

Electa Brown, Project Manager

A handwritten date "8-21-98" is written over a horizontal line.

Date

Greg Grandits  
Laboratory Director

Cynthia Schreiner  
Quality Assurance Officer

The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory.  
The results relate only to the samples tested.  
Results reported on a Wet Weight Basis unless otherwise noted.



Certificate of Analysis No. H9-9808149-01

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-7

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 10:30:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                        |         |                 |       |  |
|----------------------------------------------------------------------------------------|---------|-----------------|-------|--|
| PARAMETER                                                                              | RESULTS | DETECTION LIMIT | UNITS |  |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00               | 1950    | 20              | mg/L  |  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: KS<br>Date: 08/07/98 16:25:00 | 3400    | 100             | mg/L  |  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND      | 0.01            | mg/L  |  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.1             | mg/L  |  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | 0.968   | 0.005           | mg/L  |  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.005           | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



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DATE: 08/20/98

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SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-7

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 10:30:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                          |          |                    |       |  |
|------------------------------------------------------------------------------------------|----------|--------------------|-------|--|
| PARAMETER                                                                                | RESULTS  | DETECTION<br>LIMIT | UNITS |  |
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01               | mg/L  |  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01               | mg/L  |  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | 0.11     | 0.02               | mg    |  |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002             | mg/L  |  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 4.86     | 0.005              | mg/L  |  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                    |       |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-7

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 10:30:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                       |         |                    |       |  |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-7

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 10:30:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | ND               | 5.0           | ug/L           |                |
| Toluene              | 5.6              | 5.0           | ug/L           |                |
| Ethyl benzene        | ND               | 5.0           | ug/L           |                |
| Total Xylene         | ND               | 5.0           | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 150 ug/L         | 100           | 50             | 150            |
| 4-Bromofluorobenzene | 150 ug/L         | 93            | 50             | 150            |

ANALYZED BY: YN DATE/TIME: 08/08/98 04:09:00  
METHOD: 8021B, Volatile Organic [SW-846]  
NOTES: \* - Practical Quantitation Limit ND - Not Detected  
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



Certificate of Analysis No. H9-9808149-02

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress-Engineering  
SAMPLE ID: MW-6

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 11:35:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                        |         |                    |       |  |
|----------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                              | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00               | 2450    | 20                 | mg/L  |  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: KS<br>Date: 08/07/98 16:25:00 | 4200    | 100                | mg/L  |  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND      | 0.01               | mg/L  |  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 0.4     | 0.1                | mg/L  |  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | 0.548   | 0.005              | mg/L  |  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.005              | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
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Certificate of Analysis No. H9-9808149-02

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-6

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 11:35:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                          |          |                 |       |  |
|------------------------------------------------------------------------------------------|----------|-----------------|-------|--|
| PARAMETER                                                                                | RESULTS  | DETECTION LIMIT | UNITS |  |
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01            | mg/L  |  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01            | mg/L  |  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | 0.04     | 0.02            | mg    |  |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002          | mg/L  |  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 0.007    | 0.005           | mg/L  |  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                 |       |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. H9-9808149-02

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-6

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 11:35:00  
DATE RECEIVED: 08/06/98

#### ANALYTICAL DATA

| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg/L  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
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Certificate of Analysis No. H9-9808149-02

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-6

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 11:35:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | 29               | 1.0           | ug/L           |                |
| Toluene              | 22               | 1.0           | ug/L           |                |
| Ethyl benzene        | 24               | 1.0           | ug/L           |                |
| Total Xylene         | 120              | 1.0           | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 30 ug/L          | 100           | 50             | 150            |
| 4-Bromofluorobenzene | 30 ug/L          | 103           | 50             | 150            |

ANALYZED BY: TB DATE/TIME: 08/10/98 06:40:00  
METHOD: 8021B, Volatile Organic [SW-846]  
NOTES: \* - Practical Quantitation Limit ND - Not Detected  
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



Certificate of Analysis No. H9-9808149-03

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-10

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 12:40:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                        |         |                 |       |  |
|----------------------------------------------------------------------------------------|---------|-----------------|-------|--|
| PARAMETER                                                                              | RESULTS | DETECTION LIMIT | UNITS |  |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00               | 3690    | 20              | mg/L  |  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: DS<br>Date: 08/10/98 14:30:00 | 6200    | 100             | mg/L  |  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND      | 0.01            | mg/L  |  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.1             | mg/L  |  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | 19.3    | 0.005           | mg/L  |  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.005           | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. H9-9808149-03

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10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-10

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 12:40:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                          |          |                    |       |  |
|------------------------------------------------------------------------------------------|----------|--------------------|-------|--|
| PARAMETER                                                                                | RESULTS  | DETECTION<br>LIMIT | UNITS |  |
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01               | mg/L  |  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01               | mg/L  |  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | 30.3     | 0.02               | mg/L  |  |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002             | mg/L  |  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 11.3     | 0.005              | mg/L  |  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                    |       |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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DATE: 08/20/98

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SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-10

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 12:40:00  
DATE RECEIVED: 08/06/98

#### ANALYTICAL DATA

| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg/L  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
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Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-10

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 12:40:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | 56               | 5.0           | ug/L           |                |
| Toluene              | 39               | 5.0           | ug/L           |                |
| Ethyl benzene        | 5.4              | 5.0           | ug/L           |                |
| Total Xylene         | 85               | 5.0           | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 150 ug/L         | 93            | 50             | 150            |
| 4-Bromofluorobenzene | 150 ug/L         | 87            | 50             | 150            |

ANALYZED BY: YN                      DATE/TIME: 08/08/98 07:07:00  
METHOD: 8021B, Volatile Organic [SW-846]  
NOTES: \* - Practical Quantitation Limit                      ND - Not Detected  
         NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-04

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-5

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 14:10:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                        |         |                    |       |  |
|----------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                              | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00               | 3330    | 20                 | mg/L  |  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: DS<br>Date: 08/10/98 14:30:00 | 6800    | 100                | mg/L  |  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND      | 0.01               | mg/L  |  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 0.2     | 0.1                | mg/L  |  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | 0.960   | 0.005              | mg/L  |  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.005              | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
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Certificate of Analysis No. H9-9808149-04

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-5

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 14:10:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                          |          |                    |       |  |
|------------------------------------------------------------------------------------------|----------|--------------------|-------|--|
| PARAMETER                                                                                | RESULTS  | DETECTION<br>LIMIT | UNITS |  |
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01               | mg/L  |  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01               | mg/L  |  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | 0.05     | 0.02               | mg    |  |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002             | mg/L  |  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 0.014    | 0.005              | mg/L  |  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                    |       |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
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Certificate of Analysis No. H9-9808149-04

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Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-5

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 14:10:00  
DATE RECEIVED: 08/06/98

#### ANALYTICAL DATA

| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg/L  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake

PROJECT NO:

SITE:

MATRIX: WATER

SAMPLED BY: Cypress Engineering

DATE SAMPLED: 08/04/98 14:10:00

SAMPLE ID: MW-5

DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | 110              | 5.0           | ug/L           |                |
| Toluene              | 96               | 5.0           | ug/L           |                |
| Ethyl benzene        | 27               | 5.0           | ug/L           |                |
| Total Xylene         | 190              | 5.0           | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 150 ug/L         | 100           | 50             | 150            |
| 4-Bromofluorobenzene | 150 ug/L         | 57            | 50             | 150            |

ANALYZED BY: DN

DATE/TIME: 08/09/98 11:11:00

METHOD: 8021B, Volatile Organic [SW-846]

NOTES: \* - Practical Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



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Certificate of Analysis No. H9-9808149-05

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-8

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 15:05:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                        |         |                 |       |  |
|----------------------------------------------------------------------------------------|---------|-----------------|-------|--|
| PARAMETER                                                                              | RESULTS | DETECTION LIMIT | UNITS |  |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00               | 960     | 10              | mg/L  |  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: DS<br>Date: 08/10/98 14:30:00 | 2600    | 100             | mg/L  |  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND      | 0.01            | mg/L  |  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 0.3     | 0.1             | mg/L  |  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | 0.481   | 0.005           | mg/L  |  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.005           | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. H9-9808149-05

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-8

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 15:05:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                          |          |                    |       |  |
|------------------------------------------------------------------------------------------|----------|--------------------|-------|--|
| PARAMETER                                                                                | RESULTS  | DETECTION<br>LIMIT | UNITS |  |
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01               | mg/L  |  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01               | mg/L  |  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | 0.29     | 0.02               | mg/L  |  |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002             | mg/L  |  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 0.019    | 0.005              | mg/L  |  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                    |       |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
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Certificate of Analysis No. H9-9808149-05

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-8

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 15:05:00  
DATE RECEIVED: 08/06/98

#### ANALYTICAL DATA

| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg/L  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. H9-9808149-05

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-8

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 15:05:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | 200              | 5.0           | ug/L           |                |
| Toluene              | 410              | 5.0           | ug/L           |                |
| Ethyl benzene        | 19               | 5.0           | ug/L           |                |
| Total Xylene         | 340              | 5.0           | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 150 ug/L         | 100           | 50             | 150            |
| 4-Bromofluorobenzene | 150 ug/L         | 60            | 50             | 150            |

ANALYZED BY: DN DATE/TIME: 08/09/98 11:37:00  
METHOD: 8021B, Volatile Organic [SW-846]  
NOTES: \* - Practical Quantitation Limit ND - Not Detected  
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-06

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-9

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 16:20:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                         |         |                    |       |  |
|-----------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                               | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00                | 4960    | 50                 | mg/L  |  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: DS-<br>Date: 08/11/98 12:00:00 | 10900   | 100                | mg/L  |  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.01               | mg/L  |  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | 0.3     | 0.1                | mg/L  |  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | 10.3    | 0.005              | mg/L  |  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND      | 0.005              | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
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HOUSTON, TEXAS 77054  
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Certificate of Analysis No. H9-9808149-06

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-9

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 16:20:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                          |          |                    |       |  |
|------------------------------------------------------------------------------------------|----------|--------------------|-------|--|
| PARAMETER                                                                                | RESULTS  | DETECTION<br>LIMIT | UNITS |  |
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01               | mg/L  |  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01               | mg/L  |  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | 0.30     | 0.02               | mg    |  |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002             | mg/L  |  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 0.107    | 0.005              | mg/L  |  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                    |       |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
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Certificate of Analysis No. H9-9808149-06

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10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-9

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 16:20:00  
DATE RECEIVED: 08/06/98

#### ANALYTICAL DATA

| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg/L  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
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Certificate of Analysis No. H9-9808149-06

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-9

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 16:20:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | 190              | 25            | ug/L           |                |
| Toluene              | 460              | 25            | ug/L           |                |
| Ethyl benzene        | 28               | 25            | ug/L           |                |
| Total Xylene         | 680              | 25            | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 750 ug/L         | 95            | 50             | 150            |
| 4-Bromofluorobenzene | 750 ug/L         | 95            | 50             | 150            |

ANALYZED BY: YN DATE/TIME: 08/08/98 07:58:00  
METHOD: 8021B, Volatile Organic [SW-846]  
NOTES: \* - Practical Quantitation Limit ND - Not Detected  
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
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HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-07

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-11

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 17:20:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                        |         |                    |       |  |
|----------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                              | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00               | 5140    | 50                 | mg/L  |  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: DS<br>Date: 08/11/98 12:00:00 | 9400    | 100                | mg/L  |  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND      | 0.01               | mg/L  |  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 0.5     | 0.1                | mg/L  |  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | 10.0    | 0.005              | mg/L  |  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.005              | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-07

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-11

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 17:20:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                          |          |                    |       |  |
|------------------------------------------------------------------------------------------|----------|--------------------|-------|--|
| PARAMETER                                                                                | RESULTS  | DETECTION<br>LIMIT | UNITS |  |
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01               | mg/L  |  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01               | mg/L  |  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | 21.1     | 0.02               | mg    |  |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002             | mg/L  |  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 3.54     | 0.005              | mg/L  |  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                    |       |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



Certificate of Analysis No. H9-9808149-07

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-11

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 17:20:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                       |         |                    |       |  |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. H9-9808149-07

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-11

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 17:20:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | 490              | 25            | ug/L           |                |
| Toluene              | 590              | 25            | ug/L           |                |
| Ethyl benzene        | 32               | 25            | ug/L           |                |
| Total Xylene         | 650              | 25            | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 750 ug/L         | 95            | 50             | 150            |
| 4-Bromofluorobenzene | 750 ug/L         | 91            | 50             | 150            |

ANALYZED BY: YN                      DATE/TIME: 08/08/98 08:23:00  
METHOD: 8021B, Volatile Organic [SW-846]  
NOTES:    \* - Practical Quantitation Limit                      ND - Not Detected  
          NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-08

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: Water Well

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 18:10:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                        |         |                    |       |  |
|----------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                              | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00               | 113     | 2                  | mg/L  |  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: DS<br>Date: 08/11/98 12:00:00 | 850     | 10                 | mg/L  |  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND      | 0.01               | mg/L  |  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.1                | mg/L  |  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | 0.020   | 0.005              | mg/L  |  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.005              | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-08

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake

PROJECT NO:

SITE:

MATRIX: WATER

SAMPLED BY: Cypress Engineering

DATE SAMPLED: 08/04/98 18:10:00

SAMPLE ID: Water Well

DATE RECEIVED: 08/06/98

#### ANALYTICAL DATA

| PARAMETER                                                                                | RESULTS  | DETECTION<br>LIMIT | UNITS |
|------------------------------------------------------------------------------------------|----------|--------------------|-------|
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01               | mg/L  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01               | mg/L  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | 0.05     | 0.02               | mg    |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002             | mg/L  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 0.015    | 0.005              | mg/L  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                    |       |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
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Certificate of Analysis No. H9-9808149-08

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: Water Well

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 18:10:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                       |         |                    |       |  |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-08

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: Water Well

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 18:10:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | ND               | 1.0           | ug/L           |                |
| Toluene              | ND               | 1.0           | ug/L           |                |
| Ethyl benzene        | ND               | 1.0           | ug/L           |                |
| Total Xylene         | ND               | 1.0           | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 30 ug/L          | 97            | 50             | 150            |
| 4-Bromofluorobenzene | 30 ug/L          | 93            | 50             | 150            |

ANALYZED BY: YN                      DATE/TIME: 08/08/98 06:42:00  
METHOD: 8021B, Volatile Organic [SW-846]  
NOTES:    \* - Practical Quantitation Limit                      ND - Not Detected  
          NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-09

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: Monitor Well Purge 1/9/98

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 18:10:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | ND               | 1.0           | ug/L           |                |
| Toluene              | ND               | 1.0           | ug/L           |                |
| Ethyl benzene        | ND               | 1.0           | ug/L           |                |
| Total Xylene         | ND               | 1.0           | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 30 ug/L          | 93            | 50             | 150            |
| 4-Bromofluorobenzene | 30 ug/L          | 100           | 50             | 150            |

ANALYZED BY: TB DATE/TIME: 08/12/98 07:33:00  
METHOD: 8021B, Volatile Organic [SW-846]  
NOTES: \* - Practical Quantitation Limit ND - Not Detected  
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-10

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-3

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/03/98 15:15:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                        |         |                 |       |  |
|----------------------------------------------------------------------------------------|---------|-----------------|-------|--|
| PARAMETER                                                                              | RESULTS | DETECTION LIMIT | UNITS |  |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00               | 15      | 1               | mg/L  |  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: KS<br>Date: 08/07/98 16:25:00 | 200     | 100             | mg/L  |  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND      | 0.01            | mg    |  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.1             | mg/L  |  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | 0.184   | 0.005           | mg/L  |  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.005           | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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HOUSTON, TEXAS 77054  
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Certificate of Analysis No. H9-9808149-10

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-3

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/03/98 15:15:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                          |          |                    |       |  |
|------------------------------------------------------------------------------------------|----------|--------------------|-------|--|
| PARAMETER                                                                                | RESULTS  | DETECTION<br>LIMIT | UNITS |  |
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01               | mg/L  |  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01               | mg/L  |  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | ND       | 0.02               | mg/L  |  |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002             | mg/L  |  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND       | 0.005              | mg/L  |  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                    |       |  |

ND-- Not detected...

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-10

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-3

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/03/98 15:15:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                       |         |                    |       |  |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg    |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. H9-9808149-11

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-2

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/03/98 16:25:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                        |         |                 |       |
|----------------------------------------------------------------------------------------|---------|-----------------|-------|
| PARAMETER                                                                              | RESULTS | DETECTION LIMIT | UNITS |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00               | 500     | 5               | mg/L  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: KS<br>Date: 08/07/98 16:25:00 | 1000    | 100             | mg/L  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND      | 0.01            | mg/L  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.1             | mg/L  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | 0.231   | 0.005           | mg/L  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND      | 0.005           | mg/L  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. H9-9808149-11

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-2PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/03/98 16:25:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                          |          |                    |       |  |
|------------------------------------------------------------------------------------------|----------|--------------------|-------|--|
| PARAMETER                                                                                | RESULTS  | DETECTION<br>LIMIT | UNITS |  |
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01               | mg/L  |  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01               | mg/L  |  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | ND       | 0.02               | mg/L  |  |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002             | mg/L  |  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 0.339    | 0.005              | mg/L  |  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                    |       |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.QUALITY ASSURANCE: These analyses are performed in accordance  
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Certificate of Analysis No. H9-9808149-11

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HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-2

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/03/98 16:25:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                       |         |                    |       |  |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-11

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake

PROJECT NO:

SITE:

MATRIX: WATER

SAMPLED BY: Cypress Engineering

DATE SAMPLED: 08/03/98 16:25:00

SAMPLE ID: MW-2

DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | ND               | 5.0           | ug/L           |                |
| Toluene              | ND               | 5.0           | ug/L           |                |
| Ethyl benzene        | ND               | 5.0           | ug/L           |                |
| Total Xylene         | ND               | 5.0           | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 150 ug/L         | 100           | 50             | 150            |
| 4-Bromofluorobenzene | 150 ug/L         | 93            | 50             | 150            |

ANALYZED BY: YN

DATE/TIME: 08/08/98 09:14:00

METHOD: 8021B, Volatile Organic [SW-846]

NOTES: \* - Practical Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-12

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-1

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/03/98 17:40:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                      |         |                    |       |  |
|--------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                            | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00             | 2215    | 50                 | mg/L  |  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: KS<br>Date: 08/07/98        | 3600    | 100                | mg/L  |  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00  | ND      | 0.01               | mg/L  |  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00  | 0.184   | 0.005              | mg/L  |  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.005              | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



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HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-12

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-1

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/03/98 17:40:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                          |          |                    |       |  |
|------------------------------------------------------------------------------------------|----------|--------------------|-------|--|
| PARAMETER                                                                                | RESULTS  | DETECTION<br>LIMIT | UNITS |  |
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01               | mg/L  |  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01               | mg/L  |  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | 0.10     | 0.02               | mg/L  |  |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002             | mg/L  |  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | 0.063    | 0.005              | mg/L  |  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                    |       |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-12

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-1

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/03/98 17:40:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                       |         |                    |       |  |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
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PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-12

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake

PROJECT NO:

SITE:

MATRIX: WATER

SAMPLED BY: Cypress Engineering

DATE SAMPLED: 08/03/98 17:40:00

SAMPLE ID: MW-1

DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | 6.5              | 1.0           | ug/L           |                |
| Toluene              | 6.4              | 1.0           | ug/L           |                |
| Ethyl benzene        | 11               | 1.0           | ug/L           |                |
| Total Xylene         | 11               | 1.0           | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 30 ug/L          | 97            | 50             | 150            |
| 4-Bromofluorobenzene | 30 ug/L          | 57            | 50             | 150            |

ANALYZED BY: TB

DATE/TIME: 08/10/98 03:35:00

METHOD: 8021B, Volatile Organic [SW-846]

NOTES: \* - Practical Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



Certificate of Analysis No. H9-9808149-13

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-12

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 09:40:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                      |         |                    |       |  |
|--------------------------------------------------------------------------------------|---------|--------------------|-------|--|
| PARAMETER                                                                            | RESULTS | DETECTION<br>LIMIT | UNITS |  |
| Chloride<br>Method 325.3 *<br>Analyzed by: AB<br>Date: 08/17/98 15:00:00             | 80      | 1                  | mg/L  |  |
| Total Dissolved Solids<br>Method 160.1 *<br>Analyzed by: KS<br>Date: 08/07/98        | 340     | 10                 | mg/L  |  |
| Silver, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00  | ND      | 0.01               | mg/L  |  |
| Arsenic, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |  |
| Barium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00  | 0.176   | 0.005              | mg/L  |  |
| Cadmium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.005              | mg/L  |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



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8880 INTERCHANGE DRIVE  
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Certificate of Analysis No. H9-9808149-13

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-12

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 09:40:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                          |          |                    |       |  |
|------------------------------------------------------------------------------------------|----------|--------------------|-------|--|
| PARAMETER                                                                                | RESULTS  | DETECTION<br>LIMIT | UNITS |  |
| Chromium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00    | ND       | 0.01               | mg/L  |  |
| Copper, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00      | ND       | 0.01               | mg/L  |  |
| Iron, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00        | ND       | 0.02               | mg/L  |  |
| Mercury, Dissolved<br>Method 7470 A***<br>Analyzed by: AG<br>Date: 08/19/98 14:13:00     | ND       | 0.0002             | mg/L  |  |
| Manganese, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00   | ND       | 0.005              | mg/L  |  |
| Dissolved Metals Prep.<br>Method 3005A ***<br>Analyzed by: GJ<br>Date: 08/06/98 20:00:00 | 08/06/98 |                    |       |  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



Certificate of Analysis No. H9-9808149-13

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

DATE: 08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-12

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 09:40:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA                                                                       |         |                    |       |
|---------------------------------------------------------------------------------------|---------|--------------------|-------|
| PARAMETER                                                                             | RESULTS | DETECTION<br>LIMIT | UNITS |
| Lead, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.05               | mg/L  |
| Selenium, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00 | ND      | 0.1                | mg/L  |
| Zinc, Dissolved<br>Method 6010B ***<br>Analyzed by: EG<br>Date: 08/19/98 09:30:00     | ND      | 0.02               | mg/L  |

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-13

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: MW-12

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 09:40:00  
DATE RECEIVED: 08/06/98

| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | ND               | 1.0           | ug/L           |                |
| Toluene              | ND               | 1.0           | ug/L           |                |
| Ethyl benzene        | ND               | 1.0           | ug/L           |                |
| Total Xylene         | ND               | 1.0           | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 30 ug/L          | 97            | 50             | 150            |
| 4-Bromofluorobenzene | 30 ug/L          | 97            | 50             | 150            |

ANALYZED BY: YN                      DATE/TIME: 08/08/98 03:19:00  
METHOD: 8021B, Volatile Organic [SW-846]  
NOTES: \* - Practical Quantitation Limit                      ND - Not Detected  
          NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Certificate of Analysis No. H9-9808149-14

Cypress Engineering, Inc.  
10235 W. Little York Rd #256  
Houston, TX 77040  
ATTN: George Robinson

08/20/98

PROJECT: TWP Bell Lake  
SITE:  
SAMPLED BY: Cypress Engineering  
SAMPLE ID: Monitor Well Purge 2/98

PROJECT NO:  
MATRIX: WATER  
DATE SAMPLED: 08/04/98 07:50:00  
DATE RECEIVED: 08/06/98

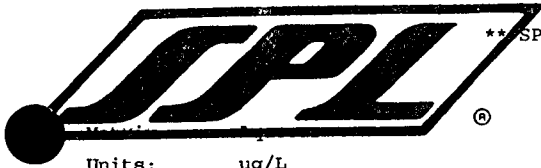
| ANALYTICAL DATA      |                  |               |                |                |
|----------------------|------------------|---------------|----------------|----------------|
| PARAMETER            | RESULTS          | PQL*          | UNITS          |                |
| Benzene              | ND               | 1.0           | ug/L           |                |
| Toluene              | ND               | 1.0           | ug/L           |                |
| Ethyl benzene        | ND               | 1.0           | ug/L           |                |
| Total Xylene         | 1.0              | 1.0           | ug/L           |                |
| SURROGATES           | AMOUNT<br>SPIKED | %<br>RECOVERY | LOWER<br>LIMIT | UPPER<br>LIMIT |
| 1,4-Difluorobenzene  | 30 ug/L          | 97            | 50             | 150            |
| 4-Bromofluorobenzene | 30 ug/L          | 110           | 50             | 150            |

ANALYZED BY: TB                      DATE/TIME: 08/10/98 07:06:00  
METHOD: 8021B, Volatile Organic [SW-846]  
NOTES:    \* - Practical Quantitation Limit                      ND - Not Detected  
          NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance  
with EPA guidelines for quality assurance.

*QUALITY CONTROL*  
*DOCUMENTATION*



\*\* SPL BATCH QUALITY CONTROL REPORT \*\*

Method 8021B \*\*\*

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

Batch Id: HP\_U980812120801

Units: ug/L

LABORATORY CONTROL SAMPLE

| S P I K E<br>C O M P O U N D S | Method<br>Blank Result<br><2> | Spike<br>Added<br><3> | Blank         | Spike         | QC Limits(**)<br>(Mandatory)<br>% Recovery Range |
|--------------------------------|-------------------------------|-----------------------|---------------|---------------|--------------------------------------------------|
|                                |                               |                       | Result<br><1> | Recovery<br>% |                                                  |
| Benzene                        | ND                            | 50                    | 59            | 118           | 50 - 150                                         |
| Toluene                        | ND                            | 50                    | 58            | 116           | 50 - 150                                         |
| Ethyl Benzene                  | ND                            | 50                    | 58            | 116           | 50 - 150                                         |
| M and P Xylene                 | ND                            | 100                   | 110           | 110           | 50 - 150                                         |
| O-Xylene                       | ND                            | 50                    | 58            | 116           | 50 - 150                                         |

MATRIX SPIKES

| S P I K E<br>C O M P O U N D S | Sample<br>Results<br><2> | Spike<br>Added<br><3> | Matrix Spike  |                 | Matrix Spike<br>Duplicate |                 | MS/MSD<br>Relative %<br>Difference | QC Limits(***)<br>(Advisory) |                |
|--------------------------------|--------------------------|-----------------------|---------------|-----------------|---------------------------|-----------------|------------------------------------|------------------------------|----------------|
|                                |                          |                       | Result<br><1> | Recovery<br><4> | Result<br><1>             | Recovery<br><5> |                                    | RPD<br>Max.                  | Recovery Range |
| BENZENE                        | 3.7                      | 20                    | 28            | 122             | 27                        | 116             | 5.04                               | 40                           | 75 - 137       |
| TOLUENE                        | ND                       | 20                    | 25            | 125             | 25                        | 125             | 0                                  | 19                           | 77 - 132       |
| ETHYL BENZENE                  | ND                       | 20                    | 24            | 120             | 23                        | 115             | 4.26                               | 36                           | 71 - 133       |
| M AND P XYLENE                 | ND                       | 40                    | 47            | 118             | 46                        | 115             | 2.58                               | 22                           | 81 - 122       |
| O XYLENE                       | ND                       | 20                    | 26            | 130 *           | 25                        | 125 *           | 3.92                               | 22                           | 81 - 122       |

\* = Values outside QC Range due to Matrix Interference (except RPD)

\* = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery =  $[( <1> - <2> ) / <3> ] \times 100$

LCS % Recovery =  $( <1> / <3> ) \times 100$

Relative Percent Difference =  $| ( <4> - <5> ) | / [ ( <4> + <5> ) \times 0.5 ] \times 100$

(\*\*) = Source: SPL Historical limits 1st Qtr. '97

(\*\*\*) = Source: SPL Historical Limits 1st Qtr. '97

Analyst: TB

Sequence Date: 08/12/98

SPL ID of sample spiked: 9808245-03A

Sample File ID: U\_H2084.TX0

Method Blank File ID:

Blank Spike File ID: U\_H2079.TX0

Matrix Spike File ID: U\_H2081.TX0

Matrix Spike Duplicate File ID: U\_H2082.TX0

SAMPLES IN BATCH(SPL ID):

9808245-02A 9808245-03A 9808245-01A 9808149-09A

9808245-05A



**\*\* SPL BATCH QUALITY CONTROL REPORT \*\***  
Method 8021B \*\*\*

**HOUSTON LABORATORY**  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Batch Id: HP\_U980809101300

Units: ug/L

LABORATORY CONTROL SAMPLE

| S P I K E<br>C O M P O U N D S | Method<br>Blank Result<br><2> | Spike<br>Added<br><3> | Blank Spike   |               | QC Limits(**)<br>(Mandatory)<br>% Recovery Range |
|--------------------------------|-------------------------------|-----------------------|---------------|---------------|--------------------------------------------------|
|                                |                               |                       | Result<br><1> | Recovery<br>% |                                                  |
| Benzene                        | ND                            | 50                    | 47            | 94.0          | 50 - 150                                         |
| Toluene                        | ND                            | 50                    | 48            | 96.0          | 50 - 150                                         |
| Ethyl Benzene                  | ND                            | 50                    | 47            | 94.0          | 50 - 150                                         |
| M and P Xylene                 | ND                            | 100                   | 93            | 93.0          | 50 - 150                                         |
| O-Xylene                       | ND                            | 50                    | 48            | 96.0          | 50 - 150                                         |

M A T R I X S P I K E S

| S P I K E<br>C O M P O U N D S | Sample<br>Results<br><2> | Spike<br>Added<br><3> | Matrix Spike  |                 | Matrix Spike<br>Duplicate |                 | MS/MSD<br>Relative %<br>Difference | QC Limits(***)<br>(Advisory) |                |
|--------------------------------|--------------------------|-----------------------|---------------|-----------------|---------------------------|-----------------|------------------------------------|------------------------------|----------------|
|                                |                          |                       | Result<br><1> | Recovery<br><4> | Result<br><1>             | Recovery<br><5> |                                    | RPD<br>Max.                  | Recovery Range |
| BENZENE                        | ND                       | 20                    | 16            | 80.0            | 20                        | 100             | 22.2                               | 40                           | 75 - 137       |
| TOLUENE                        | ND                       | 20                    | 16            | 80.0            | 21                        | 105             | 27.0 *                             | 19                           | 77 - 132       |
| ETHYL BENZENE                  | ND                       | 20                    | 16            | 80.0            | 20                        | 100             | 22.2                               | 36                           | 71 - 133       |
| M AND P XYLENE                 | ND                       | 40                    | 32            | 80.0 *          | 40                        | 100             | 22.2 *                             | 22                           | 81 - 122       |
| O-XYLENE                       | ND                       | 20                    | 16            | 80.0 *          | 21                        | 105             | 27.0 *                             | 22                           | 81 - 122       |

\* = Values outside QC Range due to Matrix Interference (except RPD)

\* = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery =  $[( <1> - <2> ) / <3> ] \times 100$

LCS % Recovery =  $( <1> / <3> ) \times 100$

Relative Percent Difference =  $| ( <4> - <5> ) / [ ( <4> + <5> ) \times 0.5 ] \times 100$

(\*\*) = Source: SPL Historical limits 1st Qtr.'97

(\*\*\*) = Source: SPL Historical Limits 1st Qtr.'97

Analyst: DN

Sequence Date: 08/09/98

SPL ID of sample spiked: 9808243-01A

Sample File ID: U\_H1251.TX0

Method Blank File ID:

Blank Spike File ID: U\_H1247.TX0

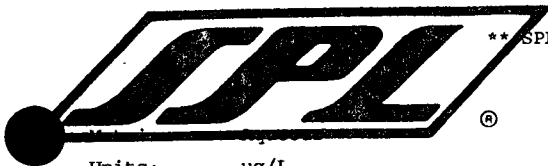
Matrix Spike File ID: U\_H1248.TX0

Matrix Spike Duplicate File ID: U\_H1249.TX0

SAMPLES IN BATCH(SPL ID):

9808243-05A 9808149-04A 9808149-05A 9808243-01A

9808243-02A 9808243-03A 9808243-04A



\*\* SPL BATCH QUALITY CONTROL REPORT \*\*

Method 8021B \*\*\*

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Batch Id: HP\_U980810075410

Units: ug/L

LABORATORY CONTROL SAMPLE

| S P I K E<br>C O M P O U N D S | Method<br>Blank Result<br><2> | Spike<br>Added<br><3> | Blank Spike   |               | QC Limits(**)<br>(Mandatory)<br>% Recovery Range |
|--------------------------------|-------------------------------|-----------------------|---------------|---------------|--------------------------------------------------|
|                                |                               |                       | Result<br><1> | Recovery<br>% |                                                  |
| Benzene                        | ND                            | 50                    | 48            | 96.0          | 50 - 150                                         |
| Toluene                        | ND                            | 50                    | 48            | 96.0          | 50 - 150                                         |
| Ethyl Benzene                  | ND                            | 50                    | 48            | 96.0          | 50 - 150                                         |
| M and P Xylene                 | ND                            | 100                   | 95            | 95.0          | 50 - 150                                         |
| O-Xylene                       | ND                            | 50                    | 49            | 98.0          | 50 - 150                                         |

MATRIX SPIKES

| S P I K E<br>C O M P O U N D S | Sample<br>Results<br><br><2> | Spike<br>Added<br><br><3> | Matrix Spike |          | Matrix Spike<br>Duplicate |          | MS/MSD<br>Relative %<br>Difference | QC Limits (***)<br>(Advisory) |                |
|--------------------------------|------------------------------|---------------------------|--------------|----------|---------------------------|----------|------------------------------------|-------------------------------|----------------|
|                                |                              |                           | Result       | Recovery | Result                    | Recovery |                                    | RPD                           | Recovery Range |
|                                |                              |                           | <1>          | <4>      | <1>                       | <5>      |                                    | Max.                          |                |
| BENZENE                        | 5.8                          | 20                        | 24           | 91.0     | 26                        | 101      | 10.4                               | 40                            | 75 - 137       |
| TOLOUENE                       | 4.7                          | 20                        | 24           | 96.5     | 22                        | 86.5     | 10.9                               | 19                            | 77 - 132       |
| ETHYL BENZENE                  | 20                           | 20                        | 32           | 60.0 *   | 32                        | 60.0 *   | 0                                  | 36                            | 71 - 133       |
| AND P XYLENE                   | 45                           | 40                        | 66           | 52.5 *   | 65                        | 50.0 *   | 4.88                               | 22                            | 81 - 122       |
| XYLENE                         | 13                           | 20                        | 28           | 75.0 *   | 27                        | 70.0 *   | 6.90                               | 22                            | 81 - 122       |

\* = Values outside QC Range due to Matrix Interference (except RPD)

< = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery =  $[( <1> - <2> ) / <3> ] \times 100$

LCS % Recovery =  $( <1> / <3> ) \times 100$

Relative Percent Difference =  $| ( <4> - <5> ) / [ ( <4> + <5> ) \times 0.5 ] \times 100$

(\*\*) = Source: SPL Historical limits 1st Qtr.'97

(\*\*\*) = Source: SPL Historical Limits 1st Qtr.'97

Analyst: TB

Sequence Date: 08/10/98

SPL ID of sample spiked: 9808247-05A

Sample File ID: U\_H2009.TX0

Method Blank File ID:

Blank Spike File ID: U\_H2004.TX0

Matrix Spike File ID: U\_H2006.TX0

Matrix Spike Duplicate File ID: U\_H2007.TX0

SAMPLES IN BATCH(SPL ID):

9808149-02A 9808149-14A 9808243-05A 9808149-12A  
9808243-06A



**\*\* SPL BATCH QUALITY CONTROL REPORT \*\***  
Method 8021B \*\*\*

**HOUSTON LABORATORY**  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Batch Id: HP\_U980808054801

Units: ug/L

**LABORATORY CONTROL SAMPLE**

| S P I K E<br>C O M P O U N D S | Method<br>Blank Result<br><2> | Spike<br>Added<br><3> | Blank Spike   |               | QC Limits(**)<br>(Mandatory)<br>% Recovery Range |
|--------------------------------|-------------------------------|-----------------------|---------------|---------------|--------------------------------------------------|
|                                |                               |                       | Result<br><1> | Recovery<br>% |                                                  |
| Benzene                        | ND                            | 50                    | 50            | 100           | 50 - 150                                         |
| Toluene                        | ND                            | 50                    | 50            | 100           | 50 - 150                                         |
| Ethyl Benzene                  | ND                            | 50                    | 50            | 100           | 50 - 150                                         |
| M and P Xylene                 | ND                            | 100                   | 98            | 98.0          | 50 - 150                                         |
| O-Xylene                       | ND                            | 50                    | 50            | 100           | 50 - 150                                         |

**MATRIX SPIKES**

| S P I K E<br>C O M P O U N D S | Sample<br>Results<br><2> | Spike<br>Added<br><3> | Matrix Spike  |                 | Matrix Spike<br>Duplicate |                 | MS/MSD<br>Relative %<br>Difference | QC Limits(***)<br>(Advisory) |                |
|--------------------------------|--------------------------|-----------------------|---------------|-----------------|---------------------------|-----------------|------------------------------------|------------------------------|----------------|
|                                |                          |                       | Result<br><1> | Recovery<br><4> | Result<br><1>             | Recovery<br><5> |                                    | RPD<br>Max.                  | Recovery Range |
| BENZENE                        | ND                       | 20.0                  | 27            | 135             | 26                        | 130             | 3.77                               | 40                           | 75 - 137       |
| TOLUENE                        | ND                       | 20.0                  | 26            | 130             | 26                        | 130             | 0                                  | 19                           | 77 - 132       |
| ETHYL BENZENE                  | ND                       | 20.0                  | 26            | 130             | 25                        | 125             | 3.92                               | 36                           | 71 - 133       |
| M AND P XYLENE                 | ND                       | 40.0                  | 50            | 125 *           | 49                        | 122             | 2.43                               | 22                           | 81 - 122       |
| O-XYLENE                       | ND                       | 20.0                  | 26            | 130 *           | 26                        | 130 *           | 0                                  | 22                           | 81 - 122       |

\* = Values outside QC Range due to Matrix Interference (except RPD)

\* = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery =  $[( <1> - <2> ) / <3> ] \times 100$

LCS % Recovery =  $( <1> / <3> ) \times 100$

Relative Percent Difference =  $[( <4> - <5> ) / (( <4> + <5> ) \times 0.5) ] \times 100$

(\*\*) = Source: SPL Historical limits 1st Qtr.'97

(\*\*\*) = Source: SPL Historical Limits 1st Qtr.'97

Analyst: YN

Sequence Date: 08/08/98

SPL ID of sample spiked: 9808149-08A

Sample File ID: U\_H1231.TX0

Method Blank File ID:

Blank Spike File ID: U\_H1243.TX0

Matrix Spike File ID: U\_H1228.TX0

Matrix Spike Duplicate File ID: U\_H1229.TX0

**SAMPLES IN BATCH(SPL ID):**

9808149-08A 9808149-03A 9808149-06A 9808149-07A  
9808149-10A 9808149-11A 9808149-13A 9808149-02A  
9808149-01A

## ICP Spectroscopy Method 6010 Quality Control Report

Analyst: EG



Matrix: DISSOLVED Units: mg/L

Date: 081998 Time: 0930 File Name: 081998M6

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

## Laboratory Control Sample

| Element   | Mth. Blank | True Value | Result | % Recovery | Lower Limit | Upper Limit |
|-----------|------------|------------|--------|------------|-------------|-------------|
| Silver    | ND         | 2.00       | 1.96   | 98         | 1.60        | 2.40        |
| Aluminum  |            |            |        |            |             |             |
| Arsenic   | ND         | 4.00       | 4.07   | 102        | 3.20        | 4.80        |
| Barium    | ND         | 2.00       | 1.85   | 92         | 1.60        | 2.40        |
| Beryllium |            |            |        |            |             |             |
| Calcium   |            |            |        |            |             |             |
| Cadmium   | ND         | 2.00       | 2.11   | 105        | 1.60        | 2.40        |
| Cobalt    |            |            |        |            |             |             |
| Chromium  | ND         | 2.00       | 2.10   | 105        | 1.60        | 2.40        |
| Copper    | ND         | 2.00       | 1.94   | 97         | 1.60        | 2.40        |
| Iron      | ND         | 2.00       | 2.09   | 105        | 1.60        | 2.40        |
| Potassium |            |            |        |            |             |             |
| Magnesium |            |            |        |            |             |             |
| Manganese | ND         | 2.00       | 2.04   | 102        | 1.60        | 2.40        |
| Sodium    |            |            |        |            |             |             |
| Nickel    |            |            |        |            |             |             |
| Lead      | ND         | 2.00       | 2.10   | 105        | 1.60        | 2.40        |
| Antimony  |            |            |        |            |             |             |
| Selenium  | ND         | 4.00       | 4.10   | 103        | 3.20        | 4.80        |
| Thallium  |            |            |        |            |             |             |
| Vanadium  |            |            |        |            |             |             |
| Zinc      | ND         | 2.00       | 2.12   | 106        | 1.60        | 2.40        |

## Work Orders in Batch

| Work Order | Fractions          |
|------------|--------------------|
| 98-08-149  | 01C-08C<br>10C-13C |

## Matrix Spike - Spike Duplicate Results

Work Order Spiked: 9808149-01C

| Element   | Sample Result | Spike Added | Matrix Spike Result | Matrix Spike Recovery | Matrix Spike Duplicate Result | Matrix Spike Duplicate Recovery | QC Limits % Recovery | Spike RPD % | QC Limits % |
|-----------|---------------|-------------|---------------------|-----------------------|-------------------------------|---------------------------------|----------------------|-------------|-------------|
| Silver    | ND            | 1.0         | 0.8186              | 81.9                  | 0.8164                        | 81.6                            | 80 120               | 0.3         | 20.0        |
| Aluminum  |               |             |                     |                       |                               |                                 |                      |             |             |
| Arsenic   | 0.0159        | 2.0         | 2.181               | 108.3                 | 2.164                         | 107.4                           | 80 120               | 0.8         | 20.0        |
| Barium    | 0.9681        | 1.0         | 1.85                | 88.2                  | 1.855                         | 88.7                            | 80 120               | 0.6         | 20.0        |
| Beryllium |               |             |                     |                       |                               |                                 |                      |             |             |
| Calcium   |               |             |                     |                       |                               |                                 |                      |             |             |
| Cadmium   | ND            | 1.0         | 1.078               | 107.8                 | 1.07                          | 107.0                           | 80 120               | 0.7         | 20.0        |
| Cobalt    |               |             |                     |                       |                               |                                 |                      |             |             |
| Chromium  | ND            | 1.0         | 1.004               | 100.4                 | 1.001                         | 100.1                           | 80 120               | 0.3         | 20.0        |
| Copper    | ND            | 1.0         | 0.9852              | 98.5                  | 0.9874                        | 98.7                            | 80 120               | 0.2         | 20.0        |
| Iron      | 0.1058        | 1.0         | 1.097               | 99.1                  | 1.094                         | 98.8                            | 80 120               | 0.3         | 20.0        |
| Potassium |               |             |                     |                       |                               |                                 |                      |             |             |
| Magnesium |               |             |                     |                       |                               |                                 |                      |             |             |
| Manganese | 4.856         | 1.0         | 5.676               | 82.0                  | 5.671                         | 81.5                            | 80 120               | 0.6         | 20.0        |
| Sodium    |               |             |                     |                       |                               |                                 |                      |             |             |
| Nickel    |               |             |                     |                       |                               |                                 |                      |             |             |
| Lead      | ND            | 1.0         | 1.045               | 104.5                 | 1.027                         | 102.7                           | 80 120               | 1.7         | 20.0        |
| Antimony  |               |             |                     |                       |                               |                                 |                      |             |             |
| Selenium  | ND            | 2.0         | 2.11                | 105.5                 | 2.141                         | 107.1                           | 80 120               | 1.5         | 20.0        |
| Thallium  |               |             |                     |                       |                               |                                 |                      |             |             |
| Vanadium  |               |             |                     |                       |                               |                                 |                      |             |             |
| Zinc      | ND            | 1.0         | 1.08                | 108.0                 | 1.079                         | 107.9                           | 80 120               | 0.1         | 20.0        |

Elements Post Spiked: ALL.

Checked: EG 8/20/98



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

\*\* SPL QUALITY CONTROL REPORT \*\*

Matrix: Aqueous

Reported on: 08/19/98

Analyzed on: 08/19/98

Analyst: AG

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Mercury, Dissolved  
Method 7470 A\*\*\*

| SPL Sample<br>ID Number | Blank<br>Value<br>ug/L | LCS<br>Concentration<br>ug/L | Measured<br>Concentration<br>ug/L | %<br>Recovery | QC Limits<br>Recovery |
|-------------------------|------------------------|------------------------------|-----------------------------------|---------------|-----------------------|
| LCS                     | ND                     | 2.00                         | 2.06                              | 103           | 80 - 120              |

-9808837

Samples in batch:

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| 9808149-01C | 9808149-02C | 9808149-03C | 9808149-04C |
| 9808149-05C | 9808149-06C | 9808149-07C | 9808149-08C |
| 9808149-10C | 9808149-11C | 9808149-12C | 9808149-13C |

COMMENTS:

LCS = SPL ID# 94-452-45-21



\*\* SPL QUALITY CONTROL REPORT \*\*

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Matrix: Aqueous

Reported on: 08/19/98

Analyzed on: 08/19/98

Analyst: AG

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Mercury, Dissolved  
Method 7470 A\*\*\*

| SPL Sample<br>ID Number | Method<br>Blank<br>ug/L | Sample<br>Result<br>ug/L | Spike<br>Added<br>ug/L | Matrix Spike   |               | Matrix Spike<br>Duplicate |               | RPD<br>(%) | QC LIMITS<br>(Advisory) |       |      |
|-------------------------|-------------------------|--------------------------|------------------------|----------------|---------------|---------------------------|---------------|------------|-------------------------|-------|------|
|                         |                         |                          |                        | Result<br>ug/L | Recovery<br>% | Result<br>ug/L            | Recovery<br>% |            | RPD<br>Max              | % REC |      |
| 9808149-01C             | ND                      | ND                       | 2.00                   | 1.65           | 82.5          | 1.58                      | 79.0          | 4.3        | 20                      | 75    | -125 |

-9808837

Samples in batch:

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| 9808149-01C | 9808149-02C | 9808149-03C | 9808149-04C |
| 9808149-05C | 9808149-06C | 9808149-07C | 9808149-08C |
| 9808149-10C | 9808149-11C | 9808149-12C | 9808149-13C |

COMMENTS:

LCS = SPL ID# 94-452-45-21



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

\*\* SPL QUALITY CONTROL REPORT \*\*

Matrix: Aqueous

Reported on: 08/18/98

Analyzed on: 08/17/98

Analyst: AB

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Chloride  
Method 325.3 \*

| SPL Sample<br>ID Number | Blank<br>Value<br>mg/L | LCS<br>Concentration<br>mg/L | Measured<br>Concentration<br>mg/L | %<br>Recovery | QC Limits<br>Recovery |
|-------------------------|------------------------|------------------------------|-----------------------------------|---------------|-----------------------|
| LCS                     | ND                     | 186                          | 177                               | 95.2          | 94 - 106              |

-9808904

Samples in batch:

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| 9808102-01E | 9808111-01F | 9808149-01B | 9808149-02B |
| 9808149-03B | 9808149-04B | 9808149-05B | 9808149-06B |
| 9808149-07B | 9808149-08B | 9808149-10B | 9808149-11B |
| 9808149-12B | 9808149-13B | 9808220-02K | 9808360-01F |
| 9808360-02F | 9808552-01A |             |             |

COMMENTS:

SPL LCS# 94453209-13



**\*\* SPL QUALITY CONTROL REPORT \*\***

**HOUSTON LABORATORY**  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Matrix: Aqueous

Reported on: 08/18/98  
Analyzed on: 08/17/98  
Analyst: AB

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Chloride  
Method 325.3 \*

| SPL Sample  | Method     | Sample      | Spike      | Matrix Spike |            | Matrix Spike Duplicate |            | RPD | QC LIMITS (Advisory) |         |
|-------------|------------|-------------|------------|--------------|------------|------------------------|------------|-----|----------------------|---------|
| ID Number   | Blank mg/L | Result mg/L | Added mg/L | Result mg/L  | Recovery % | Result mg/L            | Recovery % | (%) | RPD Max              | % REC   |
| 9808552-01A | ND         | 72.67       | 100.0      | 170.16       | 97.5       | 170.16                 | 97.5       | 0   | 5                    | 92 -109 |

-9808785

**Samples in batch:**

9808102-01E    9808111-01F    9808149-01B    9808149-02B  
9808149-03B    9808149-04B    9808149-05B    9808552-01A  
9808657-01A

**COMMENTS:**



**\*\* SPL QUALITY CONTROL REPORT \*\***

**HOUSTON LABORATORY**

8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

Matrix: Aqueous

Reported on: 08/18/98

Analyzed on: 08/17/98

Analyst: AB

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Chloride  
Method 325.3 \*

| SPL Sample  | Method     | Sample      | Spike      | Matrix Spike |            | Matrix Spike Duplicate |            | RPD | QC LIMITS (Advisory) |       |      |
|-------------|------------|-------------|------------|--------------|------------|------------------------|------------|-----|----------------------|-------|------|
| ID Number   | Blank mg/L | Result mg/L | Added mg/L | Result mg/L  | Recovery % | Result mg/L            | Recovery % | (%) | RPD Max              | % REC |      |
| 9808149-06B | ND         | 99.26       | 100        | 194.97       | 95.7       | 198.52                 | 99.3       | 3.7 | 5                    | 92    | -109 |

-9808791

Samples in batch:

9808149-06B    9808149-07B    9808149-08B    9808149-10B  
9808149-11B    9808149-12B    9808149-13B    9808220-02K

COMMENTS:



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

\*\* SPL QUALITY CONTROL REPORT \*\*

Matrix: Aqueous

Reported on: 08/10/98  
Analyzed on: 08/07/98  
Analyst: KS

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Total Dissolved Solids  
Method 160.1 \*

| SPL Sample<br>ID Number | Blank<br>Value<br>mg/L | LCS<br>Concentration<br>mg/L | Measured<br>Concentration<br>mg/L | %<br>Recovery | QC Limits<br>Recovery |
|-------------------------|------------------------|------------------------------|-----------------------------------|---------------|-----------------------|
| LCS                     | ND                     | 283.9                        | 281.0                             | 99.0          | 93 - 107              |

-9808365

Samples in batch:

9808149-01B    9808149-02B    9808149-10B    9808149-11B  
9808149-12B    9808149-13B

COMMENTS:

LCS= SPL ID# 95535210-19



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

\*\* SPL QUALITY CONTROL REPORT \*\*

Matrix: Aqueous

Reported on: 08/10/98

Analyzed on: 08/07/98

Analyst: KS

This sample was randomly selected for use in the SPL quality control program. The results are as follows:

Total Dissolved Solids  
Method 160.1 \*

-- DUPLICATE ANALYSIS --

| SPL Sample ID | Original Sample<br>Concentration<br>mg/L | Duplicate<br>Sample<br>mg/L | RPD | RPD<br>Max. |
|---------------|------------------------------------------|-----------------------------|-----|-------------|
| 9808149-13B   | 344                                      | 343                         | 0.3 | 5           |

--9808364

Samples in batch:

9808149-01B    9808149-02B    9808149-10B    9808149-11B  
9808149-12B    9808149-13B

COMMENTS:



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

\*\* SPL QUALITY CONTROL REPORT \*\*

Matrix: Aqueous

Reported on: 08/14/98

Analyzed on: 08/10/98

Analyst: DS

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Total Dissolved Solids  
Method 160.1 \*

| SPL Sample ID Number | Blank Value mg/L | LCS Concentration mg/L | Measured Concentration mg/L | % Recovery | QC Limits Recovery |
|----------------------|------------------|------------------------|-----------------------------|------------|--------------------|
| LCS                  | ND               | 455.9                  | 453.0                       | 99.4       | 93 - 107           |

-9808610

Samples in batch:

9808149-03B      9808149-04B      9808149-05B

COMMENTS:

LCS=SPL ID 95535216-17.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

\*\* SPL QUALITY CONTROL REPORT \*\*

Matrix: Aqueous

Reported on: 08/14/98

Analyzed on: 08/10/98

Analyst: DS

This sample was randomly selected for use in the SPL quality control program. The results are as follows:

Total Dissolved Solids  
Method 160.1 \*

-- DUPLICATE ANALYSIS --

| SPL Sample ID | Original Sample<br>Concentration<br>mg/L | Duplicate<br>Sample<br>mg/L | RPD | RPD<br>Max. |
|---------------|------------------------------------------|-----------------------------|-----|-------------|
| 9808149-01B   | 3460                                     | 3460                        | 0   | 5           |

-9808609

Samples in batch:

9808149-03B      9808149-04B      9808149-05B

COMMENTS:

9808149-01B WAS USED FOR QC PURPOSES ONLY.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

\*\* SPL QUALITY CONTROL REPORT \*\*

Matrix: Aqueous

Reported on: 08/14/98

Analyzed on: 08/11/98

Analyst: DS

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Total Dissolved Solids  
Method 160.1 \*

| SPL Sample<br>ID Number | Blank<br>Value<br>mg/L | LCS<br>Concentration<br>mg/L | Measured<br>Concentration<br>mg/L | %<br>Recovery | QC Limits<br>Recovery |
|-------------------------|------------------------|------------------------------|-----------------------------------|---------------|-----------------------|
| LCS                     | ND                     | 455.9                        | 454.0                             | 99.6          | 93 - 107              |

-9808613

Samples in batch:

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| 9808149-06B | 9808149-07B | 9808149-08B | 9808220-01D |
| 9808220-02H | 9808220-03G | 9808220-04G | 9808362-01E |
| 9808363-01E | 9808367-01D | 9808410-01A | 9808410-02A |
| 9808410-05A |             |             |             |

COMMENTS:

LCS=SPL ID#95535216-17.



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TEXAS 77054  
PHONE (713) 660-0901

\*\* SPL QUALITY CONTROL REPORT \*\*

Matrix: Aqueous

Reported on: 08/14/98

Analyzed on: 08/11/98

Analyst: DS

This sample was randomly selected for use in the SPL quality control program. The results are as follows:

Total Dissolved Solids  
Method 160.1 \*

-- DUPLICATE ANALYSIS --

| SPL Sample ID | Original Sample<br>Concentration<br>mg/L | Duplicate<br>Sample<br>mg/L | RPD | RPD<br>Max. |
|---------------|------------------------------------------|-----------------------------|-----|-------------|
| 9808149-03B   | 7700                                     | 7790                        | 1.2 | 5           |

-9808612

Samples in batch:

9808149-06B      9808149-07B      9808149-08B      9808220-01D  
9808220-02H      9808220-03G

COMMENTS:

9808149-03B IS USED FOR QC PURPOSES ONLY.

*CHAIN OF CUSTODY*  
*AND*  
*SAMPLE RECEIPT CHECKLIST*



SPL, Inc.

SPL Workorder No:

9808149

47523

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## Analysis Request &amp; Chain of Custody Record

|                                                                                             |        |                                                 |      |                                                                                                         |                                   |                                                           |                                                 |                                     |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
|---------------------------------------------------------------------------------------------|--------|-------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------|-------------------------------------------------|-------------------------------------|--------------------|----------------------|---------------------------------|-----------------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------------|--|--|--|--|
| Client Name: <u>CYPRESS ENGINEERING</u>                                                     |        |                                                 |      | matrix<br>W=water<br>SL=sludge<br>P=plastic<br>G=glass<br>S=soil<br>O=other:<br>A=amber glass<br>V=vial | bottle<br>A=amber glass<br>V=vial | size<br>1=1 liter<br>8=8oz<br>4=4oz<br>16=16oz<br>40=vial | pres.<br>1=HCl<br>2=HNO3<br>3=H2SO4<br>O=other: | Number of Containers                | Requested Analysis |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| Address/Phone: <u>10235 WEST LITTLE YORK SUITE 256<br/>HOUSTON, TX 77040 (713) 856-7980</u> |        |                                                 |      |                                                                                                         |                                   |                                                           |                                                 |                                     | 8021 BTEX ONLY     | TDS, CHLORIDE        | DISSOLVED METALS<br>(7470/6010) | As, Ba, Cd, Cr, Pb, Hg<br>Se, Ag, Cu, Fe, Mn, Zn<br>* FILTER METALS BE FORE<br>Adding PRESERVATIVES |  |  |                                                                                             |  |  |  |  |
| Client Contact: <u>SANDY SHARP (713) 646-7252</u>                                           |        |                                                 |      |                                                                                                         |                                   |                                                           |                                                 |                                     |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| Project Name: <u>TWP BELL LAKE</u>                                                          |        |                                                 |      |                                                                                                         |                                   |                                                           |                                                 |                                     |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| Project Number:                                                                             |        |                                                 |      |                                                                                                         |                                   |                                                           |                                                 |                                     |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| Project Location:                                                                           |        |                                                 |      |                                                                                                         |                                   |                                                           |                                                 |                                     |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| Invoice To: <u>GEORGE ROBINSON</u>                                                          |        |                                                 |      |                                                                                                         |                                   |                                                           |                                                 |                                     |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| SAMPLE ID                                                                                   | DATE   | TIME                                            | comp | grab                                                                                                    |                                   |                                                           |                                                 |                                     |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| MW-7                                                                                        | 8/4/98 | 1030                                            |      | X                                                                                                       | W                                 | G                                                         | 40                                              | 1                                   | 3                  | X                    |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| MW-7                                                                                        |        | 1030                                            |      | X                                                                                                       | W                                 | P                                                         | 1                                               | 0                                   | 2                  |                      | X                               | X                                                                                                   |  |  |                                                                                             |  |  |  |  |
| MW-6                                                                                        |        | 1135                                            |      | X                                                                                                       | W                                 | G                                                         | 40                                              | 1                                   | 3                  | X                    |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| MW-6                                                                                        |        | 1135                                            |      | X                                                                                                       | W                                 | P                                                         | 1                                               | 0                                   | 2                  | X                    | X                               | X                                                                                                   |  |  |                                                                                             |  |  |  |  |
| MW-10                                                                                       |        | <del>1240</del>                                 |      | X                                                                                                       | W                                 | G                                                         | 40                                              | 1                                   | 3                  | X                    |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| MW-10                                                                                       |        | <del>1240</del>                                 |      | X                                                                                                       | W                                 | P                                                         | 1                                               | 0                                   | 2                  |                      | X                               | X                                                                                                   |  |  |                                                                                             |  |  |  |  |
| MW-5                                                                                        |        | 1410                                            |      | X                                                                                                       | W                                 | G                                                         | 40                                              | 1                                   | 3                  | X                    |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| MW-5                                                                                        |        | 1410                                            |      | X                                                                                                       | W                                 | P                                                         | 1                                               | 0                                   | 2                  |                      | X                               | X                                                                                                   |  |  |                                                                                             |  |  |  |  |
|                                                                                             |        |                                                 |      |                                                                                                         |                                   |                                                           |                                                 |                                     |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
|                                                                                             |        |                                                 |      |                                                                                                         |                                   |                                                           |                                                 |                                     |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| Client/Consultant Remarks:                                                                  |        |                                                 |      |                                                                                                         | Laboratory remarks:               |                                                           |                                                 |                                     |                    |                      |                                 |                                                                                                     |  |  | Intact? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N<br>Temp: <u>4C</u> |  |  |  |  |
| Requested TAT                                                                               |        | Special Reporting Requirements                  |      | Fax Results                                                                                             |                                   | <input checked="" type="checkbox"/> Raw Data              |                                                 | Special Detection Limits (specify): |                    | PM review (initial): |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| 24hr <input type="checkbox"/> 72hr <input type="checkbox"/>                                 |        | Standard QC <input checked="" type="checkbox"/> |      | Level 3 QC <input type="checkbox"/>                                                                     |                                   | Level 4 QC <input type="checkbox"/>                       |                                                 |                                     |                    | <u>EB 8/8</u>        |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| 48hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>                  |        | 1. Relinquished by Sampler:                     |      | date                                                                                                    |                                   | time                                                      |                                                 | 2. Received by:                     |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
| Other <input type="checkbox"/>                                                              |        | 3. Relinquished by:                             |      | date                                                                                                    |                                   | time                                                      |                                                 | 4. Received by:                     |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |
|                                                                                             |        | 5. Relinquished by:                             |      | date                                                                                                    |                                   | time                                                      |                                                 | 6. Received by Laboratory:          |                    |                      |                                 |                                                                                                     |  |  |                                                                                             |  |  |  |  |

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SPL, Inc.

## Analysis Request &amp; Chain of Custody Record

SPL Workorder No:

9808149

7514

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|                                                                                                    |        |      |      |      |                              |                    |                         |                                          |                                          |                                  |                      |                |                                 |                                                                                              |                                                                                              |  |  |  |
|----------------------------------------------------------------------------------------------------|--------|------|------|------|------------------------------|--------------------|-------------------------|------------------------------------------|------------------------------------------|----------------------------------|----------------------|----------------|---------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--|--|--|
| Client Name: <u>CYPRESS ENGINEERING</u>                                                            |        |      |      |      | matrix                       |                    | bottle                  | size                                     | pres.                                    | Requested Analysis               |                      |                |                                 |                                                                                              |                                                                                              |  |  |  |
| Address/Phone: <u>10235 WEST LITTLE YORK, SUITE 250</u><br><u>HOUSTON, TX 77040 (713) 856-7980</u> |        |      |      |      | S=soil<br>SL=sludge O=other: |                    | A=amber glass<br>V=vial | 1=1 liter 4=4oz 40=vial<br>8=8oz 16=16oz | 1=HCl 2=HNO3<br>3=H2SO4 O=other:         | Number of Containers             | 8021 BTEX only       | TDS, CHLORIDE  | DISSOLVED METALS<br>(1470/6010) | As, Ba, Cd, Cr, Pb, Hg,<br>Se, Ag, Cu, Fe, Mn, Zn<br>* FILTER BEFORE<br>ADDING PRESERVATIVES |                                                                                              |  |  |  |
| Client Contact: <u>SANDY SHARP (713) 646-7252</u>                                                  |        |      |      |      | P=plastic<br>G=glass         |                    |                         |                                          |                                          |                                  |                      |                |                                 |                                                                                              |                                                                                              |  |  |  |
| Project Name: <u>TWP BELL LAKE</u>                                                                 |        |      |      |      |                              |                    |                         |                                          |                                          |                                  |                      |                |                                 |                                                                                              |                                                                                              |  |  |  |
| Project Number:                                                                                    |        |      |      |      |                              |                    |                         |                                          |                                          |                                  |                      |                |                                 |                                                                                              |                                                                                              |  |  |  |
| Project Location:                                                                                  |        |      |      |      |                              |                    |                         |                                          |                                          |                                  |                      |                |                                 |                                                                                              |                                                                                              |  |  |  |
| Invoice To: <u>GEORGE ROBINSON</u>                                                                 |        |      |      |      |                              |                    |                         |                                          |                                          |                                  |                      |                |                                 |                                                                                              |                                                                                              |  |  |  |
| SAMPLE ID                                                                                          | DATE   | TIME | comp | grab | W=water<br>SL=sludge         | S=soil<br>O=other: | P=plastic<br>G=glass    | A=amber glass<br>V=vial                  | 1=1 liter 4=4oz 40=vial<br>8=8oz 16=16oz | 1=HCl 2=HNO3<br>3=H2SO4 O=other: | Number of Containers | 8021 BTEX only | TDS, CHLORIDE                   | DISSOLVED METALS<br>(1470/6010)                                                              | As, Ba, Cd, Cr, Pb, Hg,<br>Se, Ag, Cu, Fe, Mn, Zn<br>* FILTER BEFORE<br>ADDING PRESERVATIVES |  |  |  |
| MW-8                                                                                               | 8/4/98 | 1505 |      | X    | W                            |                    | G                       |                                          | 40                                       | 1                                | 3                    | X              |                                 |                                                                                              |                                                                                              |  |  |  |
| MW-8                                                                                               |        | 1505 |      | X    | W                            |                    | P                       |                                          | 1                                        | 0                                | 2                    |                | X                               | X                                                                                            |                                                                                              |  |  |  |
| MW-9                                                                                               |        | 1620 |      | X    | W                            |                    | G                       |                                          | 40                                       | 1                                | 3                    | X              |                                 |                                                                                              |                                                                                              |  |  |  |
| MW-9                                                                                               |        | 1620 |      | X    | W                            |                    | P                       |                                          | 1                                        | 0                                | 2                    |                | X                               | X                                                                                            |                                                                                              |  |  |  |
| MW-11                                                                                              |        | 1720 |      | X    | W                            |                    | G                       |                                          | 40                                       | 1                                | 3                    | X              |                                 |                                                                                              |                                                                                              |  |  |  |
| MW-11                                                                                              |        | 1720 |      | X    | W                            |                    | P                       |                                          | 1                                        | 0                                | 2                    |                | X                               | X                                                                                            |                                                                                              |  |  |  |
| WATER WELL                                                                                         |        | 1810 |      | X    | W                            |                    | G                       |                                          | 40                                       | 1                                | 3                    | X              |                                 |                                                                                              |                                                                                              |  |  |  |
| WATER WELL                                                                                         |        | 1810 |      | X    | W                            |                    | P                       |                                          | 1                                        | 0                                | 2                    |                | X                               | X                                                                                            |                                                                                              |  |  |  |
| MONITOR WELL PURGE/<br>DEVELOPMENT H <sub>2</sub> O 1/9/98                                         |        | 1810 |      | X    | W                            |                    | G                       |                                          | 40                                       | 1                                | 3                    | X              |                                 |                                                                                              |                                                                                              |  |  |  |

RUSH

|                                                                            |  |  |  |                                                 |  |  |  |                                                 |  |                                                                          |  |                                                  |  |                      |  |
|----------------------------------------------------------------------------|--|--|--|-------------------------------------------------|--|--|--|-------------------------------------------------|--|--------------------------------------------------------------------------|--|--------------------------------------------------|--|----------------------|--|
| Client/Consultant Remarks:                                                 |  |  |  | Laboratory remarks:                             |  |  |  | MPS 950 1575 1663                               |  | Intact? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |  |                                                  |  |                      |  |
| Requested TAT                                                              |  |  |  | Special Reporting Requirements                  |  |  |  | Fax Results <input checked="" type="checkbox"/> |  | Raw Data <input type="checkbox"/>                                        |  | Special Detection Limits (specify):              |  | PM review (initial): |  |
| 24hr <input type="checkbox"/> 72hr <input type="checkbox"/>                |  |  |  | Standard QC <input checked="" type="checkbox"/> |  |  |  | Level 3 QC <input type="checkbox"/>             |  | Level 4 QC <input type="checkbox"/>                                      |  |                                                  |  | EB 8/8               |  |
| 48hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/> |  |  |  | 1. Relinquished by Sample: <u>Sandy Sharp</u>   |  |  |  | date <u>8/5/98</u>                              |  | time <u>0700</u>                                                         |  | 2. Received by:                                  |  |                      |  |
| Other <input type="checkbox"/>                                             |  |  |  | 3. Relinquished by:                             |  |  |  | date                                            |  | time                                                                     |  | 4. Received by:                                  |  |                      |  |
|                                                                            |  |  |  | 5. Relinquished by:                             |  |  |  | date                                            |  | time                                                                     |  | 6. Received by Laboratory: <u>John A. 8/6/98</u> |  | 1000                 |  |

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SPL, Inc.

## Analysis Request &amp; Chain of Custody Record

SPL Workorder No:

9808149

47513

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| Client Name: <u>CYPRESS ENGINEERING</u>                                |        |      |      |      | matrix<br>W=water<br>SL=sludge<br>O=other: | bottle<br>A=amber glass<br>V=vial<br>P=plastic<br>G=glass | size<br>1=1 liter<br>8=8oz<br>4=4oz<br>16=16oz | pres.<br>1=HCl<br>2=HNO3<br>3=H2SO4<br>O=other: | Number of Containers | Requested Analysis |               |                                                      |                                                                                          |  |  |  |  |
|------------------------------------------------------------------------|--------|------|------|------|--------------------------------------------|-----------------------------------------------------------|------------------------------------------------|-------------------------------------------------|----------------------|--------------------|---------------|------------------------------------------------------|------------------------------------------------------------------------------------------|--|--|--|--|
| Address/Phone: <u>10235 WEST LITTLE ROCK, SUITE 250 (713) 850-7980</u> |        |      |      |      |                                            |                                                           |                                                |                                                 |                      | 8021 BTEX ONLY     | TDS, CHLORIDE | METALS (Pb, Cd, Cr, Ni, Cu, Fe, Mn, Zn)<br>DISSOLVED | As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Cu, Fe, Mn, Zn<br>FILTER BEFORE YOU<br>Add PRESERVATIVES |  |  |  |  |
| Client Contact: <u>SANDY SHARP (713) 646-7252</u>                      |        |      |      |      |                                            |                                                           |                                                |                                                 |                      |                    |               |                                                      |                                                                                          |  |  |  |  |
| Project Name: <u>TWP BELL LAKE</u>                                     |        |      |      |      |                                            |                                                           |                                                |                                                 |                      |                    |               |                                                      |                                                                                          |  |  |  |  |
| Project Number:                                                        |        |      |      |      |                                            |                                                           |                                                |                                                 |                      |                    |               |                                                      |                                                                                          |  |  |  |  |
| Project Location:                                                      |        |      |      |      |                                            |                                                           |                                                |                                                 |                      |                    |               |                                                      |                                                                                          |  |  |  |  |
| Invoice To: <u>GEORGE ROBINSON</u>                                     |        |      |      |      |                                            |                                                           |                                                |                                                 |                      |                    |               |                                                      |                                                                                          |  |  |  |  |
| SAMPLE ID                                                              | DATE   | TIME | comp | grab |                                            |                                                           |                                                |                                                 |                      |                    |               |                                                      |                                                                                          |  |  |  |  |
| MW-3                                                                   | 8/3/98 | 1515 |      | X    | W                                          | G                                                         | 40                                             | 1                                               | 3                    | X                  |               |                                                      |                                                                                          |  |  |  |  |
| MW-3                                                                   | 8/3/98 | 1515 |      | X    | W                                          | P                                                         | 1                                              | 0                                               | 2                    |                    | X             | X                                                    |                                                                                          |  |  |  |  |
| MW-2                                                                   | 8/3/98 | 1625 |      | X    | W                                          | G                                                         | 40                                             | 1                                               | 3                    | X                  |               |                                                      |                                                                                          |  |  |  |  |
| MW-2                                                                   | 8/3/98 | 1625 |      | X    | W                                          | P                                                         | 1                                              | 0                                               | 2                    |                    | X             | X                                                    |                                                                                          |  |  |  |  |
| MW-1                                                                   | 8/3/98 | 1740 |      | X    | W                                          | G                                                         | 40                                             | 1                                               | 3                    | X                  |               |                                                      |                                                                                          |  |  |  |  |
| MW-1                                                                   | 8/3/98 | 1740 |      | X    | W                                          | P                                                         | 1                                              | 0                                               | 2                    |                    | X             | X                                                    |                                                                                          |  |  |  |  |
| MW-12                                                                  | 8/4/98 | 0940 |      | X    | W                                          | G                                                         | 40                                             | 1                                               | 3                    | X                  |               |                                                      |                                                                                          |  |  |  |  |
| MW-12                                                                  | 8/4/98 | 0940 |      | X    | W                                          | P                                                         | 1                                              | 0                                               | 2                    |                    | X             |                                                      |                                                                                          |  |  |  |  |
| MONITOR Well Purge H <sub>2</sub> O 2/98                               | 8/4/98 | 0750 |      | X    | W                                          | G                                                         | 40                                             | 1                                               | 3                    | X                  |               |                                                      |                                                                                          |  |  |  |  |

**RUSH**

|                                                                            |  |                                                 |  |                                                 |  |                                     |  |                                                               |  |
|----------------------------------------------------------------------------|--|-------------------------------------------------|--|-------------------------------------------------|--|-------------------------------------|--|---------------------------------------------------------------|--|
| Client/Consultant Remarks:                                                 |  |                                                 |  | Laboratory remarks:                             |  |                                     |  | Intact? <input type="checkbox"/> Y <input type="checkbox"/> N |  |
|                                                                            |  |                                                 |  | MPS 950 1979 672                                |  |                                     |  | Temp:                                                         |  |
| Requested TAT                                                              |  | Special Reporting Requirements                  |  | Fax Results <input checked="" type="checkbox"/> |  | Raw Data <input type="checkbox"/>   |  | Special Detection Limits (specify):                           |  |
| 24hr <input type="checkbox"/> 72hr <input type="checkbox"/>                |  | Standard QC <input checked="" type="checkbox"/> |  | Level 3 QC <input type="checkbox"/>             |  | Level 4 QC <input type="checkbox"/> |  | PM review (initial):                                          |  |
| 48hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/> |  | 1. Relinquished by Sampler <u>Sandy Sharp</u>   |  | date <u>8/5/98</u>                              |  | time <u>0700</u>                    |  | 2. Received by:                                               |  |
| Other <input type="checkbox"/>                                             |  | 3. Relinquished by:                             |  | date                                            |  | time                                |  | 4. Received by:                                               |  |
|                                                                            |  | 5. Relinquished by:                             |  | date                                            |  | time                                |  | 6. Received by Laboratory: <u>Andrew St...</u> 8/6/98         |  |

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# SPL Houston Environmental Laboratory

## Sample Login Checklist

|               |            |
|---------------|------------|
| Date: 8/6/98. | Time: 1000 |
|---------------|------------|

|                           |
|---------------------------|
| SPL Sample ID:<br>9808149 |
|---------------------------|

|    |                                                      | Yes                        | No          |
|----|------------------------------------------------------|----------------------------|-------------|
| 1  | Chain-of-Custody (COC) form is present.              | ✓                          |             |
| 2  | COC is properly completed.                           | ✓                          |             |
| 3  | If no, Non-Conformance Worksheet has been completed. |                            |             |
| 4  | Custody seals are present on the shipping container. | ✓                          |             |
| 5  | If yes, custody seals are intact.                    | ✓                          |             |
| 6  | All samples are tagged or labeled.                   | ✓                          |             |
| 7  | If no, Non-Conformance Worksheet has been completed. |                            |             |
| 8  | Sample containers arrived intact                     | ✓                          |             |
| 9  | Temperature of samples upon arrival:                 |                            | 4c          |
| 10 | Method of sample delivery to SPL:                    | SPL Delivery               |             |
|    |                                                      | Client Delivery            |             |
|    |                                                      | FedEx Delivery (airbill #) | 80694903620 |
|    |                                                      | Other:                     |             |
| 11 | Method of sample disposal:                           | SPL Disposal               | ✓           |
|    |                                                      | HOLD                       |             |
|    |                                                      | Return to Client           |             |

|                    |              |
|--------------------|--------------|
| Name: Andrew Stahl | Date: 8/6/98 |
|--------------------|--------------|



L10036

February 26, 1999

George Robinson  
Enron Gas Pipeline Group  
333 Clay St., Room 3142  
P.O. Box 1188  
Houston, TX 77002

Phone: (713) 646-7327

FAX: (713) 646-7867

Re: Laboratory Sample Analysis

Project: Bell Lake  
Transwestern Pipeline

Project Manager: George Robinson

Dear George Robinson:

On Saturday, February 13, 1999, OAL received thirteen (13) water samples for analysis. The samples were analyzed utilizing EPA, ASTM, or equivalent methodology.

Should you have any questions concerning the results in this report, please contact us at (503) 590-5300. Refer to OAL login number L10036.

Sincerely,

*Kami Morrow*  
for

Kami Morrow  
Project Manager

*Deborah L. McBrean-Mckenzie*  
for

Suzanne LeMay  
QA/QC Officer

**OREGON ANALYTICAL LABORATORY**

A Division of Portland General Electric  
14855 S.W. Scholls Ferry Road, Beaverton, OR 97007  
Phone 503-590-5300 • Fax 503-590-1404  
www.oalab.com/oal • Toll-Free 1-800-644-0967

## Sample Summary

| <u>Sample ID</u>     | <u>Lab #</u> | <u>Description</u> | <u>Sampled</u> | <u>Received</u> |
|----------------------|--------------|--------------------|----------------|-----------------|
| LOCKRIDGE LARGE ASTL | L10036-1     | water              | 02/09/99 12:30 | 02/13/99        |
| MW-10                | L10036-2     | water              | 02/11/99 09:30 | 02/13/99        |
| MW-6                 | L10036-3     | water              | 02/10/99 18:15 | 02/13/99        |
| MW-2                 | L10036-4     | water              | 02/10/99 15:00 | 02/13/99        |
| MW-12                | L10036-5     | water              | 02/10/99 17:15 | 02/13/99        |
| MW-1                 | L10036-6     | water              | 02/10/99 15:50 | 02/13/99        |
| TRIP BLANK           | L10036-7     | water              | 02/11/99       | 02/13/99        |
| MW-11                | L10036-8     | water              | 02/11/99 14:30 | 02/13/99        |
| MW-13                | L10036-9     | water              | 02/11/99 08:30 | 02/13/99        |
| MW-9                 | L10036-10    | water              | 02/11/99 13:15 | 02/13/99        |
| MW-8                 | L10036-11    | water              | 02/11/99 12:10 | 02/13/99        |
| MW-5                 | L10036-12    | water              | 02/11/99 10:30 | 02/13/99        |
| WATER WELL           | L10036-13    | water              | 02/11/99 15:20 | 02/13/99        |

## Definition of Terms

|           |                                                  |
|-----------|--------------------------------------------------|
| <b>D</b>  | Reported value is based on a dilution.           |
| <b>MI</b> | Matrix interference.                             |
| <b>ND</b> | Analytical result was below the reporting limit. |
| <b>P</b>  | Sample was unpreserved.                          |

## Analysts

| <u>Initials</u> | <u>Analyst</u> | <u>Title</u> |
|-----------------|----------------|--------------|
| CAC             | Cindy Covey    | Technician   |
| WB              | Wayne Boyle    | Analyst      |
| ZB              | Zachary Brooks | Technician   |

## Method Summary

| <u>Analysis</u>               | <u>Method</u>        |
|-------------------------------|----------------------|
| BTEX                          | EPA 8021             |
| Chloride                      | EPA 300.0            |
| Solids, Total Dissolved (TDS) | EPA 160.1 / SM 2540C |

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

## Inorganics

| Sample ID | Matrix | Result | Reporting Limit | Units (ppm) | Date Analyzed | Method | Lab Number | Comment | Analyst |
|-----------|--------|--------|-----------------|-------------|---------------|--------|------------|---------|---------|
| Analyte   |        |        |                 |             |               |        |            |         |         |

|                               |       |       |     |      |          |                      |                   |   |          |
|-------------------------------|-------|-------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-10                         | Water |       |     |      |          |                      | Sampled: 02/11/99 |   | L10036-2 |
| Chloride                      |       | 2,900 | 50. | mg/L | 02/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 5,710 | 10. | mg/L | 02/16/99 | EPA 160.1 / SM 2540C |                   |   | ZB       |

|                               |       |       |     |      |          |                      |                   |   |          |
|-------------------------------|-------|-------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-6                          | Water |       |     |      |          |                      | Sampled: 02/10/99 |   | L10036-3 |
| Chloride                      |       | 2,500 | 10. | mg/L | 02/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 5,050 | 10. | mg/L | 02/16/99 | EPA 160.1 / SM 2540C |                   |   | ZB       |

|                               |       |       |     |      |          |                      |                   |   |          |
|-------------------------------|-------|-------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-2                          | Water |       |     |      |          |                      | Sampled: 02/10/99 |   | L10036-4 |
| Chloride                      |       | 1,300 | 10. | mg/L | 02/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 2,830 | 10. | mg/L | 02/16/99 | EPA 160.1 / SM 2540C |                   |   | ZB       |

|                               |       |      |     |      |          |                      |                   |   |          |
|-------------------------------|-------|------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-12                         | Water |      |     |      |          |                      | Sampled: 02/10/99 |   | L10036-5 |
| Chloride                      |       | 93.  | 1.0 | mg/L | 02/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 390. | 10. | mg/L | 02/16/99 | EPA 160.1 / SM 2540C |                   |   | ZB       |

|                               |       |       |     |      |          |                      |                   |   |          |
|-------------------------------|-------|-------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-1                          | Water |       |     |      |          |                      | Sampled: 02/10/99 |   | L10036-6 |
| Chloride                      |       | 2,100 | 10. | mg/L | 02/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 5,250 | 10. | mg/L | 02/16/99 | EPA 160.1 / SM 2540C |                   |   | ZB       |

|                               |       |       |     |      |          |                      |                   |   |          |
|-------------------------------|-------|-------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-11                         | Water |       |     |      |          |                      | Sampled: 02/11/99 |   | L10036-8 |
| Chloride                      |       | 4,600 | 50. | mg/L | 02/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 9,620 | 10. | mg/L | 02/16/99 | EPA 160.1 / SM 2540C |                   |   | ZB       |

|                               |       |        |     |      |          |                      |                   |   |          |
|-------------------------------|-------|--------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-13                         | Water |        |     |      |          |                      | Sampled: 02/11/99 |   | L10036-9 |
| Chloride                      |       | 3,400  | 50. | mg/L | 02/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 10,500 | 10. | mg/L | 02/16/99 | EPA 160.1 / SM 2540C |                   |   | ZB       |

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

## Inorganics

| Sample ID | Matrix | Lab Number      |             |               |        |         |         |
|-----------|--------|-----------------|-------------|---------------|--------|---------|---------|
| Analyte   | Result | Reporting Limit | Units (ppm) | Date Analyzed | Method | Comment | Analyst |

|                               |        |                   |      |          |                      |           |     |
|-------------------------------|--------|-------------------|------|----------|----------------------|-----------|-----|
| MW-9                          | Water  | Sampled: 02/11/99 |      |          |                      | L10036-10 |     |
| Chloride                      | 4,600  | 50.               | mg/L | 02/19/99 | EPA 300.0            | D         | CAC |
| Solids, Total Dissolved (TDS) | 10,700 | 10.               | mg/L | 02/16/99 | EPA 160.1 / SM 2540C |           | ZB  |

|                               |       |                   |      |          |                      |           |     |
|-------------------------------|-------|-------------------|------|----------|----------------------|-----------|-----|
| MW-8                          | Water | Sampled: 02/11/99 |      |          |                      | L10036-11 |     |
| Chloride                      | 1,000 | 10.               | mg/L | 02/19/99 | EPA 300.0            | D         | CAC |
| Solids, Total Dissolved (TDS) | 3,670 | 10.               | mg/L | 02/16/99 | EPA 160.1 / SM 2540C |           | ZB  |

|                               |       |                   |      |          |                      |           |     |
|-------------------------------|-------|-------------------|------|----------|----------------------|-----------|-----|
| MW-5                          | Water | Sampled: 02/11/99 |      |          |                      | L10036-12 |     |
| Chloride                      | 3,200 | 50.               | mg/L | 02/19/99 | EPA 300.0            | D         | CAC |
| Solids, Total Dissolved (TDS) | 7,860 | 10.               | mg/L | 02/16/99 | EPA 160.1 / SM 2540C |           | ZB  |

|                               |       |                   |      |          |                      |           |     |
|-------------------------------|-------|-------------------|------|----------|----------------------|-----------|-----|
| WATER WELL                    | Water | Sampled: 02/11/99 |      |          |                      | L10036-13 |     |
| Chloride                      | 110   | 1.0               | mg/L | 02/19/99 | EPA 300.0            | D         | CAC |
| Solids, Total Dissolved (TDS) | 850.  | 10.               | mg/L | 02/16/99 | EPA 160.1 / SM 2540C |           | ZB  |

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Client: **Enron Gas Pipeline Group**  
 Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

## BTEX by EPA 8021

| Sample ID | Matrix | Result | Reporting Limit | Units (ppb) | Comment | Lab Number |
|-----------|--------|--------|-----------------|-------------|---------|------------|
| Analyte   |        |        |                 |             |         |            |

|                            |  |                    |    |      |          |                                               |                 |
|----------------------------|--|--------------------|----|------|----------|-----------------------------------------------|-----------------|
| <b>LOCKRIDGE LARGE AST</b> |  | <b>Water</b>       |    |      |          | Sampled: 02/09/99<br>Analyzed: 02/17/99 by WB | <b>L10036-1</b> |
| Benzene                    |  | 110                | 1. | µg/L |          |                                               |                 |
| Toluene                    |  | 1,200              | 1. | µg/L |          |                                               |                 |
| Ethylbenzene               |  | 57.                | 1. | µg/L |          |                                               |                 |
| Total Xylenes              |  | 4,300              | 1. | µg/L |          |                                               |                 |
|                            |  | Surrogate          |    |      | Recovery | Limit                                         |                 |
|                            |  | Trifluorotoluene   |    |      | 94. %    | 50 - 150                                      |                 |
|                            |  | Bromofluorobenzene |    |      | 126. %   | 50 - 150                                      |                 |

|               |  |                    |    |      |          |                                               |                 |
|---------------|--|--------------------|----|------|----------|-----------------------------------------------|-----------------|
| <b>MW-10</b>  |  | <b>Water</b>       |    |      |          | Sampled: 02/11/99<br>Analyzed: 02/17/99 by WB | <b>L10036-2</b> |
| Benzene       |  | 56.                | 1. | µg/L |          |                                               |                 |
| Toluene       |  | 24.                | 1. | µg/L |          |                                               |                 |
| Ethylbenzene  |  | 5.                 | 1. | µg/L |          |                                               |                 |
| Total Xylenes |  | 89.                | 1. | µg/L |          |                                               |                 |
|               |  | Surrogate          |    |      | Recovery | Limit                                         |                 |
|               |  | Trifluorotoluene   |    |      | 81. %    | 50 - 150                                      |                 |
|               |  | Bromofluorobenzene |    |      | MI       | 50 - 150                                      |                 |

|               |  |                    |    |      |          |                                               |                 |
|---------------|--|--------------------|----|------|----------|-----------------------------------------------|-----------------|
| <b>MW-6</b>   |  | <b>Water</b>       |    |      |          | Sampled: 02/10/99<br>Analyzed: 02/16/99 by WB | <b>L10036-3</b> |
| Benzene       |  | 32.                | 1. | µg/L | P        |                                               |                 |
| Toluene       |  | 37.                | 1. | µg/L |          |                                               |                 |
| Ethylbenzene  |  | 15.                | 1. | µg/L |          |                                               |                 |
| Total Xylenes |  | 140                | 1. | µg/L |          |                                               |                 |
|               |  | Surrogate          |    |      | Recovery | Limit                                         |                 |
|               |  | Trifluorotoluene   |    |      | 91. %    | 50 - 150                                      |                 |
|               |  | Bromofluorobenzene |    |      | MI       | 50 - 150                                      |                 |

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**BTEX**  
by EPA 8021

| Sample ID | Matrix | Result | Reporting Limit | Units (ppb) | Comment | Lab Number |
|-----------|--------|--------|-----------------|-------------|---------|------------|
| Analyte   |        |        |                 |             |         |            |

|                    |    |              |      |                                               |  |                 |
|--------------------|----|--------------|------|-----------------------------------------------|--|-----------------|
| <b>MW-2</b>        |    | <b>Water</b> |      | Sampled: 02/10/99<br>Analyzed: 02/16/99 by WB |  | <b>L10036-4</b> |
| Benzene            | 1. | 1.           | µg/L |                                               |  |                 |
| Toluene            | ND | 1.           | µg/L |                                               |  |                 |
| Ethylbenzene       | ND | 1.           | µg/L |                                               |  |                 |
| Total Xylenes      | ND | 1.           | µg/L |                                               |  |                 |
| Surrogate          |    | Recovery     |      | Limit                                         |  |                 |
| Trifluorotoluene   |    | 83. %        |      | 50 - 150                                      |  |                 |
| Bromofluorobenzene |    | MI           |      | 50 - 150                                      |  |                 |

|                    |    |              |      |                                               |  |                 |
|--------------------|----|--------------|------|-----------------------------------------------|--|-----------------|
| <b>MW-12</b>       |    | <b>Water</b> |      | Sampled: 02/10/99<br>Analyzed: 02/16/99 by WB |  | <b>L10036-5</b> |
| Benzene            | ND | 1.           | µg/L |                                               |  |                 |
| Toluene            | ND | 1.           | µg/L |                                               |  |                 |
| Ethylbenzene       | ND | 1.           | µg/L |                                               |  |                 |
| Total Xylenes      | ND | 1.           | µg/L |                                               |  |                 |
| Surrogate          |    | Recovery     |      | Limit                                         |  |                 |
| Trifluorotoluene   |    | 92. %        |      | 50 - 150                                      |  |                 |
| Bromofluorobenzene |    | 129. %       |      | 50 - 150                                      |  |                 |

|                    |     |              |      |                                               |  |                 |
|--------------------|-----|--------------|------|-----------------------------------------------|--|-----------------|
| <b>MW-1</b>        |     | <b>Water</b> |      | Sampled: 02/10/99<br>Analyzed: 02/16/99 by WB |  | <b>L10036-6</b> |
| Benzene            | 5.  | 1.           | µg/L | P                                             |  |                 |
| Toluene            | 3.  | 1.           | µg/L |                                               |  |                 |
| Ethylbenzene       | 14. | 1.           | µg/L |                                               |  |                 |
| Total Xylenes      | 3.  | 1.           | µg/L |                                               |  |                 |
| Surrogate          |     | Recovery     |      | Limit                                         |  |                 |
| Trifluorotoluene   |     | 103. %       |      | 50 - 150                                      |  |                 |
| Bromofluorobenzene |     | 144. %       |      | 50 - 150                                      |  |                 |

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**BTEX**  
by EPA 8021

| Sample ID | Matrix |        |                 |             | Lab Number |
|-----------|--------|--------|-----------------|-------------|------------|
| Analyte   |        | Result | Reporting Limit | Units (ppb) | Comment    |

|                    |  |              |    |          |                                               |          |
|--------------------|--|--------------|----|----------|-----------------------------------------------|----------|
| <b>TRIP BLANK</b>  |  | <b>Water</b> |    |          | Sampled: 02/11/99<br>Analyzed: 02/17/99 by WB | L10036-7 |
| Benzene            |  | ND           | 1. | µg/L     |                                               |          |
| Toluene            |  | ND           | 1. | µg/L     |                                               |          |
| Ethylbenzene       |  | ND           | 1. | µg/L     |                                               |          |
| Total Xylenes      |  | ND           | 1. | µg/L     |                                               |          |
| Surrogate          |  |              |    | Recovery | Limit                                         |          |
| Trifluorotoluene   |  |              |    | 99. %    | 50 - 150                                      |          |
| Bromofluorobenzene |  |              |    | 113. %   | 50 - 150                                      |          |

|                    |  |              |    |          |                                               |          |
|--------------------|--|--------------|----|----------|-----------------------------------------------|----------|
| <b>MW-11</b>       |  | <b>Water</b> |    |          | Sampled: 02/11/99<br>Analyzed: 02/17/99 by WB | L10036-8 |
| Benzene            |  | 610          | 1. | µg/L     | P                                             |          |
| Toluene            |  | 610          | 1. | µg/L     |                                               |          |
| Ethylbenzene       |  | 31.          | 1. | µg/L     |                                               |          |
| Total Xylenes      |  | 670          | 1. | µg/L     |                                               |          |
| Surrogate          |  |              |    | Recovery | Limit                                         |          |
| Trifluorotoluene   |  |              |    | 100. %   | 50 - 150                                      |          |
| Bromofluorobenzene |  |              |    | MI       | 50 - 150                                      |          |

|                    |  |              |    |          |                                               |          |
|--------------------|--|--------------|----|----------|-----------------------------------------------|----------|
| <b>MW-13</b>       |  | <b>Water</b> |    |          | Sampled: 02/11/99<br>Analyzed: 02/17/99 by WB | L10036-9 |
| Benzene            |  | 240          | 1. | µg/L     | P                                             |          |
| Toluene            |  | 520          | 1. | µg/L     |                                               |          |
| Ethylbenzene       |  | 25.          | 1. | µg/L     |                                               |          |
| Total Xylenes      |  | 640          | 1. | µg/L     |                                               |          |
| Surrogate          |  |              |    | Recovery | Limit                                         |          |
| Trifluorotoluene   |  |              |    | 99. %    | 50 - 150                                      |          |
| Bromofluorobenzene |  |              |    | MI       | 50 - 150                                      |          |

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**BTEX**  
by EPA 8021

| Sample ID | Matrix | Result | Reporting Limit | Units (ppb) | Comment | Lab Number |
|-----------|--------|--------|-----------------|-------------|---------|------------|
| Analyte   |        |        |                 |             |         |            |

|                    |     |              |      |                                               |  |                  |
|--------------------|-----|--------------|------|-----------------------------------------------|--|------------------|
| <b>MW-9</b>        |     | <b>Water</b> |      | Sampled: 02/11/99<br>Analyzed: 02/17/99 by WB |  | <b>L10036-10</b> |
| Benzene            | 230 | 1.           | µg/L | P                                             |  |                  |
| Toluene            | 510 | 1.           | µg/L |                                               |  |                  |
| Ethylbenzene       | 25. | 1.           | µg/L |                                               |  |                  |
| Total Xylenes      | 580 | 1.           | µg/L |                                               |  |                  |
| Surrogate          |     | Recovery     |      | Limit                                         |  |                  |
| Trifluorotoluene   |     | 100. %       |      | 50 - 150                                      |  |                  |
| Bromofluorobenzene |     | MI           |      | 50 - 150                                      |  |                  |

|                    |     |              |      |                                               |  |                  |
|--------------------|-----|--------------|------|-----------------------------------------------|--|------------------|
| <b>MW-8</b>        |     | <b>Water</b> |      | Sampled: 02/11/99<br>Analyzed: 02/17/99 by WB |  | <b>L10036-11</b> |
| Benzene            | 210 | 1.           | µg/L | P                                             |  |                  |
| Toluene            | 360 | 1.           | µg/L |                                               |  |                  |
| Ethylbenzene       | 15. | 1.           | µg/L |                                               |  |                  |
| Total Xylenes      | 400 | 1.           | µg/L |                                               |  |                  |
| Surrogate          |     | Recovery     |      | Limit                                         |  |                  |
| Trifluorotoluene   |     | 77. %        |      | 50 - 150                                      |  |                  |
| Bromofluorobenzene |     | MI           |      | 50 - 150                                      |  |                  |

|                    |     |              |      |                                               |  |                  |
|--------------------|-----|--------------|------|-----------------------------------------------|--|------------------|
| <b>MW-5</b>        |     | <b>Water</b> |      | Sampled: 02/11/99<br>Analyzed: 02/17/99 by WB |  | <b>L10036-12</b> |
| Benzene            | 120 | 1.           | µg/L | P                                             |  |                  |
| Toluene            | 140 | 1.           | µg/L |                                               |  |                  |
| Ethylbenzene       | 18. | 1.           | µg/L |                                               |  |                  |
| Total Xylenes      | 200 | 1.           | µg/L |                                               |  |                  |
| Surrogate          |     | Recovery     |      | Limit                                         |  |                  |
| Trifluorotoluene   |     | 89. %        |      | 50 - 150                                      |  |                  |
| Bromofluorobenzene |     | MI           |      | 50 - 150                                      |  |                  |

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**BTEX**  
by EPA 8021

| Sample ID | Matrix |        |                 |             | Lab Number |
|-----------|--------|--------|-----------------|-------------|------------|
| Analyte   |        | Result | Reporting Limit | Units (ppb) | Comment    |

|                   |  |                    |                                               |          |          |           |
|-------------------|--|--------------------|-----------------------------------------------|----------|----------|-----------|
| <b>WATER WELL</b> |  | <b>Water</b>       | Sampled: 02/11/99<br>Analyzed: 02/17/99 by WB |          |          | L10036-13 |
| Benzene           |  | ND                 | 1.                                            | µg/L     |          |           |
| Toluene           |  | ND                 | 1.                                            | µg/L     |          |           |
| Ethylbenzene      |  | ND                 | 1.                                            | µg/L     |          |           |
| Total Xylenes     |  | ND                 | 1.                                            | µg/L     |          |           |
|                   |  | Surrogate          |                                               | Recovery | Limit    |           |
|                   |  | Trifluorotoluene   |                                               | 97. %    | 50 - 150 |           |
|                   |  | Bromofluorobenzene |                                               | 123. %   | 50 - 150 |           |

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L10036

Client: *Enron Gas Pipeline Group*  
Contact: *George Robinson*

Project: *Bell Lake*  
*Transwestern Pipeline*

**Batch Q.C.**  
**Blank**  
**Inorganics - Waters (mg/L)**

| Analyte | Result | Reporting |   | Date     |
|---------|--------|-----------|---|----------|
|         |        | Limit     | Q | Analyzed |

|                                     |    |     |  |          |
|-------------------------------------|----|-----|--|----------|
| Chloride .....                      | ND | 0.1 |  | 02/19/99 |
| Solids, Total Dissolved (TDS) ..... | NA | 10  |  | 02/16/99 |

Comments:

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**Batch Q.C.****LCSW****Inorganics - Waters (mg/L)**

| Analyte | True Value | Result | % Recovery | % Limit | Date Analyzed |
|---------|------------|--------|------------|---------|---------------|
|---------|------------|--------|------------|---------|---------------|

|                                     |       |      |    |        |          |
|-------------------------------------|-------|------|----|--------|----------|
| Chloride .....                      | 10.00 | 9.29 | 93 | 90-110 | 02/19/99 |
| Solids, Total Dissolved (TDS) ..... | NA    | NA   | NA |        | 02/16/99 |

Comments:

**OREGON ANALYTICAL LABORATORY**

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**Batch Q.C.****Duplicate****Inorganics - Waters (mg/L)**

| Analyte | Result | Duplicate<br>Result | Reporting<br>Limit | RPD | RPD<br>Limit | Q | Date<br>Analyzed |
|---------|--------|---------------------|--------------------|-----|--------------|---|------------------|
|---------|--------|---------------------|--------------------|-----|--------------|---|------------------|

|                                     |      |      |    |    |    |  |          |
|-------------------------------------|------|------|----|----|----|--|----------|
| Chloride .....                      | 2900 | 2900 | 50 | <1 | 20 |  | 02/19/99 |
| Solids, Total Dissolved (TDS) ..... | 860  | 840  | 10 | 2  | 20 |  | 02/16/99 |

Comments: Chloride Batch QC for L10036-2 through -6, & -8.  
Total Dissolved Solids (TDS) Batch QC for L10036-2 through 6 and -8 through -10.

**OREGON ANALYTICAL LABORATORY**

A Division of Portland General Electric  
14855 S.W. Scholls Ferry Road, Beaverton, OR 97007  
Phone 503-590-5300 • Fax 503-590-1404  
www.oalab.com/oal • Toll-Free 1-800-644-0967





L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

## Batch Q.C.

### Duplicate

### Inorganics - Waters (mg/L)

| Analyte | Result | Duplicate<br>Result | Reporting<br>Limit | RPD | RPD<br>Limit | Q | Date<br>Analyzed |
|---------|--------|---------------------|--------------------|-----|--------------|---|------------------|
|---------|--------|---------------------|--------------------|-----|--------------|---|------------------|

|                                     |      |      |    |    |    |  |          |
|-------------------------------------|------|------|----|----|----|--|----------|
| Chloride .....                      | 3400 | 3400 | 50 | <1 | 20 |  | 02/19/99 |
| Solids, Total Dissolved (TDS) ..... | 180  | 210  | 10 | 15 | 20 |  | 02/16/99 |

Comments: Chloride Batch QC for L10036-9 through -13.  
Total Dissolved Solids (TDS) Batch QC for L10036-11 through -13.

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**Batch Q.C.****Spike****Inorganics - Waters (mg/L)**

| Analyte | Spike<br>Result | Sample<br>Result | Spike<br>Added | %<br>Recovery | %<br>Limit | Q | Date<br>Analyzed |
|---------|-----------------|------------------|----------------|---------------|------------|---|------------------|
|---------|-----------------|------------------|----------------|---------------|------------|---|------------------|

|                                     |      |      |      |     |        |  |          |
|-------------------------------------|------|------|------|-----|--------|--|----------|
| Chloride .....                      | 5900 | 2900 | 3000 | 100 | 75-125 |  | 02/19/99 |
| Solids, Total Dissolved (TDS) ..... | NA   | NA   | NA   | NA  |        |  | 02/16/99 |
| Comments:                           |      |      |      |     |        |  |          |

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**Batch Q.C.**  
**Method Blank**  
**BTEX/Water (ug/L)**

| Analyte | Result | Reporting |   | Date     |
|---------|--------|-----------|---|----------|
|         |        | Limit     | Q | Analyzed |

|                    |    |   |  |          |
|--------------------|----|---|--|----------|
| Benzene .....      | ND | 1 |  | 02/16/99 |
| Toluene .....      | ND | 1 |  |          |
| Ethylbenzene ..... | ND | 1 |  |          |
| Xylenes .....      | ND | 1 |  |          |

| Surrogates         | % Recovery |
|--------------------|------------|
| Trifluorotoluene   | 89         |
| Bromofluorobenzene | 105        |

Comments: L10036-3 through 6.

**OREGON ANALYTICAL LABORATORY**

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**Batch Q.C.**  
**Method Blank**  
**BTEX/Water (ug/L)**

| Analyte                              | Result     | Limit | Q | Date Analyzed |
|--------------------------------------|------------|-------|---|---------------|
|                                      |            |       |   |               |
| Benzene .....                        | ND         | 1     |   | 02/17/99      |
| Toluene .....                        | ND         | 1     |   |               |
| Ethylbenzene .....                   | ND         | 1     |   |               |
| Xylenes .....                        | ND         | 1     |   |               |
|                                      |            |       |   |               |
| Surrogates                           | % Recovery |       |   |               |
| Trifluorotoluene                     | 96         |       |   |               |
| Bromofluorobenzene                   | 111        |       |   |               |
|                                      |            |       |   |               |
| Comments: L10036-1,2 & 7 through 13. |            |       |   |               |

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L10036

Client: *Enron Gas Pipeline Group*  
Contact: *George Robinson*

Project: *Bell Lake*  
*Transwestern Pipeline*

**Batch Q.C.**  
**LCS**  
**BTEX/Water (ug/L)**

| Analyte | Result | True Value | % Recovery | Q | Date     |
|---------|--------|------------|------------|---|----------|
|         |        |            |            |   | Analyzed |

|                    |      |      |     |  |          |
|--------------------|------|------|-----|--|----------|
| Benzene .....      | 9.9  | 10.0 | 99  |  | 02/03/99 |
| Toluene .....      | 9.9  | 10.0 | 99  |  |          |
| Ethylbenzene ..... | 10.1 | 10.0 | 101 |  |          |
| Xylenes .....      | 19.7 | 20.0 | 99  |  |          |

| Surrogates         | % Recovery |
|--------------------|------------|
| Trifluorotoluene   | 99         |
| Bromofluorobenzene | 98         |

Comments: L10036-1, 3 through 6.

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**Batch Q.C.****MS****BTEX/Water (ug/L)**

| Analyte | Sample Result | MS Result | True Value | % Recovery | Q | Date Analyzed |
|---------|---------------|-----------|------------|------------|---|---------------|
|---------|---------------|-----------|------------|------------|---|---------------|

|                    |    |      |      |    |  |          |
|--------------------|----|------|------|----|--|----------|
| Benzene .....      | ND | 9.5  | 10.0 | 95 |  | 02/08/99 |
| Toluene .....      | ND | 9.4  | 10.0 | 94 |  |          |
| Ethylbenzene ..... | ND | 9.6  | 10.0 | 96 |  |          |
| Xylenes .....      | ND | 18.6 | 20.0 | 93 |  |          |

| Surrogates         | % Recovery | % Recovery |
|--------------------|------------|------------|
|                    | Sample     | MS         |
| Trifluorotoluene   | 94         | 93         |
| Bromofluorobenzene | 97         | 94         |

Comments: L10036-1, 3 through 6.

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**Batch Q.C.**  
**LCS**  
**BTEX/Water (ug/L)**

| Analyte | Result | True Value | % Recovery | Q | Date     |
|---------|--------|------------|------------|---|----------|
|         |        |            |            |   | Analyzed |

|                    |      |      |     |  |          |
|--------------------|------|------|-----|--|----------|
| Benzene .....      | 9.9  | 10.0 | 99  |  | 02/08/99 |
| Toluene .....      | 9.9  | 10.0 | 99  |  |          |
| Ethylbenzene ..... | 10.1 | 10.0 | 101 |  |          |
| Xylenes .....      | 19.7 | 20.0 | 99  |  |          |

| Surrogates         | % Recovery |
|--------------------|------------|
| Trifluorotoluene   | 99         |
| Bromofluorobenzene | 98         |

Comments: L10036-1, 3 through 6.

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**Batch Q.C.**  
**MS**  
**BTEX/Water (ug/L)**

| Analyte | Sample | MS     | True Value | % Recovery | Q | Date     |
|---------|--------|--------|------------|------------|---|----------|
|         | Result | Result |            |            |   | Analyzed |

|                    |    |      |      |    |          |
|--------------------|----|------|------|----|----------|
| Benzene .....      | ND | 9.5  | 10.0 | 95 | 02/08/99 |
| Toluene .....      | ND | 9.4  | 10.0 | 94 |          |
| Ethylbenzene ..... | ND | 9.6  | 10.0 | 96 |          |
| Xylenes .....      | ND | 18.6 | 20.0 | 93 |          |

| Surrogates         | % Recovery | % Recovery |
|--------------------|------------|------------|
|                    | Sample     | MS         |
| Trifluorotoluene   | 94         | 93         |
| Bromofluorobenzene | 97         | 94         |

Comments: L10036-1, 3 through 6.

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**Batch Q.C.****Duplicate****BTEX/Water (ug/L)**

| Analyte | Duplicate |        | RPD | Reporting | Date |          |
|---------|-----------|--------|-----|-----------|------|----------|
|         | Result    | Result |     | Limit     | Q    | Analyzed |

|                    |      |      |    |   |  |          |
|--------------------|------|------|----|---|--|----------|
| Benzene .....      | 112  | 114  | 2  | 1 |  | 02/17/99 |
| Toluene .....      | 1170 | 1200 | 3  | 1 |  |          |
| Ethylbenzene ..... | 57.2 | 63.7 | 11 | 1 |  |          |
| Xylenes .....      | 4330 | 4490 | 4  | 1 |  |          |

| Surrogates        | % Recovery | % Recovery |
|-------------------|------------|------------|
|                   | Sample     | Duplicate  |
| Trifluorotoluene  | 94         | 96         |
| Monofluorobenzene | 126        | 105        |

Comments: L10036-1 through 10.

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L10036

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**  
**Transwestern Pipeline**

**Batch Q.C.**  
**Duplicate**  
**BTEX/Water (ug/L)**

| Analyte | Result | Duplicate |     | Reporting |   | Date     |
|---------|--------|-----------|-----|-----------|---|----------|
|         |        | Result    | RPD | Limit     | Q | Analyzed |

|                    |      |      |    |   |  |          |
|--------------------|------|------|----|---|--|----------|
| Benzene .....      | 210  | 211  | <1 | 1 |  | 02/17/99 |
| Toluene .....      | 362  | 359  | <1 | 1 |  |          |
| Ethylbenzene ..... | 14.8 | 14.9 | <1 | 1 |  |          |
| Xylenes .....      | 401  | 401  | <1 | 1 |  |          |

| Surrogates         | % Recovery | % Recovery |
|--------------------|------------|------------|
|                    | Sample     | Duplicate  |
| Trifluorotoluene   | 77         | 80         |
| Bromofluorobenzene | MI         | MI         |

Comments: L10036-11 through 13.

**OREGON ANALYTICAL LABORATORY**

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## CHAIN CUSTODY RECORD LABORATORY ANALYSIS REQUEST

Sampling: ☒ Grab ☐ Comp  
OAL hrs. \_\_\_\_\_ Page 1 of 2  
ISCO \_\_\_\_\_ Site Visit ☐

### Client Information

Company CYPRESS ENGINEERING  
Contact SANDY SHARP  
Address 10235 WEST LITTLEYORK STE 250  
HOUSTON, TX 77040  
Phone (713) 446-7552 Fax (713) 446-7867

### Billing Information

Company ENRON  
Contact JO GEORGE ROBINSON  
Address \_\_\_\_\_  
Phone (714) 446-7327 Fax (713) 446-7867

### Project Information

Project Name TRANSWESTERN Pipeline Sampler's Name SANDY SHARP  
Project # BELL LAKE Signature Sandy Sharp  
P.O. # \_\_\_\_\_  
Comments \_\_\_\_\_  
Quote # \_\_\_\_\_  
NOTE: If quote number is not referenced, standard pricing will be applied.  
Provide Fax Results ☒ Yes ☐ No

### Remarks

| Sample Identification |                     |         |      | FOR LAB USE ONLY |      | # of Containers | Matrix |       |                         |                             |             |                           |                  |                                  |               |            | Analyses                                                           |                       |            |                 |      |             |           |                                                                         |                                                                                                        |                         | Turnaround | Remarks |
|-----------------------|---------------------|---------|------|------------------|------|-----------------|--------|-------|-------------------------|-----------------------------|-------------|---------------------------|------------------|----------------------------------|---------------|------------|--------------------------------------------------------------------|-----------------------|------------|-----------------|------|-------------|-----------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------|------------|---------|
|                       |                     |         |      | Date             | Time |                 | Soil   | Water | Other (Note in Remarks) | Volatiles 624 / 8260 / 8240 | 8010 / 8020 | Semi-volatiles 625 / 8270 | PAH(SM) PAH 8310 | Organochlorine 608 / 8080 / 8081 | PCB Pesticide | NW TPH-HCD | Quantity? <input type="checkbox"/> Yes <input type="checkbox"/> No | NW TPH Quantification | G D 418.1M | BTEX 602 / 8020 | MTBE | Naphthalene | TPH 418.1 | Oil & Grease <input type="checkbox"/> Total <input type="checkbox"/> NP | Metals <input type="checkbox"/> Total <input type="checkbox"/> TCLP <input type="checkbox"/> Dissolved | As Ba Cd Cr Pb Hg Se Ag |            |         |
| 1                     | Lockridge Large AST | 2/9/99  | 1230 | L10036-1         |      | 3               |        | X     |                         |                             |             |                           |                  |                                  |               |            |                                                                    |                       |            |                 |      |             |           |                                                                         |                                                                                                        |                         | 2          |         |
| 2                     | MW-10               | 2/10/99 | 0930 | -2               |      | 5               |        | X     |                         |                             |             |                           |                  |                                  |               |            |                                                                    |                       |            |                 |      |             |           |                                                                         |                                                                                                        |                         |            |         |
| 3                     | MW-6                | 2/10/99 | 1815 | -3               |      | 5               |        | X     |                         |                             |             |                           |                  |                                  |               |            |                                                                    |                       |            |                 |      |             |           |                                                                         |                                                                                                        |                         |            |         |
| 4                     | MW-2                | 2/10/99 | 1500 | -4               |      | 5               |        | X     |                         |                             |             |                           |                  |                                  |               |            |                                                                    |                       |            |                 |      |             |           |                                                                         |                                                                                                        |                         |            |         |
| 5                     | MW-12               | 2/10/99 | 1715 | -5               |      | 5               |        | X     |                         |                             |             |                           |                  |                                  |               |            |                                                                    |                       |            |                 |      |             |           |                                                                         |                                                                                                        |                         |            |         |
| 6                     | MW-1                | 2/10/99 | 1550 | -6               |      | 5               |        | X     |                         |                             |             |                           |                  |                                  |               |            |                                                                    |                       |            |                 |      |             |           |                                                                         |                                                                                                        |                         |            |         |
| 7                     | TRIP BLANK          |         |      | -7               |      | 3               |        | X     |                         |                             |             |                           |                  |                                  |               |            |                                                                    |                       |            |                 |      |             |           |                                                                         |                                                                                                        |                         |            |         |
| 8                     |                     |         |      |                  |      |                 |        |       |                         |                             |             |                           |                  |                                  |               |            |                                                                    |                       |            |                 |      |             |           |                                                                         |                                                                                                        |                         |            |         |
| 9                     |                     |         |      |                  |      |                 |        |       |                         |                             |             |                           |                  |                                  |               |            |                                                                    |                       |            |                 |      |             |           |                                                                         |                                                                                                        |                         |            |         |

[N] Normal - 10 working days  
[S] Special - 5 working days  
[R] Rush - 24-72 hrs.  
[O] Other - \_\_\_\_\_

Relinquished  
Signature Sandy Sharp Date 2/12/99  
Print Name SANDY SHARP Time 0800  
Company CYPRESS

Received  
Signature Paul Clark Date 2/13/99  
Print Name PAUL CLARK Time 0930  
Company OAL

Relinquished  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_

Received  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_

Relinquished  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_

Received  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_

☐ Courier ☐ UPS ☒ FedEx ☐ Other  
Received @ 2:00  
Appropriate Containers ☒ Yes ☐ No  
\_\_\_\_ 4oz./8oz. Jars  
21 VOA Vials  
5 Plastic Bottles 12  
\_\_\_\_ Glass Bottles  
\_\_\_\_ Other \_\_\_\_\_

# CHAIN OF CUSTODY RECORD LABORATORY ANALYSIS REQUEST

Sampling: ☒ Grab ☐ Comp  
OAL hrs. \_\_\_\_\_  
ISCO \_\_\_\_\_

Page 2 of 2  
Site Visit ☐

**Client Information**  
Company CYPRESS ENGINEERING  
Contact SANDY SHARP  
Address 10235 WEST LITTLE YORK, SE 200  
HOUSTON, TX 77060  
Phone # 713-446-7252 Fax # 713-446-7467

**Billing Information**  
Company ENRON  
Contact GEORGE ROBINSON  
Address \_\_\_\_\_  
Phone # 646-7527 Fax # 713-446-7467

**Project Information**  
Project Name THUNDERBOLT PINE Sampler's Name SANDY SHARP  
Project # BEE LAKE Signature [Signature]  
P.O. # \_\_\_\_\_  
Comments \_\_\_\_\_  
Quote # \_\_\_\_\_  
NOTE: If quote number is not referenced, standard pricing will be applied.  
Provide Fax Results ☒ Yes ☐ No

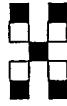
| Remarks               |       |         |      | # of Containers | Matrix                          |      |       | Analyses                |                                            |                                              |                                                   |                                                                                  |                                     |                                                                                       |                                                                                                      |                                                                                                                                               |  |  |  | Turnaround | Remarks |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 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| Sample Identification |       | Date    | Time |                 | FOR LAB USE ONLY<br>OAL Login # | Soil | Water | Other (Note in Remarks) | Volatiles 624 / 8260 / 8240<br>8010 / 8020 | Semivolatiles 625 / 8270<br>PAH(SM) PAH 8310 | Organochlorine 608 / 8080 / 8081<br>PCB Pesticide | NW TPH-HCD<br>Quantity? <input type="checkbox"/> Yes <input type="checkbox"/> No | NW TPH Quantification<br>G D 418.1M | BTEX 602 / 8020 <input type="checkbox"/> MTBE<br><input type="checkbox"/> Naphthalene | TPH<br>Oil & Grease <input type="checkbox"/> Total<br>418.1 413.1 / 1664 <input type="checkbox"/> NP | Metals<br><input type="checkbox"/> Total <input type="checkbox"/> TCLP <input type="checkbox"/> Dissolved<br>As Ba Cd Cr Pb Hg Se Ag<br>Other |  |  |  |            |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 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**Relinquished**  
Signature [Signature] Date 2/12/99  
Print Name SANDY SHARP Time 0800  
Company CYPRESS ENGINEERING  
**Received**  
Signature [Signature] Date 2/13/99  
Print Name PAUL CLARK Time 0930  
Company OAL

**Relinquished**  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_  
**Received**  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_

**Relinquished**  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_  
**Received**  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_

☐ Courier ☐ UPS ☒ FedEx ☐ Other  
Received @ 3 °C  
Appropriate Containers ☒ Yes ☐ No  
\_\_\_\_ 4oz./8oz. Jars  
18 VOA Vials  
6 Plastic Bottles 14  
\_\_\_\_ Glass Bottles  
\_\_\_\_ Other \_\_\_\_\_



**Hall Environmental  
Analysis Laboratory, Inc.**

April 23, 1999

Hall Environmental Analysis Laboratory  
4901 Hawkins NE, Suite A  
Albuquerque, NM 87109  
(505)345-3975

Cypress Engineering  
10235 West Little York, #256  
Houston, Texas 77040

Dear Mr. Robinson:

Enclosed are the results for the analyses that were requested. These were done according to EPA procedures or the equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these levels (denoted by nd or the < sign) has been made.

Please don't hesitate to contact me for any additional information or clarifications.

Sincerely,

Nancy McDuffie  
Assistant Laboratory Manager

Project: 9904092/Transwestern

**Hall Environmental Analysis Laboratory, Inc.**

**Client :** Cypress Engineering Services  
**Project:** Transwestern  
**Sample Matrix:** Air

**Date Collected:** 4/13/99  
**Date Received:** 4/16/99  
**Date Extracted:** NA

**Gasoline Range Organics**  
**EPA Method 8015 Modified**  
**Units: µg/L**

|                       |              |                 |               |
|-----------------------|--------------|-----------------|---------------|
| <b>Sample Name:</b>   | <b>LR NE</b> | <b>LR Total</b> | <b>LR Dup</b> |
| <b>Lab Code:</b>      | 9904092-1    | 9904092-2       | 9904092-3     |
| <b>Date Analyzed:</b> | 4/16/99      | 4/16/99         | 4/16/99       |

| <u>Compound</u>            | <u>MRL</u> | <u>Result</u> | <u>Result</u> | <u>Result</u> |
|----------------------------|------------|---------------|---------------|---------------|
| Gasoline Range Organics    | 5.0        | 2,000         | 2,200         | 2,400         |
| BFB (Surrogate) Recovery % |            | **            | **            | **            |
| Dilution Factor            |            | 25            | 25            | 25            |

**Hydrocarbon Ranges**

|         |        |        |        |
|---------|--------|--------|--------|
| <C5     | 0.0 %  | 0.0%   | 0.0 %  |
| C5-C6   | 2.6 %  | 1.1 %  | 1.1 %  |
| C6-C7   | 9.8 %  | 5.1%   | 5.0 %  |
| C7-C8   | 30.4 % | 19.2 % | 19.0 % |
| C8-C9   | 38.0 % | 30.7 % | 30.5 % |
| C9-C10  | 17.6 % | 31.1 % | 31.1 % |
| C10-C11 | 0.9 %  | 6.9 %  | 7.0 %  |
| C11-C12 | 0.3 %  | 4.7 %  | 5.0%   |
| C12-C14 | 0.4 %  | 1.2 %  | 1.3 %  |
| C14+    | 0.0 %  | 0.0%   | 0.0 %  |

**\*\* Surrogate not recoverable due to matrix interference.**

**Hall Environmental Analysis Laboratory, Inc.**

**Client :** Cypress Engineering Services  
**Project:** Transwestern  
**Sample Matrix:** Air

**Date Collected:** 4/13/99  
**Date Received:** 4/16/99  
**Date Extracted:** NA

Gasoline Range Organics  
EPA Method 8015 Modified  
Units: µg/L

|                |           |                |                |
|----------------|-----------|----------------|----------------|
| Sample Name:   | LR NW     | WT-1 DEHY Ttl. | Bell Lake Ttl. |
| Lab Code:      | 9904092-4 | 9904092-5      | 9904092-6      |
| Date Analyzed: | 4/16/99   | 4/16/99        | 4/16/99        |

| <u>Compound</u>            | <u>MRL</u> | <u>Result</u> | <u>Result</u> | <u>Result</u> |
|----------------------------|------------|---------------|---------------|---------------|
| Gasoline Range Organics    | 5.0        | 1,400         | 6,800         | 3,000         |
| BFB (Surrogate) Recovery % | **         | **            | **            | **            |
| Dilution Factor            | 25         | 25            | 25            | 25            |

**Hydrocarbon Ranges**

|         |        |        |        |
|---------|--------|--------|--------|
| <C5     | 0.0 %  | 0.0%   | 0.0 %  |
| C5-C6   | 0.4 %  | 1.2 %  | 0.4 %  |
| C6-C7   | 3.1 %  | 8.0 %  | 3.4 %  |
| C7-C8   | 15.3 % | 28.5 % | 16.4 % |
| C8-C9   | 26.5 % | 32.7 % | 27.2 % |
| C9-C10  | 35.7%  | 23.6 % | 31.3 % |
| C10-C11 | 9.5 %  | 3.9 %  | 13.7 % |
| C11-C12 | 7.4 %  | 1.8%   | 6.1 %  |
| C12-C14 | 2.1 %  | 0.3 %  | 1.5 %  |
| C14+    | 0.0 %  | 0.0 %  | 0.0 %  |

\*\* Surrogate not recoverable due to matrix interference.

**Hall Environmental Analysis Laboratory, Inc.**

**Client :** Cypress Engineering Services  
**Project:** Transwestern  
**Sample Matrix:** Aqueous

**Date Collected:** NA  
**Date Received:** NA  
**Date Extracted:** NA

Gasoline Range Organics  
EPA Method 8015 Modified  
Units: PPB $\mu$ g/L

**Sample Name:** Reagent  
**Lab Code:** Blank  
**Date Analyzed:** 4/16/99

| <u>Compound</u>          | <u>MRL</u> | <u>Result</u> |
|--------------------------|------------|---------------|
| Gasoline Range Organics  | 0.05       | nd            |
| BFB (Surrogate) Recovery |            | 101           |
| Dilution Factor          |            | 1             |

**Hall Environmental Analysis Laboratory, Inc.**

**Client:** Cypress Engineering Services  
**Project:** Transwestern  
**Sample Matrix:** Aqueous

**Date Collected:** NA  
**Date Received:** NA  
**Date Extracted:** NA  
**Date Analyzed:** 4/16/99

**Volatile Organic Compounds**

Units: PPB $\mu$ g/L

BS/BSD 4/19

**EPA Method 8015 Modified**

| <u>Compound</u> | <u>Sample<br/>Result</u> | <u>Amount<br/>Added</u> | <u>Blank<br/>Spike</u> | <u>BS %</u> | <u>BS<br/>Dup</u> | <u>BSD %</u> | <u>RPD</u> |
|-----------------|--------------------------|-------------------------|------------------------|-------------|-------------------|--------------|------------|
| Gasoline        | <0.05                    | 0.50                    | 0.47                   | 94          | 0.49              | 98           | 4          |

|                                                                     |                                                                                                                |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Client: Cypress Engineering                                         | Project Name: Transwestern                                                                                     |
| Address: 10235 W. Little York Rd.<br>Suite 256<br>Houston, TX 77040 | Project #:                                                                                                     |
| Phone #: 713-646-7327                                               | Project Manager: George Robinson                                                                               |
| Fax #: 713-646-7867                                                 | Sampler: George Robinson<br>Samples Cold?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

[illegible][illegible]

|         |       |                              |                            |
|---------|-------|------------------------------|----------------------------|
| Date:   | Time: | Relinquished By: (Signature) | Received By: (Signature)   |
| 4-15-99 | 0700  | <i>[Signature]</i>           | <i>[Signature]</i> 4/16/99 |
| Date:   | Time: | Relinquished By: (Signature) | Received By: (Signature)   |



**L12607**

August 25, 1999

George Robinson  
Enron Gas Pipeline Group  
333 Clay St., Room 3142  
P.O. Box 1188  
Houston, TX 77002

Phone: (713) 646-7327

FAX: (713) 646-7867

Re: Laboratory Sample Analysis

Project: Bell Lake

Project Manager: George Robinson

Dear George Robinson:

On August 12 through 13, 1999, OAL received fourteen (14) water samples for analysis. The samples were analyzed utilizing EPA, ASTM, or equivalent methodology.

Should you have any questions concerning the results in this report, please contact us at (503) 590-5300. Refer to OAL login number L12607.

Sincerely,

Doug McKenzie  
Project Manager

**OREGON ANALYTICAL LABORATORY**

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14855 S.W. Scholls Ferry Road, Beaverton, OR 97007  
Phone 503-590-5300 • Fax 503-590-1404  
www.oalab.com • Toll-Free 1-800-644-0967

## Sample Summary

| <u>Sample ID</u> | <u>Lab #</u> | <u>Description</u> | <u>Sampled</u> | <u>Received</u> |
|------------------|--------------|--------------------|----------------|-----------------|
| MW-2             | L12607-1     | water              | 08/10/99 10:45 | 08/12/99        |
| MW-1             | L12607-2     | water              | 08/10/99 13:35 | 08/12/99        |
| MW-7             | L12607-3     | water              | 08/10/99 14:25 | 08/12/99        |
| MW-12            | L12607-4     | water              | 08/10/99 15:30 | 08/12/99        |
| MW-11            | L12607-5     | water              | 08/10/99 16:30 | 08/12/99        |
| MW-6             | L12607-6     | water              | 08/10/99 17:20 | 08/12/99        |
| MW-5             | L12607-7     | water              | 08/10/99 18:05 | 08/12/99        |
| PURGE H2O 2/99   | L12607-8     | water              | 08/10/99 18:45 | 08/12/99        |
| MW-13            | L12607-9     | water              | 08/11/99 08:00 | 08/13/99        |
| WATER WELL       | L12607-10    | water              | 08/11/99 08:45 | 08/13/99        |
| MW-10            | L12607-11    | water              | 08/11/99 09:30 | 08/13/99        |
| MW-8             | L12607-12    | water              | 08/11/99 10:25 | 08/13/99        |
| MW-9             | L12607-13    | water              | 08/11/99 11:30 | 08/13/99        |
| TRIP BLANK       | L12607-14    | water              | 08/11/99       | 08/13/99        |

## Definition of Terms

|           |                                                                   |
|-----------|-------------------------------------------------------------------|
| <b>D</b>  | Reported value is based on a dilution.                            |
| <b>D1</b> | Reported value is based on a dilution due to matrix interference. |
| <b>MI</b> | Matrix interference.                                              |
| <b>ND</b> | Analytical result was below the reporting limit.                  |
| <b>P</b>  | Sample was unpreserved.                                           |

## Laboratory Certifications\*

| <u>Agency</u>                    | <u>Number</u>           |
|----------------------------------|-------------------------|
| Florida Department of Health     | ID #E87569              |
| Oregon Health Division           | State Lab #OR020        |
| Washington Department of Ecology | Lab Accreditation #C136 |
| Washington Department of Health  | Washington Code #136    |

\* Current Scopes of Accreditation are available upon request.

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**Analysts**

| <u>Initials</u> | <u>Analyst</u>   | <u>Title</u> |
|-----------------|------------------|--------------|
| CAC             | Cindy Covey      | Technician   |
| CV              | Cheryl Vezzani   | Chemist      |
| GCK             | Bill Kernion     | Chemist      |
| JD              | Jason Davendonis | Technician   |
| WB              | Wayne Boyle      | Chemist      |

**Method Summary**

| <u>Analysis</u>               | <u>Method</u>        |
|-------------------------------|----------------------|
| Arsenic                       | EPA 200.9            |
| BTEX                          | EPA 8021             |
| Barium                        | EPA 200.7/6010       |
| Cadmium                       | EPA 200.7/6010       |
| Chloride                      | EPA 300.0            |
| Chromium                      | EPA 200.7/6010       |
| Copper                        | EPA 200.7/6010       |
| Iron                          | EPA 200.7/6010       |
| Lead                          | EPA 200.7/6010       |
| Manganese                     | EPA 200.7/6010       |
| Mercury                       | EPA 245.1/7470A      |
| Selenium                      | EPA 200.9            |
| Silver                        | EPA 200.7/6010       |
| Solids, Total Dissolved (TDS) | EPA 160.1 / SM 2540C |
| Zinc                          | EPA 200.7/6010       |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

## Dissolved Metals

| Sample ID | Matrix | Result | Reporting Limit | Units (ppm) | Date Analyzed | Method | Lab Number | Comment | Analyst |
|-----------|--------|--------|-----------------|-------------|---------------|--------|------------|---------|---------|
| Analyte   |        |        |                 |             |               |        |            |         |         |

|           |       |                                |         |      |          |                 |  |    |     |
|-----------|-------|--------------------------------|---------|------|----------|-----------------|--|----|-----|
|           |       | Sampled: 08/10/99              |         |      |          |                 |  |    |     |
|           |       | Filtration EPA 3005A: 08/16/99 |         |      |          |                 |  |    |     |
|           |       | Mercury Digestion: 08/16/99    |         |      |          |                 |  |    |     |
| MW-2      | Water | L12607-1                       |         |      |          |                 |  |    |     |
| Arsenic   |       | 0.056                          | 0.020   | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |
| Barium    |       | 0.280                          | 0.0010  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Cadmium   |       | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Chromium  |       | ND                             | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Copper    |       | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Iron      |       | ND                             | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Lead      |       | ND                             | 0.025   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Manganese |       | 0.232                          | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  |  | D1 | CV  |
| Mercury   |       | ND                             | 0.00020 | mg/L | 08/17/99 | EPA 245.1/7470A |  |    | JD  |
| Selenium  |       | ND                             | 0.020   | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |
| Silver    |       | ND                             | 0.0030  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Zinc      |       | ND                             | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |

|           |       |                                |         |      |          |                 |  |    |     |
|-----------|-------|--------------------------------|---------|------|----------|-----------------|--|----|-----|
|           |       | Sampled: 08/10/99              |         |      |          |                 |  |    |     |
|           |       | Filtration EPA 3005A: 08/16/99 |         |      |          |                 |  |    |     |
|           |       | Mercury Digestion: 08/16/99    |         |      |          |                 |  |    |     |
| MW-1      | Water | L12607-2                       |         |      |          |                 |  |    |     |
| Arsenic   |       | 0.085                          | 0.020   | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |
| Barium    |       | 0.159                          | 0.0010  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Cadmium   |       | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Chromium  |       | ND                             | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Copper    |       | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Iron      |       | 0.053                          | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Lead      |       | ND                             | 0.025   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Manganese |       | 0.017                          | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  |  | D1 | CV  |
| Mercury   |       | ND                             | 0.00020 | mg/L | 08/17/99 | EPA 245.1/7470A |  |    | JD  |
| Selenium  |       | ND                             | 0.020   | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |
| Silver    |       | ND                             | 0.0030  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Zinc      |       | ND                             | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |

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Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

## Dissolved Metals

| Sample ID | Matrix | Result | Reporting Limit | Units (ppm) | Date Analyzed | Method | Comment | Analyst |
|-----------|--------|--------|-----------------|-------------|---------------|--------|---------|---------|
|-----------|--------|--------|-----------------|-------------|---------------|--------|---------|---------|

| MW-7      |        | Water   |      | Sampled: 08/10/99<br>Filtration EPA 3005A: 08/16/99<br>Mercury Digestion: 08/16/99 |                 |  |    |     | L12607-3 |  |
|-----------|--------|---------|------|------------------------------------------------------------------------------------|-----------------|--|----|-----|----------|--|
| Arsenic   | ND     | 0.020   | mg/L | 08/18/99                                                                           | EPA 200.9       |  | D  | GCK |          |  |
| Barium    | 0.854  | 0.0010  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |    | CV  |          |  |
| Cadmium   | ND     | 0.0020  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |    | CV  |          |  |
| Chromium  | ND     | 0.0050  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |    | CV  |          |  |
| Copper    | 0.0051 | 0.0020  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |    | CV  |          |  |
| Iron      | ND     | 0.010   | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |    | CV  |          |  |
| Lead      | ND     | 0.025   | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |    | CV  |          |  |
| Manganese | 4.10   | 0.0050  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  | D1 | CV  |          |  |
| Mercury   | ND     | 0.00020 | mg/L | 08/17/99                                                                           | EPA 245.1/7470A |  |    | JD  |          |  |
| Selenium  | ND     | 0.020   | mg/L | 08/18/99                                                                           | EPA 200.9       |  | D  | GCK |          |  |
| Silver    | ND     | 0.0030  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |    | CV  |          |  |
| Zinc      | 0.021  | 0.010   | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |    | CV  |          |  |

| MW-12     |       | Water   |      | Sampled: 08/10/99<br>Filtration EPA 3005A: 08/16/99<br>Mercury Digestion: 08/16/99 |                 |  |  |    | L12607-4 |  |
|-----------|-------|---------|------|------------------------------------------------------------------------------------|-----------------|--|--|----|----------|--|
| Arsenic   | ND    | 0.020   | mg/L | 08/18/99                                                                           | EPA 200.9       |  |  | D  | GCK      |  |
| Barium    | 0.194 | 0.0010  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |  |    | CV       |  |
| Cadmium   | ND    | 0.0020  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |  |    | CV       |  |
| Chromium  | ND    | 0.0050  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |  |    | CV       |  |
| Copper    | ND    | 0.0020  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |  |    | CV       |  |
| Iron      | ND    | 0.010   | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |  |    | CV       |  |
| Lead      | ND    | 0.025   | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |  |    | CV       |  |
| Manganese | ND    | 0.0050  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |  | D1 | CV       |  |
| Mercury   | ND    | 0.00020 | mg/L | 08/17/99                                                                           | EPA 245.1/7470A |  |  |    | JD       |  |
| Selenium  | ND    | 0.020   | mg/L | 08/18/99                                                                           | EPA 200.9       |  |  | D  | GCK      |  |
| Silver    | ND    | 0.0030  | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |  |    | CV       |  |
| Zinc      | ND    | 0.010   | mg/L | 08/16/99                                                                           | EPA 200.7/6010  |  |  |    | CV       |  |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

## Dissolved Metals

| Sample ID | Matrix | Result | Reporting Limit | Units (ppm) | Date Analyzed | Method | Lab Number | Comment | Analyst |
|-----------|--------|--------|-----------------|-------------|---------------|--------|------------|---------|---------|
| Analyte   |        |        |                 |             |               |        |            |         |         |

|           |       |                                |         |      |          |                 |  |    |     |
|-----------|-------|--------------------------------|---------|------|----------|-----------------|--|----|-----|
|           |       | Sampled: 08/10/99              |         |      |          |                 |  |    |     |
|           |       | Filtration EPA 3005A: 08/16/99 |         |      |          |                 |  |    |     |
|           |       | Mercury Digestion: 08/16/99    |         |      |          |                 |  |    |     |
| MW-11     | Water | L12607-5                       |         |      |          |                 |  |    |     |
| Arsenic   |       | 0.404                          | 0.020   | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |
| Barium    |       | 8.25                           | 0.0010  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Cadmium   |       | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Chromium  |       | ND                             | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Copper    |       | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Iron      |       | 0.267                          | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Lead      |       | ND                             | 0.025   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Manganese |       | 1.47                           | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  |  | D1 | CV  |
| Mercury   |       | ND                             | 0.00020 | mg/L | 08/17/99 | EPA 245.1/7470A |  |    | JD  |
| Selenium  |       | ND                             | 0.020   | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |
| Silver    |       | ND                             | 0.0030  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Zinc      |       | ND                             | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |

|           |       |                                |         |      |          |                 |  |    |     |
|-----------|-------|--------------------------------|---------|------|----------|-----------------|--|----|-----|
|           |       | Sampled: 08/10/99              |         |      |          |                 |  |    |     |
|           |       | Filtration EPA 3005A: 08/16/99 |         |      |          |                 |  |    |     |
|           |       | Mercury Digestion: 08/16/99    |         |      |          |                 |  |    |     |
| MW-6      | Water | L12607-6                       |         |      |          |                 |  |    |     |
| Arsenic   |       | 0.365                          | 0.020   | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |
| Barium    |       | 0.496                          | 0.0010  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Cadmium   |       | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Chromium  |       | ND                             | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Copper    |       | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Iron      |       | 0.016                          | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Lead      |       | ND                             | 0.025   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Manganese |       | ND                             | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  |  | D1 | CV  |
| Mercury   |       | ND                             | 0.00020 | mg/L | 08/17/99 | EPA 245.1/7470A |  |    | JD  |
| Selenium  |       | ND                             | 0.020   | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |
| Silver    |       | ND                             | 0.0030  | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |
| Zinc      |       | ND                             | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |

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L12607

Client: **Enron Gas Pipeline Group**  
 Contact: **George Robinson**

Project: **Bell Lake****Dissolved Metals**

| <u>Sample ID</u> | <u>Matrix</u> |        |                 |             |               |        | <u>Lab Number</u> |
|------------------|---------------|--------|-----------------|-------------|---------------|--------|-------------------|
| Analyte          |               | Result | Reporting Limit | Units (ppm) | Date Analyzed | Method | Comment Analyst   |

|             |              |                                |         |      |          |                 |                 |
|-------------|--------------|--------------------------------|---------|------|----------|-----------------|-----------------|
|             |              | Sampled: 08/10/99              |         |      |          |                 |                 |
|             |              | Filtration EPA 3005A: 08/16/99 |         |      |          |                 |                 |
|             |              | Mercury Digestion: 08/16/99    |         |      |          |                 |                 |
| <b>MW-5</b> | <b>Water</b> |                                |         |      |          |                 | <b>L12607-7</b> |
| Arsenic     |              | 0.15                           | 0.020   | mg/L | 08/18/99 | EPA 200.9       | D GCK           |
| Barium      |              | 0.946                          | 0.0010  | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Cadmium     |              | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Chromium    |              | ND                             | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Copper      |              | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Iron        |              | 0.033                          | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Lead        |              | ND                             | 0.025   | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Manganese   |              | 0.010                          | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  | D1 CV           |
| Mercury     |              | ND                             | 0.00020 | mg/L | 08/17/99 | EPA 245.1/7470A | JD              |
| Selenium    |              | ND                             | 0.020   | mg/L | 08/18/99 | EPA 200.9       | D GCK           |
| Silver      |              | ND                             | 0.0030  | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Zinc        |              | ND                             | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |

|              |              |                                |         |      |          |                 |                 |
|--------------|--------------|--------------------------------|---------|------|----------|-----------------|-----------------|
|              |              | Sampled: 08/11/99              |         |      |          |                 |                 |
|              |              | Filtration EPA 3005A: 08/16/99 |         |      |          |                 |                 |
|              |              | Mercury Digestion: 08/16/99    |         |      |          |                 |                 |
| <b>MW-13</b> | <b>Water</b> |                                |         |      |          |                 | <b>L12607-9</b> |
| Arsenic      |              | 0.365                          | 0.020   | mg/L | 08/18/99 | EPA 200.9       | D GCK           |
| Barium       |              | 0.467                          | 0.0010  | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Cadmium      |              | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Chromium     |              | ND                             | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Copper       |              | ND                             | 0.0020  | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Iron         |              | 0.293                          | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Lead         |              | ND                             | 0.025   | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Manganese    |              | 0.0060                         | 0.0050  | mg/L | 08/16/99 | EPA 200.7/6010  | D1 CV           |
| Mercury      |              | ND                             | 0.00020 | mg/L | 08/17/99 | EPA 245.1/7470A | JD              |
| Selenium     |              | ND                             | 0.020   | mg/L | 08/18/99 | EPA 200.9       | D GCK           |
| Silver       |              | ND                             | 0.0030  | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |
| Zinc         |              | ND                             | 0.010   | mg/L | 08/16/99 | EPA 200.7/6010  | CV              |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

## Dissolved Metals

| Sample ID | Matrix | Result | Reporting Limit | Units (ppm) | Date Analyzed | Method | Lab Number | Comment | Analyst |
|-----------|--------|--------|-----------------|-------------|---------------|--------|------------|---------|---------|
| Analyte   |        |        |                 |             |               |        |            |         |         |

|                   |              |                                |      |          |                 |  |    |     |  |
|-------------------|--------------|--------------------------------|------|----------|-----------------|--|----|-----|--|
|                   |              | Sampled: 08/11/99              |      |          |                 |  |    |     |  |
|                   |              | Filtration EPA 3005A: 08/16/99 |      |          |                 |  |    |     |  |
|                   |              | Mercury Digestion: 08/16/99    |      |          |                 |  |    |     |  |
| <b>WATER WELL</b> | <b>Water</b> | <b>L12607-10</b>               |      |          |                 |  |    |     |  |
| Arsenic           | ND           | 0.020                          | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |  |
| Barium            | 0.0238       | 0.0010                         | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Cadmium           | ND           | 0.0020                         | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Chromium          | ND           | 0.0050                         | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Copper            | ND           | 0.0020                         | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Iron              | 0.018        | 0.010                          | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Lead              | ND           | 0.025                          | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Manganese         | 0.014        | 0.0050                         | mg/L | 08/16/99 | EPA 200.7/6010  |  | D1 | CV  |  |
| Mercury           | ND           | 0.00020                        | mg/L | 08/17/99 | EPA 245.1/7470A |  |    | JD  |  |
| Selenium          | ND           | 0.020                          | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |  |
| Silver            | ND           | 0.0030                         | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Zinc              | 0.010        | 0.010                          | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |

|              |              |                                |      |          |                 |  |    |     |  |
|--------------|--------------|--------------------------------|------|----------|-----------------|--|----|-----|--|
|              |              | Sampled: 08/11/99              |      |          |                 |  |    |     |  |
|              |              | Filtration EPA 3005A: 08/16/99 |      |          |                 |  |    |     |  |
|              |              | Mercury Digestion: 08/16/99    |      |          |                 |  |    |     |  |
| <b>MW-10</b> | <b>Water</b> | <b>L12607-11</b>               |      |          |                 |  |    |     |  |
| Arsenic      | 0.040        | 0.020                          | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |  |
| Barium       | 11.3         | 0.0010                         | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Cadmium      | ND           | 0.0020                         | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Chromium     | ND           | 0.0050                         | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Copper       | ND           | 0.0020                         | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Iron         | 0.012        | 0.010                          | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Lead         | ND           | 0.025                          | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Manganese    | 4.37         | 0.0050                         | mg/L | 08/16/99 | EPA 200.7/6010  |  | D1 | CV  |  |
| Mercury      | ND           | 0.00020                        | mg/L | 08/17/99 | EPA 245.1/7470A |  |    | JD  |  |
| Selenium     | ND           | 0.020                          | mg/L | 08/18/99 | EPA 200.9       |  | D  | GCK |  |
| Silver       | ND           | 0.0030                         | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |
| Zinc         | ND           | 0.010                          | mg/L | 08/16/99 | EPA 200.7/6010  |  |    | CV  |  |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

## Dissolved Metals

| Sample ID | Matrix | Lab Number      |             |               |        |         |         |  |
|-----------|--------|-----------------|-------------|---------------|--------|---------|---------|--|
| Analyte   | Result | Reporting Limit | Units (ppm) | Date Analyzed | Method | Comment | Analyst |  |

|           |        |                                |      |          |                 |    |     |  |
|-----------|--------|--------------------------------|------|----------|-----------------|----|-----|--|
|           |        | Sampled: 08/11/99              |      |          |                 |    |     |  |
|           |        | Filtration EPA 3005A: 08/16/99 |      |          |                 |    |     |  |
|           |        | Mercury Digestion: 08/16/99    |      |          |                 |    |     |  |
| MW-8      | Water  | L12607-12                      |      |          |                 |    |     |  |
| Arsenic   | 0.352  | 0.020                          | mg/L | 08/18/99 | EPA 200.9       | D  | GCK |  |
| Barium    | 0.430  | 0.0010                         | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Cadmium   | ND     | 0.0020                         | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Chromium  | ND     | 0.0050                         | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Copper    | ND     | 0.0020                         | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Iron      | 0.268  | 0.010                          | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Lead      | ND     | 0.025                          | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Manganese | 0.0062 | 0.0050                         | mg/L | 08/16/99 | EPA 200.7/6010  | D1 | CV  |  |
| Mercury   | ND     | 0.00020                        | mg/L | 08/17/99 | EPA 245.1/7470A |    | JD  |  |
| Selenium  | ND     | 0.020                          | mg/L | 08/18/99 | EPA 200.9       | D  | GCK |  |
| Silver    | ND     | 0.0030                         | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Zinc      | ND     | 0.010                          | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |

|           |        |                                |      |          |                 |    |     |  |
|-----------|--------|--------------------------------|------|----------|-----------------|----|-----|--|
|           |        | Sampled: 08/11/99              |      |          |                 |    |     |  |
|           |        | Filtration EPA 3005A: 08/16/99 |      |          |                 |    |     |  |
|           |        | Mercury Digestion: 08/16/99    |      |          |                 |    |     |  |
| MW-9      | Water  | L12607-13                      |      |          |                 |    |     |  |
| Arsenic   | 0.200  | 0.020                          | mg/L | 08/18/99 | EPA 200.9       | D  | GCK |  |
| Barium    | 7.82   | 0.0010                         | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Cadmium   | ND     | 0.0020                         | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Chromium  | ND     | 0.0050                         | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Copper    | ND     | 0.0020                         | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Iron      | 0.075  | 0.010                          | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Lead      | ND     | 0.025                          | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Manganese | 0.0579 | 0.0050                         | mg/L | 08/16/99 | EPA 200.7/6010  | D1 | CV  |  |
| Mercury   | ND     | 0.00020                        | mg/L | 08/17/99 | EPA 245.1/7470A |    | JD  |  |
| Selenium  | ND     | 0.020                          | mg/L | 08/18/99 | EPA 200.9       | D  | GCK |  |
| Silver    | ND     | 0.0030                         | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |
| Zinc      | ND     | 0.010                          | mg/L | 08/16/99 | EPA 200.7/6010  |    | CV  |  |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

## Dissolved Metals

| <i>Sample ID</i> | <i>Matrix</i> |        |                 |             |               | <i>Lab Number</i> |
|------------------|---------------|--------|-----------------|-------------|---------------|-------------------|
| Analyte          |               | Result | Reporting Limit | Units (ppm) | Date Analyzed | Method            |
|                  |               |        |                 |             |               | Comment Analyst   |

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Client: **Enron Gas Pipeline Group**

Project: **Bell Lake**

Contact: **George Robinson**

## Inorganics

| Sample ID | Matrix | Result | Reporting Limit | Units (ppm) | Date Analyzed | Method | Lab Number | Comment | Analyst |
|-----------|--------|--------|-----------------|-------------|---------------|--------|------------|---------|---------|
|-----------|--------|--------|-----------------|-------------|---------------|--------|------------|---------|---------|

|                               |       |       |     |      |          |                      |                   |   |          |
|-------------------------------|-------|-------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-2                          | Water |       |     |      |          |                      | Sampled: 08/10/99 |   | L12607-1 |
| Chloride                      |       | 730   | 5.0 | mg/L | 08/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 1,750 | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   |   | CAC      |

|                               |       |       |     |      |          |                      |                   |   |          |
|-------------------------------|-------|-------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-1                          | Water |       |     |      |          |                      | Sampled: 08/10/99 |   | L12607-2 |
| Chloride                      |       | 2,600 | 10. | mg/L | 08/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 6,670 | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   |   | CAC      |

|                               |       |       |     |      |          |                      |                   |   |          |
|-------------------------------|-------|-------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-7                          | Water |       |     |      |          |                      | Sampled: 08/10/99 |   | L12607-3 |
| Chloride                      |       | 1,800 | 10. | mg/L | 08/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 3,900 | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   |   | CAC      |

|                               |       |      |     |      |          |                      |                   |   |          |
|-------------------------------|-------|------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-12                         | Water |      |     |      |          |                      | Sampled: 08/10/99 |   | L12607-4 |
| Chloride                      |       | 110  | 0.5 | mg/L | 08/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 400. | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   |   | CAC      |

|                               |       |       |     |      |          |                      |                   |   |          |
|-------------------------------|-------|-------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-11                         | Water |       |     |      |          |                      | Sampled: 08/10/99 |   | L12607-5 |
| Chloride                      |       | 4,900 | 20. | mg/L | 08/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 9,090 | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   |   | CAC      |

|                               |       |       |     |      |          |                      |                   |   |          |
|-------------------------------|-------|-------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-6                          | Water |       |     |      |          |                      | Sampled: 08/10/99 |   | L12607-6 |
| Chloride                      |       | 2,500 | 10. | mg/L | 08/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 5,120 | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   |   | CAC      |

|                               |       |       |     |      |          |                      |                   |   |          |
|-------------------------------|-------|-------|-----|------|----------|----------------------|-------------------|---|----------|
| MW-5                          | Water |       |     |      |          |                      | Sampled: 08/10/99 |   | L12607-7 |
| Chloride                      |       | 2,900 | 10. | mg/L | 08/19/99 | EPA 300.0            |                   | D | CAC      |
| Solids, Total Dissolved (TDS) |       | 6,850 | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   |   | CAC      |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

## Inorganics

| Sample ID | Matrix |                 |             |               |        | Lab Number      |
|-----------|--------|-----------------|-------------|---------------|--------|-----------------|
| Analyte   | Result | Reporting Limit | Units (ppm) | Date Analyzed | Method | Comment Analyst |

|                               |       |     |      |          |                      |                   |          |
|-------------------------------|-------|-----|------|----------|----------------------|-------------------|----------|
| MW-13                         | Water |     |      |          |                      | Sampled: 08/11/99 | L12607-9 |
| Chloride                      | 980   | 5.0 | mg/L | 08/19/99 | EPA 300.0            | D                 | CAC      |
| Solids, Total Dissolved (TDS) | 3,530 | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   | CAC      |

|                               |       |     |      |          |                      |                   |           |
|-------------------------------|-------|-----|------|----------|----------------------|-------------------|-----------|
| WATER WELL                    | Water |     |      |          |                      | Sampled: 08/11/99 | L12607-10 |
| Chloride                      | 110   | 0.5 | mg/L | 08/19/99 | EPA 300.0            | D                 | CAC       |
| Solids, Total Dissolved (TDS) | 830.  | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   | CAC       |

|                               |       |     |      |          |                      |                   |           |
|-------------------------------|-------|-----|------|----------|----------------------|-------------------|-----------|
| MW-10                         | Water |     |      |          |                      | Sampled: 08/11/99 | L12607-11 |
| Chloride                      | 3,000 | 10. | mg/L | 08/19/99 | EPA 300.0            | D                 | CAC       |
| Solids, Total Dissolved (TDS) | 5,220 | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   | CAC       |

|                               |       |     |      |          |                      |                   |           |
|-------------------------------|-------|-----|------|----------|----------------------|-------------------|-----------|
| MW-8                          | Water |     |      |          |                      | Sampled: 08/11/99 | L12607-12 |
| Chloride                      | 930   | 5.0 | mg/L | 08/19/99 | EPA 300.0            | D                 | CAC       |
| Solids, Total Dissolved (TDS) | 3,580 | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   | CAC       |

|                               |        |     |      |          |                      |                   |           |
|-------------------------------|--------|-----|------|----------|----------------------|-------------------|-----------|
| MW-9                          | Water  |     |      |          |                      | Sampled: 08/11/99 | L12607-13 |
| Chloride                      | 4,600  | 20. | mg/L | 08/19/99 | EPA 300.0            | D                 | CAC       |
| Solids, Total Dissolved (TDS) | 10,400 | 10. | mg/L | 08/16/99 | EPA 160.1 / SM 2540C |                   | CAC       |

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L12607

Client: **Enron Gas Pipeline Group**Project: **Bell Lake**Contact: **George Robinson****BTEX**  
by EPA 8021

| Sample ID | Matrix  |        |                 |             |         | Lab Number |
|-----------|---------|--------|-----------------|-------------|---------|------------|
| CAS       | Analyte | Result | Reporting Limit | Units (ppb) | Comment |            |

|             |               |                      |    |                                               |          |                 |
|-------------|---------------|----------------------|----|-----------------------------------------------|----------|-----------------|
| <b>MW-2</b> |               | <b>Water</b>         |    | Sampled: 08/10/99<br>Analyzed: 08/21/99 by WB |          | <b>L12607-1</b> |
| 71-43-2     | Benzene       | 2.                   | 2. | µg/L                                          |          |                 |
| 108-88-3    | Toluene       | ND                   | 2. | µg/L                                          |          |                 |
| 100-41-4    | Ethylbenzene  | ND                   | 2. | µg/L                                          |          |                 |
| 1330-20-7   | Total Xylenes | ND                   | 2. | µg/L                                          |          |                 |
|             |               | Surrogate            |    | Recovery                                      | Limit    |                 |
|             |               | Trifluorotoluene     |    | 86. %                                         | 50 - 150 |                 |
|             |               | 4-Bromofluorobenzene |    | MI                                            | 50 - 150 |                 |

|             |               |                      |    |                                               |          |                 |
|-------------|---------------|----------------------|----|-----------------------------------------------|----------|-----------------|
| <b>MW-1</b> |               | <b>Water</b>         |    | Sampled: 08/10/99<br>Analyzed: 08/21/99 by WB |          | <b>L12607-2</b> |
| 71-43-2     | Benzene       | 11.                  | 2. | µg/L                                          | P        |                 |
| 108-88-3    | Toluene       | 10.                  | 2. | µg/L                                          |          |                 |
| 100-41-4    | Ethylbenzene  | 11.                  | 2. | µg/L                                          |          |                 |
| 1330-20-7   | Total Xylenes | 7.                   | 2. | µg/L                                          |          |                 |
|             |               | Surrogate            |    | Recovery                                      | Limit    |                 |
|             |               | Trifluorotoluene     |    | 101. %                                        | 50 - 150 |                 |
|             |               | 4-Bromofluorobenzene |    | MI                                            | 50 - 150 |                 |

|             |               |                      |    |                                               |          |                 |
|-------------|---------------|----------------------|----|-----------------------------------------------|----------|-----------------|
| <b>MW-7</b> |               | <b>Water</b>         |    | Sampled: 08/10/99<br>Analyzed: 08/21/99 by WB |          | <b>L12607-3</b> |
| 71-43-2     | Benzene       | ND                   | 2. | µg/L                                          |          |                 |
| 108-88-3    | Toluene       | ND                   | 2. | µg/L                                          |          |                 |
| 100-41-4    | Ethylbenzene  | ND                   | 2. | µg/L                                          |          |                 |
| 1330-20-7   | Total Xylenes | ND                   | 2. | µg/L                                          |          |                 |
|             |               | Surrogate            |    | Recovery                                      | Limit    |                 |
|             |               | Trifluorotoluene     |    | 87. %                                         | 50 - 150 |                 |
|             |               | 4-Bromofluorobenzene |    | 112. %                                        | 50 - 150 |                 |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**BTEX**  
by EPA 8021

| <i>Sample ID</i> | <i>Matrix</i> |        |                 |             | <i>Lab Number</i> |
|------------------|---------------|--------|-----------------|-------------|-------------------|
| CAS              | Analyte       | Result | Reporting Limit | Units (ppb) | Comment           |

|              |               |                      |          |                          |          |
|--------------|---------------|----------------------|----------|--------------------------|----------|
| <b>MW-12</b> |               | <b>Water</b>         |          | Sampled: 08/10/99        |          |
|              |               |                      |          | Analyzed: 08/21/99 by WB |          |
|              |               |                      |          | <b>L12607-4</b>          |          |
| 71-43-2      | Benzene       | ND                   | 2.       | µg/L                     |          |
| 108-88-3     | Toluene       | ND                   | 2.       | µg/L                     |          |
| 100-41-4     | Ethylbenzene  | ND                   | 2.       | µg/L                     |          |
| 1330-20-7    | Total Xylenes | ND                   | 2.       | µg/L                     |          |
|              |               | Surrogate            | Recovery |                          | Limit    |
|              |               | Trifluorotoluene     | 85. %    |                          | 50 - 150 |
|              |               | 4-Bromofluorobenzene | 98. %    |                          | 50 - 150 |

|              |               |                      |          |                          |          |
|--------------|---------------|----------------------|----------|--------------------------|----------|
| <b>MW-11</b> |               | <b>Water</b>         |          | Sampled: 08/10/99        |          |
|              |               |                      |          | Analyzed: 08/23/99 by WB |          |
|              |               |                      |          | <b>L12607-5</b>          |          |
| 71-43-2      | Benzene       | 430                  | 10.      | µg/L                     |          |
| 108-88-3     | Toluene       | 370                  | 10.      | µg/L                     |          |
| 100-41-4     | Ethylbenzene  | 30.                  | 10.      | µg/L                     |          |
| 1330-20-7    | Total Xylenes | 640                  | 10.      | µg/L                     |          |
|              |               | Surrogate            | Recovery |                          | Limit    |
|              |               | Trifluorotoluene     | 80. %    |                          | 50 - 150 |
|              |               | 4-Bromofluorobenzene | MI       |                          | 50 - 150 |

|             |               |                      |          |                          |          |
|-------------|---------------|----------------------|----------|--------------------------|----------|
| <b>MW-6</b> |               | <b>Water</b>         |          | Sampled: 08/10/99        |          |
|             |               |                      |          | Analyzed: 08/21/99 by WB |          |
|             |               |                      |          | <b>L12607-6</b>          |          |
| 71-43-2     | Benzene       | 110                  | 2.       | µg/L                     |          |
| 108-88-3    | Toluene       | 68.                  | 2.       | µg/L                     |          |
| 100-41-4    | Ethylbenzene  | 110                  | 2.       | µg/L                     |          |
| 1330-20-7   | Total Xylenes | 360                  | 2.       | µg/L                     |          |
|             |               | Surrogate            | Recovery |                          | Limit    |
|             |               | Trifluorotoluene     | 87. %    |                          | 50 - 150 |
|             |               | 4-Bromofluorobenzene | MI       |                          | 50 - 150 |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**BTEX**  
by EPA 8021

| <i>Sample ID</i> | <i>Matrix</i> |        |                 |             | <i>Lab Number</i> |
|------------------|---------------|--------|-----------------|-------------|-------------------|
| CAS              | Analyte       | Result | Reporting Limit | Units (ppb) | Comment           |

|             |               |                      |          |                                               |          |          |
|-------------|---------------|----------------------|----------|-----------------------------------------------|----------|----------|
| <b>MW-5</b> |               | <b>Water</b>         |          | Sampled: 08/10/99<br>Analyzed: 08/21/99 by WB |          | L12607-7 |
| 71-43-2     | Benzene       | 82.                  | 2.       | µg/L                                          | P        |          |
| 108-88-3    | Toluene       | 76.                  | 2.       | µg/L                                          |          |          |
| 100-41-4    | Ethylbenzene  | 20.                  | 2.       | µg/L                                          |          |          |
| 1330-20-7   | Total Xylenes | 130                  | 2.       | µg/L                                          |          |          |
|             |               | Surrogate            | Recovery |                                               | Limit    |          |
|             |               | Trifluorotoluene     | MI       |                                               | 50 - 150 |          |
|             |               | 4-Bromofluorobenzene | MI       |                                               | 50 - 150 |          |

|                       |               |                      |          |                                               |          |          |
|-----------------------|---------------|----------------------|----------|-----------------------------------------------|----------|----------|
| <b>PURGE H2O 2/99</b> |               | <b>Water</b>         |          | Sampled: 08/10/99<br>Analyzed: 08/24/99 by WB |          | L12607-8 |
| 71-43-2               | Benzene       | ND                   | 2.       | µg/L                                          | P        |          |
| 108-88-3              | Toluene       | ND                   | 2.       | µg/L                                          |          |          |
| 100-41-4              | Ethylbenzene  | ND                   | 2.       | µg/L                                          |          |          |
| 1330-20-7             | Total Xylenes | ND                   | 2.       | µg/L                                          |          |          |
|                       |               | Surrogate            | Recovery |                                               | Limit    |          |
|                       |               | Trifluorotoluene     | 94. %    |                                               | 50 - 150 |          |
|                       |               | 4-Bromofluorobenzene | 107. %   |                                               | 50 - 150 |          |

|              |               |                      |          |                                               |          |          |
|--------------|---------------|----------------------|----------|-----------------------------------------------|----------|----------|
| <b>MW-13</b> |               | <b>Water</b>         |          | Sampled: 08/11/99<br>Analyzed: 08/21/99 by WB |          | L12607-9 |
| 71-43-2      | Benzene       | 86.                  | 2.       | µg/L                                          | P        |          |
| 108-88-3     | Toluene       | 110                  | 2.       | µg/L                                          |          |          |
| 100-41-4     | Ethylbenzene  | 10.                  | 2.       | µg/L                                          |          |          |
| 1330-20-7    | Total Xylenes | 160                  | 2.       | µg/L                                          |          |          |
|              |               | Surrogate            | Recovery |                                               | Limit    |          |
|              |               | Trifluorotoluene     | 74. %    |                                               | 50 - 150 |          |
|              |               | 4-Bromofluorobenzene | MI       |                                               | 50 - 150 |          |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**BTEX**  
by EPA 8021

| Sample ID | Matrix  |        |                 |             | Lab Number |
|-----------|---------|--------|-----------------|-------------|------------|
| CAS       | Analyte | Result | Reporting Limit | Units (ppb) | Comment    |

|                   |               |                      |                                               |          |          |                  |
|-------------------|---------------|----------------------|-----------------------------------------------|----------|----------|------------------|
| <b>WATER WELL</b> |               | <b>Water</b>         | Sampled: 08/11/99<br>Analyzed: 08/24/99 by WB |          |          | <b>L12607-10</b> |
| 71-43-2           | Benzene       | ND                   | 2.                                            | µg/L     |          |                  |
| 108-88-3          | Toluene       | ND                   | 2.                                            | µg/L     |          |                  |
| 100-41-4          | Ethylbenzene  | ND                   | 2.                                            | µg/L     |          |                  |
| 1330-20-7         | Total Xylenes | ND                   | 2.                                            | µg/L     |          |                  |
|                   |               | Surrogate            |                                               | Recovery | Limit    |                  |
|                   |               | Trifluorotoluene     |                                               | 91. %    | 50 - 150 |                  |
|                   |               | 4-Bromofluorobenzene |                                               | 125. %   | 50 - 150 |                  |

|              |               |                      |                                               |          |          |                  |
|--------------|---------------|----------------------|-----------------------------------------------|----------|----------|------------------|
| <b>MW-10</b> |               | <b>Water</b>         | Sampled: 08/11/99<br>Analyzed: 08/21/99 by WB |          |          | <b>L12607-11</b> |
| 71-43-2      | Benzene       | 33.                  | 2.                                            | µg/L     |          |                  |
| 108-88-3     | Toluene       | 7.                   | 2.                                            | µg/L     |          |                  |
| 100-41-4     | Ethylbenzene  | 3.                   | 2.                                            | µg/L     |          |                  |
| 1330-20-7    | Total Xylenes | 32.                  | 2.                                            | µg/L     |          |                  |
|              |               | Surrogate            |                                               | Recovery | Limit    |                  |
|              |               | Trifluorotoluene     |                                               | MI       | 50 - 150 |                  |
|              |               | 4-Bromofluorobenzene |                                               | MI       | 50 - 150 |                  |

|             |               |                      |                                               |          |          |                  |
|-------------|---------------|----------------------|-----------------------------------------------|----------|----------|------------------|
| <b>MW-8</b> |               | <b>Water</b>         | Sampled: 08/11/99<br>Analyzed: 08/23/99 by WB |          |          | <b>L12607-12</b> |
| 71-43-2     | Benzene       | 150                  | 10.                                           | µg/L     | P        |                  |
| 108-88-3    | Toluene       | 290                  | 10.                                           | µg/L     |          |                  |
| 100-41-4    | Ethylbenzene  | 12.                  | 10.                                           | µg/L     |          |                  |
| 1330-20-7   | Total Xylenes | 310                  | 10.                                           | µg/L     |          |                  |
|             |               | Surrogate            |                                               | Recovery | Limit    |                  |
|             |               | Trifluorotoluene     |                                               | 88. %    | 50 - 150 |                  |
|             |               | 4-Bromofluorobenzene |                                               | MI       | 50 - 150 |                  |

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L12607

Client: **Enron Gas Pipeline Group**Project: **Bell Lake**Contact: **George Robinson****BTEX**  
by EPA 8021

| <i>Sample ID</i> | <i>Matrix</i> |        |                 |             | <i>Lab Number</i> |
|------------------|---------------|--------|-----------------|-------------|-------------------|
| CAS              | Analyte       | Result | Reporting Limit | Units (ppb) | Comment           |

|             |                      |     |     |          |                          |
|-------------|----------------------|-----|-----|----------|--------------------------|
| <i>MW-9</i> | <i>Water</i>         |     |     |          |                          |
|             |                      |     |     |          | Sampled: 08/11/99        |
|             |                      |     |     |          | Analyzed: 08/23/99 by WB |
|             |                      |     |     |          | L12607-13                |
| 71-43-2     | Benzene              | 210 | 10. | µg/L     | P                        |
| 108-88-3    | Toluene              | 430 | 10. | µg/L     |                          |
| 100-41-4    | Ethylbenzene         | 20. | 10. | µg/L     |                          |
| 1330-20-7   | Total Xylenes        | 560 | 10. | µg/L     |                          |
|             | Surrogate            |     |     | Recovery | Limit                    |
|             | Trifluorotoluene     |     |     | 83. %    | 50 - 150                 |
|             | 4-Bromofluorobenzene |     |     | MI       | 50 - 150                 |

|                   |                      |    |    |          |                          |
|-------------------|----------------------|----|----|----------|--------------------------|
| <i>TRIP BLANK</i> | <i>Water</i>         |    |    |          |                          |
|                   |                      |    |    |          | Sampled: 08/11/99        |
|                   |                      |    |    |          | Analyzed: 08/24/99 by WB |
|                   |                      |    |    |          | L12607-14                |
| 71-43-2           | Benzene              | ND | 2. | µg/L     |                          |
| 108-88-3          | Toluene              | ND | 2. | µg/L     |                          |
| 100-41-4          | Ethylbenzene         | ND | 2. | µg/L     |                          |
| 1330-20-7         | Total Xylenes        | ND | 2. | µg/L     |                          |
|                   | Surrogate            |    |    | Recovery | Limit                    |
|                   | Trifluorotoluene     |    |    | 89. %    | 50 - 150                 |
|                   | 4-Bromofluorobenzene |    |    | 127. %   | 50 - 150                 |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Blank**  
**Inorganics - Waters (mg/L)**

| Analyte                             | Result | Reporting | Q | Date     |
|-------------------------------------|--------|-----------|---|----------|
|                                     |        | Limit     |   | Analyzed |
| Chloride .....                      | ND     | 0.1       |   | 08/19/99 |
| Solids, Total Dissolved (TDS) ..... | NA     | 10        |   | 08/16/99 |
| Comments:                           |        |           |   |          |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**LCSW**  
**Inorganics - Waters (mg/L)**

| Analyte | True Value | Result | % Recovery | % Limit | Date Analyzed |
|---------|------------|--------|------------|---------|---------------|
|---------|------------|--------|------------|---------|---------------|

|                                     |       |      |    |        |          |
|-------------------------------------|-------|------|----|--------|----------|
| Chloride .....                      | 10.00 | 9.69 | 97 | 90-110 | 08/19/99 |
| Solids, Total Dissolved (TDS) ..... | NA    | NA   | NA |        | 08/16/99 |

Comments:

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Duplicate**  
**Inorganics - Waters (mg/L)**

| Analyte                                                                                                                                                                                                          | Result | Duplicate<br>Result | Reporting<br>Limit | RPD | RPD<br>Limit | Q | Date<br>Analyzed |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------|--------------------|-----|--------------|---|------------------|
| Chloride .....                                                                                                                                                                                                   | 730    | 720                 | 5                  | 1   | 20           | A | 08/19/99         |
| Chloride .....                                                                                                                                                                                                   | 3000   | 3000                | 10                 | <1  | 20           | B | 08/19/99         |
| Solids, Total Dissolved (TDS) .....                                                                                                                                                                              | 810    | 820                 | 10                 | 1   | 20           | C | 08/16/99         |
| Solids, Total Dissolved (TDS) .....                                                                                                                                                                              | 3580   | 3600                | 10                 | 1   | 20           | D | 08/16/99         |
| <p>Comments: A = Chloride results for L12607-1 through -10.<br/>B = Chloride results for L12607-11 through -13.<br/>C = TDS results for L12607-1 through -11.<br/>D = TDS results for L12607-12 through -13.</p> |        |                     |                    |     |              |   |                  |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Spike**  
**Inorganics - Waters (mg/L)**

| Analyte | Spike<br>Result | Sample<br>Result | Spike<br>Added | %<br>Recovery | %<br>Limit | Q | Date<br>Analyzed |
|---------|-----------------|------------------|----------------|---------------|------------|---|------------------|
|---------|-----------------|------------------|----------------|---------------|------------|---|------------------|

|                                     |    |      |     |     |        |      |          |
|-------------------------------------|----|------|-----|-----|--------|------|----------|
| Chloride .....                      | 30 | 24   | 6   | 100 | 75-125 | A    | 08/19/99 |
| Chloride .....                      | NA | 3000 | 600 | NA  | 75-125 | B, ‡ | 08/19/99 |
| Solids, Total Dissolved (TDS) ..... | NA | NA   | NA  | NA  |        |      | 08/16/99 |

Comments: A = Chloride results for L12607-1 through -10.  
B = Chloride results for L12607-11 through -13.  
‡ QC limits do not apply when the sample result is equal to or greater than 4 times the spike amount added.

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Method Blank**  
**Metals / Dissolved (mg/L)**

| Analyte         | Result | Reporting<br>Limit | Q | Date<br>Analyzed |
|-----------------|--------|--------------------|---|------------------|
| Arsenic .....   | ND     | 0.0020             |   | 08/18/99         |
| Barium .....    | ND     | 0.0010             |   | 08/16/99         |
| Cadmium .....   | ND     | 0.0020             |   | 08/16/99         |
| Chromium .....  | ND     | 0.0050             |   | 08/16/99         |
| Copper .....    | ND     | 0.0020             |   | 08/16/99         |
| Iron .....      | ND     | 0.010              |   | 08/16/99         |
| Lead .....      | ND     | 0.025              |   | 08/16/99         |
| Manganese ..... | ND     | 0.0010             |   | 08/16/99         |
| Mercury .....   | ND     | 0.00020            |   | 08/17/99         |
| Selenium .....  | ND     | 0.0020             |   | 08/18/99         |
| Silver .....    | ND     | 0.0030             |   | 08/16/99         |
| Zinc .....      | ND     | 0.010              |   | 08/16/99         |
| Comments:       |        |                    |   |                  |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**LCSW**  
**Metals / Dissolved (mg/L)**

| Analyte                                          | True Value | Result  | % Recovery | % Limit | Date Analyzed |
|--------------------------------------------------|------------|---------|------------|---------|---------------|
| Arsenic .....                                    | 0.0400     | 0.0394  | 99         | 80-120  | 08/18/99      |
| Barium .....                                     | 0.500      | 0.492   | 98         | 80-120  | 08/16/99      |
| Cadmium .....                                    | 0.500      | 0.494   | 99         | 80-120  | 08/16/99      |
| Chromium .....                                   | 0.500      | 0.489   | 98         | 80-120  | 08/16/99      |
| Copper .....                                     | 0.500      | 0.486   | 97         | 80-120  | 08/16/99      |
| Iron .....                                       | 0.500      | 0.491   | 98         | 80-120  | 08/16/99      |
| Lead .....                                       | 0.500      | 0.491   | 98         | 80-120  | 08/16/99      |
| Manganese .....                                  | 0.500      | 0.494   | 99         | 80-120  | 08/16/99      |
| Mercury .....                                    | 0.00200    | 0.00231 | 116        | 80-120  | 08/17/99      |
| Selenium .....                                   | 0.010      | 0.010   | 100        | 80-120  | 08/18/99      |
| .....                                            | 0.500      | 0.491   | 98         | 80-120  | 08/16/99      |
| .....                                            | 0.500      | 0.482   | 96         | 80-120  | 08/16/99      |
| Comments LCSW = Laboratory Control Sample: Water |            |         |            |         |               |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Duplicate**  
**Metals / Dissolved (mg/L)**

| Analyte         | Result | Duplicate<br>Result | Reporting<br>Limit | RPD | RPD<br>Limit | Q | Date<br>Analyzed |
|-----------------|--------|---------------------|--------------------|-----|--------------|---|------------------|
| Arsenic .....   | 0.056  | 0.057               | 0.020              | 2   | 20           |   | 08/18/99         |
| Barium .....    | 0.280  | 0.284               | 0.0010             | 1   | 20           |   | 08/16/99         |
| Cadmium .....   | ND     | ND                  | 0.0020             | NA  | 20           |   | 08/16/99         |
| Chromium .....  | ND     | ND                  | 0.0050             | NA  | 20           |   | 08/16/99         |
| Copper .....    | ND     | ND                  | 0.0020             | NA  | 20           |   | 08/16/99         |
| Iron .....      | ND     | ND                  | 0.010              | NA  | 20           |   | 08/16/99         |
| Lead .....      | ND     | ND                  | 0.025              | NA  | 20           |   | 08/16/99         |
| Manganese ..... | 0.232  | 0.238               | 0.0050             | 3   | 20           |   | 08/16/99         |
| Mercury .....   | ND     | ND                  | 0.00020            | NA  | 20           |   | 08/17/99         |
| Selenium .....  | ND     | ND                  | 0.020              | NA  | 20           |   | 08/18/99         |
| Silver .....    | ND     | ND                  | 0.0030             | NA  | 20           |   | 08/16/99         |
| Zinc .....      | ND     | ND                  | 0.010              | NA  | 20           |   | 08/16/99         |

Comments:

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Spike**  
**Metals / Dissolved (mg/L)**

| Analyte | Spike<br>Result | Sample<br>Result | Spike<br>Added | %<br>Recovery | %<br>Limit | Q | Date<br>Analyzed |
|---------|-----------------|------------------|----------------|---------------|------------|---|------------------|
|---------|-----------------|------------------|----------------|---------------|------------|---|------------------|

|                 |        |       |         |     |        |  |          |
|-----------------|--------|-------|---------|-----|--------|--|----------|
| Arsenic .....   | 0.482  | 0.056 | 0.400   | 107 | 75-125 |  | 08/18/99 |
| Barium .....    | 2.13   | 0.280 | 2.00    | 93  | 75-125 |  | 08/16/99 |
| Cadmium .....   | 0.0457 | ND    | 0.0500  | 91  | 75-125 |  | 08/16/99 |
| Chromium .....  | 0.187  | ND    | 0.200   | 94  | 75-125 |  | 08/16/99 |
| Copper .....    | 0.229  | ND    | 0.250   | 92  | 75-125 |  | 08/16/99 |
| Iron .....      | 0.925  | ND    | 1.00    | 93  | 75-125 |  | 08/16/99 |
| Lead .....      | 0.464  | ND    | 0.500   | 93  | 75-125 |  | 08/16/99 |
| Manganese ..... | 2.79   | 0.232 | 2.50    | 102 | 75-125 |  | 08/16/99 |
| Mercury .....   | 0.0019 | ND    | 0.00200 | 95  | 75-125 |  | 08/17/99 |
| Selenium .....  | 0.10   | ND    | 0.10    | 100 | 75-125 |  | 08/18/99 |
| Vanadium .....  | 0.0408 | ND    | 0.0500  | 82  | 75-125 |  | 08/16/99 |
| Zinc .....      | 0.455  | ND    | 0.500   | 91  | 75-125 |  | 08/16/99 |

Comments:

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Method Blank**  
**BTEX/Water (ug/L)**

| Analyte                              | Result | Reporting         |   | Date     |
|--------------------------------------|--------|-------------------|---|----------|
|                                      |        | Limit             | Q | Analyzed |
| Benzene .....                        | ND     | 2                 |   | 08/21/99 |
| Toluene .....                        | ND     | 2                 |   |          |
| Ethylbenzene .....                   | ND     | 2                 |   |          |
| Xylenes .....                        | ND     | 2                 |   |          |
| <b>Surrogates</b>                    |        | <b>% Recovery</b> |   |          |
| Trifluorotoluene                     |        | 83                |   |          |
| Bromofluorobenzene                   |        | 95                |   |          |
| Comments: L12607-1,2,3,4,6,7,9 & 11. |        |                   |   |          |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Method Blank**  
**BTEX/Water (ug/L)**

| Analyte | Result | Reporting |   | Date     |
|---------|--------|-----------|---|----------|
|         |        | Limit     | Q | Analyzed |

|                    |    |   |  |          |
|--------------------|----|---|--|----------|
| Benzene .....      | ND | 2 |  | 08/23/99 |
| Toluene .....      | ND | 2 |  |          |
| Ethylbenzene ..... | ND | 2 |  |          |
| Xylenes .....      | ND | 2 |  |          |

| Surrogates        | % Recovery |
|-------------------|------------|
| Trifluorotoluene  | 100        |
| Monofluorobenzene | MI         |

Comments: L12607-5,12 &amp; 13.

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Method Blank**  
**BTEX/Water (ug/L)**

| Analyte                     | Result | Reporting         |   | Date      |
|-----------------------------|--------|-------------------|---|-----------|
|                             |        | Limit             | Q | Analyzed  |
| Benzene .....               | ND     | 2                 |   | 08/24/99. |
| Toluene .....               | ND     | 2                 |   |           |
| Ethylbenzene .....          | ND     | 2                 |   |           |
| Xylenes .....               | ND     | 2                 |   |           |
| <b>Surrogates</b>           |        | <b>% Recovery</b> |   |           |
| Trifluorotoluene            |        | 86                |   |           |
| Bromofluorobenzene          |        | 112               |   |           |
| Comments: L12607-8,10 & 14. |        |                   |   |           |

**OREGON ANALYTICAL LABORATORY**

A Division of Portland General Electric  
14855 S.W. Scholls Ferry Road, Beaverton, OR 97007  
Phone 503-590-5300 • Fax 503-590-1404  
www.oalab.com/oal • Toll-Free 1-800-644-0967



L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**LCS**  
**BTEX/Water (ug/L)**

| Analyte | Result | True Value | % Recovery | Q | Date     |
|---------|--------|------------|------------|---|----------|
|         |        |            |            |   | Analyzed |

|                    |      |      |    |  |          |
|--------------------|------|------|----|--|----------|
| Benzene .....      | 9.3  | 10.0 | 93 |  | 08/10/99 |
| Toluene .....      | 9.5  | 10.0 | 95 |  |          |
| Ethylbenzene ..... | 9.6  | 10.0 | 96 |  |          |
| Xylenes .....      | 29.5 | 30.0 | 98 |  |          |

| Surrogates         | % Recovery |
|--------------------|------------|
| Trifluorotoluene   | 93         |
| Bromofluorobenzene | 97         |

Comments: L12607-1 through 3.

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**LCS**  
**BTEX/Water (ug/L)**

| Analyte                        | Result | True Value        | % Recovery | Q | Date Analyzed |
|--------------------------------|--------|-------------------|------------|---|---------------|
|                                |        |                   |            |   |               |
| Benzene .....                  | 9.7    | 10.0              | 97         |   | 08/21/99      |
| Toluene .....                  | 9.8    | 10.0              | 98         |   |               |
| Ethylbenzene .....             | 9.8    | 10.0              | 98         |   |               |
| Xylenes .....                  | 30.0   | 30.0              | 100        |   |               |
|                                |        |                   |            |   |               |
| <b>Surrogates</b>              |        | <b>% Recovery</b> |            |   |               |
| Trifluorotoluene               |        | 90                |            |   |               |
| Bromofluorobenzene             |        | 93                |            |   |               |
|                                |        |                   |            |   |               |
| Comments: L12607-4 through 14. |        |                   |            |   |               |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**MS**  
**BTEX/Water (ug/L)**

| Analyte | Sample Result | MS Result | True Value | % Recovery | Q | Date Analyzed |
|---------|---------------|-----------|------------|------------|---|---------------|
|---------|---------------|-----------|------------|------------|---|---------------|

|                    |      |      |      |    |  |          |
|--------------------|------|------|------|----|--|----------|
| Benzene .....      | 11   | 498  | 500  | 97 |  | 08/10/99 |
| Toluene .....      | 481  | 969  | 500  | 98 |  |          |
| Ethylbenzene ..... | 929  | 1400 | 500  | 94 |  |          |
| Xylenes .....      | 4950 | 5930 | 1500 | 65 |  |          |

|                    | % Recovery | % Recovery |
|--------------------|------------|------------|
| Surrogates         | Sample     | MS         |
| Trifluorotoluene   | 88         | 97         |
| Bromofluorobenzene | 90         | 92         |

Comments: L12607-1 through 3.

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**MS**  
**BTEX/Water (ug/L)**

| Analyte | Sample<br>Result | MS<br>Result | True Value | % Recovery | Q | Date<br>Analyzed |
|---------|------------------|--------------|------------|------------|---|------------------|
|---------|------------------|--------------|------------|------------|---|------------------|

|                    |    |      |      |    |  |          |
|--------------------|----|------|------|----|--|----------|
| Benzene .....      | ND | 9.5  | 10.0 | 95 |  | 08/21/99 |
| Toluene .....      | ND | 9.5  | 10.0 | 95 |  |          |
| Ethylbenzene ..... | ND | 9.5  | 10.0 | 95 |  |          |
| Xylenes .....      | ND | 28.9 | 30.0 | 96 |  |          |

| Surrogates         | % Recovery<br>Sample | % Recovery<br>MS |
|--------------------|----------------------|------------------|
|                    |                      |                  |
| Trifluorotoluene   | 85                   | 89               |
| Bromofluorobenzene | 98                   | 92               |

Comments: L12607-4 through 14.

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Duplicate**  
**BTEX/Water (ug/L)**

| Analyte | Result | Duplicate | RPD | Reporting | Q | Date     |
|---------|--------|-----------|-----|-----------|---|----------|
|         |        | Result    |     | Limit     |   | Analyzed |

|                    |    |    |    |   |  |          |
|--------------------|----|----|----|---|--|----------|
| Benzene .....      | ND | ND | NA | 2 |  | 08/18/99 |
| Toluene .....      | ND | ND | NA | 2 |  |          |
| Ethylbenzene ..... | ND | ND | NA | 2 |  |          |
| Xylenes .....      | ND | ND | NA | 2 |  |          |

| Surrogates         | % Recovery | % Recovery |
|--------------------|------------|------------|
|                    | Sample     | Duplicate  |
| Fluorotoluene      | 97         | 101        |
| Bromofluorobenzene | 115        | 118        |

Comments: L12607-1 through 3.

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Duplicate**  
**BTEX/Water (ug/L)**

| Analyte                        | Result     | Duplicate<br>Result | RPD | Reporting<br>Limit | Q | Date<br>Analyzed |
|--------------------------------|------------|---------------------|-----|--------------------|---|------------------|
| Benzene .....                  | ND         | ND                  | NA  | 2                  |   | 08/21/99         |
| Toluene .....                  | ND         | ND                  | NA  | 2                  |   |                  |
| Ethylbenzene .....             | ND         | ND                  | NA  | 2                  |   |                  |
| Xylenes .....                  | ND         | ND                  | NA  | 2                  |   |                  |
| <br>                           |            |                     |     |                    |   |                  |
| Surrogates                     | % Recovery | % Recovery          |     |                    |   |                  |
|                                | Sample     | Duplicate           |     |                    |   |                  |
| Trifluorotoluene               | 85         | 87                  |     |                    |   |                  |
| Bromofluorobenzene             | 98         | 99                  |     |                    |   |                  |
| <br>                           |            |                     |     |                    |   |                  |
| Comments: L12607-4 through 13. |            |                     |     |                    |   |                  |

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L12607

Client: **Enron Gas Pipeline Group**  
Contact: **George Robinson**

Project: **Bell Lake**

**Batch Q.C.**  
**Duplicate**  
**BTEX/Water (ug/L)**

| Analyte | Result | Duplicate<br>Result | RPD | Reporting<br>Limit | Q | Date<br>Analyzed |
|---------|--------|---------------------|-----|--------------------|---|------------------|
|---------|--------|---------------------|-----|--------------------|---|------------------|

|                    |    |    |    |   |  |          |
|--------------------|----|----|----|---|--|----------|
| Benzene .....      | ND | ND | NA | 2 |  | 08/21/99 |
| Toluene .....      | ND | ND | NA | 2 |  |          |
| Ethylbenzene ..... | ND | ND | NA | 2 |  |          |
| Xylenes .....      | ND | ND | NA | 2 |  |          |

| Surrogates         | % Recovery<br>Sample | % Recovery<br>Duplicate |
|--------------------|----------------------|-------------------------|
| Fluorotoluene      | 89                   | 85                      |
| Bromofluorobenzene | 127                  | 119                     |

Comments: L12607-14.

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## CHAIN OF CUSTODY RECORD LABORATORY ANALYSIS REQUEST

Sampling: ☒ Grab ☐ Comp  
OAL hrs. \_\_\_\_\_  
ISCO \_\_\_\_\_

Page 1 of 1  
Site Visit ☐

**Client Information**  
Company CYPRESS ENGINEERING  
Contact SANDY SHARP  
Address 10335 WEST LITTLE ROCK STE  
HOUSTON TX 77040  
Phone # 713 466 7252 Fax # 713 466 7252

**Billing Information**  
Company ENLON  
Contact JO GEORGE ROBINSON  
Address SAME  
Phone # 713 277 1327 Fax # 713 277 1327

**Project Information**  
Project Name TRANSWESTERN PIPELINE  
Project # BELL LAKE  
P.O. # \_\_\_\_\_  
Comments 1 OF 2 COVERS

Sampler's Name SANDY SHARP  
Signature [Signature]  
Quote # \_\_\_\_\_  
NOTE: If quote number is not referenced, standard pricing will be applied.  
Provide Fax Results ☒ Yes ☐ No

| Remarks               |                |         |      |          | # of Containers | Matrix |                                 |      | Analyses |                         |                             |                          |                   |                                  |               |            |                                                                    |                       |            |                                               | Turnaround | Remarks |                                             |                                              |
|-----------------------|----------------|---------|------|----------|-----------------|--------|---------------------------------|------|----------|-------------------------|-----------------------------|--------------------------|-------------------|----------------------------------|---------------|------------|--------------------------------------------------------------------|-----------------------|------------|-----------------------------------------------|------------|---------|---------------------------------------------|----------------------------------------------|
| Sample Identification |                |         |      | Date     |                 | Time   | FOR LAB USE ONLY<br>OAL LogIn # | Soil | Water    | Other (Note in Remarks) |                             |                          |                   |                                  |               |            |                                                                    |                       |            |                                               |            |         |                                             |                                              |
|                       |                |         |      |          |                 |        |                                 |      |          |                         | Volatiles 624 / 8250 / 8240 | Semivolatiles 625 / 8270 | PAH(SIM) PAH 8310 | Organochlorine 608 / 8080 / 8081 | PCB Pesticide | NW TPH-HCD | Quantity? <input type="checkbox"/> Yes <input type="checkbox"/> No | NW TPH Quantification | G D 418.1M | STEX 302 / 8020 <input type="checkbox"/> MTBE |            |         | Oil & Grease <input type="checkbox"/> Total | TPH 413.1 / 1664 <input type="checkbox"/> NP |
| 1                     | MW-2           | 8/10/99 | 1045 | L12607-1 | 5               | X      |                                 |      |          |                         |                             |                          |                   |                                  |               |            |                                                                    |                       | 3/6        | 1/P                                           | 1/P        | N       |                                             |                                              |
| 2                     | MW-1           | 8/10/99 | 1335 | -2       | 5               | X      |                                 |      |          |                         |                             |                          |                   |                                  |               |            |                                                                    |                       | 3/6        | 1/P                                           | 1/P        | N       |                                             |                                              |
| 3                     | MW-7           | 8/10/99 | 1425 | -3       | 5               | X      |                                 |      |          |                         |                             |                          |                   |                                  |               |            |                                                                    |                       | 3/6        | 1/P                                           | 1/P        | N       |                                             |                                              |
| 4                     | MW-17          | 8/10/99 | 1530 | -4       | 5               | X      |                                 |      |          |                         |                             |                          |                   |                                  |               |            |                                                                    |                       | 3/6        | 1/P                                           | 1/P        | N       |                                             |                                              |
| 5                     | MW-10          | 8/10/99 | 1630 | -5       | 5               | X      |                                 |      |          |                         |                             |                          |                   |                                  |               |            |                                                                    |                       | 3/6        | 1/P                                           | 1/P        | N       | per sandy sharp                             |                                              |
| 6                     | MW-6           | 8/10/99 | 1720 | -6       | 5               | X      |                                 |      |          |                         |                             |                          |                   |                                  |               |            |                                                                    |                       | 3/6        | 1/P                                           | 1/P        | N       | ID is MW-11                                 |                                              |
| 7                     | MW-5           | 8/10/99 | 1805 | -7       | 5               | X      |                                 |      |          |                         |                             |                          |                   |                                  |               |            |                                                                    |                       | 3/6        | 1/P                                           | 1/P        | N       | 8/12/99                                     |                                              |
| 8                     | PURGE 120 2/99 | 8/10/99 | 1845 | -8       | 3               | X      |                                 |      |          |                         |                             |                          |                   |                                  |               |            |                                                                    |                       | 3/6        |                                               |            | N       | - DGM                                       |                                              |
| 9                     |                |         |      |          |                 |        |                                 |      |          |                         |                             |                          |                   |                                  |               |            |                                                                    |                       |            |                                               |            |         |                                             |                                              |

**Relinquished**  
Signature [Signature] Date 8/10/99  
Print Name SANDY SHARP Time 0650  
Company CYPRESS  
**Received**  
Signature Cathy Evans Date 8-12-99  
Print Name \_\_\_\_\_ Time 1430  
Company OAC

**Relinquished**  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_  
**Received**  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_

**Relinquished**  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_  
**Received**  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_

☐ Courier ☐ UPS ☒ FedEx ☐ Other  
Received @ 12 °C  
Appropriate Containers ☐ Yes ☐ No  
\_\_\_\_ 4oz./8oz. Jars  
\_\_\_\_ VOA Vials  
\_\_\_\_ Plastic Bottles  
\_\_\_\_ Glass Bottles  
\_\_\_\_ Other \_\_\_\_\_



**Oregon  
Analytical  
Laboratory**

14855 SW Scholls Ferry Rd  
Beaverton OR 97007  
(503) 590-5300  
FAX (503) 590-1404  
1-800-644-0967

## CHAIN OF CUSTODY RECORD LABORATORY ANALYSIS REQUEST

Sampling: ☒ Grab ☐ Comp ☐ of ☐  
OAL Hours \_\_\_\_\_ Site Visit ☐  
ISCO \_\_\_\_\_  
www.oalab.com/oal

### Client Information

Company CYPRESS ENGINEERING  
Contact SANDY SHARP  
Address 10235 WEST LITTLE YORK STREET  
HOUSTON TX 77040  
Phone # 281-646-7252 Fax # 281-646-7252

### Billing Information

Company ENRON  
Contact % GEORGE ROBINSON  
Address 5400  
Phone # 713-277-3727 Fax # 713-277-3767

### Project Information

Project Name TRANSESTERIFICATION  
Project # BELL LAKE  
P.O. # \_\_\_\_\_  
Comments 2<sup>ND</sup> COOLER (LAST ONE THIS SITE)

Sampler's Name SANDY SHARP

Signature [Signature]

Quote # \_\_\_\_\_

NOTE: If quote number is not referenced,  
standard pricing will be applied.

Provide Fax Results ☒ Yes ☐ No

### Remarks

|                       |            |        |      | Matrix              |      | Analyses                        |                 |      |       |                         |                                            |                                                 |                                               |                                                                                   |                                   |                                                                                       |                                                                                                                                                                          |               |
|-----------------------|------------|--------|------|---------------------|------|---------------------------------|-----------------|------|-------|-------------------------|--------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Sample Identification |            |        |      | Date                | Time | FOR LAB USE ONLY<br>OAL Login # | # of Containers | Soil | Water | Other (Note in Remarks) | Volatiles 620 / 8260 / 8240<br>8010 / 8020 | SemiVolatiles 625 / 8270<br>PAH(SM)8270 PAH8310 | Organochlor Pest 608 / 8081<br>PCB 608 / 8082 | NW TPH-HCID<br>Quantity? <input type="checkbox"/> Yes <input type="checkbox"/> No | NW TPH Quantification<br>GX DXOIL | BTEX 602 / 8021 <input type="checkbox"/> MTBE<br><input type="checkbox"/> Naphthalene | Metals <u>FIELD IN LAB</u><br><input type="checkbox"/> Total <input type="checkbox"/> TCLP <input type="checkbox"/> Dissolved<br>As Pb Cd Cr Cu Hg Mn Zn<br>Co Fe Ni V W | TDS, CHLORIDE |
| 1                     | MW-13      | 8/1/99 | 0800 | <del>L12607-9</del> | 5    | X                               |                 |      |       |                         |                                            |                                                 |                                               |                                                                                   |                                   | 3/6                                                                                   | 1/6                                                                                                                                                                      | 4/6           |
| 2                     | WATER WELL | 8/1/99 | 0845 | <del>---</del>      | 5    | X                               |                 |      |       |                         |                                            |                                                 |                                               |                                                                                   |                                   | 3/6                                                                                   | 1/6                                                                                                                                                                      | 4/6           |
| 3                     | MW-10      | 8/1/99 | 0930 | <del>---</del>      | 5    | X                               |                 |      |       |                         |                                            |                                                 |                                               |                                                                                   |                                   | 3/6                                                                                   | 1/6                                                                                                                                                                      | 4/6           |
| 4                     | MW-8       | 8/1/99 | 1025 | <del>---</del>      | 5    | X                               |                 |      |       |                         |                                            |                                                 |                                               |                                                                                   |                                   | 3/6                                                                                   | 1/6                                                                                                                                                                      | 4/6           |
| 5                     | MW-9       | 8/1/99 | 1130 | <del>---</del>      | 5    | X                               |                 |      |       |                         |                                            |                                                 |                                               |                                                                                   |                                   | 3/6                                                                                   | 1/6                                                                                                                                                                      | 4/6           |
| 6                     | TRIP BLANK |        |      | <del>---</del>      | 3    | X                               |                 |      |       |                         |                                            |                                                 |                                               |                                                                                   |                                   | 3/6                                                                                   |                                                                                                                                                                          |               |
| 7                     |            |        |      |                     |      |                                 |                 |      |       |                         |                                            |                                                 |                                               |                                                                                   |                                   |                                                                                       |                                                                                                                                                                          |               |
| 8                     |            |        |      |                     |      |                                 |                 |      |       |                         |                                            |                                                 |                                               |                                                                                   |                                   |                                                                                       |                                                                                                                                                                          |               |
| 9                     |            |        |      |                     |      |                                 |                 |      |       |                         |                                            |                                                 |                                               |                                                                                   |                                   |                                                                                       |                                                                                                                                                                          |               |

[N] Normal - 10 working days  
[S] Special - 5 working days  
[R] Rush - 24-72 hrs  
[O] Other - \_\_\_\_\_

| Turnaround | Remarks  |
|------------|----------|
| N          | L12607-9 |
| N          | -10      |
| N          | -11      |
| N          | -12      |
| N          | -13      |
| N          | -14      |

| Relinquished                     |                     |
|----------------------------------|---------------------|
| Signature <u>[Signature]</u>     | Date <u>8-11-99</u> |
| Print Name <u>GEORGE FAIRMAN</u> | Time <u>0730</u>    |
| Company <u>CEC</u>               |                     |
| Received                         |                     |
| Signature <u>Cathy Eugene</u>    | Date <u>8-13-99</u> |
| Print Name <u>Cathy Eugene</u>   | Time <u>1000</u>    |
| Company <u>OAC</u>               |                     |

| Relinquished     |            |
|------------------|------------|
| Signature _____  | Date _____ |
| Print Name _____ | Time _____ |
| Company _____    |            |
| Received         |            |
| Signature _____  | Date _____ |
| Print Name _____ | Time _____ |
| Company _____    |            |

| Relinquished     |            |
|------------------|------------|
| Signature _____  | Date _____ |
| Print Name _____ | Time _____ |
| Company _____    |            |
| Received         |            |
| Signature _____  | Date _____ |
| Print Name _____ | Time _____ |
| Company _____    |            |

☐ Courier ☐ UPS ☒ FedEx ☐ Other

Received @ 6 °C

Appropriate Containers ☒ Yes ☐ No

4oz./8oz. Jars \_\_\_\_\_

18 VOA Vials \_\_\_\_\_

10 Plastic Bottles 1

Glass Bottles \_\_\_\_\_

Other \_\_\_\_\_