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June 29, 2010

Mr. Glenn von Gonten  
Environmental Bureau  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

RE: Report of Groundwater Remediation Activities  
Transwestern Pipeline Company  
Thoreau Compressor Station  
McKinley County, New Mexico  
Case # GW-080

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Dear Glenn,

The enclosed Report of Groundwater Remediation Activities is submitted for your review and files. This report presents a summary of groundwater monitoring and remediation activities completed since the last report of remediation activities.

If you have any questions or comments regarding this report, please contact me at (281) 797-3420.

Sincerely,

George Robinson  
President/Principal Engineer

xc w/attachment: Patrick Antonio  
Brandon Powell  
Richard Spell  
Larry Campbell  
Charlie Allen

NNEPA  
NMOCD Aztec District Office  
Transwestern Pipeline Company  
Transwestern Pipeline Company  
Transwestern Pipeline Company

# **Report of Groundwater Remediation Activities**

**Transwestern Pipeline Company  
Thoreau Compressor Station  
McKinley County, New Mexico**

**CASE # GW-080**

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

**February 28, 2010**

**Prepared For:  
Transwestern Pipeline Company  
6381 North Main Street  
Roswell, NM 88201**

**Prepared by:  
Cypress Engineering Services, Inc.  
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Houston, Texas 77095**

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## **1. Introduction**

The last report of groundwater remediation activities covered activities completed through December 2008. This report presents a summary of monitoring and remediation activities completed between January 2009 through December 2009.

## **2. Groundwater Monitoring Activities**

### **2.1 Groundwater Sampling Events**

One annual sampling event was completed since the last report of remediation activities. This event was completed on August 04, 2009.

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

In the course of each sample event, groundwater samples were collected from selected monitoring wells at the site. Groundwater samples were delivered to a laboratory for analysis by EPA Method 8021B for benzene, toluene, ethylbenzene, and xylenes (BTEX), and PCB by EPA Method 8082 in accordance with the sampling analysis plan. A summary of field measured groundwater quality parameters (pH, temperature, electrical conductivity, and dissolved oxygen) obtained in the course of sampling is presented in Table 2. An updated summary of analytical results for BTEX and PCB compounds is presented in Tables 3 and 4, respectively. An updated summary of the quality assurance program results is presented in Table 5. A copy of the laboratory report for the annual groundwater sampling event is included in an appendix to this report.

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

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

A water table elevation map based on measurements obtained in the course of the August 2009 sampling event is included as Figure 3. The apparent direction of groundwater flow is consistent with water table elevation maps previously developed for this site.

Hydrographs for monitor wells 5-03B and 5-23B are included as Figures 6 and 7, respectively. The water table elevation continues to decline as it has since 1993.

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

The lateral extent of PSH is currently defined by the periodic occurrence of PSH at the water table in wells MW 5-34B, MW 5-02C and SVE-3, and the absence of PSH in all other wells. On August 04, 2009, 0.01 feet of accumulated PSH was measured in well MW 5-34B, a sheen of PSH was indicated in well MW 5-02C after purging 0.75 gallons of water, and there was no indication of PSH in well SVE-3.

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

The primary constituents of concern are benzene and PCBs. The distribution of benzene in groundwater is presented in Figure 4. In general, the concentration of benzene in groundwater has shown a downward trend across the site, particularly at the perimeter of the contaminant plume. Elevated concentrations of benzene persist near the center of the plume.

The detection of low concentrations of PCBs has continued for samples collected from monitoring wells 5-6C, and 5-59. PCBs have not been detected in samples collected from well 5-1C since May 21, 2003. PCBs have not been detected in samples collected from well 5-60 located just 20 feet west of well 5-6C. In addition, PCBs have not been detected in samples collected from well 5-17B located 100 feet downgradient of well 5-6C.

## **3. Status of Remediation Activities**

### **3.1 Remediation Activities Completed through December 2009**

The following remediation activities have been completed since the last report of groundwater remediation activities:

- 1) Operation of the SVE system is limited to the warmer weather months because condensed water collecting in the SVE conveyance lines during cold weather make the system ineffective. The SVE system was restarted on May 8, 2009 and shut-down on October 20, 2009. A copy of the routine operation and maintenance reports for the SVE system are included in an appendix to this report.
- 2) Six vapor samples were collected from the SVE system since the last report. A summary of the laboratory results is presented in Table 8. Laboratory results for SVE system air samples indicate that the SVE system is removing natural gas condensate from the ground at an estimated rate of 13 gallons equivalent per month.

### **3.2 Remediation Activities Planned for 2010**

The SVE system will be operated from May through October 2010.

## **4. Planned Modifications**

### **4.1 Planned Modifications to the Routine Groundwater Sampling Plan**

The sampling analysis plan (SAP) has been modified from the previous year's SAP. Annual sampling will continue in accordance with the SAP presented in Table 6.

Four monitoring wells have been removed from the SAP. Well MW-48 has been removed from the SAP because there is no longer sufficient water in the well for collection of a sample. Three wells (wells MW-1C, MW-17B, and MW-60B) have been removed from the SAP because these are clean wells and are not useful for monitoring contaminant concentrations within the contaminant plume.

Two monitoring wells have been added to the SAP. Well SVE-3 has been added to provide a sampling point near the center of the contaminant plume in the vicinity of well MW-48. Well

MW-35B has been added to provide a sampling point near the upgradient portion of the contaminant plume.

## **4.2 Planned Modifications to the Remediation System**

### ***4.2.1 Physical Modifications to the System***

There are no planned physical modifications to the remediation system.

### ***4.2.2 Operational Modifications to the System***

There are no planned operational modifications to the remediation system.

## **4.3 Planned Reporting Frequency**

Reporting will continue to be done on an annual basis.

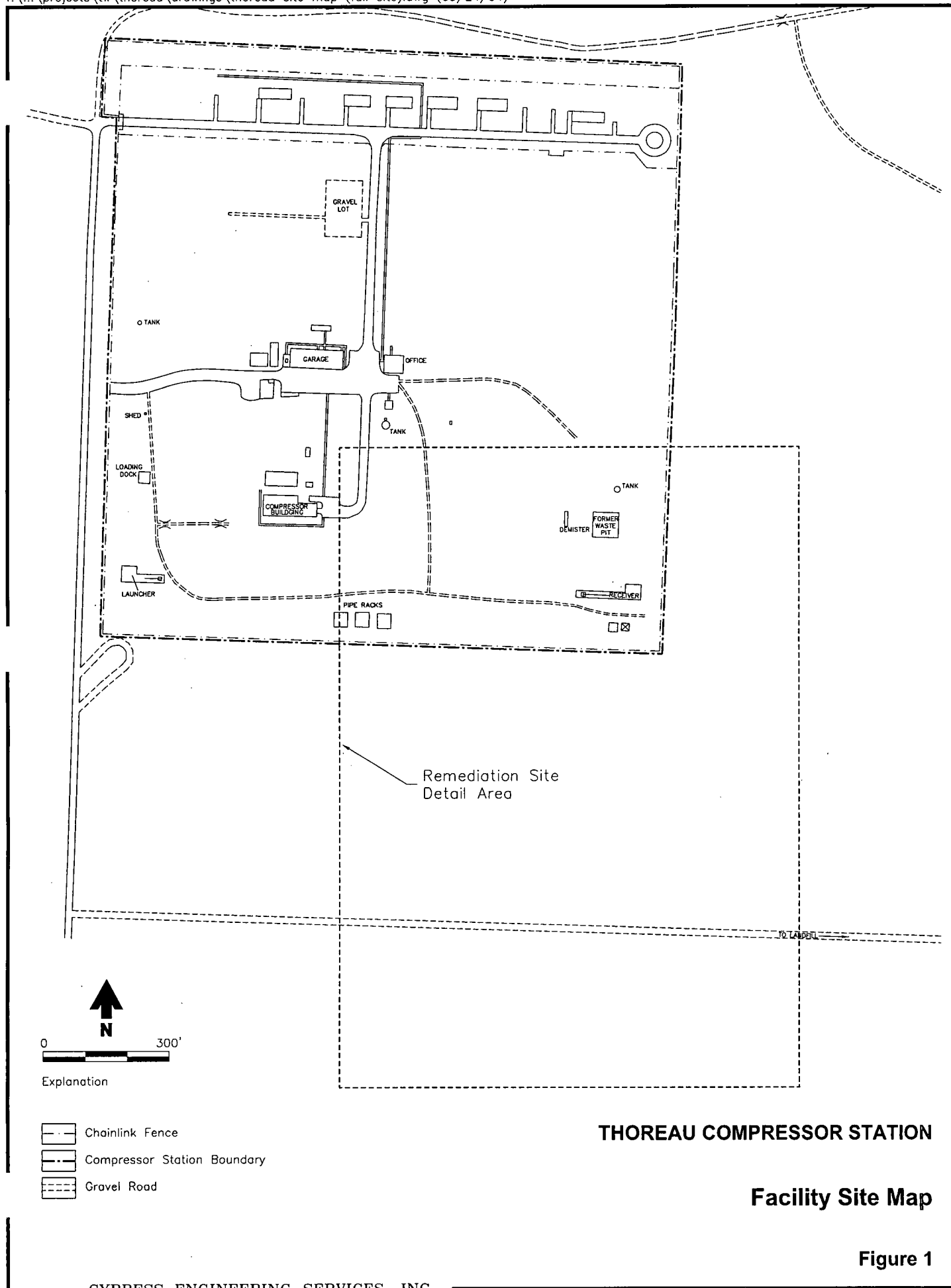
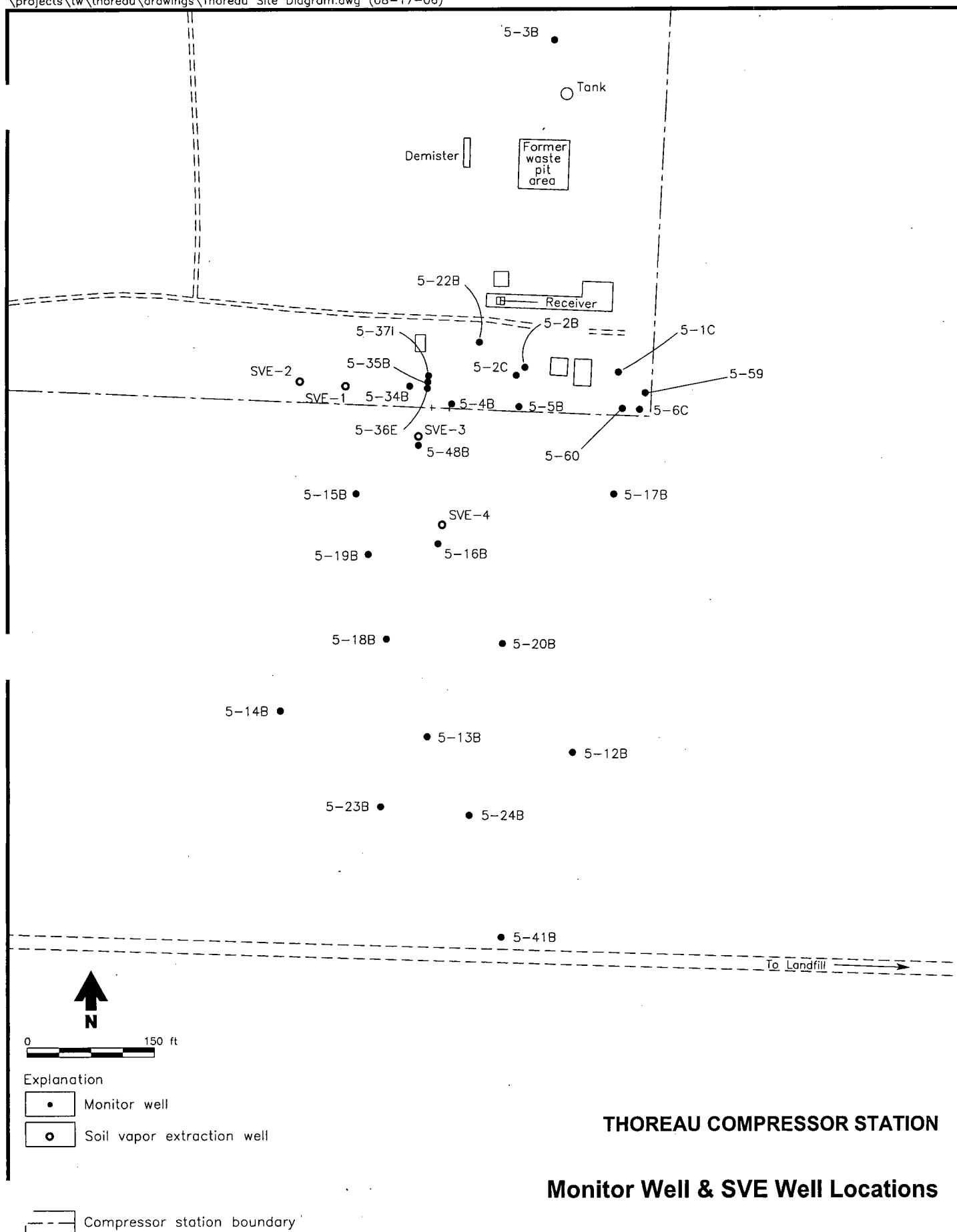
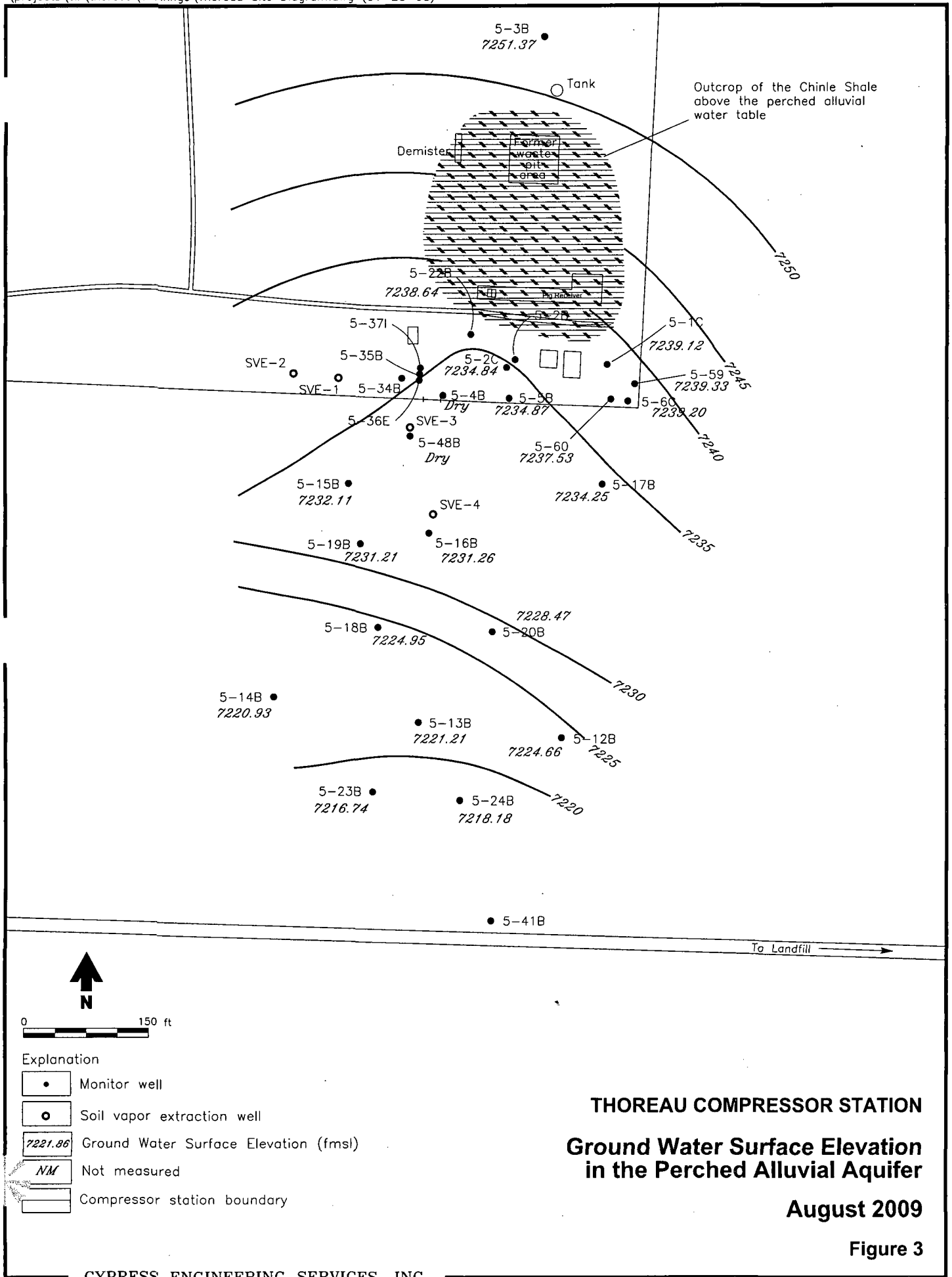
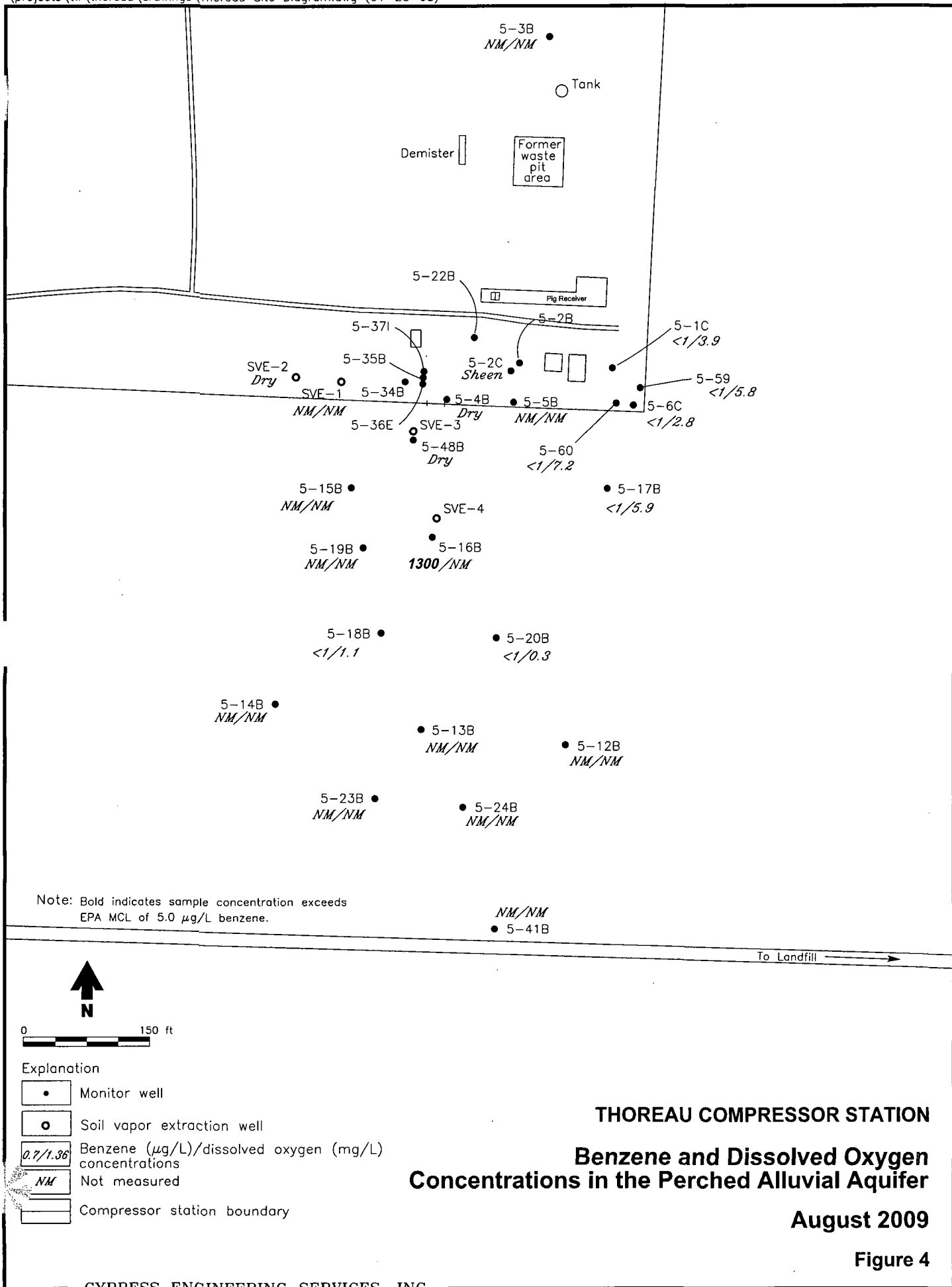


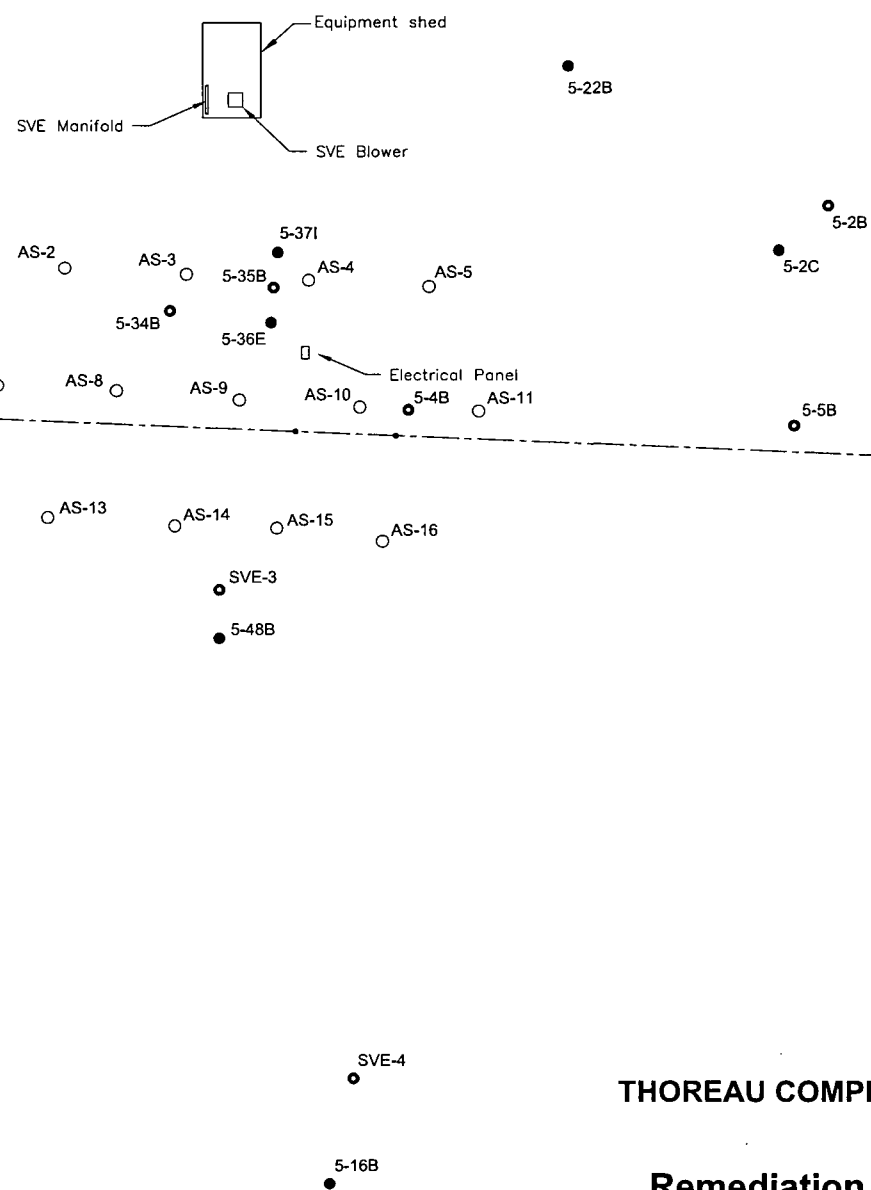
Figure 1



### Figure 2





**Explanation**

-  SVE well
-  Air sparge well
-  Monitor well
-  Compressor station boundary

**THOREAU COMPRESSOR STATION****Remediation System Layout****Figure 5**

# Hydrograph for Monitor Well 5-03B TW Thoreau Station Remediation

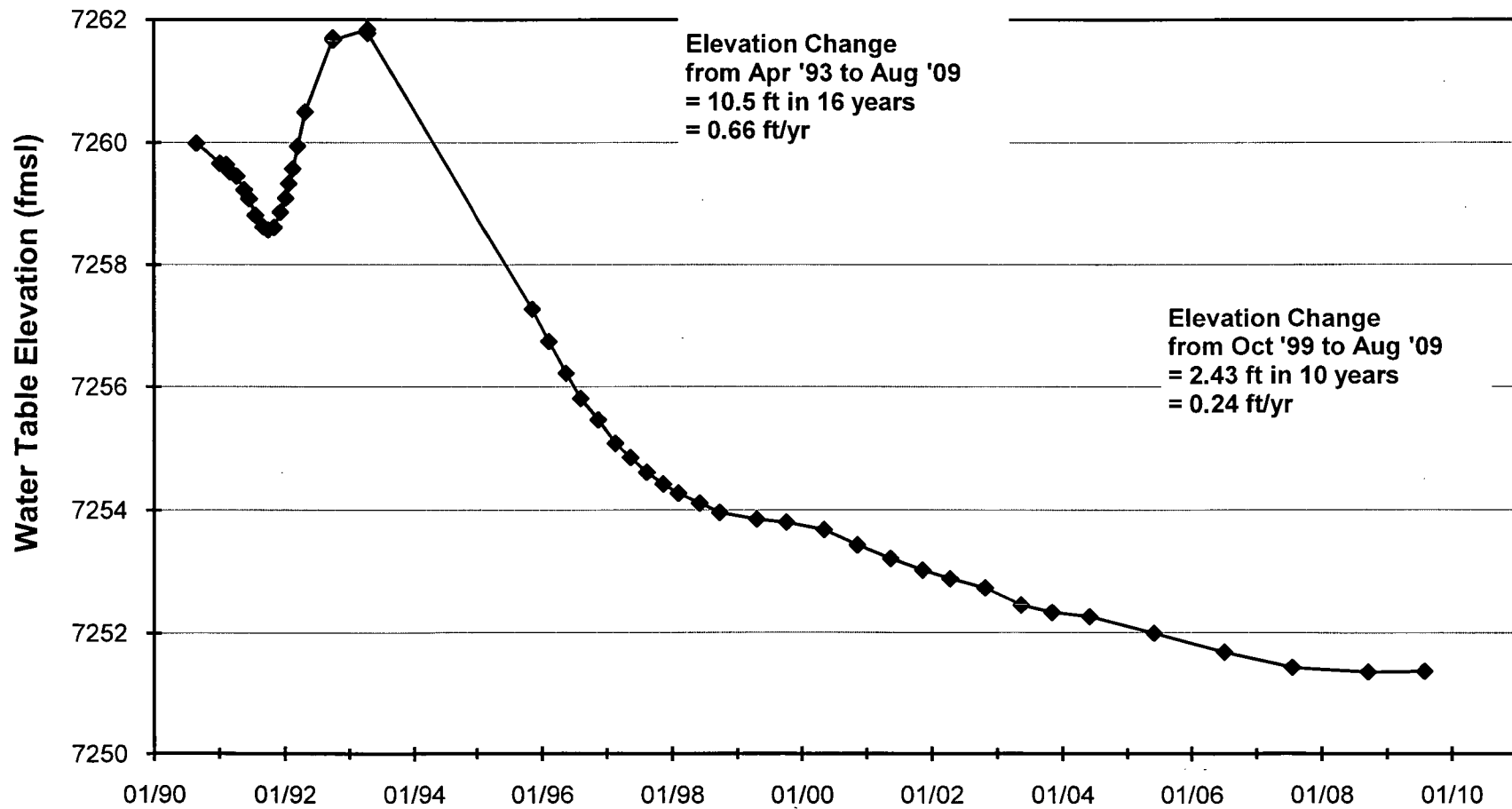


Figure 6

## Hydrograph for Monitor Well 5-23B TW Thoreau Station Remediation

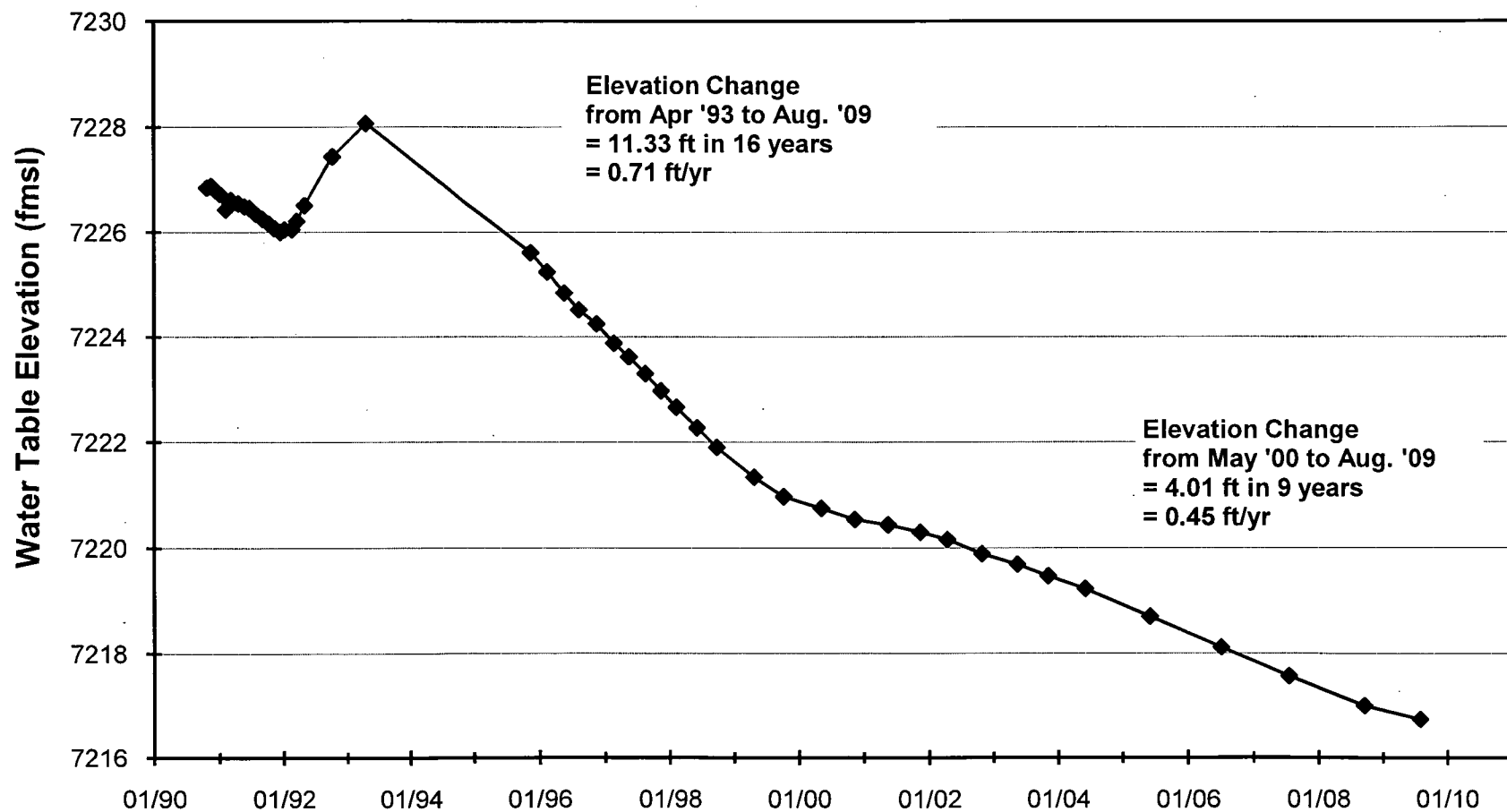


Figure 7

**Table 1. Summary of Groundwater Level Data  
Thoreau Compressor Station No. 5**

| Well ID | Measuring Point<br>Elevation (fmsl) | Date     | Depth to Ground Water<br>(ft below MP) | Ground Water Elevation<br>(fmsl) |
|---------|-------------------------------------|----------|----------------------------------------|----------------------------------|
| 5-01B   | 7,290.53                            | 08/29/90 | 44.69                                  | 7245.84                          |
|         |                                     | 01/08/91 | 44.82                                  | 7245.71                          |
|         |                                     | 01/09/92 | 45.61                                  | 7244.92                          |
|         |                                     | 04/19/93 | 42.96                                  | 7247.57                          |
|         |                                     | 11/14/95 | 46.16                                  | 7244.37                          |
|         |                                     | 02/15/96 | 46.64                                  | 7243.89                          |
|         |                                     | 02/24/97 | 48.31                                  | 7242.22                          |
|         |                                     | 11/16/97 | 49.03                                  | 7241.50                          |
| 5-01C   | 7,292.11                            | 02/10/98 | TP                                     | --                               |
|         |                                     | 04/27/99 | TP                                     | --                               |
|         |                                     | 05/10/00 | 51.45                                  | 7240.66                          |
|         |                                     | 05/21/01 | 51.85                                  | 7240.26                          |
|         |                                     | 04/17/02 | 52.05                                  | 7240.06                          |
|         |                                     | 05/21/03 | 52.25                                  | 7239.86                          |
|         |                                     | 06/07/04 | 52.53                                  | 7239.58                          |
|         |                                     | 06/08/05 | 52.63                                  | 7239.48                          |
|         |                                     | 07/10/06 | 52.85                                  | 7239.26                          |
|         |                                     | 07/25/07 | 52.93                                  | 7239.18                          |
|         |                                     | 09/22/08 | 53.06                                  | 7239.05                          |
|         |                                     | 08/04/09 | 52.99                                  | 7239.12                          |
| 5-02B   | 7,292.06                            | 08/29/90 | 47.60                                  | 7244.46                          |
|         |                                     | 01/11/91 | 47.88                                  | 7244.18                          |
|         |                                     | 01/09/92 | 48.58                                  | 7243.48                          |
|         |                                     | 04/19/93 | 45.38                                  | 7246.68                          |
|         |                                     | 11/14/95 | 49.32                                  | 7242.74                          |
|         |                                     | 02/15/96 | 49.84                                  | 7242.22                          |
|         |                                     | 02/24/97 | TP                                     | --                               |
|         |                                     | 02/10/98 | NM                                     | --                               |
|         |                                     | 10/11/99 | 55.75                                  | 7237.53                          |
|         |                                     | 05/10/00 | 55.08                                  | 7238.16                          |
|         | PSH @ 56.03                         | 05/21/01 | 56.33                                  | 7237.14                          |
|         | PSH @ 56.27                         | 04/17/02 | 56.33                                  | 7236.96                          |
|         |                                     | 05/21/03 | 56.07                                  | 7237.17                          |
|         |                                     | 06/07/04 | 56.86                                  | 7236.38                          |
|         |                                     | 06/08/05 | 56.85                                  | 7236.39                          |
|         |                                     | 07/10/06 | 56.92                                  | 7236.32                          |
|         |                                     | 07/25/07 | 56.90                                  | 7236.34                          |
|         |                                     | 09/22/08 | 56.66                                  | 7236.58                          |
|         |                                     | 08/04/09 | 55.85                                  | 7237.39                          |
| 5-02C   | 7,291.82                            | 02/10/98 | 53.15                                  | 7238.67                          |
|         |                                     | 04/27/99 | 54.05                                  | 7237.77                          |
|         |                                     | 02/28/00 | 54.26                                  | 7237.56                          |
|         |                                     | 05/21/01 | 55.01                                  | 7236.81                          |
|         |                                     | 04/17/02 | 55.37                                  | 7236.45                          |
|         |                                     | 05/21/03 | 55.81                                  | 7236.01                          |
|         |                                     | 06/07/04 | 56.36                                  | 7235.46                          |
|         |                                     | 06/08/05 | 56.68                                  | 7235.14                          |
|         | PSH @ 57.47                         | 07/10/06 | 57.74                                  | 7234.29                          |
|         | Sheen                               | 07/25/07 | 57.07                                  | 7234.75                          |
|         | Sheen                               | 09/22/08 | 56.50                                  | 7235.32                          |
|         | Sheen                               | 08/04/09 | 56.98                                  | 7234.84                          |
|         |                                     |          |                                        |                                  |

**Table 1. Summary of Groundwater Level Data  
Thoreau Compressor Station No. 5**

| Well ID | Measuring Point<br>Elevation (fmsl) | Date     | Depth to Ground Water<br>(ft below MP) | Ground Water Elevation<br>(fmsl) |
|---------|-------------------------------------|----------|----------------------------------------|----------------------------------|
| 5-03B   | 7,303.76                            | 08/29/90 | 43.77                                  | 7259.99                          |
|         |                                     | 01/07/91 | 44.10                                  | 7259.66                          |
|         |                                     | 01/09/92 | 44.67                                  | 7259.09                          |
|         |                                     | 04/19/93 | 41.92                                  | 7261.84                          |
|         |                                     | 11/14/95 | 46.49                                  | 7257.27                          |
|         |                                     | 02/15/96 | 47.02                                  | 7256.74                          |
|         |                                     | 02/24/97 | 48.68                                  | 7255.08                          |
|         |                                     | 02/10/98 | 49.49                                  | 7254.27                          |
|         |                                     | 04/27/99 | 49.91                                  | 7253.85                          |
|         |                                     | 05/10/00 | 50.08                                  | 7253.68                          |
|         |                                     | 05/21/01 | 50.55                                  | 7253.21                          |
|         |                                     | 04/17/02 | 50.88                                  | 7252.88                          |
|         |                                     | 05/20/03 | 51.31                                  | 7252.45                          |
|         |                                     | 06/07/04 | 51.50                                  | 7252.26                          |
|         |                                     | 06/08/05 | 51.77                                  | 7251.99                          |
|         |                                     | 07/10/06 | 52.08                                  | 7251.68                          |
|         |                                     | 07/25/07 | 52.33                                  | 7251.43                          |
|         |                                     | 09/22/08 | 52.40                                  | 7251.36                          |
|         |                                     | 08/04/09 | 52.39                                  | 7251.37                          |
| 5-04B   | 7,292.39                            | 08/29/90 | 48.35                                  | 7244.04                          |
|         |                                     | 01/11/91 | 48.42                                  | 7243.97                          |
|         |                                     | 01/09/92 | 49.23                                  | 7243.16                          |
|         |                                     | 04/19/93 | 45.77                                  | 7246.62                          |
|         |                                     | 11/14/95 | 50.21                                  | 7242.18                          |
|         |                                     | 02/15/96 | 50.82                                  | 7241.57                          |
|         |                                     | 02/24/97 | NM                                     | --                               |
|         | 7292.72 (w/SVE ext)                 | 02/10/98 | 54.70                                  | 7238.02                          |
|         |                                     | 10/11/99 | 55.95                                  | 7236.77                          |
|         |                                     | 05/10/00 | 55.53                                  | 7237.19                          |
|         |                                     | 05/21/01 | 56.65                                  | 7236.07                          |
|         |                                     | 04/17/02 | 57.10                                  | 7235.62                          |
|         |                                     | 05/21/03 | 57.57                                  | 7235.15                          |
|         |                                     | 06/07/04 | 58.55                                  | 7234.17                          |
|         |                                     | 06/08/05 | 58.56                                  | 7234.16                          |
|         |                                     | 07/10/06 | 58.78                                  | 7233.94                          |
|         |                                     | 07/25/07 | 58.78                                  | 7233.94                          |
|         |                                     | 09/22/08 | dry                                    | --                               |
|         |                                     | 08/04/09 | dry                                    | --                               |
| 5-05B   | 7,290.83                            | 08/29/90 | 47.50                                  | 7243.33                          |
|         |                                     | 01/10/91 | 47.14                                  | 7243.69                          |
|         |                                     | 01/09/92 | 47.87                                  | 7242.96                          |
|         |                                     | 04/19/93 | 44.76                                  | 7246.07                          |
|         |                                     | 11/14/95 | 48.59                                  | 7242.24                          |
|         |                                     | 02/15/96 | 49.12                                  | 7241.71                          |
|         |                                     | 02/24/97 | 51.14                                  | 7239.69                          |
|         | 7292.02 (w/SVE ext)                 | 02/10/98 | 53.51                                  | 7238.51                          |
|         |                                     | 10/11/99 | 55.02                                  | 7237.00                          |
|         |                                     | 05/10/00 | 54.61                                  | 7237.41                          |
|         |                                     | 05/21/01 | 55.38                                  | 7236.64                          |
|         |                                     | 04/17/02 | 55.76                                  | 7236.26                          |
|         |                                     | 05/21/03 | 56.27                                  | 7235.75                          |
|         |                                     | 06/07/04 | 56.85                                  | 7235.17                          |
|         |                                     | 06/08/05 | 57.29                                  | 7234.73                          |
|         |                                     | 07/10/06 | 57.74                                  | 7234.28                          |
|         |                                     | 07/25/07 | 57.96                                  | 7234.06                          |
|         |                                     | 09/22/08 | 57.85                                  | 7234.17                          |
|         |                                     | 08/04/09 | 57.15                                  | 7234.87                          |

**Table 1. Summary of Groundwater Level Data  
Thoreau Compressor Station No. 5**

| Well ID | Measuring Point<br>Elevation (fmsl) | Date     | Depth to Ground Water<br>(ft below MP) | Ground Water Elevation<br>(fmsl) |
|---------|-------------------------------------|----------|----------------------------------------|----------------------------------|
| 5-06B   | 7,289.30                            | 08/29/90 | 43.47                                  | 7245.83                          |
|         |                                     | 01/08/91 | 43.42                                  | 7245.88                          |
|         |                                     | 01/09/92 | 44.16                                  | 7245.14                          |
|         |                                     | 04/19/93 | 41.94                                  | 7247.36                          |
|         |                                     | 11/14/95 | 44.64                                  | 7244.66                          |
|         |                                     | 02/15/96 | 44.99                                  | 7244.31                          |
|         |                                     | 02/24/97 | 46.30                                  | 7243.00                          |
|         |                                     | 11/16/97 | 47.01                                  | 7242.29                          |
| 5-06C   | 7,291.46                            | 02/10/98 | 49.31                                  | 7242.15                          |
|         |                                     | 04/27/99 | 50.03                                  | 7241.43                          |
|         |                                     | 02/28/00 | 50.18                                  | 7241.28                          |
|         |                                     | 05/21/01 | 50.62                                  | 7240.84                          |
|         |                                     | 04/17/02 | 50.93                                  | 7240.53                          |
|         |                                     | 05/21/03 | 51.19                                  | 7240.27                          |
|         |                                     | 06/07/04 | 51.45                                  | 7240.01                          |
|         |                                     | 06/08/05 | 51.61                                  | 7239.85                          |
|         |                                     | 07/10/06 | 51.90                                  | 7239.56                          |
|         |                                     | 07/25/07 | 52.09                                  | 7239.37                          |
|         |                                     | 09/22/08 | 52.26                                  | 7239.20                          |
|         |                                     | 08/04/09 | 52.26                                  | 7239.20                          |
| 5-12B   | 7,279.61                            | 08/14/90 | 48.85                                  | 7230.76                          |
|         |                                     | 01/09/91 | 48.96                                  | 7230.65                          |
|         |                                     | 01/07/92 | 49.49                                  | 7230.12                          |
|         |                                     | 04/19/93 | 47.45                                  | 7232.16                          |
|         |                                     | 11/14/95 | 49.71                                  | 7229.90                          |
|         |                                     | 02/15/96 | 50.02                                  | 7229.59                          |
|         |                                     | 02/24/97 | 51.24                                  | 7228.37                          |
|         |                                     | 02/10/98 | 52.28                                  | 7227.33                          |
|         |                                     | 04/27/99 | 53.11                                  | 7226.50                          |
|         |                                     | 05/10/00 | 53.36                                  | 7226.25                          |
|         |                                     | 05/21/01 | 53.14                                  | 7226.47                          |
|         |                                     | 04/17/02 | 53.68                                  | 7225.93                          |
|         |                                     | 05/20/03 | 54.00                                  | 7225.61                          |
|         |                                     | 06/07/04 | 54.15                                  | 7225.46                          |
|         |                                     | 06/08/05 | 54.41                                  | 7225.20                          |
|         |                                     | 07/10/06 | 54.60                                  | 7225.01                          |
|         |                                     | 07/25/07 | 54.79                                  | 7224.82                          |
|         |                                     | 09/22/08 | 54.90                                  | 7224.71                          |
|         |                                     | 08/04/09 | 54.95                                  | 7224.66                          |

**Table 1. Summary of Groundwater Level Data  
Thoreau Compressor Station No. 5**

| Well ID | Measuring Point<br>Elevation (fmsl) | Date     | Depth to Ground Water<br>(ft below MP) | Ground Water Elevation<br>(fmsl) |
|---------|-------------------------------------|----------|----------------------------------------|----------------------------------|
| 5-13B   | 7,282.43                            | 08/14/90 | 52.43                                  | 7230.00                          |
|         |                                     | 01/09/91 | 52.82                                  | 7229.61                          |
|         |                                     | 01/08/92 | 53.58                                  | 7228.85                          |
|         |                                     | 04/19/93 | 51.08                                  | 7231.35                          |
|         |                                     | 11/14/95 | 53.85                                  | 7228.58                          |
|         |                                     | 02/15/96 | 54.18                                  | 7228.25                          |
|         |                                     | 02/24/97 | 55.37                                  | 7227.06                          |
|         |                                     | 02/10/98 | 56.36                                  | 7226.07                          |
|         |                                     | 04/27/99 | 57.31                                  | 7225.12                          |
|         |                                     | 05/10/00 | 57.90                                  | 7224.53                          |
|         |                                     | 05/21/01 | 58.31                                  | 7224.12                          |
|         |                                     | 04/17/02 | 58.60                                  | 7223.83                          |
|         |                                     | 05/20/03 | 59.08                                  | 7223.35                          |
|         |                                     | 06/07/04 | 59.49                                  | 7222.94                          |
|         |                                     | 06/08/05 | 59.50                                  | 7222.93                          |
|         |                                     | 07/10/06 | 60.40                                  | 7222.03                          |
|         |                                     | 07/25/07 | 60.79                                  | 7221.64                          |
|         |                                     | 09/22/08 | 61.14                                  | 7221.29                          |
|         |                                     | 08/04/09 | 61.22                                  | 7221.21                          |
| 5-14B   | 7,285.76                            | 08/14/90 | 55.14                                  | 7230.62                          |
|         |                                     | 01/09/91 | 55.12                                  | 7230.64                          |
|         |                                     | 01/06/92 | 55.74                                  | 7230.02                          |
|         |                                     | 04/19/93 | 53.25                                  | 7232.51                          |
|         |                                     | 11/14/95 | 56.25                                  | 7229.51                          |
|         |                                     | 02/15/96 | 56.62                                  | 7229.14                          |
|         |                                     | 02/24/97 | 58.01                                  | 7227.75                          |
|         |                                     | 02/10/98 | 59.08                                  | 7226.68                          |
|         |                                     | 04/27/99 | 60.17                                  | 7225.59                          |
|         |                                     | 05/10/00 | 60.56                                  | 7225.20                          |
|         |                                     | 05/21/01 | 60.77                                  | 7224.99                          |
|         |                                     | 04/17/02 | 61.19                                  | 7224.57                          |
|         |                                     | 05/20/03 | 61.84                                  | 7223.92                          |
|         |                                     | 06/07/04 | 62.36                                  | 7223.40                          |
|         |                                     | 06/08/05 | 62.92                                  | 7222.84                          |
|         |                                     | 07/10/06 | 63.48                                  | 7222.28                          |
|         |                                     | 07/25/07 | 63.95                                  | 7221.81                          |
|         |                                     | 09/22/08 | 64.50                                  | 7221.26                          |
|         |                                     | 08/04/09 | 64.83                                  | 7220.93                          |
| 5-15B   | 7,292.92<br>(Recorded DTW=51.10?)   | 08/14/90 | 49.86                                  | 7243.06                          |
|         |                                     | 01/10/91 | 50.10                                  | 7242.82                          |
|         |                                     | 01/07/92 | 50.57                                  | 7242.35                          |
|         |                                     | 04/19/93 | 47.41                                  | 7245.51                          |
|         |                                     | 11/14/95 | 51.84                                  | 7241.08                          |
|         |                                     | 02/15/96 | 52.42                                  | 7240.50                          |
|         |                                     | 02/24/97 | 54.48                                  | 7238.44                          |
|         |                                     | 02/10/98 | 55.70                                  | 7237.22                          |
|         |                                     | 04/27/99 | 56.55                                  | 7236.37                          |
|         |                                     | 02/28/00 | 56.60                                  | 7236.32                          |
|         |                                     | 05/21/01 | 57.03                                  | 7235.89                          |
|         |                                     | 04/17/02 | 57.56                                  | 7235.36                          |
|         |                                     | 05/21/03 | 58.05                                  | 7234.87                          |
|         |                                     | 06/07/04 | 58.73                                  | 7234.19                          |
|         |                                     | 06/08/05 | 59.35                                  | 7233.57                          |
|         |                                     | 07/10/06 | 59.99                                  | 7232.93                          |
|         |                                     | 07/25/07 | 61.65                                  | 7231.27                          |
|         |                                     | 09/22/08 | 60.77                                  | 7232.15                          |
|         |                                     | 08/04/09 | 60.81                                  | 7232.11                          |

**Table 1. Summary of Groundwater Level Data  
Thoreau Compressor Station No. 5**

| Well ID | Measuring Point<br>Elevation (fmsl) | Date     | Depth to Ground Water<br>(ft below MP) | Ground Water Elevation<br>(fmsl) |
|---------|-------------------------------------|----------|----------------------------------------|----------------------------------|
| 5-16B   | 7,288.82                            | 08/14/90 | 47.21                                  | 7241.61                          |
|         |                                     | 01/10/91 | 47.60                                  | 7241.22                          |
|         |                                     | 01/08/92 | 48.11                                  | 7240.71                          |
|         |                                     | 04/19/93 | 45.61                                  | 7243.21                          |
|         |                                     | 11/14/95 | 48.88                                  | 7239.94                          |
|         |                                     | 02/15/96 | 49.33                                  | 7239.49                          |
|         |                                     | 02/24/97 | 51.08                                  | 7237.74                          |
|         |                                     | 02/10/98 | 52.16                                  | 7236.66                          |
|         |                                     | 04/27/99 | 53.02                                  | 7235.80                          |
|         |                                     | 02/28/00 | 53.21                                  | 7235.61                          |
|         |                                     | 05/21/01 | 53.71                                  | 7235.11                          |
|         |                                     | 04/17/02 | 54.11                                  | 7234.71                          |
|         |                                     | 05/21/03 | 54.65                                  | 7234.17                          |
|         |                                     | 06/07/04 | 55.32                                  | 7233.50                          |
|         |                                     | 06/08/05 | 55.94                                  | 7232.88                          |
|         |                                     | 07/10/06 | 56.57                                  | 7232.25                          |
|         |                                     | 07/25/07 | 57.11                                  | 7231.71                          |
| 5-17B   | 7,284.75                            | 09/22/08 | 57.50                                  | 7231.32                          |
|         |                                     | 08/04/09 | 57.56                                  | 7231.26                          |
|         |                                     | 08/14/90 | 40.79                                  | 7243.96                          |
|         |                                     | 01/10/91 | 40.96                                  | 7243.79                          |
|         |                                     | 01/07/92 | 41.60                                  | 7243.15                          |
|         |                                     | 04/19/93 | 39.40                                  | 7245.35                          |
|         |                                     | 11/14/95 | 42.06                                  | 7242.69                          |
|         |                                     | 02/15/96 | 42.46                                  | 7242.29                          |
|         |                                     | 02/24/97 | 44.14                                  | 7240.61                          |
|         |                                     | 02/10/98 | 45.30                                  | 7239.45                          |
|         |                                     | 04/27/99 | 46.36                                  | 7238.39                          |
|         |                                     | 05/10/00 | 46.57                                  | 7238.18                          |
|         |                                     | 05/21/01 | 47.34                                  | 7237.41                          |
|         |                                     | 04/17/02 | 47.70                                  | 7237.05                          |
|         |                                     | 05/20/03 | 48.22                                  | 7236.53                          |
|         |                                     | 06/07/04 | 48.69                                  | 7236.06                          |
|         |                                     | 06/08/05 | 48.73                                  | 7236.02                          |
| 5-18B   | 7,286.41                            | 07/10/06 | 49.71                                  | 7235.04                          |
|         |                                     | 07/25/07 | 49.99                                  | 7234.76                          |
|         |                                     | 09/22/08 | 50.06                                  | 7234.69                          |
|         |                                     | 08/04/09 | 50.50                                  | 7234.25                          |
|         |                                     | 08/14/90 | 51.67                                  | 7234.74                          |
|         |                                     | 11/15/90 | 51.60                                  | 7234.81                          |
|         |                                     | 01/04/91 | 51.66                                  | 7234.75                          |
|         |                                     | 01/08/92 | 52.40                                  | 7234.01                          |
|         |                                     | 04/19/93 | 49.68                                  | 7236.73                          |
|         |                                     | 11/14/95 | 53.04                                  | 7233.37                          |
|         |                                     | 02/15/96 | 53.49                                  | 7232.92                          |
|         |                                     | 02/24/97 | 55.03                                  | 7231.38                          |
|         |                                     | 02/10/98 | 55.94                                  | 7230.47                          |
|         |                                     | 04/27/99 | 56.81                                  | 7229.60                          |
|         |                                     | 05/10/00 | 57.18                                  | 7229.23                          |
|         |                                     | 05/21/01 | 57.47                                  | 7228.94                          |
|         |                                     | 04/17/02 | 57.85                                  | 7228.56                          |
|         |                                     | 05/20/03 | 58.40                                  | 7228.01                          |
|         |                                     | 06/07/04 | 59.03                                  | 7227.38                          |
|         |                                     | 06/08/05 | 59.65                                  | 7226.76                          |
|         |                                     | 07/10/06 | 60.29                                  | 7226.12                          |
|         |                                     | 07/25/07 | 60.82                                  | 7225.59                          |
|         |                                     | 09/22/08 | 61.28                                  | 7225.13                          |
|         |                                     | 08/04/09 | 61.46                                  | 7224.95                          |

**Table 1. Summary of Groundwater Level Data  
Thoreau Compressor Station No. 5**

| Well ID | Measuring Point<br>Elevation (fmsl) | Date     | Depth to Ground Water<br>(ft below MP) | Ground Water Elevation<br>(fmsl) |
|---------|-------------------------------------|----------|----------------------------------------|----------------------------------|
| 5-19B   | 7,290.52                            | 08/14/90 | 49.44                                  | 7241.08                          |
|         |                                     | 01/10/91 | 49.86                                  | 7240.66                          |
|         |                                     | 01/08/92 | 50.36                                  | 7240.16                          |
|         |                                     | 04/19/93 | 47.73                                  | 7242.79                          |
|         |                                     | 11/14/95 | 51.30                                  | 7239.22                          |
|         |                                     | 02/15/96 | 51.75                                  | 7238.77                          |
|         |                                     | 02/24/97 | 53.44                                  | 7237.08                          |
|         |                                     | 02/10/98 | 54.49                                  | 7236.03                          |
|         |                                     | 04/27/99 | 55.26                                  | 7235.26                          |
|         |                                     | 02/28/00 | 55.33                                  | 7235.19                          |
|         |                                     | 05/21/01 | 55.74                                  | 7234.78                          |
|         |                                     | 04/17/02 | 56.11                                  | 7234.41                          |
|         |                                     | 05/20/03 | 56.60                                  | 7233.92                          |
|         |                                     | 06/07/04 | 57.24                                  | 7233.28                          |
|         |                                     | 06/08/05 | 57.84                                  | 7232.68                          |
|         |                                     | 07/10/06 | 58.43                                  | 7232.09                          |
|         |                                     | 07/25/07 | 58.89                                  | 7231.63                          |
|         |                                     | 09/22/08 | 59.24                                  | 7231.28                          |
|         |                                     | 08/04/09 | 59.31                                  | 7231.21                          |
| 5-20B   | 7,284.60                            | 08/14/90 | 48.50                                  | 7236.10                          |
|         |                                     | 01/09/91 | 48.70                                  | 7235.90                          |
|         |                                     | 01/08/92 | 49.36                                  | 7235.24                          |
|         |                                     | 04/19/93 | 47.26                                  | 7237.34                          |
|         |                                     | 11/14/95 | 49.63                                  | 7234.97                          |
|         |                                     | 02/15/96 | 50.03                                  | 7234.57                          |
|         |                                     | 02/24/97 | 51.28                                  | 7233.32                          |
|         |                                     | 02/10/98 | 52.46                                  | 7232.14                          |
|         |                                     | 04/27/99 | 53.30                                  | 7231.30                          |
|         |                                     | 05/10/00 | 53.23                                  | 7231.37                          |
|         |                                     | 05/21/01 | 53.62                                  | 7230.98                          |
|         |                                     | 04/17/02 | 53.78                                  | 7230.82                          |
|         |                                     | 05/20/03 | 54.17                                  | 7230.43                          |
|         |                                     | 06/07/04 | 54.45                                  | 7230.15                          |
|         |                                     | 06/08/05 | 54.50                                  | 7230.10                          |
|         |                                     | 07/10/06 | 55.33                                  | 7229.27                          |
|         |                                     | 07/25/07 | 55.74                                  | 7228.86                          |
|         |                                     | 09/22/08 | 56.02                                  | 7228.58                          |
|         |                                     | 08/04/09 | 56.13                                  | 7228.47                          |
| 5-22B   | 7,292.74                            | 10/25/90 | 48.08                                  | 7244.66                          |
|         |                                     | 01/10/91 | 48.33                                  | 7244.41                          |
|         |                                     | 01/10/92 | 49.00                                  | 7243.74                          |
|         |                                     | 04/19/93 | 45.34                                  | 7247.40                          |
|         |                                     | 11/14/95 | NM                                     | --                               |
|         |                                     | 02/15/96 | NM                                     | --                               |
|         |                                     | 02/27/97 | 52.95                                  | 7239.79                          |
|         |                                     | 02/10/98 | 53.86                                  | 7238.88                          |
|         |                                     | 04/27/99 | 54.00                                  | 7238.74                          |
|         |                                     | 05/10/00 | 53.60                                  | 7239.14                          |
|         |                                     | 05/21/01 | 54.20                                  | 7238.54                          |
|         |                                     | 04/17/02 | 54.04                                  | 7238.70                          |
|         |                                     | 05/21/03 | 54.23                                  | 7238.51                          |
|         |                                     | 06/07/04 | 54.21                                  | 7238.53                          |
|         |                                     | 06/08/05 | 53.90                                  | 7238.84                          |
|         |                                     | 07/10/06 | 54.03                                  | 7238.71                          |
|         |                                     | 07/25/07 | 53.83                                  | 7238.91                          |
|         |                                     | 09/22/08 | 53.69                                  | 7239.05                          |
|         |                                     | 08/04/09 | 54.10                                  | 7238.64                          |

**Table 1. Summary of Groundwater Level Data  
Thoreau Compressor Station No. 5**

| Well ID | Measuring Point<br>Elevation (fmsl) | Date     | Depth to Ground Water<br>(ft below MP) | Ground Water Elevation<br>(fmsl) |
|---------|-------------------------------------|----------|----------------------------------------|----------------------------------|
| 5-23B   | 7,282.63                            | 10/25/90 | 55.78                                  | 7226.85                          |
|         |                                     | 01/03/91 | 55.90                                  | 7226.73                          |
|         |                                     | 01/07/92 | 56.58                                  | 7226.05                          |
|         |                                     | 04/19/93 | 54.56                                  | 7228.07                          |
|         |                                     | 11/14/95 | 57.02                                  | 7225.61                          |
|         |                                     | 02/15/96 | 57.39                                  | 7225.24                          |
|         |                                     | 02/24/97 | 58.75                                  | 7223.88                          |
|         |                                     | 02/10/98 | 59.97                                  | 7222.66                          |
|         |                                     | 04/27/99 | 61.29                                  | 7221.34                          |
|         |                                     | 05/10/00 | 61.88                                  | 7220.75                          |
|         |                                     | 05/21/01 | 62.19                                  | 7220.44                          |
|         |                                     | 04/17/02 | 62.47                                  | 7220.16                          |
|         |                                     | 05/20/03 | 62.94                                  | 7219.69                          |
|         |                                     | 06/07/04 | 63.40                                  | 7219.23                          |
|         |                                     | 06/08/05 | 63.93                                  | 7218.70                          |
|         |                                     | 07/10/06 | 64.52                                  | 7218.11                          |
|         |                                     | 07/25/07 | 65.07                                  | 7217.56                          |
|         |                                     | 09/22/08 | 65.63                                  | 7217.00                          |
|         |                                     | 08/04/09 | 65.89                                  | 7216.74                          |
| 5-24B   | 7,279.18                            | 10/25/90 | 53.64                                  | 7225.54                          |
|         |                                     | 01/03/91 | 53.76                                  | 7225.42                          |
|         |                                     | 01/07/92 | 54.40                                  | 7224.78                          |
|         |                                     | 04/19/93 | 52.33                                  | 7226.85                          |
|         |                                     | 11/14/95 | 54.62                                  | 7224.56                          |
|         |                                     | 02/15/96 | 54.96                                  | 7224.22                          |
|         |                                     | 02/24/97 | 56.26                                  | 7222.92                          |
|         |                                     | 02/10/98 | 57.32                                  | 7221.86                          |
|         |                                     | 04/27/99 | 58.56                                  | 7220.62                          |
|         |                                     | 05/10/00 | 59.04                                  | 7220.14                          |
|         |                                     | 05/21/01 | 59.29                                  | 7219.89                          |
|         |                                     | 04/17/02 | 59.45                                  | 7219.73                          |
|         |                                     | 05/20/03 | 59.79                                  | 7219.39                          |
|         |                                     | 06/07/04 | 60.07                                  | 7219.11                          |
|         |                                     | 06/08/05 | 60.41                                  | 7218.77                          |
|         |                                     | 07/10/06 | 60.68                                  | 7218.50                          |
|         |                                     | 07/25/07 | 60.85                                  | 7218.33                          |
|         |                                     | 09/22/08 | 60.96                                  | 7218.22                          |
|         |                                     | 08/04/09 | 61.00                                  | 7218.18                          |
| 5-34B   | 7,294.71                            | 05/12/92 | 48.62                                  | 7246.09                          |
|         |                                     | 04/19/93 | 46.98                                  | 7247.73                          |
|         |                                     | 11/14/95 | 52.33                                  | 7242.38                          |
|         |                                     | 02/16/96 | NM                                     | --                               |
|         |                                     | 02/24/97 | NM                                     | --                               |
|         | PSH @ 58.54                         | 10/11/99 | 58.56                                  | 7236.17                          |
|         | PSH @ 57.33                         | 05/10/00 | 57.35                                  | 7236.46                          |
|         | PSH @ 58.78                         | 05/21/01 | 58.83                                  | 7235.92                          |
|         | PSH @ 59.09                         | 04/17/02 | 59.86                                  | 7235.44                          |
|         | PSH @ 59.48                         | 05/21/03 | 60.72                                  | 7234.93                          |
|         | PSH @ 60.32                         | 06/07/04 | 61.38                                  | 7234.14                          |
|         | ?                                   | 06/08/05 | 61.26                                  | ---                              |
|         | PSH @ 61.02                         | 07/10/06 | 61.56                                  | 7233.56                          |
|         | PSH @ 62.44                         | 07/25/07 | 62.97                                  | 7232.14                          |
|         | PSH @ 61.35                         | 09/22/08 | 61.40                                  | 7233.35                          |
|         | PSH @ 61.05                         | 08/04/09 | 61.06                                  | 7233.43                          |

**Table 1. Summary of Groundwater Level Data  
Thoreau Compressor Station No. 5**

| Well ID | Measuring Point<br>Elevation (fmsl)                             | Date     | Depth to Ground Water<br>(ft below MP) | Ground Water Elevation<br>(fmsl) |
|---------|-----------------------------------------------------------------|----------|----------------------------------------|----------------------------------|
| 5-35B   | 7,296.11                                                        | 05/05/92 | 50.55                                  | 7245.56                          |
|         |                                                                 | 04/19/93 | 48.79                                  | 7247.32                          |
|         |                                                                 | 11/14/95 | NM                                     | --                               |
|         |                                                                 | 02/15/96 | NM                                     | --                               |
|         |                                                                 | 05/19/97 | 56.21                                  | 7240.67                          |
|         | sheen<br>7295.33 (w/SVE ext)<br>PSH not measured<br>PSH @ 57.15 | 02/10/98 | 55.79                                  | 7239.54                          |
|         |                                                                 | 10/11/99 | 57.16                                  | 7238.18                          |
|         |                                                                 | 05/10/00 | 56.68                                  | 7238.65                          |
|         |                                                                 | 05/21/01 | 57.51                                  | 7237.82                          |
|         |                                                                 | 04/17/02 | 57.96                                  | 7237.37                          |
|         |                                                                 | 05/21/03 | 58.31                                  | 7237.02                          |
|         |                                                                 | 06/07/04 | 58.69                                  | 7236.64                          |
|         |                                                                 | 06/08/05 | 58.89                                  | 7236.44                          |
|         |                                                                 | 07/10/06 | 58.99                                  | 7236.34                          |
|         |                                                                 | 07/25/07 | 58.97                                  | 7236.36                          |
|         |                                                                 | 09/22/08 | 58.43                                  | 7236.90                          |
|         |                                                                 | 08/04/09 | 58.60                                  | 7236.73                          |
| 5-41B   | 7,279.73                                                        | 10/06/92 | 61.03                                  | 7218.70                          |
|         |                                                                 | 04/19/93 | 60.38                                  | 7219.35                          |
|         |                                                                 | 11/14/95 | 61.90                                  | 7217.83                          |
|         |                                                                 | 02/15/96 | 62.26                                  | 7217.47                          |
|         |                                                                 | 02/24/97 | 63.97                                  | 7215.76                          |
|         |                                                                 | 02/10/98 | NM                                     | --                               |
|         |                                                                 | 05/10/00 | NM                                     | --                               |
|         |                                                                 | 11/14/00 | NM                                     | --                               |
| 5-47B   | 7,268.35                                                        | 10/06/92 | 62.71                                  | 7205.64                          |
|         |                                                                 | 04/19/93 | 62.18                                  | 7206.17                          |
|         |                                                                 | 11/14/95 | 62.77                                  | 7205.58                          |
|         |                                                                 | 02/15/96 | 63.27                                  | 7205.08                          |
|         |                                                                 | 02/24/97 | TP                                     | --                               |
|         |                                                                 | 08/18/97 | 66.03                                  | 7202.32                          |
| 5-48B   | 7,292.64                                                        | 10/06/92 | 46.80                                  | 7245.84                          |
|         |                                                                 | 04/19/93 | 46.52                                  | 7246.12                          |
|         |                                                                 | 11/14/95 | 51.00                                  | 7241.64                          |
|         |                                                                 | 02/15/96 | 51.60                                  | 7241.04                          |
|         |                                                                 | 02/24/97 | 53.76                                  | 7238.88                          |
|         |                                                                 | 09/29/98 | 55.67                                  | 7236.97                          |
|         |                                                                 | 04/27/99 | 55.93                                  | 7236.71                          |
|         |                                                                 | 02/28/00 | 56.19                                  | 7236.45                          |
|         |                                                                 | 05/21/01 | 56.57                                  | 7236.07                          |
|         |                                                                 | 04/17/02 | 57.05                                  | 7235.59                          |
|         |                                                                 | 05/21/03 | 57.54                                  | 7235.10                          |
|         |                                                                 | 06/07/04 | 58.23                                  | 7234.41                          |
|         |                                                                 | 06/08/05 | 58.86                                  | 7233.78                          |
|         |                                                                 | 07/10/06 | 59.44                                  | 7233.20                          |
|         | (TD = 59.87)                                                    | 07/25/07 | 59.84                                  | 7232.80                          |
|         |                                                                 | 09/22/08 | dry                                    | --                               |
|         |                                                                 | 08/04/09 | dry                                    | --                               |
| 5-57B   | 7,257.80                                                        | 04/19/93 | 59.97                                  | 7197.83                          |
|         |                                                                 | 11/14/95 | 60.21                                  | 7197.59                          |
|         |                                                                 | 02/15/96 | 60.58                                  | 7197.22                          |
|         |                                                                 | 02/24/97 | 62.20                                  | 7195.60                          |
|         |                                                                 | 08/18/97 | 62.82                                  | 7194.98                          |

**Table 1. Summary of Groundwater Level Data  
Thoreau Compressor Station No. 5**

| Well ID | Measuring Point<br>Elevation (fmsl) | Date     | Depth to Ground Water<br>(ft below MP) | Ground Water Elevation<br>(fmsl) |
|---------|-------------------------------------|----------|----------------------------------------|----------------------------------|
| 5-58B   | 7,279.38                            | 04/19/93 | 64.09                                  | 7215.29                          |
|         |                                     | 11/14/95 | 65.55                                  | 7213.83                          |
|         |                                     | 02/15/96 | 66.16                                  | 7213.22                          |
|         |                                     | 02/24/97 | 68.42                                  | 7210.96                          |
|         |                                     | 08/18/97 | 69.21                                  | 7210.17                          |
| 5-59    | 7,290.82                            | 11/16/01 | 49.97                                  | 7240.85                          |
|         |                                     | 04/17/02 | 50.07                                  | 7240.75                          |
|         |                                     | 05/21/03 | 50.38                                  | 7240.44                          |
|         |                                     | 06/07/04 | 50.66                                  | 7240.16                          |
|         |                                     | 06/08/05 | 50.84                                  | 7239.98                          |
|         |                                     | 07/10/06 | 51.12                                  | 7239.70                          |
|         |                                     | 07/25/07 | 51.32                                  | 7239.50                          |
|         |                                     | 09/22/08 | 51.50                                  | 7239.32                          |
|         |                                     | 08/04/09 | 51.49                                  | 7239.33                          |
| 5-60    | 7,290.83                            | 11/16/01 | 52.01                                  | 7238.82                          |
|         |                                     | 04/17/02 | 52.07                                  | 7238.76                          |
|         |                                     | 05/21/03 | 52.33                                  | 7238.50                          |
|         |                                     | 06/07/04 | 52.60                                  | 7238.23                          |
|         |                                     | 06/08/05 | 52.75                                  | 7238.08                          |
|         |                                     | 07/10/06 | 52.97                                  | 7237.86                          |
|         |                                     | 07/25/07 | 53.10                                  | 7237.73                          |
|         |                                     | 09/22/08 | 53.26                                  | 7237.57                          |
|         |                                     | 08/04/09 | 53.30                                  | 7237.53                          |
| SVE-1   | 7,296.88                            | 02/10/98 | 58.35                                  | 7238.53                          |
|         |                                     | 10/11/99 | 59.28                                  | 7237.60                          |
|         |                                     | 05/10/00 | 58.78                                  | 7238.10                          |
|         |                                     | 11/16/01 | 59.83                                  | 7237.05                          |
|         |                                     | 04/17/02 | 60.01                                  | 7236.87                          |
|         |                                     | 05/21/03 | 60.54                                  | 7236.34                          |
|         |                                     | 06/07/04 | 61.16                                  | 7235.72                          |
|         |                                     | 06/08/05 | 61.46                                  | 7235.42                          |
|         |                                     | 07/10/06 | 61.51                                  | 7235.37                          |
|         |                                     | 07/25/07 | 61.51                                  | 7235.37                          |
| SVE-2   | 7,297.68                            | 09/22/08 | 61.52                                  | 7235.36                          |
|         |                                     | 08/04/09 | Dry                                    | --                               |
|         |                                     | 02/10/98 | 58.85                                  | 7238.83                          |
|         |                                     | 10/11/99 | 59.57                                  | 7238.11                          |
|         |                                     | 05/10/00 | 58.99                                  | 7238.69                          |
|         |                                     | 11/16/01 | 60.14                                  | 7237.54                          |
|         |                                     | 04/17/02 | 60.28                                  | 7237.40                          |
|         |                                     | 05/21/03 | 60.83                                  | 7236.85                          |
|         |                                     | 06/07/04 | 61.49                                  | 7236.19                          |
|         |                                     | 06/08/05 | 61.67                                  | 7236.01                          |
|         |                                     | 07/10/06 | dry                                    | --                               |
|         |                                     | 07/25/07 | dry                                    | --                               |
|         |                                     | 09/22/08 | dry                                    | --                               |
|         |                                     | 08/04/09 | dry                                    | --                               |

**Table 1. Summary of Groundwater Level Data  
Thoreau Compressor Station No. 5**

| Well ID | Measuring Point<br>Elevation (fmsl) | Date     | Depth to Ground Water<br>(ft below MP) | Ground Water Elevation<br>(fmsl) |
|---------|-------------------------------------|----------|----------------------------------------|----------------------------------|
| SVE-3   | 7,293.68                            | 02/10/98 | 56.24                                  | 7237.44                          |
|         |                                     | 10/11/99 | 57.42                                  | 7236.26                          |
|         |                                     | 11/16/01 | 57.81                                  | 7235.87                          |
|         |                                     | 04/17/02 | 58.01                                  | 7235.67                          |
|         |                                     | 05/21/03 | 58.49                                  | 7235.19                          |
|         |                                     | 06/07/04 | 59.15                                  | 7234.53                          |
|         |                                     | 06/08/05 | 60.42                                  | 7233.26                          |
|         |                                     | 07/10/06 | 60.71                                  | 7233.47                          |
|         |                                     | 07/25/07 | 60.52                                  | 7233.52                          |
|         |                                     | 09/22/08 | 58.31                                  | 7234.05                          |
|         | PSH @ 60.05                         | 08/04/09 | 60.08                                  | 7233.62                          |
|         | PSH @ 60.51                         |          |                                        |                                  |
| SVE-4   | 7,289.83                            | 02/10/98 | 52.91                                  | 7236.92                          |
|         |                                     | 10/11/99 | 54.48                                  | 7235.35                          |
|         |                                     | 11/16/01 | 54.75                                  | 7235.08                          |
|         |                                     | 04/17/02 | 54.94                                  | 7234.89                          |
|         |                                     | 05/21/03 | 55.48                                  | 7234.35                          |
|         |                                     | 06/07/04 | 56.14                                  | 7233.69                          |
|         |                                     | 06/08/05 | 56.79                                  | 7233.04                          |
|         |                                     | 07/10/06 | 57.45                                  | 7232.38                          |
|         |                                     | 07/25/07 | 57.94                                  | 7231.89                          |
|         |                                     | 09/22/08 | 60.53                                  | 7229.30                          |
|         |                                     | 08/04/09 | 58.36                                  | 7231.47                          |
| 5-37I   | 7,296.31                            | 10/11/99 | 58.90                                  | 7237.41                          |
|         |                                     | 05/10/00 | 58.46                                  | 7237.85                          |
|         |                                     | 11/16/01 | 59.46                                  | 7236.85                          |
|         |                                     | 04/17/02 | 59.64                                  | 7236.67                          |
|         |                                     | 05/21/03 | 59.94                                  | 7236.37                          |
|         |                                     | 06/07/04 | 60.33                                  | 7235.98                          |
|         |                                     | 06/08/05 | 60.37                                  | 7235.94                          |
|         |                                     | 07/10/06 | 60.47                                  | 7235.84                          |
|         |                                     | 07/25/07 | 60.45                                  | 7235.86                          |
|         |                                     | 09/22/08 | 59.93                                  | 7236.38                          |
|         |                                     | 08/04/09 | 60.28                                  | 7236.03                          |
| 5-36E   | 7,296.56                            | 10/11/99 | 60.76                                  | 7235.80                          |
|         |                                     | 05/10/00 | 59.76                                  | 7236.80                          |
|         |                                     | 11/16/01 | 61.31                                  | 7235.25                          |
|         |                                     | 04/17/02 | 61.51                                  | 7235.05                          |
|         |                                     | 05/21/03 | 61.46                                  | 7235.10                          |
|         |                                     | 06/07/04 | 62.30                                  | 7234.26                          |
|         |                                     | 06/08/05 | 62.62                                  | 7233.94                          |
|         |                                     | 07/10/06 | 62.83                                  | 7233.73                          |
|         |                                     | 07/25/07 | 62.93                                  | 7233.63                          |
|         |                                     | 09/22/08 | 62.46                                  | 7234.10                          |
|         |                                     | 08/04/09 | 61.84                                  | 7234.72                          |

MP = Measuring point  
fmsl = Feet above mean sea level  
NM = Not measured  
TP = Tagged top of pump

**Table 2. Summary of Field Measured Parameters  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Dissolved Oxygen<br>(mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µmhos) | Remarks                                  |
|---------|----------|------------------------------------------|------|-------------------|---------------------------------------|------------------------------------------|
| 5-01B   | 11/21/95 | 3.8                                      | 7.37 | 12.8              | 1314                                  | Muddy, no odor                           |
|         | 02/21/96 | 7.5                                      | 7.40 | 11.9              | 960                                   | Turbid, no odor                          |
|         | 02/27/97 | 4.57                                     | 7.49 | 7.7               | 820                                   | Turbid                                   |
|         | 08/20/97 | NM                                       | 7.29 | 14.7              | 1312                                  | Turbid, no odor                          |
| 5-01C   | 11/23/97 | 5.5                                      | 7.59 | 14.9              | 1252                                  | Clear                                    |
|         | 02/12/98 | 3.4                                      | 7.86 | 11.3              | 1137                                  | Clear                                    |
|         | 04/29/99 | --/2.8                                   | 7.67 | 13.1              | 1262                                  | Clear                                    |
|         | 05/12/00 | 0.0/1.2                                  | 7.57 | 12.8              | 1390                                  | Clear                                    |
|         | 05/22/01 | 2.6/2.6                                  | 7.48 | 14.0              | 1510                                  | Clear                                    |
|         | 04/20/02 | 3.2                                      | 7.50 | 14.5              | 1494                                  | Clear                                    |
|         | 05/21/03 | 3.5                                      | 7.43 | 15.7              | 1571                                  | Clear                                    |
|         | 06/07/04 | 2.7                                      | 7.43 | 14.5              | 1637                                  | Clear                                    |
|         | 06/08/05 | ---                                      | 7.39 | 14.1              | 1658                                  | ---                                      |
|         | 07/11/06 | 3.3                                      | 7.28 | 13.4              | 1318                                  | Clear                                    |
|         | 07/25/07 | 3.3                                      | 7.61 | 13.4              | 1300                                  | Clear                                    |
|         | 09/23/08 | 3.0                                      | 7.88 | 13.0              | 1310                                  | Clear                                    |
|         | 08/04/09 | 3.9                                      | 7.08 | 14.2              | 1718                                  | Cloudy                                   |
|         |          |                                          |      |                   |                                       |                                          |
| 5-02B   | 11/21/95 | 2.1                                      | 6.89 | 14.5              | 920                                   | Slightly cloudy, HC odor                 |
|         | 02/22/96 | 4.0                                      | 7.14 | 11.9              | 1010                                  | Colorless, suspended black silt, HC odor |
|         | 02/28/97 | 2.17                                     | 7.20 | 9.6               | 990                                   | Clear                                    |
| 5-02C   | 11/24/97 | 3.0                                      | 7.24 | 12.5              | 1439                                  | Turbid, Reddish                          |
|         | 02/11/98 | 0.9                                      | 7.24 | 10.1              | 1397                                  | Clear                                    |
|         | 04/28/99 | --/0.8                                   | 7.10 | 13.4              | 1756                                  | Clear, Strong HC odor                    |
|         | 05/13/00 | 0.9                                      | 7.11 | 13.4              | 1821                                  | Clear, strong odor                       |
|         | 05/24/01 | 2.6/1.6                                  | 7.11 | 15.8              | 1800                                  | Clear, odor                              |
|         | 04/20/02 | 1.5                                      | 7.15 | 15.0              | 1829                                  | Cloudy, sweet odor                       |
|         | 05/22/03 | 1.2                                      | 7.10 | 16.4              | 1833                                  | Cloudy, odor                             |
|         | 06/08/04 | 1.3                                      | 7.04 | 15.9              | 1934                                  | Clear                                    |
|         | 06/09/05 | ---                                      | 7.04 | 14.3              | 1984                                  | ---                                      |
| 5-03B   | 11/15/95 | 8.0                                      | 7.59 | 14.0              | 860                                   | Clear, no odor                           |
|         | 05/20/96 | 7.0b                                     | 8.26 | 13.4              | 1282                                  | Turbid                                   |
|         | 02/24/97 | 5.74/7.0                                 | 7.77 | 10.2              | 980                                   | Turbid                                   |
|         | 02/10/98 | 8.17                                     | 7.36 | 12.5              | 1000                                  | Turbid                                   |
|         | 04/27/99 | 8.6                                      | 7.72 | 13.8              | 1357                                  | Redish silt, Turbid                      |
|         | 05/11/00 | 7.6/7.5                                  | 7.78 | 13.1              | 1311                                  | Redish turbid                            |
|         | 05/22/01 | 8.5/8.0                                  | 7.79 | 14.1              | 1314                                  | Redish turbid                            |
|         | 04/18/02 | 8.2                                      | 7.81 | 14.9              | 1347                                  | Red sand, turbid                         |
|         | 05/20/03 | 8.1                                      | 7.74 | 16.0              | 1415                                  | Red sand, turbid                         |
| 5-04B   | 06/07/04 | 2.7                                      | 7.65 | 14.2              | 1450                                  | Red sand, turbid                         |
|         |          |                                          |      |                   |                                       |                                          |
|         | 11/17/95 | NM                                       | 7.15 | 14.6              | 1097                                  | Clear, moderate HC odor                  |
|         | 11/17/00 | 1.9                                      | 7.57 | 12.1              | 1851                                  | Bailed dry @ 0.3 gals, turbid            |
|         | 05/22/01 | 2.7/2.6                                  | 7.54 | 16.1              | 1994                                  | Bailed dry @ 0.3 gals, turbid            |
|         | 04/19/02 | 4.8                                      | 7.48 | 17.0              | 1974                                  | Turbid, Bailed dry @ 0.15 gal            |
| 5-05B   | 05/21/03 | 7.1                                      | 7.52 | 18.5              | 1966                                  | Clear, Bailed dry @ 0.08 gal             |
|         | 11/10/03 | 8.9                                      | 7.85 | 14.9              | 1669                                  | Muddy, Bailed dry @ 0.07 gal             |
|         |          |                                          |      |                   |                                       |                                          |
| 5-05B   | 11/17/95 | 2.9                                      | 7.04 | 13.0              | 1350                                  | Clear, moderate HC odor                  |
|         | 05/22/96 | 1.4                                      | 7.36 | 13.8              | 1419                                  | Clear, no odor                           |
|         | 02/25/97 | 2.86                                     | 7.46 | 8.2               | 890                                   | Cloudy, HC odor                          |
|         | 10/13/99 | 7.1                                      | 7.42 | 13.2              | 1512                                  | Clear                                    |
|         | 05/11/00 | 2.2/2.4                                  | 7.38 | 13.3              | 1565                                  | Cloudy                                   |
|         | 05/22/01 | 2.5                                      | 7.37 | 14.4              | 1578                                  | Cloudy, bailing down                     |
|         | 04/18/02 | 0.8                                      | 7.41 | 17.9              | 1444                                  | Turbid (muddy water)                     |
|         | 05/21/03 | 1.0                                      | 7.29 | 15.8              | 1515                                  | Turbid (muddy water)                     |
| 5-05B   | 06/08/04 | 1.0                                      | 7.21 | 13.9              | 1555                                  | Cloudy                                   |
|         |          |                                          |      |                   |                                       |                                          |

**Table 2. Summary of Field Measured Parameters  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Dissolved Oxygen<br>(mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µmhos) | Remarks                     |
|---------|----------|------------------------------------------|------|-------------------|---------------------------------------|-----------------------------|
| 5-06B   | 11/21/95 | 3.2                                      | 7.51 | 14.0              | 880                                   | Slightly cloudy, no HC odor |
|         | 02/22/96 | 7.2                                      | 7.71 | 12.6              | 880                                   | Clear, slight HC odor       |
|         | 02/28/97 | 1.11                                     | 7.78 | 11.7              | 895                                   | Clear                       |
|         | 08/20/97 | 2.7/2.2                                  | 7.62 | 14.2              | 1140                                  | Clear                       |
| 5-06C   | 11/23/97 | 0.5/0.8                                  | 7.67 | 14.3              | 1181                                  | Turbid                      |
|         | 02/12/98 | 0.0                                      | 7.75 | 11.9              | 1072                                  | Clear                       |
|         | 04/29/99 | --/1.0                                   | 7.55 | 12.8              | 1135                                  | Clear                       |
|         | 05/13/00 | 0.4/0.6                                  | 7.65 | 13.2              | 1178                                  | Clear                       |
|         | 05/22/01 | 0.9                                      | 7.61 | 13.9              | 1252                                  | Turbid                      |
|         | 04/20/02 | 1.4                                      | 7.64 | 14.4              | 1256                                  | Clear                       |
|         | 05/21/03 | 1.7                                      | 7.47 | 15.2              | 1432                                  | Cloudy                      |
|         | 06/07/04 | 1.4                                      | 7.43 | 14.4              | 1441                                  | Turbid                      |
|         | 06/09/05 | ---                                      | 7.34 | 12.7              | 1560                                  | ---                         |
|         | 07/11/06 | 2.0                                      | 7.42 | 13.7              | 1145                                  | Clear                       |
|         | 07/25/07 | 3.0                                      | 7.57 | 13.0              | 1094                                  | Clear                       |
|         | 09/23/08 | 3.1                                      | 7.88 | 13.2              | 1115                                  | Clear                       |
|         | 08/04/09 | 2.8                                      | 7.06 | 13.4              | 1461                                  | Clear                       |
|         |          |                                          |      |                   |                                       |                             |
| 5-12B   | 11/16/95 | 6.5                                      | 7.38 | 13.9              | 900                                   | Clear, no odor              |
|         | 05/24/96 | 8.0                                      | 7.44 | 15.0              | 870                                   | Clear                       |
|         | 02/26/97 | 4.78/6.5                                 | 7.58 | 11.8              | 895                                   | Clear                       |
|         | 02/11/98 | 6.2/7.0                                  | 7.70 | 11.3              | 1114                                  | Clear                       |
|         | 04/27/99 | 7.8                                      | 7.70 | 12.8              | 1240                                  | Clear                       |
|         | 05/11/00 | 6.7                                      | 7.83 | 14.4              | 1248                                  | Clear                       |
|         | 05/23/01 | 6.7                                      | 7.78 | 15.2              | 1251                                  | Clear                       |
|         | 04/19/02 | 7.4                                      | 8.04 | 15.1              | 1241                                  | Clear                       |
|         | 05/20/03 | 8.6                                      | 8.00 | 15.8              | 1242                                  | Clear                       |
|         | 06/08/04 | 3.9                                      | 8.03 | 16.3              | 1323                                  | Clear                       |
|         |          |                                          |      |                   |                                       |                             |
| 5-13B   | 11/20/95 | 4.3                                      | 7.59 | 13.9              | 800                                   | Clear, HC odor              |
|         | 02/21/96 | 4.2                                      | 7.67 | 13.8              | 840                                   | Clear, HC odor              |
|         | 02/26/97 | 1.51                                     | 7.53 | 11.9              | 850                                   | Clear                       |
|         | 02/11/98 | 1.3/1.0                                  | 7.81 | 11.0              | 1077                                  | Clear, Odor                 |
|         | 04/27/99 | --                                       | 7.54 | 12.8              | 1223                                  | Clear, HC odor              |
|         | 05/11/00 | 0.1/0.8                                  | 7.50 | 13.2              | 1274                                  | Clear                       |
|         | 05/23/01 | 2.3                                      | 7.47 | 14.1              | 1296                                  | Clear                       |
|         | 04/19/02 | 1.9                                      | 7.49 | 15.2              | 1267                                  | Cloudy                      |
|         | 05/20/03 | 1.9                                      | 7.44 | 15.5              | 1263                                  | Clear                       |
|         | 06/08/04 | 1.5                                      | 7.95 | 16.4              | 1330                                  | Clear                       |
|         |          |                                          |      |                   |                                       |                             |
| 5-14B   | 11/16/95 | 8.0                                      | 8.03 | 14.6              | 1056                                  | Very slightly cloudy        |
|         | 05/21/96 | 9.8a                                     | 8.01 | 13.9              | 1011                                  | Clear                       |
|         | 02/26/97 | --/6.5                                   | 7.87 | 10.5              | 931                                   | Clear, no odor              |
|         | 02/10/98 | 8.12                                     | 6.91 | 10.2              | 630                                   | Clear                       |
|         | 04/27/99 | 7.5/6.5                                  | 7.79 | 13.3              | 1058                                  | Turbid                      |
|         | 05/11/00 | 7.3                                      | 7.85 | 13.0              | 1014                                  | Clear                       |
|         | 05/24/01 | 8.1                                      | 7.86 | 14.3              | 1027                                  | Clear                       |
|         | 04/19/02 | 6.9                                      | 7.86 | 15.5              | 1148                                  | Turbid                      |
|         | 05/22/03 | 7.2                                      | 7.79 | 16.1              | 1168                                  | Cloudy                      |
|         | 06/08/04 | 3.4                                      | 7.82 | 16.2              | 1246                                  | Red Cloudy                  |
|         |          |                                          |      |                   |                                       |                             |

**Table 2. Summary of Field Measured Parameters  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Dissolved Oxygen (mg/L) Meter/Hach | pH   | Temperature °C | Electrical Conductivity (µmhos) | Remarks                                      |
|---------|----------|------------------------------------|------|----------------|---------------------------------|----------------------------------------------|
| 5-15B   | 11/16/95 | 6.9                                | 7.98 | 12.5           | 982                             | Clear, no odor                               |
|         | 05/22/96 | 4.9                                | 7.67 | 13.0           | 710                             | Clear                                        |
|         | 02/26/97 | -/6.8                              | 7.82 | 11.4           | 977                             | Clear, no odor                               |
|         | 02/11/98 | 6.22/7.0                           | 7.39 | 13.1           | 720                             | Slightly Turbid                              |
|         | 04/28/99 | -/7.0                              | 7.73 | 13.0           | 1022                            | Cloudy                                       |
|         | 05/12/00 | 8.1                                | 7.65 | 13.1           | 1008                            | Clear                                        |
|         | 05/24/01 | 6.4                                | 7.77 | 14.6           | 1049                            | Clear                                        |
|         | 04/19/02 | 6.0                                | 7.79 | 15.6           | 1116                            | Clear                                        |
|         | 05/22/03 | 5.2                                | 7.73 | 17.0           | 1150                            | Clear                                        |
|         | 06/08/04 | 3.1                                | 7.69 | 15.2           | 1159                            | Cloudy                                       |
| 5-16B   | 11/20/95 | 2.4                                | 7.50 | 13.0           | 800                             | Clear, strong HC odor                        |
|         | 02/21/96 | 3.5                                | 7.58 | 13.8           | 840                             | Clear, HC odor                               |
|         | 02/27/97 | 2.31                               | 7.52 | 12.0           | 1131                            | Clear, strong HC odor                        |
|         | 02/11/98 | 2.78                               | 7.16 | 11.6           | 840                             | Clear, HC odor, film/sheen                   |
|         | 04/28/99 | --                                 | --   | --             | --                              | Clear w/sheen, turns blk, PSH odor           |
|         | 05/12/00 | --                                 | --   | --             | --                              | Clear w/blk particulates, sheen, strong odor |
|         | 05/24/01 | --                                 | --   | --             | --                              | Clear w/blk particulates, sheen, strong odor |
|         | 04/20/02 | --                                 | --   | --             | --                              | Clear w/blk suspended solids, sheen          |
|         | 05/22/03 | --                                 | --   | --             | --                              | Clear w/blk suspended solids, sheen          |
|         | 06/08/04 | 1.47                               | 7.76 | 15.60          | 544                             | Brackish, strong odor                        |
|         | 06/08/05 | ---                                | 7.67 | 15.30          | 1566                            | Strong odor                                  |
|         | 07/10/06 | --                                 | --   | --             | --                              | Clear w/blk suspended solids, sheen          |
|         | 07/25/07 | --                                 | --   | --             | --                              | Clear w/blk suspended solids, sheen          |
|         | 09/23/08 | --                                 | --   | --             | --                              | Clear w/blk suspended solids, sheen          |
|         | 08/04/09 | --                                 | --   | --             | --                              | Clear w/blk suspended solids, sheen          |
| 5-17B   | 11/20/95 | 7.4                                | 7.65 | 13.4           | 1525                            | Clear, no odor                               |
|         | 05/22/96 | 6.4                                | 7.44 | 12.5           | 1005                            | Clear                                        |
|         | 02/27/97 | 4.57                               | 7.64 | 11.6           | 930                             | Clear                                        |
|         | 02/11/98 | NM                                 | 7.25 | 10.2           | 910                             | Clear                                        |
|         | 04/28/99 | -/7.8                              | 7.69 | 13.7           | 1344                            | Clear                                        |
|         | 05/12/00 | 8.2                                | 7.76 | 12.9           | 1363                            | Clear                                        |
|         | 05/23/01 | 9.2/8.0                            | 7.73 | 14.6           | 1405                            | Clear                                        |
|         | 04/19/02 | 8.4                                | 7.80 | 14.8           | 1401                            | Clear                                        |
|         | 05/22/03 | 8.6                                | 7.71 | 15.7           | 1383                            | Clear                                        |
|         | 06/08/04 | 3.3                                | 7.44 | 14.9           | 1529                            | Clear                                        |
|         | 06/08/05 | ---                                | 7.36 | 13.9           | 1816                            | ---                                          |
|         | 07/10/06 | 3.2                                | 7.25 | 13.1           | 1597                            | Clear                                        |
|         | 07/25/07 | 4.7                                | 7.48 | 13.6           | 1557                            | Clear                                        |
|         | 09/23/08 | 5.6                                | 7.83 | 13.1           | 1583                            | Clear                                        |
|         | 08/04/09 | 5.9                                | 7.02 | 13.7           | 2005                            | Clear                                        |
| 5-18B   | 11/17/95 | 1.4                                | 7.68 | 14.0           | 720                             | Clear, HC odor                               |
|         | 02/21/96 | 5.6                                | 7.76 | 12.2           | 760                             | Clear, HC odor                               |
|         | 02/27/97 | 1.29                               | 7.78 | 11.7           | 988                             | Clear, HC odor                               |
|         | 02/11/98 | 2.28                               | 7.33 | 12.8           | 790                             | Clear, HC odor                               |
|         | 04/28/99 | -/1.4                              | 7.53 | 12.7           | 1144                            | Clear, HC odor                               |
|         | 05/12/00 | 2.4                                | 7.54 | 13.4           | 1198                            | Clear, Odor                                  |
|         | 05/24/01 | 3.8                                | 7.51 | 15.7           | 1264                            | Clear                                        |
|         | 04/20/02 | 2.0                                | 7.61 | 14.5           | 1124                            | Clear                                        |
|         | 05/22/03 | 1.6                                | 7.52 | 15.6           | 1117                            | Clear, Odor                                  |
|         | 06/08/04 | 1.8                                | 7.43 | 16.5           | 1171                            | ---                                          |
|         | 06/08/05 | ---                                | 7.52 | 14.7           | 1198                            | ---                                          |
|         | 07/10/06 | 3.0                                | 7.39 | 13.9           | 964                             | Clear                                        |
|         | 07/25/07 | 1.3                                | 7.59 | 14.8           | 962                             | Clear                                        |
|         | 09/23/08 | 2.9                                | 7.91 | 14.5           | 989                             | Clear                                        |
|         | 08/04/09 | 1.1                                | 7.04 | 15.2           | 1233                            | Clear w/susp. solids, Bailed down            |

**Table 2. Summary of Field Measured Parameters  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Dissolved Oxygen (mg/L)<br>Meter/Hach | pH   | Temperature °C | Electrical Conductivity (µmhos) | Remarks                                      |
|---------|----------|---------------------------------------|------|----------------|---------------------------------|----------------------------------------------|
| 5-19B   | 11/20/95 | 2.00                                  | 7.68 | 13.0           | 700                             | Clear, slight HC odor                        |
|         | 02/21/96 | 4.4                                   | 7.81 | 12.7           | 730                             | Clear, HC odor                               |
|         | 02/27/97 | 1.9/1.8                               | 7.83 | 10.2           | 951                             | Clear, HC odor                               |
|         | 02/11/98 | 2.26                                  | 7.47 | 12.0           | 710                             | Clear, HC odor                               |
|         | 04/28/99 | --/0.4                                | 7.89 | 12.7           | 982                             | Clear, HC odor                               |
|         | 05/12/00 | 0.6/0.8                               | 7.89 | 13.0           | 986                             | Clear, slight odor                           |
|         | 05/24/01 | 1.8/1.6                               | 7.93 | 14.9           | 1007                            | Clear                                        |
|         | 04/19/02 | 0.7                                   | 8.00 | 15.1           | 1038                            | Clear                                        |
|         | 05/22/03 | 1.0                                   | 7.88 | 16.2           | 1094                            | Clear                                        |
|         | 06/08/04 | 1.5                                   | 7.87 | 15.0           | 1147                            | Cloudy                                       |
| 5-20B   | 11/17/95 | 2.9                                   | 7.16 | 13.7           | 1200                            | Clear, slight HC odor                        |
|         | 05/22/96 | 1.8                                   | 7.18 | 14.4           | 1120                            | Clear                                        |
|         | 02/27/97 | 1.51                                  | 7.21 | 11.1           | 1120                            | Slightly Cloudy                              |
|         | 02/11/98 | 0.00                                  | 7.35 | 10.9           | 1369                            | Clear                                        |
|         | 04/28/99 | --/0.8                                | 7.30 | 13.4           | 1362                            | Clear                                        |
|         | 05/12/00 | 0.5/0.6                               | 7.25 | 12.7           | 1325                            | Clear, slight odor                           |
|         | 05/24/01 | 1.1/0.8                               | 7.48 | 14.4           | 1290                            | Clear, slight odor                           |
|         | 04/19/02 | 0.7                                   | 7.49 | 14.9           | 1275                            | Clear                                        |
|         | 05/22/03 | 0.5                                   | 7.42 | 15.7           | 1306                            | Clear                                        |
|         | 06/08/04 | 1.6                                   | 7.41 | 13.9           | 1332                            | Clear                                        |
|         | 06/08/05 | ---                                   | 7.43 | 15.0           | 1347                            | ---                                          |
|         | 07/10/06 | 1.3                                   | 7.46 | 13.5           | 1030                            | Clear                                        |
|         | 07/25/07 | 1.3                                   | 7.55 | 14.3           | 1028                            | Clear                                        |
|         | 09/23/08 | 1.9                                   | 7.88 | 13.6           | 1032                            | Clear                                        |
|         | 08/04/09 | 0.3                                   | 6.99 | 14.1           | 1335                            | Clear                                        |
| 5-22B   | 11/15/95 | 6.4                                   | 7.70 | 12.9           | 990                             | Clear, no odor                               |
|         | 02/22/96 | 6.6                                   | 7.47 | 12.3           | 1030                            | Turbid, very light brown, no odor            |
|         | 02/27/97 | 3.53                                  | 7.39 | 10.0           | 1180                            | Turbid, HC odor                              |
|         | 11/18/97 | --/1.8                                | 7.80 | 13.6           | 1740                            | Turbid, slight odor                          |
| 5-23B   | 11/16/95 | 3.8                                   | 7.31 | 13.3           | 800                             | Clear, no odor                               |
|         | 05/22/96 | 2.6                                   | 7.66 | 13.0           | 1077                            | Clear                                        |
|         | 02/26/97 | --/3.4                                | 7.73 | 11.8           | 1018                            | Clear, no odor (3.4 DO is low range of Hach) |
|         | 02/10/98 | 1.0                                   | 7.77 | 10.7           | 928                             | Clear                                        |
|         | 04/27/99 | 2.6/2.0                               | 7.72 | 12.9           | 1015                            | Clear                                        |
|         | 05/11/00 | 1.5/1.8                               | 7.77 | 13.0           | 1035                            | Clear                                        |
|         | 05/23/01 | 2.1                                   | 7.72 | 14.0           | 1084                            | Clear                                        |
|         | 04/19/02 | 1.5                                   | 7.72 | 15.0           | 1103                            | Clear                                        |
|         | 05/20/03 | 1.2                                   | 7.71 | 15.6           | 1112                            | Clear                                        |
|         | 06/08/04 | 1.6                                   | 7.63 | 14.3           | 1131                            | Clear                                        |
| 5-24B   | 11/17/95 | 1.7                                   | 7.33 | 13.2           | 1050                            | Slight cloudy, HC odor                       |
|         | 05/21/96 | 3.5                                   | 7.41 | 13.9           | 1050                            | Clear                                        |
|         | 02/26/97 | --/1.4                                | 7.42 | 11.6           | 1468                            | Clear, slight odor                           |
|         | 02/10/98 | 3.2/3.0                               | 7.44 | 11.2           | 1392                            | Slightly turbid                              |
|         | 04/27/99 | 9.7/8.0                               | 7.37 | 14.1           | 1501                            | Slightly Cloudy                              |
|         | 05/11/00 | 4.8                                   | 7.43 | 13.5           | 1454                            | Cloudy                                       |
|         | 05/23/01 | 2.9                                   | 7.52 | 15.0           | 1475                            | Turbid, redish color                         |
|         | 04/19/02 | 2.2                                   | 7.56 | 15.0           | 1426                            | Very turbid, red sand                        |
|         | 05/20/03 | 1.3                                   | 7.51 | 15.4           | 1397                            | Turbid                                       |
|         | 06/08/04 | 2.8                                   | 7.68 | 15.4           | 1428                            | Turbid                                       |
| 5-37I   | 08/15/96 | 1.67                                  | 8.48 | 17.2           | 1382                            | Turbid, green cloudy color, strong HC odor   |
|         | 11/22/96 | NM                                    | 7.70 | 14.9           | 1080                            | Greenish black, strong HC odor               |

**Table 2. Summary of Field Measured Parameters  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Dissolved Oxygen<br>(mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µmhos) | Remarks                                    |
|---------|----------|------------------------------------------|------|-------------------|---------------------------------------|--------------------------------------------|
| 5-41B   | 11/16/95 | 2.00                                     | 7.28 | 14.5              | 940                                   | Clear, no odor                             |
|         | 05/21/96 | 1.82                                     | 7.41 | 15.8              | 920                                   | Clear                                      |
|         | 02/25/97 | 1.65                                     | 7.43 | 12.5              | 930                                   | Clear                                      |
|         | 08/18/97 | --/2.2                                   | 7.55 | 14.1              | 1285                                  | Clear                                      |
| 5-47B   | 11/15/95 | 2.50                                     | 7.83 | 13.0              | 900                                   | Slightly cloudy, no odor                   |
|         | 05/21/96 | 4.70                                     | 7.54 | 14.6              | 1080                                  | Clear                                      |
|         | 02/26/97 | 2.20                                     | 7.71 | 11.0              | 1000                                  | Clear                                      |
|         | 08/18/97 | --/4.0                                   | 7.68 | 16.3              | 1470                                  | Clear                                      |
| 5-48B   | 11/20/95 | 1.40                                     | 7.60 | 13.7              | 1035                                  | Clear, strong HC odor                      |
|         | 02/21/96 | 3.60                                     | 7.54 | 14.0              | 750                                   | Very slightly cloudy, HC odor              |
|         | 02/27/97 | 2.40                                     | 7.61 | 11.8              | 950                                   | Clear, strong HC odor                      |
|         | 02/12/98 | 2.23                                     | 7.44 | 14.8              | 810                                   | Clear, HC odor                             |
|         | 04/28/99 | --                                       | 7.47 | 15.4              | 1261                                  | Clear w/blk flec's, strong HC odor, sheen  |
|         | 05/12/00 | --                                       | --   | --                | --                                    | Blk, turbid, odor, sheen streamers         |
|         | 05/22/01 | --                                       | --   | --                | --                                    | Blk, turbid, odor, sheen streamers         |
|         | 04/20/02 | 0.9                                      | 7.54 | 15.7              | 1524                                  | Turbid, odor                               |
|         | 05/21/03 | --                                       | --   | --                | --                                    | Blk, suspended solids, turbid, odor, sheen |
|         | 06/07/04 | 0.9                                      | 7.51 | 16.2              | 1550                                  | Black                                      |
|         | 06/09/05 | ---                                      | 7.31 | 15.5              | 1530                                  | Black, brackish                            |
|         |          |                                          |      |                   |                                       |                                            |
| 5-57B   | 11/15/95 | 4.60                                     | 7.59 | 13.1              | 880                                   | Brown muddy                                |
|         | 05/20/96 | 3.10                                     | 8.75 | 13.2              | 1212                                  | Slightly turbid                            |
|         | 02/25/97 | --/3.4                                   | 7.71 | 10.6              | 1191                                  | Light amber, no odor                       |
|         | 08/18/97 | 0.7/2.6                                  | 7.69 | 14.4              | 1071                                  | Slightly turbid                            |
| 5-58B   | 11/16/95 | 8.10                                     | 7.47 | 14.8              | 740                                   | Cloudy brown, no odor                      |
|         | 05/20/96 | 6.70                                     | 8.71 | 13.2              | 1073                                  | Slightly turbid                            |
|         | 02/25/97 | 7.0b                                     | 7.69 | 11.4              | 1073                                  | Light amber, no odor                       |
|         | 08/18/97 | 5.8/6.5                                  | 7.68 | 15.2              | 964                                   | Slightly turbid                            |
| 5-59    | 11/18/01 | 6.2                                      | 7.50 | 14.5              | 1430                                  | Turbid, bailed down                        |
|         | 04/20/02 | 6.7                                      | 7.60 | 14.1              | 1431                                  | Turbid, bailed down                        |
|         | 05/21/03 | 5.9                                      | 7.40 | 15.3              | 1519                                  | Turbid, bailed down                        |
|         | 06/08/04 | 3.2                                      | 7.38 | 12.8              | 1495                                  | Turbid, bailed down                        |
|         | 06/09/05 | ---                                      | 7.37 | 14.2              | 1453                                  | ---                                        |
|         | 07/10/06 | 6.7                                      | 7.42 | 13.3              | 1112                                  | Turbid, bailed down                        |
|         | 07/25/07 | 5.5                                      | 7.33 | 14.1              | 1124                                  | Turbid, bailed down                        |
|         | 09/23/08 | 6.0                                      | 7.84 | 12.9              | 1143                                  | Turbid, bailed down                        |
|         | 08/04/09 | 5.8                                      | 7.13 | 14.3              | 1501                                  | Clear, bailed down                         |
| 5-60    | 11/18/01 | 6.5                                      | 7.67 | 14.5              | 1296                                  | Very turbid, bailed down                   |
|         | 04/20/02 | 6.6                                      | 7.74 | 14.1              | 1291                                  | Very turbid, bailed down                   |
|         | 05/21/03 | 7.7                                      | 7.63 | 15.6              | 1297                                  | Very turbid, bailed down                   |
|         | 06/07/04 | 3.1                                      | 7.60 | 13.9              | 1415                                  | Cloudy, bailed down                        |
|         | 06/09/05 | ---                                      | 7.65 | 12.5              | 1428                                  | ---                                        |
|         | 07/10/06 | 7.4                                      | 7.40 | 13.3              | 1095                                  | Turbid, bailed down                        |
|         | 07/25/07 | 6.9                                      | 7.50 | 13.6              | 1059                                  | Turbid, bailed down                        |
|         | 09/23/08 | 6.8                                      | 7.87 | 12.9              | 1034                                  | Turbid, bailed down                        |
|         | 08/04/09 | 7.2                                      | 7.23 | 14.1              | 1362                                  | Turbid, bailed down                        |

**Table 2. Summary of Field Measured Parameters  
Thoreau Compressor Station No. 5**

| Well ID                                                                                                                                                   | Date     | Dissolved<br>Oxygen<br>(mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µmhos) | Remarks              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------|------|-------------------|---------------------------------------|----------------------|
| SVE-1                                                                                                                                                     | 05/11/00 | 7.8                                         | 7.90 | 13.5              | 992                                   | Red turbid           |
|                                                                                                                                                           | 11/18/01 | 8.3                                         | 7.90 | 15.6              | 1016                                  | Turbid               |
|                                                                                                                                                           | 04/18/02 | 8.3                                         | 7.96 | 15.7              | 1017                                  | Turbid, bailing down |
|                                                                                                                                                           | 05/21/03 | 8.5                                         | 7.80 | 17.7              | 1009                                  | Clear                |
|                                                                                                                                                           | 06/07/04 | 2.1                                         | 7.98 | 21.7              | 1062                                  | ---                  |
| HC = Hydrocarbon<br>NM = Not measured<br>(a) Value above theoretical dissolved oxygen concentration for this altitude; therefore, measurement is suspect. |          |                                             |      |                   |                                       |                      |

**Table 3. Summary of Analytical Results for BTEX Compounds  
Thoreau Compressor Station No. 5**

| Well ID     | Date     | Lab      | BTEX Concentration (ug/L) |         |                   |                  |
|-------------|----------|----------|---------------------------|---------|-------------------|------------------|
|             |          |          | Benzene                   | Toluene | Ethyl-<br>benzene | Total<br>Xylenes |
| 5-01B       | 12/89    | ER       | < 5.0                     | 6.3     | < 5.0             | NA               |
|             | 03/90    | ER       | < 5.0                     | < 5.0   | < 5.0             | 25               |
|             | 01/91    | EH       | < 1.0                     | < 1.0   | < 1.0             | 4.8              |
|             | 01/09/92 | ER       | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|             | 12/13/94 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|             | 06/27/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|             | 02/22/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|             | 02/28/97 | HEAL     | 0.6                       | < 0.5   | < 0.5             | < 0.5            |
|             | 08/21/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
| 5-01C       | 11/23/97 | HEAL     | 1.4                       | < 0.5   | < 0.5             | < 0.5            |
|             | 01/08/98 | HEAL     | 2.0                       | < 0.5   | < 0.5             | < 0.5            |
|             | 04/29/99 | OAL      | < 1                       | < 1     | < 1               | < 1              |
| Pulled pump | 05/12/00 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|             | 05/22/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|             | 04/20/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|             | 05/21/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|             | 06/07/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|             | 06/08/05 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|             | 07/11/06 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 3.0            |
|             | 07/25/07 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|             | 09/23/08 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|             | 08/04/09 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
| 5-02B       | 05/89    | ER       | 1800                      | 2000    | < 200             | NA               |
|             | 03/90    | ER       | 2300                      | 3800    | < 250             | 2400             |
|             | 01/91    | EH       | 600                       | 730     | 110               | 940              |
|             | 01/09/92 | ER       | 360                       | 710     | 52                | 480              |
|             | 04/22/93 | ATI-A    | 120                       | < 0.5   | 11                | 38               |
|             | 12/09/94 | HEAL     | 2100                      | 2600    | 220               | 1800             |
|             | 11/21/95 | HEAL     | 740                       | 2900    | 160               | 1100             |
|             | 02/22/96 | HEAL     | 260                       | 1000    | 62                | 600              |
|             | 02/28/97 | HEAL     | 260                       | 500     | 90                | 680              |
| 5-02C       | 11/23/97 | HEAL     | 26                        | 2.7     | 9.1               | 2.7              |
|             | 02/11/98 | HEAL     | 110                       | 7.0     | 33                | 8.3              |
|             | 04/28/99 | OAL      | 1500                      | 4400    | 260               | 2500             |
|             | 05/13/00 | OAL      | 980                       | 3400    | 340               | 3500             |
|             | 05/24/01 | Analysys | 446                       | 60      | 340               | 3406             |
|             | 04/20/02 | HEAL     | 450                       | < 10    | 300               | 3100             |
|             | 05/22/03 | HEAL     | 290                       | < 10    | 200               | 800              |
|             | 06/08/04 | HEAL     | 270                       | 28      | 160               | 1000             |
|             | 06/09/05 | HEAL     | 300                       | < 10    | 190               | 1700             |

**Table 3. Summary of Analytical Results for BTEX Compounds  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Lab      | BTEX Concentration (ug/L) |         |                   |                  |
|---------|----------|----------|---------------------------|---------|-------------------|------------------|
|         |          |          | Benzene                   | Toluene | Ethyl-<br>benzene | Total<br>Xylenes |
| 5-03B   | 05/89    | ER       | < 5.0                     | < 5.0   | < 5.0             | NA               |
|         | 04/90    | ER       | < 5.0                     | < 5.0   | < 5.0             | < 5.0            |
|         | 01/91    | EH       | < 0.30                    | < 0.30  | < 0.30            | < 0.60           |
|         | 01/09/92 | ER       | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 12/09/94 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 11/15/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 05/21/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/24/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/10/98 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 04/27/99 | OAL      | < 1                       | < 1     | < 1               | < 1              |
|         | 05/11/00 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|         | 05/22/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 04/18/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 05/20/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/07/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
| 5-04B   | 10/89    | ER       | < 25                      | < 25    | < 25              | NA               |
|         | 01/90    | ER       | 21                        | < 5.0   | < 5.0             | NA               |
|         | 01/91    | EH       | 22                        | 1.6     | 0.75              | 5.6              |
|         | 01/10/92 | ER       | 53                        | < 1.2   | 3.7               | 44               |
|         | 04/21/93 | ATI-A    | 170                       | 130     | 26                | 280              |
|         | 12/12/94 | HEAL     | 12                        | 2.2     | 3.4               | 3.3              |
|         | 11/17/95 | HEAL     | 9.9                       | 1.1     | 0.6               | < 0.5            |
|         | 02/20/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 05/14/00 | OAL      | 3                         | < 2     | < 2               | < 4              |
|         | 05/22/01 | Analysys | 1.72                      | < 1     | < 1               | < 2              |
|         | 04/19/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 05/21/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 11/11/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         |          |          |                           |         |                   |                  |
| 5-05B   | 10/89    | ER       | < 5.0                     | < 5.0   | 8.7               | NA               |
|         | 04/90    | ER       | < 5.0                     | < 5.0   | < 5.0             | < 5.0            |
|         | 01/91    | EH       | < 0.50                    | < 0.50  | < 0.50            | 0.56             |
|         | 01/09/92 | ER       | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 04/21/93 | ATI-A    | 38                        | < 0.5   | 2.4               | 3                |
|         | 12/12/94 | HEAL     | 150                       | 33      | 16                | 47               |
|         | 11/17/95 | HEAL     | 5.0                       | < 0.5   | < 0.5             | < 0.5            |
|         | 05/21/96 | HEAL     | 1.0                       | < 0.5   | < 0.5             | < 0.5            |
|         | 02/25/97 | HEAL     | 3.0                       | 1.4     | < 0.5             | 0.6              |
|         | 10/14/99 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|         | 05/11/00 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|         | 05/22/01 | Analysys | 1.61                      | < 1     | < 1               | < 2              |
|         | 04/18/02 | HEAL     | 5.2                       | < 0.50  | < 0.50            | < 0.50           |
|         | 05/21/03 | HEAL     | 2.1                       | 0.92    | 1.0               | 2.6              |
|         | 06/08/04 | HEAL     | 2.5                       | < 0.50  | 0.51              | 1.3              |
|         |          |          |                           |         |                   |                  |

**Table 3. Summary of Analytical Results for BTEX Compounds  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Lab      | BTEX Concentration (ug/L) |         |                   |                  |
|---------|----------|----------|---------------------------|---------|-------------------|------------------|
|         |          |          | Benzene                   | Toluene | Ethyl-<br>benzene | Total<br>Xylenes |
| 5-06B   | 10/89    | ER       | 15                        | < 5.0   | < 5.0             | NA               |
|         | 01/90    | ER       | < 5.0                     | < 5.0   | 8.3               | NA               |
|         | 01/91    | EH       | < 1.0                     | < 1.0   | < 1.0             | 31               |
|         | 01/09/92 | ER       | 2.3                       | < 0.50  | < 0.50            | < 0.50           |
|         | 12/14/94 | HEAL     | 4.3                       | < 0.50  | < 0.50            | 0.7              |
|         | 11/21/95 | HEAL     | 6.2                       | < 0.5   | < 0.5             | < 0.5            |
|         | 02/22/96 | HEAL     | 4.3                       | < 0.5   | < 0.5             | < 0.5            |
|         | 02/28/97 | HEAL     | 0.9                       | < 5.0   | < 5.0             | < 0.5            |
|         | 08/20/97 | HEAL     | 0.7                       | < 5.0   | < 5.0             | < 0.5            |
|         |          |          |                           |         |                   |                  |
| 5-06C   | 11/23/97 | HEAL     | 1.4                       | 0.6     | < 5.0             | 11               |
|         | 12/08/98 | HEAL     | 1.0                       | < 0.5   | < 0.5             | 5.7              |
|         | 04/29/99 | OAL      | < 1                       | < 1     | < 1               | < 1              |
|         | 05/13/00 | OAL      | 1                         | < 2     | < 2               | < 4              |
|         | 05/22/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 04/20/02 | HEAL     | 1.1                       | < 0.50  | < 0.50            | < 0.50           |
|         | 05/21/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/07/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/09/05 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 07/11/06 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 3.0            |
|         | 07/25/07 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|         | 09/23/08 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|         | 08/04/09 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|         |          |          |                           |         |                   |                  |
|         |          |          |                           |         |                   |                  |
| 5-12B   | 08/90    | AS       | < 1                       | < 1     | < 1               | < 1              |
|         | 01/91    | EH       | 1.5                       | 4.7     | 0.79              | 3.8              |
|         | 01/07/92 | ER       | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 11/16/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 05/21/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/26/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/11/98 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 04/27/99 | OAL      | < 1                       | < 1     | < 1               | < 1              |
|         | 05/11/00 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|         | 05/23/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 04/19/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 05/20/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         |          |          |                           |         |                   |                  |
|         |          |          |                           |         |                   |                  |

**Table 3. Summary of Analytical Results for BTEX Compounds  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Lab      | BTEX Concentration (ug/L) |         |                   |                  |
|---------|----------|----------|---------------------------|---------|-------------------|------------------|
|         |          |          | Benzene                   | Toluene | Ethyl-<br>benzene | Total<br>Xylenes |
| 5-13B   | 08/90    | AS       | 54                        | 13      | < 1               | 330              |
|         | 11/90    | EH       | 61                        | < 10    | < 10              | 480              |
|         | 01/91    | EH       | 180                       | 17      | < 5.0             | 310              |
|         | 01/08/92 | ER       | 150                       | < 25    | < 25              | 570              |
|         | 11/20/95 | HEAL     | < 0.5                     | < 0.5   | 0.6               | 2.0              |
|         | 02/21/96 | HEAL     | 1.0                       | 0.7     | < 0.5             | < 0.5            |
|         | 02/26/97 | HEAL     | 1.5                       | 5.9     | < 0.5             | 2.5              |
|         | 02/11/98 | HEAL     | 0.9                       | 1.5     | < 0.5             | < 0.5            |
|         | 04/27/99 | OAL      | < 1                       | < 1     | < 1               | < 1              |
|         | 05/11/00 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|         | 05/23/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 04/19/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 05/20/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
| 5-14B   | 08/90    | AS       | < 1                       | < 1     | < 1               | < 1              |
|         | 01/91    | EH       | < 0.50                    | < 0.50  | < 0.50            | < 1.0            |
|         | 01/06/92 | ER       | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 11/16/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 05/21/96 | HEAL     | < 0.5                     | 2.6     | 1.5               | < 0.5            |
|         | 02/26/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/10/98 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 04/27/99 | OAL      | < 1                       | < 1     | < 1               | < 1              |
|         | 05/11/00 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|         | 05/24/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 04/19/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 05/22/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
| 5-15B   | 08/90    | AS       | < 1                       | < 1     | < 1               | < 1              |
|         | 01/91    | EH       | < 0.30                    | < 0.30  | < 0.30            | 1.0              |
|         | 01/07/92 | ER       | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 11/16/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 05/21/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/26/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/11/98 | HEAL     | 1.5                       | < 0.5   | 1.0               | 1.2              |
|         | 04/28/99 | OAL      | < 1                       | < 1     | < 1               | < 1              |
|         | 05/12/00 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|         | 05/24/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 04/19/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 05/22/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |

**Table 3. Summary of Analytical Results for BTEX Compounds  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Lab      | BTEX Concentration (ug/L) |         |                   |                  |
|---------|----------|----------|---------------------------|---------|-------------------|------------------|
|         |          |          | Benzene                   | Toluene | Ethyl-<br>benzene | Total<br>Xylenes |
| 5-16B   | 08/90    | AS       | 19                        | 25      | 50                | 320              |
|         | 01/91    | EH       | < 0.30                    | < 0.30  | < 0.30            | < 0.60           |
|         | 01/08/92 | ER       | 200                       | 500     | 410               | 3000             |
|         | 04/20/93 | ATI-A    | 6.5                       | < 0.5   | 14                | 51               |
|         | 11/20/95 | HEAL     | 970                       | 7100    | 430               | 3100             |
|         | 02/21/96 | HEAL     | 1700                      | 6900    | 340               | 3600             |
|         | 02/27/97 | HEAL     | 250                       | 1100    | 190               | 2000             |
|         | 02/11/98 | HEAL     | 41                        | 360     | 90                | 660              |
|         | 04/28/99 | OAL      | 200                       | 170     | 45                | 620              |
|         | 05/12/00 | OAL      | 600                       | 290     | 92                | 360              |
|         | 05/24/01 | Analysys | 1240                      | 487     | 174               | 1105             |
|         | 04/20/02 | HEAL     | 1800                      | 660     | 230               | 1400             |
|         | 05/22/03 | HEAL     | 1300                      | 130     | 180               | 950              |
|         | 06/08/04 | HEAL     | 890                       | < 5     | 110               | 260              |
|         | 06/08/05 | HEAL     | 1400                      | < 5     | 160               | 520              |
|         | 07/10/06 | HEAL     | 1600                      | < 20    | 150               | 380              |
|         | 07/25/07 | HEAL     | 1700                      | < 20    | 170               | 590              |
|         | 09/23/08 | HEAL     | 1900                      | < 5     | 180               | 600              |
|         | 08/04/09 | HEAL     | 1300                      | < 5     | 150               | 590              |
| 5-17B   | 08/90    | AS       | < 1                       | < 1     | < 1               | < 1              |
|         | 01/91    | EH       | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 01/08/92 | ER       | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 11/20/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 05/21/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/27/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/11/98 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 04/28/99 | OAL      | < 1                       | < 1     | < 1               | < 1              |
|         | 05/12/00 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|         | 05/23/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 04/19/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 05/22/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/05 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 07/10/06 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 3.0            |
|         | 07/25/07 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|         | 09/23/08 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|         | 08/04/09 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |

**Table 3. Summary of Analytical Results for BTEX Compounds  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Lab      | BTEX Concentration (ug/L) |         |                   |                  |
|---------|----------|----------|---------------------------|---------|-------------------|------------------|
|         |          |          | Benzene                   | Toluene | Ethyl-<br>benzene | Total<br>Xylenes |
| 5-18B   | 08/90    | AS       | 1100                      | 14      | < 1               | 220              |
|         | 01/91    | EH       | 1300                      | < 25    | < 25              | 170              |
|         | 01/08/92 | ER       | 1100                      | < 25    | < 25              | 88               |
|         | 04/22/93 | ATI-A    | 360                       | < 0.5   | 0.5               | 2.6              |
|         | 11/17/95 | HEAL     | 240                       | 24      | 22                | 53               |
|         | 02/21/96 | HEAL     | 290                       | 54      | 37                | 110              |
|         | 02/27/97 | HEAL     | 9.4                       | 5.2     | 64                | 1.5              |
|         | 02/11/98 | HEAL     | 0.9                       | 6.4     | 120               | 1.1              |
|         | 04/28/99 | OAL      | 2                         | < 1     | < 1               | 2.0              |
|         | 05/12/00 | OAL      | 10                        | < 2     | 12                | 14               |
|         | 05/24/01 | Analysys | 2.92                      | < 1     | < 1               | < 2              |
|         | 04/20/02 | HEAL     | 0.55                      | < 0.50  | 0.72              | 0.89             |
|         | 05/22/03 | HEAL     | < 0.50                    | 5.9     | < 0.50            | 2.5              |
|         | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | 0.91              | 1.2              |
|         | 06/08/05 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 07/10/06 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 3.0            |
|         | 07/25/07 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
| 5-19B   | 08/90    | AS       | 190                       | 3.5     | 5.8               | 44               |
|         | 01/91    | EH       | 150                       | < 0.30  | 0.60              | 15               |
|         | 01/08/92 | ER       | 240                       | < 5.0   | < 5.0             | 9.0              |
|         | 11/20/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/21/96 | HEAL     | 0.9                       | 0.8     | < 0.5             | < 0.5            |
|         | 02/27/97 | HEAL     | 1.3                       | 1       | < 0.5             | 0.7              |
|         | 02/11/98 | HEAL     | 2.3                       | 1.8     | 0.8               | 0.7              |
|         | 04/28/99 | OAL      | 43                        | < 1     | 1                 | 3                |
|         | 05/12/00 | OAL      | 16                        | < 2     | 3                 | 4                |
|         | 05/24/01 | Analysys | < 1                       | < 1     | 1.17              | < 2              |
|         | 04/19/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 05/22/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         |          |          |                           |         |                   |                  |
|         |          |          |                           |         |                   |                  |
|         |          |          |                           |         |                   |                  |
|         |          |          |                           |         |                   |                  |

**Table 3. Summary of Analytical Results for BTEX Compounds  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Lab      | BTEX Concentration (ug/L) |         |                   |                  |
|---------|----------|----------|---------------------------|---------|-------------------|------------------|
|         |          |          | Benzene                   | Toluene | Ethyl-<br>benzene | Total<br>Xylenes |
| 5-20B   | 08/90    | AS       | 58                        | 8.0     | < 1               | 51               |
|         | 01/91    | EH       | 93                        | 14      | < 1.0             | 23               |
|         | 01/08/92 | ER       | 31                        | < 1.2   | < 1.2             | 6.7              |
|         | 04/21/93 | ATI-A    | 14                        | < 0.5   | 6.1               | 10               |
|         | 11/17/95 | HEAL     | 12                        | 2.3     | < 0.5             | 2.6              |
|         | 05/21/96 | HEAL     | 1.7                       | 1.3     | 0.8               | < 0.5            |
|         | 02/27/97 | HEAL     | 12                        | 1.3     | 1.8               | 3.3              |
|         | 02/11/98 | HEAL     | < 0.5                     | 1.3     | 2.3               | 0.5              |
|         | 04/28/99 | OAL      | < 1                       | < 1     | 1                 | < 1              |
|         | 05/12/00 | OAL      | 1                         | < 2     | 2                 | < 4              |
|         | 05/24/01 | Analysys | 3.28                      | < 1     | < 1               | < 2              |
|         | 04/19/02 | HEAL     | 0.86                      | < 0.50  | < 0.50            | < 0.50           |
|         | 05/22/03 | HEAL     | 1.0                       | 0.91    | < 0.50            | < 0.50           |
|         | 06/08/04 | HEAL     | 1.1                       | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/05 | HEAL     | 1.0                       | 0.53    | < 0.50            | < 0.50           |
|         | 07/12/06 | HEAL     | 1.3                       | < 1     | < 1               | < 3              |
|         | 07/25/07 | HEAL     | < 1                       | < 1     | < 1               | < 2              |
|         | 09/23/08 | HEAL     | < 1                       | < 1     | < 1               | < 2              |
|         | 08/04/09 | HEAL     | < 1                       | < 1     | < 1               | < 2              |
| 5-22B   | 10/90    | AS       | < 1                       | < 1     | < 1               | < 1              |
|         | 01/91    | EH       | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 01/10/92 | ER       | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 12/12/94 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 11/15/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/21/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/27/97 | HEAL     | 5.6                       | 9.3     | < 0.5             | 65               |
|         | 11/18/97 | HEAL     | 3.8                       | 2.3     | < 0.5             | 0.6              |
| 5-23B   | 10/90    | AS       | 5.3                       | < 1     | < 1               | < 1              |
|         | 01/91    | EH       | 3.0                       | < 0.50  | < 0.50            | < 0.60           |
|         | 01/07/92 | ER       | 0.65                      | < 0.50  | < 0.50            | < 0.50           |
|         | 11/16/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 05/22/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/26/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/10/98 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 04/27/99 | OAL      | < 1                       | < 1     | < 1               | < 1              |
|         | 05/11/00 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|         | 05/23/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 04/19/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 05/20/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         |          |          |                           |         |                   |                  |

**Table 3. Summary of Analytical Results for BTEX Compounds  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Lab      | BTEX Concentration (ug/L) |         |                   |                  |
|---------|----------|----------|---------------------------|---------|-------------------|------------------|
|         |          |          | Benzene                   | Toluene | Ethyl-<br>benzene | Total<br>Xylenes |
| 5-24B   | 10/90    | AS       | 63                        | < 1     | 2.0               | 1.6              |
|         | 01/91    | EH       | 40                        | 0.55    | 0.74              | < 1.0            |
|         | 01/07/92 | ER       | 120                       | < 2.5   | < 2.5             | < 2.5            |
|         | 04/21/93 | ATI-P    | < 0.5                     | < 0.5   | 0.7               | 1.4              |
|         | 11/17/95 | HEAL     | 1.2                       | 0.8     | 0.5               | 1.0              |
|         | 05/21/96 | HEAL     | < 0.5                     | 0.9     | < 0.5             | 0.7              |
|         | 02/26/97 | HEAL     | 0.9                       | 0.6     | 1                 | 1.8              |
|         | 02/10/98 | HEAL     | 0.5                       | < 0.5   | 0.7               | < 0.5            |
|         | 04/27/99 | OAL      | < 1                       | < 1     | < 1               | < 1              |
|         | 05/11/00 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|         | 05/23/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 04/19/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | 0.59             |
|         | 05/20/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
| 5-34B   | 01/07/92 | ER       | 120                       | < 2.5   | < 2.5             | < 2.5            |
|         | 04/21/93 | ATI-A    | < 0.5                     | < 0.5   | 0.7               | 1.4              |
|         | 12/13/94 | HEAL     | 4700                      | 13,000  | 460               | 5,900            |
| 5-35B   | 04/22/93 | ATI-A    | 360                       | 1400    | 130               | 1700             |
| 5-36E   | 12/14/94 | HEAL     | 620                       | 2700    | 230               | 3300             |
| 5-37I   | 02/22/96 | HEAL     | 640                       | 520     | 24                | 990              |
|         | 08/15/96 | HEAL     | 310                       | 54      | 14                | 430              |
|         | 11/22/96 | HEAL     | 440                       | 140     | 20                | 520              |
| 5-41B   | 10/09/92 | ATI-P    | 47                        | 3.9     | 0.7               | 1.0              |
|         | 04/20/93 | ATI-A    | 1.4                       | < 0.5   | 2.5               | 2.1              |
|         | 11/16/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 05/21/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/25/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 08/18/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
| 5-47B   | 10/07/92 | ATI-P    | 1.0                       | < 0.5   | < 0.5             | < 0.5            |
|         | 04/20/93 | ATI-A    | 2.9                       | < 0.5   | < 0.5             | < 0.5            |
|         | 11/15/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 05/21/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/26/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 08/18/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |

**Table 3. Summary of Analytical Results for BTEX Compounds  
Thoreau Compressor Station No. 5**

| Well ID | Date     | Lab      | BTEX Concentration (ug/L) |         |                   |                  |
|---------|----------|----------|---------------------------|---------|-------------------|------------------|
|         |          |          | Benzene                   | Toluene | Ethyl-<br>benzene | Total<br>Xylenes |
| 5-48B   | 10/12/92 | ATI-P    | 380                       | 1100    | 84                | 840              |
|         | 04/21/93 | ATI-A    | 99                        | 390     | 34                | 360              |
|         | 11/20/95 | HEAL     | 820                       | 1700    | 390               | 2600             |
|         | 02/21/96 | HEAL     | 690                       | 1100    | 550               | 3300             |
|         | 02/27/97 | HEAL     | 1100                      | 10000   | 430               | 4700             |
|         | 02/11/98 | HEAL     | 2100                      | 8000    | 460               | 4600             |
|         | 04/28/99 | OAL      | 1700                      | 4400    | 140               | 3100             |
|         | 05/12/00 | OAL      | 1400                      | 680     | 270               | 2200             |
|         | 05/22/01 | Analysys | 683                       | 194     | 28.8              | 1703             |
|         | 04/20/02 | HEAL     | 1100                      | 23      | 190               | 1700             |
|         | 05/21/03 | HEAL     | 2100                      | < 50    | 320               | 2700             |
|         | 06/07/04 | HEAL     | 3400                      | 38      | 420               | 3200             |
|         | 06/09/05 | HEAL     | 2500                      | < 25    | 200               | 1500             |
|         |          |          |                           |         |                   |                  |
| 5-57B   | 04/19/93 | ATI-A    | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 11/15/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 05/21/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/25/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 08/18/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         |          |          |                           |         |                   |                  |
| 5-58B   | 04/19/93 | ATI-A    | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 11/16/95 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 05/21/96 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 02/25/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         | 08/18/97 | HEAL     | < 0.5                     | < 0.5   | < 0.5             | < 0.5            |
|         |          |          |                           |         |                   |                  |
| 5-59    | 07/28/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 11/19/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 04/20/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 05/21/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/09/05 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 07/11/06 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 3.0            |
|         | 07/25/07 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|         | 09/23/08 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|         | 08/04/09 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|         |          |          |                           |         |                   |                  |
| 5-60    | 11/18/01 | Analysys | < 1                       | < 1     | < 1               | < 2              |
|         | 04/20/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 05/21/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 06/09/05 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|         | 07/11/06 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 3.0            |
|         | 07/25/07 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|         | 09/23/08 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|         | 08/04/09 | HEAL     | < 1.0                     | < 1.0   | < 1.0             | < 2.0            |
|         |          |          |                           |         |                   |                  |

**Table 3. Summary of Analytical Results for BTEX Compounds  
Thoreau Compressor Station No. 5**

| Well ID                                                     | Date     | Lab      | BTEX Concentration (ug/L) |         |                   |                  |
|-------------------------------------------------------------|----------|----------|---------------------------|---------|-------------------|------------------|
|                                                             |          |          | Benzene                   | Toluene | Ethyl-<br>benzene | Total<br>Xylenes |
| SVE-1                                                       | 05/11/00 | OAL      | < 1                       | < 2     | < 2               | < 4              |
|                                                             | 11/18/01 | Analysys | <1                        | <1      | <1                | <2               |
|                                                             | 04/18/02 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|                                                             | 05/22/03 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
|                                                             | 06/08/04 | HEAL     | < 0.50                    | < 0.50  | < 0.50            | < 0.50           |
| † Lab Designations                                          |          |          |                           |         |                   |                  |
| ABB = ASEA Brown Boveri                                     |          |          |                           |         |                   |                  |
| AEN = American Environmental Network, Inc. (Albuquerque)    |          |          |                           |         |                   |                  |
| AS = Assaigai Laboratories (Albuquerque)                    |          |          |                           |         |                   |                  |
| ATI-A = Analytical Technologies, Inc. (Albuquerque)         |          |          |                           |         |                   |                  |
| ATI-P = Analytical Technologies, Inc. (Phoenix)             |          |          |                           |         |                   |                  |
| ER = Ensco (Rocky Mountain Analytical)                      |          |          |                           |         |                   |                  |
| EH = Ensco (Houston)                                        |          |          |                           |         |                   |                  |
| HEAL = Hall Environmental Analysis Laboratory (Albuquerque) |          |          |                           |         |                   |                  |
| OAL = Oregon Analytical Laboratory (Portland, OR)           |          |          |                           |         |                   |                  |
| NCA = North Creek Analytical (Portland, OR)                 |          |          |                           |         |                   |                  |
| Analysys = Analysys Inc. (Austin, TX)                       |          |          |                           |         |                   |                  |
| NA = Not Analyzed                                           |          |          |                           |         |                   |                  |

**Table 4. Summary of Analytical Results for PCB Compounds  
Thoreau Compressor Station No. 5**

| Well ID     | Date     | Lab †    | PCB Concentration by Aroclor (µg/L) |       |       |        |        |        |        |       | 1016/1242 | 1016/1221 |
|-------------|----------|----------|-------------------------------------|-------|-------|--------|--------|--------|--------|-------|-----------|-----------|
|             |          |          | 1016                                | 1221  | 1232  | 1242   | 1248   | 1254   | 1260   |       |           |           |
| 5-01C       | 05/12/00 | OAL      | 2.7                                 | < 0.5 | < 0.5 | < 0.5  | < 0.5  | < 0.5  | < 0.5  | --    | --        | --        |
|             | 11/17/00 | NCA      | < 0.5                               | < 1.0 | < 0.5 | 1.9    | < 0.5  | < 0.5  | < 0.5  | --    | --        | --        |
|             | 05/22/01 | Analysys | --                                  | < 0.5 | < 0.5 | --     | < 0.5  | < 0.5  | < 0.5  | < 0.5 | --        | --        |
|             | 11/19/01 | Analysys | --                                  | < 0.5 | < 0.5 | --     | < 0.5  | < 0.5  | < 0.5  | 13.5  | --        | --        |
|             | 04/20/02 | NCA      | < 0.5                               | 1.37  | < 0.5 | < 0.5  | < 0.5  | < 0.5  | < 0.5  | --    | --        | --        |
|             | 10/30/02 | HEAL     | 1.5                                 | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 05/21/03 | HEAL     | --                                  | --    | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | 2.6       |
|             | 11/10/03 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 06/07/04 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 06/08/05 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 07/11/06 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 07/25/07 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 09/23/08 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 08/04/09 | HEAL     | < 1.0                               | < 1.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
| 5-06C       | 05/13/00 | OAL      | 7.2                                 | < 0.5 | < 0.5 | 266    | < 0.5  | < 0.5  | < 0.5  | --    | --        | --        |
| Dup (5-99)  | 05/13/00 | OAL      | 6.6                                 | < 0.5 | < 0.5 | 263    | < 0.5  | < 0.5  | < 0.5  | --    | --        | --        |
|             | 11/17/00 | NCA      | < 0.5                               | < 1.0 | < 0.5 | 5.23   | < 0.5  | < 0.5  | < 0.5  | --    | --        | --        |
| Dup (5-99)  | 11/17/00 | NCA      | 4.45                                | < 0.5 | < 0.5 | 5.17   | < 0.5  | < 0.5  | < 0.5  | --    | --        | --        |
|             | 05/22/01 | Analysys | --                                  | < 0.5 | < 0.5 | --     | < 0.5  | < 0.5  | < 0.5  | 3.1   | --        | --        |
| Dup (5-99)  | 05/22/01 | Analysys | --                                  | < 0.5 | < 0.5 | --     | < 0.5  | < 0.5  | < 0.5  | 5.81  | --        | --        |
|             | 11/18/01 | Analysys | --                                  | < 0.5 | < 0.5 | --     | < 0.5  | < 0.5  | < 0.5  | 43.7  | --        | --        |
| Dup (5-66)  | 11/18/01 | Analysys | --                                  | < 0.5 | < 0.5 | --     | < 0.5  | < 0.5  | < 0.5  | 40.5  | --        | --        |
|             | 04/20/02 | NCA      | < 10.0                              | 150   | < 0.5 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | --    | --        | --        |
| Dup (5-66)  | 04/20/02 | NCA      | < 10.0                              | 168   | < 0.5 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | --    | --        | --        |
|             | 10/30/02 | HEAL     | --                                  | --    | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | 41        |
|             | 05/21/03 | HEAL     | --                                  | --    | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | 5.8       |
|             | 11/10/03 | HEAL     | 1.7                                 | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 06/07/04 | HEAL     | 2.8                                 | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 06/09/05 | HEAL     | 2.2                                 | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 07/11/06 | HEAL     | 1.5                                 | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 07/25/07 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | 1.1    | < 1.0  | < 1.0  | --    | --        | --        |
| Dup (5-61)  | 07/25/07 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | 1.1    | < 1.0  | < 1.0  | --    | --        | --        |
|             | 09/23/08 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
| Dup (5-61)  | 09/23/08 | HEAL     | 1.3                                 | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 08/04/09 | HEAL     | 1.3                                 | < 1.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
| Dup (5-61B) | 08/04/09 | HEAL     | 1.7                                 | < 1.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
| 5-17B       | 05/12/00 | OAL      | < 0.5                               | < 0.5 | < 0.5 | < 0.5  | < 0.5  | < 0.5  | < 0.5  | --    | --        | --        |
|             | 11/17/00 | NCA      | < 0.5                               | < 1.0 | < 0.5 | < 0.5  | < 0.5  | < 0.5  | < 0.5  | --    | --        | --        |
|             | 05/23/01 | Analysys | --                                  | < 0.5 | < 0.5 | --     | < 0.5  | < 0.5  | < 0.5  | < 0.5 | --        | --        |
|             | 11/17/01 | Analysys | --                                  | < 0.5 | < 0.5 | --     | < 0.5  | < 0.5  | < 0.5  | < 0.5 | --        | --        |
|             | 04/19/02 | NCA      | < 0.5                               | < 1.0 | < 0.5 | < 0.5  | < 0.5  | < 0.5  | < 0.5  | --    | --        | --        |
|             | 10/31/02 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 05/22/03 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 11/11/03 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 06/08/04 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 06/08/05 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 07/10/06 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 07/25/07 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 09/23/08 | HEAL     | < 1.0                               | < 5.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |
|             | 08/04/09 | HEAL     | < 1.0                               | < 1.0 | < 1.0 | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --    | --        | --        |

**Table 4. Summary of Analytical Results for PCB Compounds  
Thoreau Compressor Station No. 5**

| Well ID     | Date     | Lab †    | PCB Concentration by Aroclor (µg/L) |             |        |        |        |        |        |             | 1016/1242 | 1016/1221 |
|-------------|----------|----------|-------------------------------------|-------------|--------|--------|--------|--------|--------|-------------|-----------|-----------|
|             |          |          | 1016                                | 1221        | 1232   | 1242   | 1248   | 1254   | 1260   |             |           |           |
| 5-59        | 07/28/01 | Analysys | < 0.5                               | < 0.5       | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | --          | --        | --        |
|             | 11/19/01 | Analysys | --                                  | < 0.5       | < 0.5  | --     | < 0.5  | < 0.5  | < 0.5  | <b>30.7</b> | --        | --        |
|             | 04/20/02 | NCA      | < 10.0                              | <b>78.6</b> | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | --          | --        | --        |
|             | 10/30/02 | HEAL     | --                                  | --          | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | <b>19</b> | --        |
| Dup (5-66)  | 10/30/02 | HEAL     | --                                  | --          | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | <b>19</b> | --        |
|             | 05/21/03 | HEAL     | --                                  | --          | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | <b>14</b> | --        |
| Dup (5-66)  | 05/21/03 | HEAL     | --                                  | --          | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | <b>14</b> | --        |
|             | 11/11/03 | HEAL     | <b>11</b>                           | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
| Dup (5-66)  | 11/11/03 | HEAL     | <b>9.7</b>                          | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 06/08/04 | HEAL     | <b>10</b>                           | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
| Dup (5-66)  | 06/08/04 | HEAL     | <b>11</b>                           | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 06/09/05 | HEAL     | <b>4.6</b>                          | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
| Dup (5-61)  | 06/09/05 | HEAL     | <b>3.3</b>                          | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 07/11/06 | HEAL     | <b>3.4</b>                          | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
| Dup (5-61)  | 07/11/06 | HEAL     | <b>3.3</b>                          | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 07/25/07 | HEAL     | <b>1.8</b>                          | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 09/23/08 | HEAL     | < 1.0                               | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
| Dup (5-61B) | 09/23/08 | HEAL     | <b>1.3</b>                          | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 08/04/09 | HEAL     | < 1.0                               | < 1.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
| 5-60        | 11/18/01 | Analysys | --                                  | < 0.5       | < 0.5  | --     | < 0.5  | < 0.5  | < 0.5  | < 0.5       | --        | --        |
|             | 04/20/02 | NCA      | < 0.5                               | < 1.0       | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | --          | --        | --        |
|             | 10/31/02 | HEAL     | < 1.0                               | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 05/22/03 | HEAL     | < 1.0                               | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 11/11/03 | HEAL     | < 1.0                               | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 06/08/04 | HEAL     | < 1.0                               | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 06/09/05 | HEAL     | < 1.0                               | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 07/11/06 | HEAL     | < 1.0                               | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 07/25/07 | HEAL     | < 1.0                               | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 09/23/08 | HEAL     | < 1.0                               | < 5.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |
|             | 08/04/09 | HEAL     | < 1.0                               | < 1.0       | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | --          | --        | --        |

Notes:

† Lab Designations

OAL = Oregon Analytical Laboratory (Portland, OR)

NCA = North Creek Analytical (Portland, OR)

Analysys = Analysys Inc. (Austin, TX)

HEAL = Hall Environmental Analysis Laboratory (Albuquerque, NM)

†† Total PCB for purpose of this summary table and plotting is the sum of all measured Aroclor concentrations.

Values reported as Non Detect are reported as zero.

**Table 5. Summary of Quality Assurance Program Results  
Thoreau Compressor Station No. 5**

|          |                         |           | PCBs    |           |         | Benzene |      | Toluene |      | Ethylbenzene |      | Xylene(s) |      |
|----------|-------------------------|-----------|---------|-----------|---------|---------|------|---------|------|--------------|------|-----------|------|
| Date     | Well ID<br>Replicate ID | Lab       | Result  | Aroclor   | RL      | Result  | RL   | Result  | RL   | Result       | RL   | Result    | RL   |
| 05/22/91 | 5-17B                   | EH        | ND      | ---       | 0.50    | ND      | 0.50 | ND      | 0.50 | ND           | 0.50 | ND        | 1.0  |
|          | 91-5-22-5-17BI          | EH        | ND      | ---       | 0.50    | ND      | 0.50 | ND      | 0.50 | ND           | 0.50 | ND        | 1.0  |
| 05/22/91 | 5-24B                   | EH        | ND      | ---       | 0.50    | 4.3     | 0.50 | ND      | 0.50 | ND           | 0.50 | 1.3       | 1.0  |
|          | 91-5-22-5-24BI          | EH        | ND      | ---       | 0.50    | 130     | 5.0  | ND      | 0.50 | ND           | 0.50 | 9.4       | 1.0  |
| 07/24/91 | 5-02B                   | EH        | ND      | ---       | 0.50    | 830     | 250  | 1200    | 250  | 150          | 25   | 1300      | 50   |
|          | 9107245-2BR             | EH        | ND      | ---       | 0.50    | 680     | 50   | 1000    | 50   | 73           | 50   | 670       | 100  |
| 10/03/91 | 5-04B                   | ER        | ND      | ---       | 0.50    | 180     | 5.0  | ND      | 5.0  | 7.8          | 5.0  | 48        | 5.0  |
|          | 9110035-4R              | ER        | ND      | ---       | 0.50    | 86      | 2.5  | 2.5     | 2.5  | 6.5          | 2.5  | 40        | 2.5  |
| 10/11/91 | 5-18B                   | ER        | NA      | ---       | NA      | 1200    | 25   | ND      | 25   | ND           | 25   | 130       | 25   |
|          | 91110115 18BR           | ER        | NA      | ---       | NA      | 1200    | 25   | ND      | 25   | ND           | 25   | 110       | 25   |
| 11/05/91 | 5-06B                   | ER        | 140     | 1221      | 100     | 1.4     | 0.50 | ND      | 0.50 | ND           | 0.50 | 6.0       | 0.50 |
|          | 6-99                    | ER        | ND      | ---       | 1.0     | 1.8     | 0.50 | ND      | 0.50 | ND           | 0.50 | 14        | 0.50 |
| 12/10/91 | 5-06B                   | ER        | 270     | 1221      | 100     | ND      | 0.50 | ND      | 0.50 | ND           | 0.50 | 5.0       | 0.50 |
|          | 9112105-99              | ER        | 170     | 1221      | 100     | ND      | 0.50 | ND      | 0.50 | ND           | 0.50 | 5.4       | 0.50 |
| 01/09/92 | 5-01B                   | ER        | ND      | ---       | 1.0     | ND      | 0.50 | ND      | 0.50 | ND           | 0.50 | ND        | 0.50 |
|          | 5-99                    | ER        | ND      | ---       | 1.0     | ND      | 0.50 | ND      | 0.50 | ND           | 0.50 | ND        | 0.50 |
| 01/27/92 | 5-06B                   | ER        | 190     | 1221      | 100     | 1.3     | 0.50 | ND      | 0.50 | ND           | 0.50 | 2.6       | 0.50 |
|          | 9201275-99              | ER        | 250     | 1221      | 100     | 3.0     | 0.50 | ND      | 0.50 | ND           | 0.50 | 13        | 0.50 |
| 02/20/92 | 5-01B                   | ER        | 82      | 1221      | 10      | ND      | 0.50 | ND      | 0.50 | ND           | 0.50 | 5.2       | 0.50 |
|          | 5-99                    | ER        | 87      | 1221      | 10      | ND      | 0.50 | ND      | 0.50 | ND           | 0.50 | 6.7       | 0.50 |
| 03/18/92 | 5-01B                   | ATI       | 54      | 1221      | 2.5     | ND      | 0.50 | ND      | 0.50 | ND           | 0.50 | 3.3       | 0.50 |
|          | 5-99                    | ATI       | 65      | 1221      | 2.5     | ND      | 0.50 | ND      | 0.50 | ND           | 0.50 | 3.9       | 0.50 |
| 04/29/92 | 5-06B                   | ATI       | 150     | 1221      | 0.50    | 1.4     | 0.50 | ND      | 0.50 | ND           | 0.50 | 3.6       | 0.50 |
|          | 5-99                    | ATI       | 150     | 1221      | 0.50    | 1.3     | 0.50 | ND      | 0.50 | ND           | 0.50 | 2.0       | 0.50 |
| 10/14/92 | 5-06B                   | ATI       | 280     | 1221      | 5.0     | 1.0     | 0.50 | ND      | 0.50 | ND           | 0.50 | 2.8       | 0.50 |
|          | 5-99                    | ATI       | 270     | 1221      | 5.0     | 1.0     | 0.50 | ND      | 0.50 | ND           | 0.50 | 2.6       | 0.50 |
| 12/14/94 | 5-06B                   | HEAL      | NA      | ---       | NA      | 4.3     | 0.50 | ND      | 0.50 | ND           | 0.50 | 0.7       | 0.50 |
|          | 5-99                    | HEAL      | NA      | ---       | NA      | 3.2     | 0.50 | ND      | 0.50 | ND           | 0.50 | ND        | 0.50 |
| 10/06/95 | 5-48B                   | HEAL      | NA      | ---       | NA      | 550     | 12.5 | 940     | 12.5 | 290          | 12.5 | 1900      | 12.5 |
|          | 5-99                    | HEAL      | NA      | ---       | NA      | 730     | 20   | 1000    | 20   | 290          | 20   | 2300      | 20   |
| 11/21/95 | 5-02B                   | HEAL      | NA      | ---       | NA      | 740     | 0.50 | 2900    | 0.50 | 160          | 0.50 | 1100      | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | 670     | 0.50 | 2000    | 0.50 | 120          | 0.50 | 990       | 0.50 |
| 11/21/95 | 5-06B                   | HEAL/NET  | 44.4    | 1242      | 0.50    | 6.2     | 0.50 | <0.5    | 0.50 | <0.5         | 0.50 | <0.5      | 0.50 |
|          | 5-99                    | HEAL/NET  | 37.8    | 1242      | 0.50    | NA      | NA   | NA      | NA   | NA           | NA   | NA        | NA   |
| 02/21/96 | 5-48B                   | HEAL      | NA      | ---       | NA      | 690     | 0.50 | 1100    | 0.50 | 550          | 0.50 | 3300      | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | 580     | 0.50 | 1200    | 0.50 | 540          | 0.50 | 3100      | 0.50 |
| 02/22/96 | 5-01B                   | HEAL/NET  | <0.065  | ---       | 0.065   | 4.3     | 0.50 | <0.5    | 0.50 | <0.5         | 0.50 | <0.5      | 0.50 |
|          | 5-99                    | HEAL/NET  | <0.065  | ---       | 0.065   | NA      | NA   | NA      | NA   | NA           | NA   | NA        | NA   |
| 05/23/96 | 5-02B                   | HEAL      | NA      | ---       | NA      | 380     | 0.50 | 120     | 0.50 | 1300         | 0.50 | 1100      | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | 520     | 0.50 | 160     | 0.50 | 1600         | 0.50 | 1200      | 0.50 |
| 05/23/96 | 5-06B                   | HEAL/NET  | 78      | ---       | 0.065   | 1.2     | 0.50 | <0.5    | 0.50 | <0.5         | 0.50 | <0.5      | 0.50 |
|          | 5-99                    | HEAL/NET  | <0.065  | ---       | 0.065   | NA      | NA   | NA      | NA   | NA           | NA   | NA        | NA   |
| 08/14/96 | 5-01B                   | HEAL/NET  | 14.2    | 1221      | NA      | <0.5    | 0.50 | <0.5    | 0.50 | <0.5         | 0.50 | <0.5      | 0.50 |
|          | 5-99                    | HEAL/NET  | 5.61    | 1221      | NA      | NA      | NA   | NA      | NA   | NA           | NA   | NA        | NA   |
| 08/14/96 | 5-48B                   | HEAL      | NA      | ---       | NA      | 770     | 0.50 | 7600    | 0.50 | 340          | 0.50 | 3900      | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | 630     | 0.50 | 7900    | 0.50 | 300          | 0.50 | 3600      | 0.50 |
| 11/21/96 | 5-48B                   | HEAL      | NA      | ---       | NA      | 960     | 0.50 | 8500    | 0.50 | 330          | 0.50 | 3900      | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | 970     | 0.50 | 8600    | 0.50 | 330          | 0.50 | 4000      | 0.50 |
| 11/22/96 | 5-06B                   | HEAL/NET  | 42.8    | 1221      | 0.065   | 0.9     | 0.50 | <0.5    | 0.50 | <0.5         | 0.50 | <0.5      | 0.50 |
|          | 5-99                    | HEAL/NET  | 34.1    | 1221      | 0.065   | NA      | NA   | NA      | NA   | NA           | NA   | NA        | NA   |
| 02/28/97 | 5-02B                   | HEAL      | NA      | ---       | NA      | 260     | 0.50 | 500     | 0.50 | 90           | 0.50 | 680       | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | 290     | 0.50 | 510     | 0.50 | 91           | 0.50 | 690       | 0.50 |
| 02/28/97 | 5-06B                   | HEAL/NET  | 48.2    | 1221      | 0.065   | 0.9     | 0.50 | <0.5    | 0.50 | <0.5         | 0.50 | <0.5      | 0.50 |
|          | 5-99                    | HEAL/NET  | 49.7    | 1221      | 0.065   | 0.8     | 0.50 | <0.5    | 0.50 | <0.5         | 0.50 | <0.5      | 0.50 |
| 05/22/97 | 5-06B                   | HEAL/NET  | 7.29    | 1221      | 0.065   | 0.7     | 0.50 | <0.5    | 0.50 | <0.5         | 0.50 | <0.5      | 0.50 |
|          | 5-99B                   | HEAL/NET  | 5.18    | 1221      | 0.065   | NA      | NA   | NA      | NA   | NA           | NA   | NA        | NA   |
| 05/22/97 | 5-18B                   | HEAL      | NA      | ---       | NA      | <0.5    | 0.50 | 4.7     | 0.50 | 88           | 0.50 | 0.8       | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | <0.5    | 0.50 | 4.3     | 0.50 | 89           | 0.50 | 0.8       | 0.50 |
| 08/20/97 | 5-06B                   | HEAL/EPIC | 16.5    | 1221      | 0.65    | 0.7     | 0.50 | <0.5    | 0.50 | <0.5         | 0.50 | <0.5      | 0.50 |
|          | 5-99B                   | HEAL/EPIC | 8.1     | 1221      | 0.065   | NA      | NA   | NA      | NA   | NA           | NA   | NA        | NA   |
| 08/20/97 | 5-16B                   | HEAL      | NA      | ---       | NA      | 130     | 0.50 | 820     | 0.50 | 120          | 0.50 | 1300      | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | 130     | 0.50 | 790     | 0.50 | 120          | 0.50 | 1200      | 0.50 |
| 11/19/97 | 5-48B                   | HEAL      | NA      | ---       | NA      | 1400    | 0.50 | 6900    | 0.50 | 330          | 0.50 | 3900      | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | 1600    | 0.50 | 7300    | 0.50 | 330          | 0.50 | 4100      | 0.50 |
| 02/11/98 | 5-16B                   | HEAL      | NA      | ---       | NA      | 41      | 0.50 | 360     | 0.50 | 90           | 0.50 | 660       | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | 45      | 0.50 | 350     | 0.50 | 91           | 0.50 | 650       | 0.50 |
| 02/12/98 | 5-06C                   | HEAL      | 320     | 1221      | 5.0     | 2.2     | 0.50 | 1.4     | 0.50 | <0.5         | 0.50 | 1.3       | 0.50 |
|          | 5-99                    | HEAL      | 280     | 1221      | 5.0     | NA      | NA   | NA      | NA   | NA           | NA   | NA        | NA   |
| 06/11/98 | 5-06C                   | HEAL      | 180     | 1221      | 5.0     | 1.2     | 0.50 | 0.6     | 0.50 | <0.5         | 0.50 | <0.5      | 0.50 |
|          | 5-99                    | HEAL      | 190     | 1221      | 5.0     | NA      | NA   | NA      | NA   | NA           | NA   | NA        | NA   |
| 06/11/98 | 5-48B                   | HEAL      | NA      | ---       | NA      | 2100    | 0.50 | 8000    | 0.50 | 200          | 0.50 | 3800      | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | 2000    | 0.50 | 7900    | 0.50 | 210          | 0.50 | 3800      | 0.50 |
| 10/01/98 | 5-02C                   | HEAL      | NA      | ---       | NA      | 1300    | 0.50 | 3500    | 0.50 | 230          | 0.50 | 1800      | 0.50 |
|          | 5-98                    | HEAL      | NA      | ---       | NA      | 1300    | 0.50 | 3400    | 0.50 | 230          | 0.50 | 1800      | 0.50 |
| 10/01/98 | 5-06C                   | HEAL      | 29      | 1221      | 5.0     | 1.5     | 0.50 | 1.3     | 0.50 | <0.5         | 0.50 | <0.5      | 0.50 |
|          | 5-99                    | HEAL      | 33      | 1221      | 5.0     | NA      | NA   | NA      | NA   | NA           | NA   | NA        | NA   |
| 04/28/99 | 5-02C                   | OAL       | NA      | ---       | NA      | 1500    | 1    | 4400    | 1    | 260          | 1    | 2500      | 1    |
|          | 5-98                    | OAL       | NA      | ---       | NA      | 1500    | 1    | 4400    | 1    | 250          | 1    | 2400      | 1    |
| 04/28/99 | 5-06C                   | OAL       | 7.1/320 | 1061/1221 | 1.5/1.0 | <1      | 1    | <1      | 1    | <1           | 1    | <1        | 1    |
|          | 5-99                    | OAL       | 6.3/280 | 1061/1221 | 0.5/1.0 | NA      | NA   | NA      | NA   | NA           | NA   | NA        | NA   |

**Table 5. Summary of Quality Assurance Program Results  
Thoreau Compressor Station No. 5**

| Date     | Well ID<br>Replicate ID | Lab                  | PCBs                   |                        |                      | Benzene      |                | Toluene         |                | Ethylbenzene    |                | Xylene(s)    |              |
|----------|-------------------------|----------------------|------------------------|------------------------|----------------------|--------------|----------------|-----------------|----------------|-----------------|----------------|--------------|--------------|
|          |                         |                      | Result                 | Aroclor                | RL                   | Result       | RL             | Result          | RL             | Result          | RL             | Result       | RL           |
| 10/12/99 | 5-48B<br>5-98           | OAL<br>OAL           | NA<br>NA               | ---                    | NA<br>NA             | 1000<br>960  | 50<br>50       | 1900<br>1800    | 100<br>100     | 320<br>300      | 100<br>100     | 2900<br>2600 | 200<br>200   |
| 10/14/99 | 5-06C<br>5-99           | OAL<br>OAL           | 14/300<br>14/290       | 1061/1221<br>1061/1221 | 5.0/10<br>5.0/10     | <1<br>NA     | 1<br>NA        | <2<br>NA        | 2<br>NA        | <2<br>NA        | 2<br>NA        | <4<br>NA     | 4<br>NA      |
| 05/12/00 | 5-16B<br>5-98           | OAL<br>OAL           | NA<br>NA               | ---                    | NA<br>NA             | 600<br>510   | 5<br>10        | 290<br>200      | 10<br>20       | 92<br>70        | 10<br>20       | 360<br>270   | 20<br>40     |
| 05/13/00 | 5-06C<br>5-99           | OAL<br>OAL           | 7.2/266<br>6.6/263     | 1061/1221<br>1061/1221 | 5.0/10<br>5.0/10     | 1<br>NA      | 1<br>NA        | <2<br>NA        | 2<br>NA        | <2<br>NA        | 2<br>NA        | <4<br>NA     | 4<br>NA      |
| 11/17/00 | 5-02C<br>5-98           | NCA<br>NCA           | NA<br>NA               | ---                    | NA<br>NA             | 671<br>623   | 0.500<br>0.500 | 1000<br>972     | 0.500<br>0.500 | 372<br>358      | 0.500<br>0.500 | 3820<br>3730 | 20.0<br>20.0 |
| 11/17/00 | 5-06C<br>5-99           | NCA<br>NCA           | <0.5/5.23<br>4.45/5.17 | 1016/1242<br>1016/1242 | 0.500<br>0.500/0.500 | <0.500<br>NA | 0.500<br>0.500 | <0.500<br>0.500 | 0.500<br>0.500 | <0.500<br>0.500 | 0.500<br>0.500 | <1<br>NA     | 1.00<br>1.00 |
| 05/22/01 | 5-06C<br>5-99           | Analysys<br>Analysys | 3.1<br>5.81            | 1016/1242<br>1016/1242 | 1<br>1               | <1<br>NA     | 0.500<br>NA    | <1<br>NA        | 0.500<br>NA    | <1<br>NA        | 0.500<br>NA    | <2<br>NA     | 1.00<br>NA   |
| 05/24/01 | 5-16B<br>5-98           | Analysys<br>Analysys | NA<br>NA               | ---                    | NA<br>NA             | 1240<br>1220 | 100<br>100     | 487<br>466      | 100<br>100     | 174<br>181      | 100<br>100     | 1105<br>1184 | 100<br>100   |
| 11/17/01 | 5-02C<br>5-65           | Analysys<br>Analysys | NA<br>NA               | ---                    | NA<br>NA             | 587<br>577   | 100<br>100     | 15.2<br>15.6    | 100<br>100     | 365<br>401      | 100<br>100     | 3622<br>3890 | 100<br>100   |
| 11/18/01 | 5-06C<br>5-66           | Analysys<br>Analysys | 43.7<br>40.5           | 1016/1242<br>1016/1242 | 0.5<br>0.5           | 1.19<br>NA   | 1<br>NA        | <1<br>NA        | 1<br>NA        | <1<br>NA        | 1<br>NA        | <2<br>NA     | 2<br>NA      |
| 04/20/02 | 5-02C<br>5-65           | HEAL<br>HEAL         | NA<br>NA               | ---                    | NA<br>NA             | 450<br>450   | 10<br>10       | ND<br>ND        | 10<br>10       | 300<br>300      | 10<br>10       | 3100<br>3200 | 10<br>10     |
| 04/20/02 | 5-06C<br>5-66           | HEAL<br>HEAL         | 150<br>168             | 1221<br>1221           | 1.00<br>20.0         | 1.1<br>NA    | 0.50<br>NA     | <0.50<br>NA     | 0.50<br>NA     | <0.50<br>NA     | 0.50<br>NA     | <0.50<br>NA  | 0.50<br>NA   |
| 10/30/02 | 5-59<br>5-66            | HEAL<br>HEAL         | 19<br>19               | 1016/1221<br>1016/1221 | 1.0<br>1.0           | ND<br>NA     | 1.0<br>NA      | ND<br>NA        | 1.0<br>NA      | ND<br>NA        | 1.0<br>NA      | ND<br>NA     | 1.0<br>NA    |
| 10/31/02 | 5-02C<br>5-65           | HEAL<br>HEAL         | NA<br>NA               | ---                    | NA<br>NA             | 330<br>350   | 5.0<br>20      | ND<br>3.2       | 5.0<br>2.5     | 230<br>230      | 5.0<br>20      | 2000<br>2200 | 5.0<br>20    |
| 05/22/03 | 5-02C<br>5-67           | HEAL<br>HEAL         | NA<br>NA               | ---                    | NA<br>NA             | 290<br>290   | 10<br>10       | ND<br>ND        | 10<br>10       | 200<br>190      | 10<br>10       | 800<br>780   | 10<br>10     |
| 05/22/03 | 5-59<br>5-66            | HEAL<br>HEAL         | 14<br>14               | 1016/1221<br>1016/1221 | 1.0<br>1.0           | ND<br>NA     | 0.5<br>NA      | ND<br>NA        | 0.5<br>NA      | ND<br>NA        | 0.5<br>NA      | ND<br>NA     | 0.5<br>NA    |
| 11/11/03 | 5-02C<br>5-66           | HEAL<br>HEAL         | NA<br>NA               | ---                    | NA<br>NA             | 450<br>490   | 2.5<br>2.5     | ND<br>ND        | 2.5<br>2.5     | 240<br>240      | 2.5<br>2.5     | 770<br>770   | 2.5<br>2.5   |
| 11/11/03 | 5-59<br>5-66            | HEAL<br>HEAL         | 11<br>9.7              | 1016<br>1016           | 1.0<br>1.0           | ND<br>NA     | 0.5<br>NA      | ND<br>NA        | 0.5<br>NA      | ND<br>NA        | 0.5<br>NA      | ND<br>NA     | 0.5<br>NA    |
| 06/08/04 | 5-02C<br>5-66           | HEAL<br>HEAL         | NA<br>NA               | ---                    | NA<br>NA             | 270<br>280   | 25<br>5        | 28<br>28        | 25<br>5        | 160<br>170      | 25<br>5        | 1000<br>1100 | 25<br>5      |
| 06/08/04 | 5-59<br>5-61            | HEAL<br>HEAL         | 10<br>11               | 1016<br>1016           | 1.0<br>1.0           | ND<br>NA     | 0.5<br>NA      | ND<br>NA        | 0.5<br>NA      | ND<br>NA        | 0.5<br>NA      | ND<br>NA     | 0.5<br>NA    |
| 06/08/05 | 5-16B<br>5-68B          | HEAL<br>HEAL         | NA<br>NA               | ---                    | NA<br>NA             | 1400<br>1900 | 5<br>5         | < 5<br>< 5      | 5<br>5         | 160<br>200      | 5<br>5         | 520<br>920   | 5<br>5       |
| 07/10/06 | 5-16B<br>5-61           | HEAL<br>HEAL         | NA<br>NA               | ---                    | NA<br>NA             | 1600<br>1400 | 20<br>20       | < 20<br>< 20    | 20<br>20       | 150<br>140      | 20<br>20       | 380<br>420   | 60<br>60     |
| 07/11/06 | 5-59<br>5-61            | HEAL<br>HEAL         | 3.4<br>3.3             | 1016<br>1016           | 1.0<br>1.0           | ND<br>NA     | 1.0<br>NA      | ND<br>NA        | 1.0<br>NA      | ND<br>NA        | 1.0<br>NA      | ND<br>NA     | 3.0<br>NA    |
| 07/25/07 | 5-06C<br>5-61           | HEAL<br>HEAL         | 1.1<br>1.1             | 1248<br>1248           | 1.00<br>1.00         | <1<br>NA     | 1<br>NA        | <1<br>NA        | 1<br>NA        | <1<br>NA        | 1<br>NA        | <2<br>NA     | 2<br>NA      |
| 07/25/07 | 5-16B<br>5-61           | HEAL<br>HEAL         | NA<br>NA               | ---                    | NA<br>NA             | 1700<br>1500 | 20<br>20       | < 20<br>< 20    | 20<br>20       | 170<br>150      | 20<br>20       | 590<br>380   | 40<br>40     |
| 09/23/08 | 5-06C<br>5-61           | HEAL<br>HEAL         | <1/<5<br>1.3           | ---                    | 1.0/5.0<br>1.0       | <1<br>NA     | 1<br>NA        | <1<br>NA        | 1<br>NA        | <1<br>NA        | 1<br>NA        | <2<br>NA     | 2<br>NA      |
| 09/23/08 | 5-16B<br>5-61           | HEAL<br>HEAL         | NA<br>NA               | ---                    | NA<br>NA             | 1900<br>1700 | 20<br>20       | < 20<br>< 20    | 20<br>20       | 180<br>190      | 20<br>20       | 600<br>680   | 10<br>10     |
| 08/04/09 | 5-6C<br>5-61            | HEAL<br>HEAL         | 1.3<br>1.7             | 1016<br>1016           | 1.0<br>1.0           | <1<br>NA     | 1<br>NA        | <1<br>NA        | 1<br>NA        | <1<br>NA        | 1<br>NA        | <2<br>NA     | 2<br>NA      |
| 08/04/09 | 5-16B<br>5-61           | HEAL<br>HEAL         | NA<br>NA               | ---                    | NA<br>NA             | 1300<br>1300 | 50<br>50       | < 5<br>< 5      | 5<br>5         | 150<br>120      | 5<br>5         | 590<br>500   | 10<br>10     |

† Lab Designations  
 ATI-A = Analytical Technologies, Inc. (Albuquerque)  
 ATI-P = Analytical Technologies, Inc. (Phoenix)  
 ER = Enseco (Rocky Mountain Analytical)  
 EH = Enseco (Houston)  
 HEAL = Hall Environmental Analysis Laboratory (Albuquerque)  
 NET = National Environmental Testing, INC.  
 OAL = Oregon Analytical Laboratory  
 NA = Not Analyzed

**Table 6. Monitor Well Sampling Locations, Frequency, and Sample Analysis Plan  
Thoreau Compressor Station No. 5**

| Well ID | Analytical Requirements<br>for Annual Event | Benzene (ppb)<br>Last Sample Event | PCBs (ppb)<br>Last Sample Event | Comments                                  |
|---------|---------------------------------------------|------------------------------------|---------------------------------|-------------------------------------------|
| 5-01C   | none                                        | <1                                 | <1                              | clean upgradient well                     |
| 5-02B   | none                                        | ---                                | ---                             | not enough water to collect a sample      |
| 5-02C   | BTEX                                        | 300                                | ---                             | replacement for 02B; intermittent PSH     |
| 5-03B   | none                                        | <0.5                               | ---                             | clean upgradient well                     |
| 5-04B   | none                                        | ---                                | ---                             | dry                                       |
| 5-05B   | none                                        | 2.5                                | ---                             | clean perimeter well                      |
| 5-06C   | BTEX & PCBs                                 | <1                                 | 1.7                             | has tested positive for PCBs              |
| 5-12B   | none                                        | <0.5                               | ---                             | clean downgradient well                   |
| 5-13B   | none                                        | <0.5                               | ---                             | clean downgradient well                   |
| 5-14B   | none                                        | <0.5                               | ---                             | clean downgradient well                   |
| 5-15B   | none                                        | <0.5                               | ---                             | clean perimeter well                      |
| 5-16B   | BTEX                                        | 1300                               | ---                             | impacted well                             |
| 5-17B   | none                                        | <1                                 | <1                              | clean downgradient well                   |
| 5-18B   | BTEX                                        | <1                                 | ---                             | clean downgradient well                   |
| 5-19B   | none                                        | <0.5                               | ---                             | clean perimeter well                      |
| 5-20B   | BTEX                                        | <1                                 | ---                             | clean downgradient well                   |
| 5-22B   | none                                        | ---                                | ---                             | not enough water to collect a sample      |
| 5-23B   | none                                        | <0.5                               | ---                             | clean downgradient well                   |
| 5-24B   | none                                        | <0.5                               | ---                             | clean downgradient well                   |
| 5-34B   | none                                        | ---                                | ---                             | remediation system well                   |
| 5-35B   | BTEX                                        | ---                                | ---                             | recently added well to SAP                |
| 5-36E   | none                                        | ---                                | ---                             | pilot test well not suitable for sampling |
| 5-37I   | none                                        | ---                                | ---                             | pilot test well not suitable for sampling |
| 5-41B   | none                                        | ---                                | ---                             | clean downgradient well                   |
| 5-48B   | none                                        | 2500                               | ---                             | dry                                       |
| 5-59    | BTEX & PCBs                                 | <1                                 | <1                              | has tested positive for PCBs              |
| 5-60    | none                                        | <1                                 | <1                              | clean perimeter well                      |
| SVE-1   | none                                        | <0.5                               | ---                             | dry                                       |
| SVE-2   | none                                        | ---                                | ---                             | dry                                       |
| SVE-3   | BTEX                                        | ---                                | ---                             | recently added well to SAP                |
| SVE-4   | none                                        | ---                                | ---                             | remediation system well                   |

Notes:

- 1) BTEX - BTEX Compounds by either EPA Method 8021B or EPA Method 8260
- 2) PCBs - Polychlorinated Biphenyls by EPA Method 8082

**Table 7. Summary of Completion Details for Soil Borings Completed as Wells  
Thoreau Compressor Station No. 5**

| Well  | Source <sup>a</sup>   | Date of Completion | Measuring Point Elevation (ft) | Northing (ft) | Easting (ft) | Total Depth of Boring (ft bgs) | Measured Depth of Well (ft from TOC) | Surface Completion Type | Casing Diameter (in.) | Screen Interval (ft bgs) | Top of Sand Pack (ft bgs) |
|-------|-----------------------|--------------------|--------------------------------|---------------|--------------|--------------------------------|--------------------------------------|-------------------------|-----------------------|--------------------------|---------------------------|
| 5 01C | Layne Christensen/CES | 11/17/97           | 7,292.11 (c)                   | 52.73         | -35.22       | 55.0                           | na                                   | stick up                | 2                     | 44.5-54.5                | 42.5                      |
| 5-02B | na                    | 05/12/89           | 7,292.06 (b)                   | 58.60         | -145.02      | 55.5                           | 56.69                                | flush mount             | 2                     | 37.5-51.0                | ns                        |
| 5 02C | Layne Christensen/CES | 11/15/97           | 7,291.82 (c)                   | 49.32         | -155.28      | 58.5                           | 62.10                                | flush mount             | 2                     | 42.0-57.0                | 40                        |
| 5-03B | na                    | 05/11/89           | 7,303.76 (b)                   | 440.30        | -109.97      | 58.0                           | 55.60                                | flush mount             | 2                     | 41.0-54.5                | na                        |
| 5-04B | Western Tech./DBS     | 09/16/89           | 7,292.39 (b)                   | 15.05         | -231.56      | 58.8                           | 58.08                                | flush mount             | 2                     | 38.7-57.2                | 36.9                      |
| 5-05B | Western Tech./DBS     | 09/19/89           | 7,290.83 (b)                   | 12.86         | -152.20      | 59.5                           | 62.02                                | flush mount             | 2                     | 39.5-58.0                | 37.5                      |
| 5 06C | Layne Christensen/CES | 11/18/97           | 7,291.46 (c)                   | 9.38          | -10.62       | 62.5                           | na                                   | stick up                | 2                     | 47.0-62.0                | 44.9                      |
| 5-12B | Stewart Brothers/DBS  | 06/28/90           | 7,279.61 (b)                   | -387.48       | -89.37       | 65.0                           | na                                   | flush mount             | 2                     | 45.0-65.0                | 41.4                      |
| 5-13B | Stewart Brothers/DBS  | 06/28/90           | 7,282.43 (b)                   | -369.35       | -261.04      | 69.4                           | na                                   | flush mount             | 2                     | 49.3-69.4                | 45.0                      |
| 5-14B | Stewart Brothers/DBS  | 06/27/90           | 7,285.76 (b)                   | -357.23       | -441.25      | 72.3                           | na                                   | flush mount             | 2                     | 42.3-72.3                | 48.4                      |
| 5-15B | Stewart Brothers/DBS  | 06/29/90           | 7,292.92 (b)                   | -87.47        | -344.34      | 65.6                           | na                                   | flush mount             | 2                     | 45.6-65.6                | 41.5                      |
| 5-16B | Western Tech./DBS     | 07/05/90           | 7,288.82 (b)                   | -145.56       | -248.38      | 64.6                           | 65.4                                 | flush mount             | 2                     | 34.6-64.6                | 33.5                      |
| 5-17B | Western Tech./DBS     | 07/03/90           | 7,284.75 (b)                   | -88.53        | -40.96       | 63.9                           | 64.2                                 | flush mount             | 2                     | 33.9-63.9                | 31.2                      |
| 5-18B | Western Tech./DBS     | 07/09/90           | 7,286.41 (b)                   | -256.43       | -309.06      | 69.9                           | na                                   | flush mount             | 2                     | 49.9-69.9                | 43.4                      |
| 5-19B | Western Tech./DBS     | 07/10/90           | 7,290.52 (b)                   | -157.69       | -330.24      | 63.3                           | 65.05                                | flush mount             | 2                     | 43.3-63.3                | 37.5                      |
| 5-20B | Western Tech./DBS     | 07/11/90           | 7,284.60 (b)                   | -261.92       | -172.12      | 64.0                           | na                                   | flush mount             | 2                     | 33.9-63.9                | 28.3                      |
| 5-22B | Stewart Brothers/DBS  | 09/13/90           | 7,292.74 (b)                   | 88.16         | -198.69      | 55.8                           | 54.9                                 | flush mount             | 2                     | 45.8-55.8                | 42.2                      |
| 5-23B | Stewart Brothers/DBS  | 09/21/90           | 7,282.63 (b)                   | -450.52       | -315.67      | 80.1                           | na                                   | flush mount             | 2                     | 50.1-80.1                | 42.7                      |
| 5-24B | Stewart Brothers/DBS  | 09/25/90           | 7,279.18 (b)                   | -460.67       | -211.48      | 75.5                           | na                                   | flush mount             | 2                     | 45.5-75.5                | 36.5                      |
| 5-34B | Ward Drilling Co./DBS | 03/31/93           | 7,294.71 (b)                   | 25.97         | -306.80      | 65.7                           | 63.10                                | flush mount             | 4                     | 34.0-64.0                | 33.0                      |
| 5-35B | Ward Drilling Co./DBS | 04/05/92           | 7,296.11 (b)                   | 37.30         | -289.09      | 70.0                           | 62.21                                | stick up                | 4                     | 31.3-61.3                | 28.4                      |
| 5-36E | Ward Drilling Co./DBS | 04/09/92           | 7,296.56 (b)                   | 30.28         | -287.13      | 67.5                           | 68.51                                | stick up                | 4                     | 47.7-62.3                | 43.4                      |
| 5-37I | Ward Drilling Co./DBS | 04/16/92           | 7,296.31 (b)                   | 44.48         | -290.76      | 72.5                           | 61.72                                | stick up                | 4                     | 52.1-59.8                | 51.4                      |
| 5-41B | Stewart Brothers/DBS  | 07/24/92           | 7,279.73 (b)                   | -603.88       | -174.07      | 77.0                           | na                                   | flush mount             | 2                     | 55.0-72.0                | 53.0                      |
| 5-47B | Stewart Brothers/DBS  | 08/04/92           | 7,268.35 (b)                   | -862.86       | -104.00      | 80.0                           | na                                   | abandoned               | 2                     | 59.5-76.5                | 57.5                      |
| 5-48B | Stewart Brothers/DBS  | 08/05/92           | 7,292.64 (b)                   | -34.33        | -271.94      | 63.7                           | 59.68                                | flush mount             | 2                     | 43.0-60.0                | 41.0                      |
| 5-57B | Stewart Brothers/DBS  | 03/04/93           | 7,257.80                       | -1014.77      | -109.30      | 76.2                           | na                                   | abandoned               | 2                     | 60.0-75.0                | 57.9                      |
| 5-58B | Stewart Brothers/DBS  | 03/03/93           | 7,279.38                       | -682.60       | -340.89      | 78.1                           | na                                   | abandoned               | 2                     | 61.2-76.2                | 58.9                      |
| 5-59  | Rodgers & Co.         | 07/27/01           | 7290.82 (d)                    | 29.53         | -2.43        | 56.0                           | 55.23                                | stick up                | 4                     | 41.0-56.0                | 38.0                      |
| 5-60  | Rodgers & Co.         | 07/27/01           | 7290.83 (d)                    | 11.62         | -30.66       | 56.0                           | 57.41                                | stick up                | 4                     | 41.0-56.0                | 38.0                      |
| SVE-1 | Techna/DBS            | 03/29/96           | 7,296.88 (c)                   | 37.08         | -356.25      | 60.0                           | 61.55                                | flush mount             | 2                     | 35.0-60.0                | 33.3                      |
| SVE-2 | Techna/DBS            | 03/29/96           | 7,297.68 (c)                   | 42.46         | -409.54      | 61.0                           | 61.59                                | flush mount             | 2                     | 35.0-60.0                | 33.6                      |
| SVE-3 | Layne Christensen/CES | 11/16/1997         | 7,293.68 (c)                   | -21.30        | -271.04      | 65.0                           | 65.54                                | flush mount             | 2                     | 44.0 - 64.0              | 41.9                      |
| SVE-4 | Layne Christensen/CES | 11/16/1997         | 7,289.83 (c)                   | -123.39       | -243.36      | 62.5                           | 62.03                                | flush mount             | 2                     | 42.0 - 62.0              | 40.0                      |
| AS-1  | Techna/DBS            | 03/29/96           | na                             | 46.99         | -327.63      | 60.5                           | na                                   | flush mount             | 2                     | 56.0-58.5                | 54.8                      |
| AS-2  | Techna/DBS            | 03/27/96           | na                             | 45.70         | -302.63      | 61.0                           | na                                   | flush mount             | 2                     | 57.5-60.0                | 56.5                      |
| AS-3  | Techna/DBS            | 03/27/96           | na                             | 44.41         | -277.63      | 59.5                           | na                                   | flush mount             | 2                     | 57.0-59.5                | 56.0                      |
| AS-4  | Techna/DBS            | 03/27/96           | na                             | 43.11         | -252.35      | 60.3                           | na                                   | flush mount             | 2                     | 57.8-60.3                | 55.6                      |
| AS-5  | Techna/DBS            | 03/27/96           | na                             | 41.82         | -227.35      | 58.0                           | na                                   | flush mount             | 2                     | 55.5-58.0                | 54.1                      |
| AS-6  | Techna/DBS            | 03/29/96           | 7,295.62 (c)                   | 23.02         | -341.69      | 59.0                           | 57.57                                | flush mount             | 2                     | 56.5-59.0                | 55.0                      |
| AS-7  | Techna/DBS            | 03/27/96           | 7,295.72 (c)                   | 21.31         | -316.55      | 60.0                           | 59.29                                | flush mount             | 2                     | 57.0-59.5                | 55.5                      |
| AS-8  | Techna/DBS            | 03/27/96           | 7,294.45 (c)                   | 20.25         | -292.07      | 61.0                           | 62.18                                | flush mount             | 2                     | 58.5-61.0                | 57.2                      |
| AS-9  | Techna/DBS            | 03/27/96           | 7,293.76 (c)                   | 18.29         | -266.75      | 59.8                           | 59.31                                | flush mount             | 2                     | 57.1-59.6                | 54.0                      |
| AS-10 | Techna/DBS            | 03/27/96           | 7,293.90 (c)                   | 16.75         | -241.70      | 60.3                           | 61.31                                | flush mount             | 2                     | 57.8-60.3                | 56.4                      |
| AS-11 | Techna/DBS            | 03/27/96           | 7,293.05 (c)                   | 15.96         | -217.21      | 60.0                           | 60.69                                | flush mount             | 2                     | 57.0-59.5                | 55.4                      |
| AS-12 | Layne Christensen/CES | 11/21/1997         | 7,295.22 (c)                   | -5.04         | -332.45      | 64.5                           | 65.93                                | flush mount             | 2                     | 62.0 - 64.0              | 59.0                      |
| AS-13 | Layne Christensen/CES | 11/21/1997         | 7,294.58 (c)                   | -6.15         | -306.17      | 68.0                           | 68.37                                | flush mount             | 2                     | 65.5 - 67.5              | 62.0                      |
| AS-14 | Layne Christensen/CES | 11/20/1997         | 7,293.98 (c)                   | -7.89         | -280.13      | 64.5                           | 64.46                                | flush mount             | 2                     | 62.0 - 64.0              | 58.0                      |
| AS-15 | Layne Christensen/CES | 11/20/1997         | 7,293.40 (c)                   | -8.43         | -259.05      | 64.0                           | 62.82                                | flush mount             | 2                     | 61.5 - 63.5              | 58.0                      |
| AS-16 | Layne Christensen/CES | 11/19/1997         | 7,293.27 (c)                   | -11.17        | -237.02      | 65.0                           | 64.96                                | flush mount             | 2                     | 62.0 - 64.0              | 57.0                      |

**NOTES:**

na - Information not available

(a) Driller/Consultant

(b) Survey done by Bob Martinez 8/92

(c) Survey done by Cypress Engineering 1/98

(d) Survey done by Cypress Engineering 9/08

**Table 8. Summary of SVE System Monitoring Results  
Thoreau Compressor Station No. 5**

| Sample Source | Date     | Gasoline Range VOCs | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|---------------|----------|---------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|               |          | (ug/L)              | (%)  |       |       |       |       |        |         |         |         |      |
| SVE-1         | 11/22/96 | 1,400               | 0.0  | 0.7   | 46.7  | 39.7  | 4.9   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
| 5-04B         | 11/22/96 | 210                 | 0.0  | 2.0   | 8.2   | 35.3  | 43.0  | 9.8    | 1.2     | 0.3     | 0.2     | 0.0  |
| 5-34B         | 11/22/96 | 3,000               | 0.0  | 6.4   | 18.3  | 59.4  | 14.9  | 1.0    | 0.0     | 0.0     | 0.0     | 0.0  |
| 5-35B         | 11/22/96 | 120                 | 0.0  | 12.9  | 28.2  | 32.5  | 16.7  | 7.8    | 1.7     | 0.2     | 0.0     | 0.0  |
| SVE-1         | 08/21/97 | 47                  | 0.1  | 0.2   | 0.6   | 4.2   | 14.8  | 30.6   | 23.9    | 16.6    | 8.9     | 0.1  |
| 5-02B         | 08/21/97 | 490                 | 1.4  | 13.5  | 34.0  | 41.7  | 7.1   | 1.3    | 0.6     | 0.4     | 0.0     | 0.0  |
| 5-04B         | 08/21/97 | 530                 | 0.0  | 0.1   | 1.6   | 9.0   | 39.8  | 38.1   | 8.2     | 2.8     | 0.4     | 0.0  |
| 5-05B         | 08/21/97 | 44                  | 0.1  | 0.2   | 0.6   | 4.2   | 14.2  | 31.4   | 23.9    | 16.5    | 8.8     | 0.1  |
| 5-34B         | 08/21/97 | 7,700               | 0.2  | 1.4   | 6.5   | 26.6  | 23.8  | 26.7   | 11.3    | 3.0     | 0.5     | 0.0  |
| SVE-1         | 11/24/97 | 19                  | 0.4  | 0.7   | 1.2   | 2.3   | 10.4  | 22.6   | 23.2    | 27.7    | 11.1    | 0.4  |
| SVE-3         | 11/24/97 | 900                 | 0.0  | 3.5   | 9.2   | 16.9  | 25.4  | 27.9   | 11.1    | 5.1     | 0.9     | 0.0  |
| SVE-4         | 11/24/97 | 590                 | 0.0  | 2.2   | 11.8  | 27.9  | 30.6  | 15.8   | 6.7     | 4.2     | 0.8     | 0.0  |
| 5-02B         | 11/24/97 | 10                  | 0.0  | 5.0   | 13.1  | 14.6  | 15.5  | 15.2   | 21.8    | 11.1    | 3.7     | 0.0  |
| 5-04B         | 11/24/97 | 290                 | 0.0  | 1.9   | 3.4   | 8.8   | 35.2  | 32.7   | 11.3    | 4.9     | 1.8     | 0.0  |
| 5-05B         | 11/24/97 | 6.7                 | 0.0  | 0.0   | 0.6   | 3.1   | 19.9  | 22.9   | 28.0    | 15.6    | 9.6     | 0.3  |
| 5-34B         | 11/24/97 | 4,400               | 0.0  | 1.0   | 4.6   | 23.5  | 38.9  | 24.9   | 1.8     | 1.9     | 1.3     | 2.1  |
| 5-35B         | 11/24/97 | 1,600               | 0.0  | 0.1   | 1.0   | 7.1   | 16.6  | 28.6   | 31.6    | 12.8    | 2.2     | 0.0  |
| SVE-1         | 01/07/98 | 130                 | 0.0  | 0.1   | 0.3   | 0.8   | 12.2  | 30.2   | 32.2    | 17.7    | 6.5     | 0.0  |
| SVE-3         | 01/07/98 | 720                 | 0.1  | 6.6   | 12.0  | 14.5  | 18.9  | 19.1   | 17.7    | 8.4     | 2.7     | 0.0  |
| SVE-4         | 01/07/98 | 710                 | 0.1  | 3.1   | 9.7   | 16.5  | 26.9  | 19.8   | 15.5    | 6.4     | 2.0     | 0.0  |
| 5-02B         | 01/07/98 | 250                 | 0.1  | 14.3  | 37.7  | 27.6  | 8.0   | 2.4    | 4.4     | 3.6     | 1.9     | 0.0  |
| 5-04B         | 01/07/98 | 44                  | 0.0  | 0.0   | 0.2   | 0.9   | 8.1   | 32.1   | 33.9    | 17.4    | 7.4     | 0.0  |
| 5-05B         | 01/07/98 | 69                  | 0.0  | 0.1   | 0.2   | 0.4   | 6.1   | 21.1   | 34.9    | 25.5    | 11.7    | 0.0  |
| 5-34B         | 01/07/98 | 7,100               | 0.1  | 2.0   | 5.7   | 21.5  | 38.6  | 22.0   | 8.3     | 1.7     | 0.1     | 0.0  |
| 5-35B         | 01/07/98 | 1,800               | 0.0  | 0.2   | 1.0   | 3.7   | 26.8  | 36.3   | 22.1    | 8.3     | 1.6     | 0.0  |
| Total Flow    | 08/21/02 | 298                 | 0.0  | 11.1  | 12.4  | 22.3  | 15.7  | 22.8   | 10.5    | 5.0     | 0.2     | 0.0  |
| Total Flow    | 06/19/03 | 381                 | 0.0  | 6.1   | 16.8  | 23.7  | 13.1  | 17.2   | 11.7    | 8.5     | 2.9     | 0.0  |
| Total Flow    | 07/30/03 | 218                 | 0.0  | 7.6   | 23.5  | 23.7  | 15.8  | 14.0   | 9.5     | 5.4     | 0.5     | 0.0  |
| Total Flow    | 09/03/03 | 312                 | 0.0  | 7.3   | 18.2  | 21.0  | 12.6  | 18.6   | 12.8    | 7.0     | 2.5     | 0.0  |
| Total Flow    | 10/03/03 | 293                 | 1.5  | 7.5   | 19.0  | 19.5  | 12.8  | 15.0   | 14.7    | 7.3     | 2.7     | 0.0  |
| Total Flow    | 10/30/03 | 268                 | 2.6  | 4.6   | 16.5  | 30.8  | 13.1  | 12.2   | 13.6    | 5.7     | 0.9     | 0.0  |
| Total Flow    | 05/11/04 | 322                 | 0.2  | 16.4  | 27.8  | 22.8  | 14.1  | 10.1   | 5.9     | 1.2     | 1.2     | 0.3  |
| Total Flow    | 06/16/04 | 241                 | 6.7  | 14.0  | 25.5  | 27.2  | 12.8  | 7.7    | 4.8     | 1.2     | 0.1     | 0.0  |
| Total Flow    | 07/13/04 | 367                 | 2.4  | 9.4   | 19.6  | 22.1  | 11.8  | 11.1   | 13.1    | 7.7     | 2.8     | 0.0  |
| Total Flow    | 08/10/04 | 291                 | 4.0  | 10.3  | 22.9  | 25.3  | 12.8  | 9.5    | 9.4     | 4.3     | 1.3     | 0.2  |
| Total Flow    | 09/14/04 | 276                 | 0.9  | 9.2   | 21.9  | 26.2  | 13.4  | 10.4   | 10.6    | 5.7     | 1.7     | 0.0  |
| Total Flow    | 10/13/04 | 262                 | 1.1  | 8.5   | 20.8  | 24.0  | 13.3  | 10.3   | 11.7    | 7.1     | 3.2     | 0.0  |
| Total Flow    | 05/27/05 | 346                 | 7.4  | 13.9  | 22.1  | 26.2  | 11.8  | 6.8    | 5.8     | 3.7     | 2.1     | 0.2  |
| Total Flow    | 06/24/05 | 415                 | 2.1  | 14.7  | 23.0  | 23.4  | 12.7  | 8.0    | 8.4     | 4.9     | 2.7     | 0.1  |
| Total Flow    | 07/28/05 | 296                 | 4.1  | 10.2  | 23.0  | 26.0  | 13.6  | 8.3    | 7.7     | 5.0     | 2.1     | 0.0  |
| Total Flow    | 09/07/05 | 302                 | 3.5  | 9.3   | 21.2  | 29.3  | 14.2  | 8.0    | 6.9     | 5.4     | 2.2     | 0.0  |
| Total Flow    | 10/07/05 | 241                 | 3.9  | 10.0  | 22.3  | 31.6  | 14.6  | 8.7    | 5.7     | 2.8     | 0.4     | 0.0  |
| Total Flow    | 05/31/06 | 218                 | 10.4 | 13.2  | 24.5  | 26.7  | 12.4  | 6.1    | 5.5     | 1.2     | 0.0     | 0.0  |
| Total Flow    | 06/28/06 | 139                 | 8.5  | 12.2  | 23.3  | 27.9  | 12.8  | 5.1    | 6.4     | 1.6     | 1.8     | 0.4  |
| Total Flow    | 07/26/06 | 162                 | 7.6  | 12.9  | 24.8  | 27.3  | 14.2  | 6.5    | 5.0     | 1.4     | 0.3     | 0.0  |
| Total Flow    | 08/23/06 | 177                 | 6.7  | 11.7  | 24.5  | 27.4  | 14.5  | 8.5    | 4.5     | 1.8     | 0.4     | 0.0  |
| Total Flow    | 09/25/06 | 152                 | 6.8  | 12.2  | 25.8  | 28.4  | 14.9  | 6.1    | 4.3     | 1.3     | 0.2     | 0.0  |
| Total Flow    | 05/25/07 | 104                 | 3.0  | 10.2  | 17.6  | 32.9  | 14.4  | 10.1   | 7.1     | 3.8     | 0.9     | 0.0  |
| Total Flow    | 07/13/07 | 190                 | --   | 6.1   | 50.5  | 24.3  | 8.2   | 9.9    | 0.6     | 0.4     | 0.0     | 0.0  |
| Total Flow    | 08/24/07 | 158                 | 2.3  | 14.5  | 25.4  | 36.6  | 9.3   | 5.1    | 6.0     | 0.8     | 0.0     | 0.0  |
| Total Flow    | 09/21/07 | 148                 | 2.3  | 9.9   | 31.7  | 33.5  | 12.0  | 5.6    | 3.5     | 1.3     | 0.2     | 0.0  |
| Total Flow    | 10/25/07 | 140                 | 5.3  | 6.0   | 20.5  | 33.1  | 20.4  | 8.1    | 4.8     | 1.6     | 0.2     | 0.0  |
| Total Flow    | 06/09/08 | 133                 | 3.3  | 12.9  | 23.0  | 31.7  | 16.8  | 6.5    | 4.3     | 1.2     | 0.3     | 0.0  |
| Total Flow    | 07/11/08 | 108                 | 6.4  | 12.2  | 23.3  | 31.8  | 15.7  | 5.9    | 3.5     | 1.1     | 0.1     | 0.0  |
| Total Flow    | 08/04/08 | 104                 | 3.1  | 12.3  | 23.9  | 32.2  | 16.3  | 6.5    | 4.6     | 0.8     | 0.3     | 0.0  |
| Total Flow    | 09/05/08 | 161                 | --   | 9.7   | 24.1  | 34.2  | 16.3  | 10.6   | 3.1     | 1.7     | 0.3     | 0.0  |
| Total Flow    | 10/03/08 | 121                 | 5.9  | 11.3  | 25.7  | 33.5  | 14.2  | 4.2    | 4.9     | 0.2     | 0.1     | 0.0  |
| Total Flow    | 10/22/08 | 121                 | 5.2  | 10.5  | 24.9  | 33.4  | 12.2  | 8.8    | 4.5     | 0.5     | 0.0     | 0.0  |
| Total Flow    | 05/29/09 | 160                 | --   | 12.9  | 26.3  | 36.9  | 13.1  | 8.7    | 1.3     | 0.7     | 0.1     | 0.0  |
| Total Flow    | 06/26/09 | 145                 | --   | 8.8   | 26.1  | 39.3  | 15.0  | 8.2    | 1.6     | 0.5     | 0.5     | 0.0  |
| Total Flow    | 07/31/09 | 129                 | --   | 8.3   | 26.7  | 36.7  | 17.7  | 6.9    | 2.1     | 1.2     | 0.4     | 0.0  |
| Total Flow    | 08/20/09 | 155                 | --   | 12.0  | 28.4  | 34.1  | 15.9  | 6.4    | 1.9     | 0.9     | 0.4     | 0.0  |
| Total Flow    | 09/25/09 | 163                 | --   | 8.7   | 34.1  | 35.4  | 14.4  | 5.4    | 1.3     | 0.5     | 0.2     | 0.0  |
| Total Flow    | 10/20/09 | 164                 | --   | 8.3   | 27.3  | 41.3  | 14.9  | 6.9    | 0.9     | 0.3     | 0.1     | 0.0  |

All air samples analyzed by Hall Laboratory of Albuquerque, NM

# O & M REPORTS

**Operation and Maintenance Activities for May 2009**  
**Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee                    | Task Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Wells Online                                     | Temp (°F) | Pressure In (in H <sub>2</sub> O) | Pressure Out (in H <sub>2</sub> O) | Depth to PSH (ft btoc)             | Depth to Water (ft btoc)                    |
|---------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------|-----------------------------------|------------------------------------|------------------------------------|---------------------------------------------|
| 5/8/2009      | Justin Jayne<br>Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Measured fluid levels in 5-2C, 5-34B, SVE-3</li> <li>▪ Set Soakease absorbent sock in 5-2C, 5-34B, SVE-3</li> <li>▪ Power up SVE system</li> <li>▪ Checked SVE filter</li> <li>▪ Checked gauges and recorded measurements at 12:06</li> <li>▪ Checked moisture in knockout pot; appears to be empty</li> <li>▪ Green tank is empty</li> <li>▪ No vacuum on SVE-4, or 5-2B, secured loose fittings</li> <li>▪ Verified vacuum on all extraction wells</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 81.0      | 36                                | 38                                 | 5-2C: ND<br>5-34B: ND<br>SVE-3: ND | 5-2C: 57.03<br>5-34B: 61.73<br>SVE-3: 60.83 |
| 5/15/2009     | Elizabeth Bastien                 | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 11:05 and recorded all measurements</li> <li>▪ No fluid detected in knockout pot</li> </ul>                                                                                                                                                                                                                          | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 77.4      | 36                                | 38                                 | Not Measured                       | Not Measured                                |

**Operation and Maintenance Activities for May 2008**  
**Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee    | Task Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Wells Online                                     | Temp (°F)                                                                                  | Pressure In (in H <sub>2</sub> O)            | Pressure Out (in H <sub>2</sub> O)           | Depth to PSH (ft btoc)             | Depth to Water (ft btoc)                    |
|---------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------|---------------------------------------------|
| 5/22/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 11:25 and recorded all measurements</li> <li>▪ Shut down system to check air filter: filter needs replacement, left in system until another can be ordered.</li> <li>▪ No fluid detected in knockout pot</li> </ul>                                                                                                                                                                                                                                | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 53.6<br><br>Tout=<br>51.3                                                                  | 37                                           | 40                                           | Not Measured                       | Not Measured                                |
| 5/29/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:52 and recorded all measurements</li> <li>▪ Collected air exhaust sample at 11:00, [Thoreau-20090529]</li> <li>▪ Shut down system</li> <li>▪ Measured fluid levels and placed Soakease absorbent sock in 5-2C, 5-34B, SVE-3</li> <li>▪ Checked SVE filter, left in until replacement arrives.</li> <li>▪ Restarted system and recorded gauge measurements at 12:11</li> <li>▪ Checked moisture in knockout pot; appears to be empty.</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 75.2<br><br>Tout=<br>65.3<br><br><br><br><br><br><br><br><br><br>61.7<br><br>Tout=<br>50.7 | 36<br><br><br><br><br><br><br><br><br><br>34 | 38<br><br><br><br><br><br><br><br><br><br>36 | 5-2C: ND<br>5-34B: ND<br>SVE-3: ND | 5-2C: 57.28<br>5-34B: 61.02<br>SVE-3: 60.24 |

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected

**Operation and Maintenance Activities for June 2009**  
**Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee    | Task Description                                                                                                                                                                                                                                                                                                                                      | Wells Online                                     | Temp (°F)                 | Pressure In (in H <sub>2</sub> O) | Pressure Out (in H <sub>2</sub> O) | Depth to PSH (ft btoc) | Depth to Water (ft btoc) |
|---------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------|-----------------------------------|------------------------------------|------------------------|--------------------------|
| 6/4/2009      | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:48 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter replaced.</li> <li>▪ No fluid detected in knockout pot</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 79.9                      | 36                                | 38                                 | Not Measured           | Not Measured             |
| 6/11/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:36 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ No fluid detected in knockout pot</li> </ul>       | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 66.0<br><br>Tout=<br>58.6 | 36                                | 38                                 | Not Measured           | Not Measured             |

**Operation and Maintenance Activities for June 2009**  
**Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee    | Task Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Wells Online                                     | Temp (°F)                                                      | Pressure In (in H <sub>2</sub> O) | Pressure Out (in H <sub>2</sub> O) | Depth to PSH (ft btoc)             | Depth to Water (ft btoc)                    |
|---------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------|-----------------------------------|------------------------------------|------------------------------------|---------------------------------------------|
| 6/19/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:52 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ Fluid detected in knockout pot, ~5.5 gallons emptied.</li> </ul>                                                                                                                                                                                                                                                 | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 79.3<br><br>Tout=<br>64.6                                      | 36                                | 38                                 | Not Measured                       | Not Measured                                |
| 6/26/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:30 and recorded all measurements</li> <li>▪ Collected air exhaust sample at 10:33, [Thoreau-20090626]</li> <li>▪ Shut down system</li> <li>▪ Measured fluid levels and placed Soakease absorbent sock in 5-2C, 5-34B, SVE-3</li> <li>▪ Checked SVE air filter, filter: OK.</li> <li>▪ Restarted system and recorded gauge measurements at 12:23</li> <li>▪ Checked moisture in knockout pot; appears to be empty.</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 79.0<br><br>Tout=<br>68.0<br><br><br>80.6<br><br>Tout=<br>70.3 | 36                                | 38                                 | 5-2C: ND<br>5-34B: ND<br>SVE-3: ND | 5-2C: 57.25<br>5-34B: 60.92<br>SVE-3: 60.25 |

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected

**Operation and Maintenance Activities for July 2009**  
**Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee    | Task Description                                                                                                                                                                                                                                                                                                                                | Wells Online                                     | Temp (°F) | Pressure In (in H <sub>2</sub> O) | Pressure Out (in H <sub>2</sub> O) | Depth to PSH (ft btoc) | Depth to Water (ft btoc) |
|---------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------|-----------------------------------|------------------------------------|------------------------|--------------------------|
| 7/8/2009      | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:46 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ No fluid detected in knockout pot</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 81.9      | 36                                | 38                                 | Not Measured           | Not Measured             |
| 7/16/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:44 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ No fluid detected in knockout pot</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 88.7      | 36                                | 39                                 | Not Measured           | Not Measured             |

**Operation and Maintenance Activities for July 2009**  
**Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee    | Task Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Wells Online                                     | Temp (°F)                                        | Pressure In (in H <sub>2</sub> O)            | Pressure Out (in H <sub>2</sub> O)           | Depth to PSH (ft btoc)             | Depth to Water (ft btoc)                    |
|---------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------|---------------------------------------------|
| 7/23/2009     | Celestine Ngam    | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:25 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ No fluid detected in knockout pot</li> </ul>                                                                                                                                                                                                                                                                                                               | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 87.1                                             | 36                                           | 40                                           | Not Measured                       | Not Measured                                |
| 7/31/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:48 and recorded all measurements</li> <li>▪ Collected air exhaust sample at 10:50, [Thoreau-20090731]</li> <li>▪ Shut down system</li> <li>▪ Measured fluid levels</li> <li>▪ Removed Soakease absorbent sock in 5-2C, 5-34B, SVE-3. Did not place new sorbent socks.</li> <li>▪ Checked SVE air filter, filter: OK.</li> <li>▪ Restarted system and recorded gauge measurements at 11:52</li> <li>▪ Checked moisture in knockout pot; appears to be empty.</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 84.0<br><br><br><br><br><br><br><br><br><br>82.8 | 36<br><br><br><br><br><br><br><br><br><br>36 | 39<br><br><br><br><br><br><br><br><br><br>39 | 5-2C: ND<br>5-34B: ND<br>SVE-3: ND | 5-2C: 57.31<br>5-34B: 61.08<br>SVE-3: 60.24 |

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected

**Operation and Maintenance Activities for August 2009  
Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee    | Task Description                                                                                                                                                                                                                                                                                                                                | Wells Online                                     | Temp (°F) | Pressure In (in H <sub>2</sub> O) | Pressure Out (in H <sub>2</sub> O) | Depth to PSH (ft btoc) | Depth to Water (ft btoc) |
|---------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------|-----------------------------------|------------------------------------|------------------------|--------------------------|
| 8/6/2009      | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 13:12 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ No fluid detected in knockout pot</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 81.1      | 36                                | 39                                 | Not Measured           | Not Measured             |
| 8/14/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:50 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ No fluid detected in knockout pot</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 75.6      | 36                                | 40                                 | Not Measured           | Not Measured             |

**Operation and Maintenance Activities for August 2009  
Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee    | Task Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Wells Online                                     | Temp (°F)                            | Pressure In (in H <sub>2</sub> O) | Pressure Out (in H <sub>2</sub> O) | Depth to PSH (ft btoc)                   | Depth to Water (ft btoc)                    |
|---------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------|-----------------------------------|------------------------------------|------------------------------------------|---------------------------------------------|
| 8/20/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 11:05 and recorded all measurements</li> <li>▪ Collected air exhaust sample at 11:10, [Thoreau-20090820]</li> <li>▪ Shut down system</li> <li>▪ Measured fluid levels</li> <li>▪ Placed Soakease absorbent sock in wells 5-2C, 5-34B, and SVE-3.</li> <li>▪ Checked SVE air filter, filter: OK.</li> <li>▪ Restarted system and recorded gauge measurements at 12:20</li> <li>▪ Checked moisture in knockout pot; appears to be empty.</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 91.9<br><br><br><br><br><br><br>94.1 | 36<br><br><br><br><br><br><br>36  | 40<br><br><br><br><br><br><br>40   | 5-2C: 57.05<br>5-34B: 61.06<br>SVE-3: ND | 5-2C: 57.07<br>5-34B: 61.10<br>SVE-3: 60.00 |
| 8/28/2009     | Celestine Ngam    | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 11:11 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ No fluid detected in knockout pot</li> </ul>                                                                                                                                                                                                                                                                                       | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 89.8                                 | 36                                | 40                                 | Not Measured                             | Not Measured                                |

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected

**Operation and Maintenance Activities for September 2009  
Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee    | Task Description                                                                                                                                                                                                                                                                                                                                 | Wells Online                                     | Temp (°F)                 | Pressure In (in H <sub>2</sub> O) | Pressure Out (in H <sub>2</sub> O) | Depth to PSH (ft btoc) | Depth to Water (ft btoc) |
|---------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------|-----------------------------------|------------------------------------|------------------------|--------------------------|
| 9/4/2009      | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 13:12 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ No fluid detected in knockout pot</li> </ul>  | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 76.8                      | 36                                | 40                                 | Not Measured           | Not Measured             |
| 9/11/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections.</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:50 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ No fluid detected in knockout pot</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 68.5<br><br>Tout=<br>14.4 | 36                                | 40                                 | Not Measured           | Not Measured             |
| 9/17/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:55 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ No fluid detected in knockout pot</li> </ul>  | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 68.0<br><br>Tout=<br>56.1 | 37                                | 39                                 | Not Measured           | Not Measured             |

**Operation and Maintenance Activities for September 2009**  
**Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee    | Task Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Wells Online                                     | Temp (°F)                                        | Pressure In (in H <sub>2</sub> O)            | Pressure Out (in H <sub>2</sub> O)           | Depth to PSH (ft btoc)             | Depth to Water (ft btoc)                    |
|---------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------|---------------------------------------------|
| 9/25/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:55 and recorded all measurements</li> <li>▪ Collected air exhaust sample at 11:05, [Thoreau-20090820]</li> <li>▪ Shut down system</li> <li>▪ Measured fluid levels</li> <li>▪ Removed used Soakease absorbent sock in wells 5-2C, 5-34B, and SVE-3. Did not place new sorbent socks.</li> <li>▪ Checked SVE air filter, filter: OK.</li> <li>▪ Restarted system and recorded gauge measurements at 12:18</li> <li>▪ Fluid detected in knockout pot, approximately 6 gallons emptied.</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 75.2<br><br><br><br><br><br><br><br><br><br>77.7 | 36<br><br><br><br><br><br><br><br><br><br>36 | 39<br><br><br><br><br><br><br><br><br><br>39 | 5-2C: ND<br>5-34B: ND<br>SVE-3: ND | 5-2C: 57.27<br>5-34B: 61.14<br>SVE-3: 60.15 |

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected

**Operation and Maintenance Activities for October 2009**  
**Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee    | Task Description                                                                                                                                                                                                                                                                                                                                             | Wells Online                                     | Temp (°F) | Pressure In (in H <sub>2</sub> O) | Pressure Out (in H <sub>2</sub> O) | Depth to PSH (ft btoc) | Depth to Water (ft btoc) |
|---------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------|-----------------------------------|------------------------------------|------------------------|--------------------------|
| 10/1/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 11:18 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ Emptied 2.5 gallons of fluid from knockout pot</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 61.3      | 36                                | 39                                 | Not Measured           | Not Measured             |
| 10/9/2009     | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 11:10 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ Emptied 13 gallons of fluid from knockout pot</li> </ul>  | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 64.4      | 36                                | 39                                 | Not Measured           | Not Measured             |
| 10/14/2009    | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:55 and recorded all measurements</li> <li>▪ Shut down system to check air filter: air filter OK.</li> <li>▪ Emptied 7 gallons of fluid from knockout pot</li> </ul>   | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 70.9      | 36                                | 39                                 | Not Measured           | Not Measured             |

**Operation and Maintenance Activities for October 2009  
Thoreau Compressor Station #5, McKinley County, NM**

| Date of Visit | DBS&A Employee    | Task Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Wells Online                                     | Temp (°F) | Pressure In (in H <sub>2</sub> O) | Pressure Out (in H <sub>2</sub> O) | Depth to PSH (ft btoc)             | Depth to Water (ft btoc)                    |
|---------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------|-----------------------------------|------------------------------------|------------------------------------|---------------------------------------------|
| 10/20/2009    | Elizabeth Bastien | <ul style="list-style-type: none"> <li>▪ Verified vacuum on all extraction wells and integrity of connections</li> <li>▪ All manifold valves full open</li> <li>▪ Checked gauges at 10:55 and recorded all measurements</li> <li>▪ Collected air exhaust sample at 11:20, [Thoreau-20091020]</li> <li>▪ Shut down system for winter</li> <li>▪ Measured fluid levels</li> <li>▪ Removed used Soakease absorbent sock in wells 5-2C, 5-34B, and SVE-3. Did not place new sorbent socks.</li> <li>▪ Checked SVE air filter, filter: OK.</li> <li>▪ Fluid detected in knockout pot, approximately 6 gallons emptied.</li> <li>▪ Coordinated with Transwestern Pipeline staff to dispose of used absorbent socks</li> </ul> | 5-2B<br>5-5B<br>5-34B<br>5-36E<br>SVE-3<br>SVE-4 | 65.5      | 36                                | 40                                 | 5-2C: ND<br>5-34B: ND<br>SVE-3: ND | 5-2C: 57.10<br>5-34B: 61.07<br>SVE-3: 59.90 |

Notes: ft btoc = feet below top of casing, PSH = phase-separated hydrocarbons, ND = Not Detected

# SVE Air Samples



## COVER LETTER

Monday, June 08, 2009

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422

TEL: (281) 797-3420

FAX (281) 859-1881

RE: Thoreau O & M

Order No.: 0905541

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 5/29/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425  
AZ license # AZ0682  
ORELAP Lab # NM100001  
Texas Lab# T104704424-08-TX



**Hall Environmental Analysis Laboratory, Inc.**

Date: 08-Jun-09

**CLIENT:** Cypress Engineering  
**Lab Order:** 0905541  
**Project:** Thoreau O & M  
**Lab ID:** 0905541-01

**Client Sample ID:** Thoreau-20090529  
**Collection Date:** 5/29/2009 11:00:00 AM  
**Date Received:** 5/29/2009  
**Matrix:** AIR

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|-----------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: DAM        |
| Gasoline Range Organics (GRO)           | 160    | 50.0     |      | µg/L  | 10 | 6/3/2009 3:01:33 PM |
| % GRO Hydrocarbons: C05-C6              | 12.9   | 0        |      | µg/L  | 10 | 6/3/2009 3:01:33 PM |
| % GRO Hydrocarbons: C06-C7              | 26.3   | 0        |      | µg/L  | 10 | 6/3/2009 3:01:33 PM |
| % GRO Hydrocarbons: C07-C8              | 36.9   | 0        |      | µg/L  | 10 | 6/3/2009 3:01:33 PM |
| % GRO Hydrocarbons: C08-C9              | 13.1   | 0        |      | µg/L  | 10 | 6/3/2009 3:01:33 PM |
| % GRO Hydrocarbons: C09-C10             | 8.70   | 0        |      | µg/L  | 10 | 6/3/2009 3:01:33 PM |
| % GRO Hydrocarbons: C10-C11             | 1.30   | 0        |      | µg/L  | 10 | 6/3/2009 3:01:33 PM |
| % GRO Hydrocarbons: C11-C12             | 0.700  | 0        |      | µg/L  | 10 | 6/3/2009 3:01:33 PM |
| % GRO Hydrocarbons: C12-C14             | 0.100  | 0        |      | µg/L  | 10 | 6/3/2009 3:01:33 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | µg/L  | 10 | 6/3/2009 3:01:33 PM |
| Surr: BFB                               | 81.8   | 76.8-150 |      | %REC  | 10 | 6/3/2009 3:01:33 PM |

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Estimated value  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

## QA/QC SUMMARY REPORT

Client: Cypress Engineering  
Project: Thoreau O & M

Work Order: 0905541

| Analyte                                         | Result | Units       | PQL   | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-------------------------------------------------|--------|-------------|-------|------|----------|-----------|------|----------|------|
| <b>Method: EPA Method 8015B: Gasoline Range</b> |        |             |       |      |          |           |      |          |      |
| <b>Sample ID: 5ML RB</b>                        |        | <i>MBLK</i> |       |      |          |           |      |          |      |
| Gasoline Range Organics (GRO)                   | ND     | mg/L        | 0.050 |      |          |           |      |          |      |
| <b>Sample ID: 2.5UG GRO LCS</b>                 |        | <i>LCS</i>  |       |      |          |           |      |          |      |
| Gasoline Range Organics (GRO)                   | 0.5806 | mg/L        | 0.050 | 116  | 80       | 115       |      |          | S    |
| <b>Sample ID: 2.5UG GRO LCSD</b>                |        | <i>LCSD</i> |       |      |          |           |      |          |      |
| Gasoline Range Organics (GRO)                   | 0.5688 | mg/L        | 0.050 | 114  | 80       | 115       | 2.05 | 8.39     |      |

Batch ID: R33943 Analysis Date: 6/3/2009 8:50:42 AM

Batch ID: R33943 Analysis Date: 6/3/2009 5:33:42 PM

Batch ID: R33943 Analysis Date: 6/3/2009 6:04:11 PM

## Notes:

- |   |                                            |    |                                                    |
|---|--------------------------------------------|----|----------------------------------------------------|
| E | Estimated value                            | H  | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit                |
| R | RPD outside accepted recovery limits       | S  | Spike recovery outside accepted recovery limits    |

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name CYP

Date Received:

5/29/2009

Work Order Number 0905541

Received by: AT

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name Client drop-off

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☐

Not Shipped ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action



COVER LETTER

Wednesday, July 01, 2009

Bob Marley  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422

TEL: (281) 797-3420

FAX (281) 859-1881

RE: Cypress-Thoreau O+M

Order No.: 0906576

Dear Bob Marlev:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 6/26/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

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

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

Sincerely,



Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



**Hall Environmental Analysis Laboratory, Inc.**

Date: 01-Jul-09

CLIENT: Cypress Engineering  
Lab Order: 0906576  
Project: Cypress-Thoreau O+M  
Lab ID: 0906576-01

Client Sample ID: Thoreau-20090626  
Collection Date: 6/26/2009 10:33:00 AM  
Date Received: 6/26/2009  
Matrix: AIR

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 145    | 25.0     |      | µg/L  | 5  | 6/30/2009 2:50:26 PM |
| % GRO Hydrocarbons: C05-C6              | 8.80   | 0        |      | µg/L  | 5  | 6/30/2009 2:50:26 PM |
| % GRO Hydrocarbons: C06-C7              | 26.1   | 0        |      | µg/L  | 5  | 6/30/2009 2:50:26 PM |
| % GRO Hydrocarbons: C07-C8              | 39.3   | 0        |      | µg/L  | 5  | 6/30/2009 2:50:26 PM |
| % GRO Hydrocarbons: C08-C9              | 15.0   | 0        |      | µg/L  | 5  | 6/30/2009 2:50:26 PM |
| % GRO Hydrocarbons: C09-C10             | 8.20   | 0        |      | µg/L  | 5  | 6/30/2009 2:50:26 PM |
| % GRO Hydrocarbons: C10-C11             | 1.60   | 0        |      | µg/L  | 5  | 6/30/2009 2:50:26 PM |
| % GRO Hydrocarbons: C11-C12             | 0.500  | 0        |      | µg/L  | 5  | 6/30/2009 2:50:26 PM |
| % GRO Hydrocarbons: C12-C14             | 0.500  | 0        |      | µg/L  | 5  | 6/30/2009 2:50:26 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | µg/L  | 5  | 6/30/2009 2:50:26 PM |
| Surr: BFB                               | 91.5   | 76.8-150 |      | %REC  | 5  | 6/30/2009 2:50:26 PM |

Qualifiers: \* Value exceeds Maximum Contaminant Level  
E Estimated value  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

## QA/QC SUMMARY REPORT

Client: Cypress Engineering  
Project: Cypress-Thoreau O+M

Work Order: 0906576

| Analyte | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|

Method: EPA Method 8015B: Gasoline Range

Sample ID: 5ML RB

MBLK

Batch ID: R34318 Analysis Date: 8/30/2009 9:19:27 AM

Gasoline Range Organics (GRO) ND mg/L 0.050

Sample ID: 2.5UG GRO LCS

LCS

Batch ID: R34318 Analysis Date: 8/30/2009 8:26:26 PM

Gasoline Range Organics (GRO) 0.5048 mg/L 0.050 101 80 115

## Qualifiers:

|   |                                            |    |                                                    |
|---|--------------------------------------------|----|----------------------------------------------------|
| E | Estimated value                            | H  | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit                |
| R | RPD outside accepted recovery limits       | S  | Spike recovery outside accepted recovery limits    |

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Name CYP

Date Received:

6/26/2009

Order Number 0906576

Received by: TLS

Sample ID labels checked by:

Checklist completed by:

Signature

Date

Initials

Matrix:

Carrier name: Client drop-off

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☐

Not Shipped ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Number of preserved bottles checked for pH:

Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

<2 >12 unless noted below.

Container/Temp Blank temperature?

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

active Action

☐ EDD (Type)

Sample Temperature

Tel. 505-345-3975      Fax 505-345-4107

Remarks:  
Send George Robinson + Bob Marley  
a copy of results  
Report HCR

COVER LETTER

Friday, August 07, 2009

Bob Marley  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422

TEL: (281) 797-3420

FAX (281) 859-1881

RE: Cypress Thoreau

Order No.: 0907588

Dear Bob Marley:

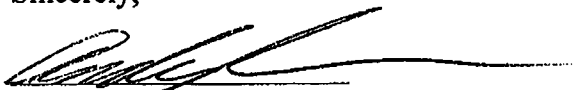
Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 7/31/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

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

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

Sincerely,



Andy Freeman, Business Manager

Nancy McDuffie, Laboratory Manager

NM Lab # NM9425

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



**Hall Environmental Analysis Laboratory, Inc.**

Date: 07-Aug-09

**CLIENT:** Cypress Engineering  
**Lab Order:** 0907588  
**Project:** Cypress Thoreau  
**Lab ID:** 0907588-01

**Client Sample ID:** Thoreau 20090731  
**Collection Date:** 7/31/2009 10:50:00 AM  
**Date Received:** 7/31/2009  
**Matrix:** AIR

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|-----------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB        |
| Gasoline Range Organics (GRO)           | 129    | 5.00     |      | µg/L  | 1  | 8/6/2009 2:18:39 PM |
| % GRO Hydrocarbons: C05-C6              | 8.30   | 0        |      | µg/L  | 1  | 8/6/2009 2:18:39 PM |
| % GRO Hydrocarbons: C06-C7              | 26.7   | 0        |      | µg/L  | 1  | 8/6/2009 2:18:39 PM |
| % GRO Hydrocarbons: C07-C8              | 36.7   | 0        |      | µg/L  | 1  | 8/6/2009 2:18:39 PM |
| % GRO Hydrocarbons: C08-C9              | 17.7   | 0        |      | µg/L  | 1  | 8/6/2009 2:18:39 PM |
| % GRO Hydrocarbons: C09-C10             | 6.90   | 0        |      | µg/L  | 1  | 8/6/2009 2:18:39 PM |
| % GRO Hydrocarbons: C10-C11             | 2.10   | 0        |      | µg/L  | 1  | 8/6/2009 2:18:39 PM |
| % GRO Hydrocarbons: C11-C12             | 1.20   | 0        |      | µg/L  | 1  | 8/6/2009 2:18:39 PM |
| % GRO Hydrocarbons: C12-C14             | 0.400  | 0        |      | µg/L  | 1  | 8/6/2009 2:18:39 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | µg/L  | 1  | 8/6/2009 2:18:39 PM |
| Surr: BFB                               | 127    | 76.8-150 |      | %REC  | 1  | 8/6/2009 2:18:39 PM |

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Estimated value  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

## QA/QC SUMMARY REPORT

Client: Cypress Engineering  
 Location: Cypress Thoreau

Work Order: 0907588

| Analyte | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|

Method: EPA Method 8015B: Gasoline Range

Sample ID: 5ML RB MBLK Batch ID: R34800 Analysis Date: 8/5/2009 11:42:41 AM

Gasoline Range Organics (GRO) ND mg/Kg 5.0

Sample ID: 2.5UG GRO LCS LCS Batch ID: R34800 Analysis Date: 8/5/2009 9:17:13 PM

Gasoline Range Organics (GRO) 28.07 mg/Kg 5.0 112 64.4 133

Method: EPA Method 8015B: Gasoline Range

Sample ID: 5ML RB MBLK Batch ID: R34800 Analysis Date: 8/5/2009 11:42:41 AM

Gasoline Range Organics (GRO) ND mg/L 0.050

Sample ID: 2.5UG GRO LCS LCS Batch ID: R34800 Analysis Date: 8/5/2009 9:17:13 PM

Gasoline Range Organics (GRO) 0.5614 mg/L 0.050 112 80 115

Method: EPA Method 8015B: Gasoline Range

Sample ID: 5ML RB MBLK Batch ID: R34820 Analysis Date: 8/6/2009 9:16:45 AM

Gasoline Range Organics (GRO) ND mg/L 0.050

Sample ID: 2.5UG GRO LCS LCS Batch ID: R34820 Analysis Date: 8/6/2009 6:20:02 PM

Gasoline Range Organics (GRO) 0.5218 mg/L 0.050 104 80 115

Sample ID: 2.5UG GRO LCSD LCSD Batch ID: R34820 Analysis Date: 8/6/2009 6:50:41 PM

Gasoline Range Organics (GRO) 0.5268 mg/L 0.050 105 80 115 0.954 8.39

## Notes:

|   |                                            |    |                                                    |
|---|--------------------------------------------|----|----------------------------------------------------|
| E | Estimated value                            | H  | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit                |
| R | RPD outside accepted recovery limits       | S  | Spike recovery outside accepted recovery limits    |

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name CYP

Date Received:

7/31/2009

Work Order Number 0907588

Received by: TLS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Client drop-off

|                                                         |                                                            |                              |                                                 |                                                 |
|---------------------------------------------------------|------------------------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------------|
| Shipping container/cooler In good condition?            | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>  | Not Present <input checked="" type="checkbox"/> |                                                 |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>  | Not Present <input type="checkbox"/>            | Not Shipped <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>  | N/A <input checked="" type="checkbox"/>         |                                                 |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                                 |                                                 |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                                 |                                                 |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                                 |                                                 |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                                 |                                                 |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                                 |                                                 |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                                 |                                                 |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                                 |                                                 |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/>                     |                                                 |
| Water - Preservation labels on bottle and cap match?    | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>  | N/A <input checked="" type="checkbox"/>         |                                                 |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>  | N/A <input checked="" type="checkbox"/>         |                                                 |

Number of preserved  
bottles checked for  
pH:

<2. >12 unless noted  
below.

Container/Temp Blank temperature?

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

# Chain of Custody Record

Client: Cypress

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☐ Rush

Project Name:

Cypress Thoreau

Project #:

E509.0081.00

Project Manager:

Bob Marley

Sampler:

On-site EYES IN

Sample temperature:

59.0/53.8

Container Type and #

Preservative Type

TEFLON

Teflon

—

-1



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

| BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) |  |  |  |  |  |  |  | Air Bubbles (Y or N) |
|----------------------------|------------------------------|-------------------------------|--------------------|--------------------|-------------------|---------------|----------------------------------------------------------------------------------------|------------------------------|-------------|-----------------|--|--|--|--|--|--|--|----------------------|
|                            |                              | X                             |                    |                    |                   |               |                                                                                        |                              |             |                 |  |  |  |  |  |  |  |                      |

| Date           | Time        | Matrix     | Sample Request ID       |
|----------------|-------------|------------|-------------------------|
| <u>7/31/09</u> | <u>1000</u> | <u>air</u> | <u>Thoreau 20090731</u> |

Date: 7/31/09 Time: 2:20 Relinquished by: Elizabeth Bastien

Received by: [Signature] Date: 7/31/09 Time: 1400

Remarks: Please send copy to George Robinson + Bob Marley Report HCR

## COVER LETTER

Wednesday, August 26, 2009

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422

TEL: (281) 797-3420

FAX (281) 859-1881

RE: Thoreau Station #5

Order No.: 0908347

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 8/20/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

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

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

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



**Hall Environmental Analysis Laboratory, Inc.**

Date: 26-Aug-09

**CLIENT:** Cypress Engineering  
**Lab Order:** 0908347  
**Project:** Thoreau Station #5  
**Lab ID:** 0908347-01

**Client Sample ID:** Thoreau-20090820  
**Collection Date:** 8/20/2009 11:10:00 AM  
**Date Received:** 8/20/2009  
**Matrix:** AIR

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 155    | 10.0     |      | µg/L  | 2  | 8/25/2009 11:34:24 AM |
| % GRO Hydrocarbons: C05-C8              | 12.0   | 0        |      | µg/L  | 2  | 8/25/2009 11:34:24 AM |
| % GRO Hydrocarbons: C06-C7              | 28.4   | 0        |      | µg/L  | 2  | 8/25/2009 11:34:24 AM |
| % GRO Hydrocarbons: C07-C8              | 34.1   | 0        |      | µg/L  | 2  | 8/25/2009 11:34:24 AM |
| % GRO Hydrocarbons: C08-C9              | 15.9   | 0        |      | µg/L  | 2  | 8/25/2009 11:34:24 AM |
| % GRO Hydrocarbons: C09-C10             | 6.40   | 0        |      | µg/L  | 2  | 8/25/2009 11:34:24 AM |
| % GRO Hydrocarbons: C10-C11             | 1.90   | 0        |      | µg/L  | 2  | 8/25/2009 11:34:24 AM |
| % GRO Hydrocarbons: C11-C12             | 0.900  | 0        |      | µg/L  | 2  | 8/25/2009 11:34:24 AM |
| % GRO Hydrocarbons: C12-C14             | 0.400  | 0        |      | µg/L  | 2  | 8/25/2009 11:34:24 AM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | µg/L  | 2  | 8/25/2009 11:34:24 AM |
| Surr: BFB                               | 105    | 76.8-150 |      | %REC  | 2  | 8/25/2009 11:34:24 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

## QA/QC SUMMARY REPORT

Client: Cypress Engineering  
Project: Thoreau Station #5

Work Order: 0908347

| Analyte | Result | Units | PQL | SPK Va | SPK ref | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|--------|---------|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|--------|---------|------|----------|-----------|------|----------|------|

Method: EPA Method 8015B: Gasoline Range

|                               |        |      |       |     |   |                  |                                     |
|-------------------------------|--------|------|-------|-----|---|------------------|-------------------------------------|
| Sample ID: 5ML RB             |        | MBLK |       |     |   | Batch ID: R35033 | Analysis Date: 8/25/2009 9:00:16 AM |
| Gasoline Range Organics (GRO) | ND     | mg/L | 0.050 |     |   |                  |                                     |
| Sample ID: b 16               |        | MBLK |       |     |   | Batch ID: R35033 | Analysis Date: 8/25/2009 4:29:53 PM |
| Gasoline Range Organics (GRO) | ND     | mg/L | 0.050 |     |   |                  |                                     |
| Sample ID: 2.5UG GRO LCS      |        | LCS  |       |     |   | Batch ID: R35033 | Analysis Date: 8/26/2009 4:10:57 AM |
| Gasoline Range Organics (GRO) | 0.4636 | mg/L | 0.050 | 0.5 | 0 | 92.7             | 80 115                              |
| Sample ID: 2.5UG GRO LCS-II   |        | LCS  |       |     |   | Batch ID: R35033 | Analysis Date: 8/26/2009 4:41:23 AM |
| Gasoline Range Organics (GRO) | 0.5176 | mg/L | 0.050 | 0.5 | 0 | 104              | 80 115                              |

## Qualifiers:

|   |                                            |    |                                                    |
|---|--------------------------------------------|----|----------------------------------------------------|
| E | Estimated value                            | H  | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit                |
| R | RPD outside accepted recovery limits       | S  | Spike recovery outside accepted recovery limits    |

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name CYP

Date Received:

8/20/2009

Order Number 0908347

Received by: ARS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Client drop-off

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☐

Not Shipped ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Number of preserved  
bottles checked for  
pH:

<2 >12 unless noted  
below.

Container/Temp Blank temperature?

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

| Chain-of-Custody Record                                                              |                                                                                          | Turn-Around Time: |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------|
| Client: <u>Cypress</u>                                                               | <input type="checkbox"/> Standard <input type="checkbox"/> Rush _____                    |                   |
| Mailing Address:                                                                     | Project Name: <u>Cypress Thoreau</u>                                                     |                   |
|                                                                                      | Project #: <u>ES09,0081.00</u>                                                           |                   |
| Phone #:                                                                             | Project Manager:                                                                         |                   |
| email or Fax#:                                                                       |                                                                                          |                   |
| QA/QC Package:                                                                       |                                                                                          |                   |
| <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation) |                                                                                          |                   |
| Accreditation                                                                        | Sampler:                                                                                 |                   |
| <input type="checkbox"/> NELAP <input type="checkbox"/> Other _____                  | <input type="checkbox"/> On Ice <input type="checkbox"/> Yes <input type="checkbox"/> No |                   |
| <input type="checkbox"/> EDD (Type) _____                                            | Sample Temperature                                                                       |                   |

☐ Standard      ☐ Rush

**Project Name:**

Cypress Thoreau

Project #:

€509,0081.00

**Project Manager:**

**Sampler:**

On ice ☒ Yes ☐ No

Sample Temperature

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

|                         |                      |                                                                                     |
|-------------------------|----------------------|-------------------------------------------------------------------------------------|
| Container<br>Type and # | Preservative<br>Type |  |
|-------------------------|----------------------|-------------------------------------------------------------------------------------|

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975      Fax 505-345-4107

## Analysis Request

[illegible]

|         |       |                  |                   |         |      |
|---------|-------|------------------|-------------------|---------|------|
| Date:   | Time: | Relinquished by: | Received by:      | Date    | Time |
| 8/20/09 | 2:45  | Elizabeth Barker | [Signature] 14:45 | 8/20/09 |      |
| Date:   | Time: | Relinquished by: | Received by:      | Date    | Time |

|       |       |                  |              |      |      |
|-------|-------|------------------|--------------|------|------|
| Date: | Time: | Relinquished by: | Received by: | Date | Time |
|       |       |                  |              |      |      |

Remarks:

Remarks: Please send copy to George Robinson and Bob Marley  
Respect,

If neces:

samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.

erves as notice of this possibility. Any sub-contracted data will be clearly notated on the an

port.



## COVER LETTER

Thursday, October 01, 2009

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422

TEL: (281) 797-3420

FAX (281) 859-1881

RE: CypressThoreau

Order No.: 0909532

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 9/25/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman, Laboratory Manager

NM Lab # NM9425

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



**Hall Environmental Analysis Laboratory, Inc.**

Date: 01-Oct-09

**CLIENT:** Cypress Engineering  
**Lab Order:** 0909532  
**Project:** CypressThoreau  
**Lab ID:** 0909532-01

**Client Sample ID:** Thoreau-20090925  
**Collection Date:** 9/25/2009 11:05:00 AM  
**Date Received:** 9/25/2009  
**Matrix:** AIR

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 163    | 10.0     |      | µg/L  | 2  | 9/30/2009 1:50:05 PM |
| % GRO Hydrocarbons: C05-C6              | 8.70   | 0        |      | µg/L  | 2  | 9/30/2009 1:50:05 PM |
| % GRO Hydrocarbons: C06-C7              | 34.1   | 0        |      | µg/L  | 2  | 9/30/2009 1:50:05 PM |
| % GRO Hydrocarbons: C07-C8              | 35.4   | 0        |      | µg/L  | 2  | 9/30/2009 1:50:05 PM |
| % GRO Hydrocarbons: C08-C9              | 14.4   | 0        |      | µg/L  | 2  | 9/30/2009 1:50:05 PM |
| % GRO Hydrocarbons: C09-C10             | 5.40   | 0        |      | µg/L  | 2  | 9/30/2009 1:50:05 PM |
| % GRO Hydrocarbons: C10-C11             | 1.30   | 0        |      | µg/L  | 2  | 9/30/2009 1:50:05 PM |
| % GRO Hydrocarbons: C11-C12             | 0.500  | 0        |      | µg/L  | 2  | 9/30/2009 1:50:05 PM |
| % GRO Hydrocarbons: C12-C14             | 0.200  | 0        |      | µg/L  | 2  | 9/30/2009 1:50:05 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | µg/L  | 2  | 9/30/2009 1:50:05 PM |
| Surr: BFB                               | 104    | 76.8-150 |      | %REC  | 2  | 9/30/2009 1:50:05 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

## QA/QC SUMMARY REPORT

Client: Cypress Engineering  
Contact: CypressThoreau

Work Order: 0909532

| Analyte | Result | Units | PQL | SPK Va | SPK ref | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|--------|---------|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|--------|---------|------|----------|-----------|------|----------|------|

Method: EPA Method 8015B: Gasoline Range

Sample ID: 5ML RB

MBLK

Batch ID: R35526 Analysis Date: 9/30/2009 9:15:02 AM

Gasoline Range Organics (GRO) ND mg/L 0.050

Sample ID: 2.5UG GRO LCS

LCS

Batch ID: R35526 Analysis Date: 9/30/2009 11:47:31 AM

Gasoline Range Organics (GRO) 0.5316 mg/L 0.050 0.5 0 106 80 115

## Notes:

- |   |                                            |    |                                                    |
|---|--------------------------------------------|----|----------------------------------------------------|
| E | Estimated value                            | H  | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit                |
| R | RPD outside accepted recovery limits       | S  | Spike recovery outside accepted recovery limits    |

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name CYP

Date Received:

9/25/2009

Work Order Number 0909532

Received by: TLS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name Client drop-off

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☐

Not Shipped ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Number of preserved  
bottles checked for  
pH:

<2 >12 unless noted  
below.

Container/Temp Blank temperature?

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action



## COVER LETTER

Friday, October 23, 2009

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422

TEL: (281) 797-3420

FAX (281) 859-1881

RE: CypressThoreau

Order No.: 0910376

Dear George Robinson:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 10/20/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

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

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

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



**Hall Environmental Analysis Laboratory, Inc.**

Date: 23-Oct-09

**CLIENT:** Cypress Engineering  
**Lab Order:** 0910376  
**Project:** CypressThoreau  
**Lab ID:** 0910376-01

**Client Sample ID:** Thoreau-20091020  
**Collection Date:** 10/20/2009 11:20:00 AM  
**Date Received:** 10/20/2009  
**Matrix:** AIR

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB           |
| Gasoline Range Organics (GRO)           | 164    | 25.0     |      | µg/L  | 5  | 10/22/2009 12:39:26 PM |
| % GRO Hydrocarbons: C05-C6              | 8.30   | 0        |      | µg/L  | 5  | 10/22/2009 12:39:26 PM |
| % GRO Hydrocarbons: C06-C7              | 27.3   | 0        |      | µg/L  | 5  | 10/22/2009 12:39:26 PM |
| % GRO Hydrocarbons: C07-C8              | 41.3   | 0        |      | µg/L  | 5  | 10/22/2009 12:39:26 PM |
| % GRO Hydrocarbons: C08-C9              | 14.9   | 0        |      | µg/L  | 5  | 10/22/2009 12:39:26 PM |
| % GRO Hydrocarbons: C09-C10             | 6.90   | 0        |      | µg/L  | 5  | 10/22/2009 12:39:26 PM |
| % GRO Hydrocarbons: C10-C11             | 0.900  | 0        |      | µg/L  | 5  | 10/22/2009 12:39:26 PM |
| % GRO Hydrocarbons: C11-C12             | 0.300  | 0        |      | µg/L  | 5  | 10/22/2009 12:39:26 PM |
| % GRO Hydrocarbons: C12-C14             | 0.100  | 0        |      | µg/L  | 5  | 10/22/2009 12:39:26 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | µg/L  | 5  | 10/22/2009 12:39:26 PM |
| Surr: BFB                               | 96.4   | 76.8-150 |      | %REC  | 5  | 10/22/2009 12:39:26 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

## QA/QC SUMMARY REPORT

Client: Cypress Engineering  
Project: CypressThoreau

Work Order: 091037

| Analyte | Result | Units | PQL | SPK Va | SPK ref | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|--------|---------|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|--------|---------|------|----------|-----------|------|----------|------|

Method: EPA Method 8015B: Gasoline Range

Sample ID: 5ML RB

MBLK

Batch ID: R35851 Analysis Date: 10/22/2009 9:39:24 AM

Gasoline Range Organics (GRO) ND mg/L 0.050

Sample ID: 2.5UG GRO LCS

LCS

Batch ID: R35851 Analysis Date: 10/22/2009 7:26:18 PM

Gasoline Range Organics (GRO) 0.4994 mg/L 0.050 0.5 0 99.9 80 115

## Qualifiers:

|   |                                            |    |                                                    |
|---|--------------------------------------------|----|----------------------------------------------------|
| E | Estimated value                            | H  | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit                |
| R | RPD outside accepted recovery limits       | S  | Spike recovery outside accepted recovery limits    |

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

\* Name CYP

Date Received:

10/20/2009

Order Number 0910376

Received by: ARS

Sample ID labels checked by:

Checklist completed by:

Signature

Date

Initials

Matrix:

Carrier name: Client drop-off

|                                                         |                                                            |                              |                                         |                                                 |
|---------------------------------------------------------|------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  | Not Present <input type="checkbox"/>    |                                                 |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>  | Not Present <input type="checkbox"/>    | Not Shipped <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>  | N/A <input checked="" type="checkbox"/> |                                                 |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                         |                                                 |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                         |                                                 |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                         |                                                 |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                         |                                                 |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                         |                                                 |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                         |                                                 |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |                                         |                                                 |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/>             | Number of preserved bottles checked for pH:     |
| - Preservation labels on bottle and cap match?          | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>  | N/A <input checked="" type="checkbox"/> |                                                 |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>  | N/A <input checked="" type="checkbox"/> | <2 >12 unless noted below.                      |
| Container/Temp Blank temperature?                       |                                                            | <6° C Acceptable             |                                         |                                                 |

If given sufficient time to cool.

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

| Chain-of-Custody Record             |                                                    | Turn-Around Time:                 |                               |
|-------------------------------------|----------------------------------------------------|-----------------------------------|-------------------------------|
| Client: <u>Cypress</u>              |                                                    | <input type="checkbox"/> Standard | <input type="checkbox"/> Rush |
| Mailing Address:                    |                                                    | Project Name:                     | <u>Cypress Thoreau</u>        |
|                                     |                                                    | Project #:                        | <u>ES09.0081.00</u>           |
| Phone #:                            |                                                    | Project Manager:                  | <u>Bob Marley</u>             |
| email or Fax#:                      |                                                    |                                   |                               |
| QA/QC Package:                      |                                                    |                                   |                               |
| <input type="checkbox"/> Standard   | <input type="checkbox"/> Level 4 (Full Validation) |                                   |                               |
| Accreditation                       |                                                    | Sampler:                          |                               |
| <input type="checkbox"/> NELAP      | <input type="checkbox"/> Other                     |                                   |                               |
| <input type="checkbox"/> EDD (Type) |                                                    |                                   |                               |

☐ Standard      ☐ Rush

Project Name:

Cypress Thoreau

Project #:

ES09,0081.00

**Project Manager:**

Bob Marley

**Sampler:**

On Ice: ☐ Yes ☐ No

Sample Temperature

| Container<br>Type and # | Material | Quantity | Remarks |
|-------------------------|----------|----------|---------|
| 1                       | ...      | ...      | ...     |
| 2                       | ...      | ...      | ...     |
| 3                       | ...      | ...      | ...     |
| 4                       | ...      | ...      | ...     |
| 5                       | ...      | ...      | ...     |
| 6                       | ...      | ...      | ...     |
| 7                       | ...      | ...      | ...     |
| 8                       | ...      | ...      | ...     |
| 9                       | ...      | ...      | ...     |
| 10                      | ...      | ...      | ...     |
| 11                      | ...      | ...      | ...     |
| 12                      | ...      | ...      | ...     |
| 13                      | ...      | ...      | ...     |
| 14                      | ...      | ...      | ...     |
| 15                      | ...      | ...      | ...     |
| 16                      | ...      | ...      | ...     |
| 17                      | ...      | ...      | ...     |
| 18                      | ...      | ...      | ...     |
| 19                      | ...      | ...      | ...     |
| 20                      | ...      | ...      | ...     |
| 21                      | ...      | ...      | ...     |
| 22                      | ...      | ...      | ...     |
| 23                      | ...      | ...      | ...     |
| 24                      | ...      | ...      | ...     |
| 25                      | ...      | ...      | ...     |
| 26                      | ...      | ...      | ...     |
| 27                      | ...      | ...      | ...     |
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| 29                      | ...      | ...      | ...     |
| 30                      | ...      | ...      | ...     |
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| 33                      | ...      | ...      | ...     |
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| 61                      | ...      | ...      | ...     |
| 62                      | ...      | ...      | ...     |
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| 89                      | ...      | ...      | ...     |
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| 91                      | ...      | ...      | ...     |
| 92                      | ...      | ...      | ...     |
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| 94                      | ...      | ...      | ...     |
| 95                      | ...      | ...      | ...     |
| 96                      | ...      | ...      | ...     |
| 97                      | ...      | ...      | ...     |
| 98                      | ...      | ...      | ...     |
| 99                      | ...      | ...      | ...     |
| 100                     | ...      | ...      | ...     |

Preservative  
Type

# REAL NO

0910316

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975      Fax 505-345-4107

## ~~Analysis Request~~

[illegible]

Date:

Time:

Relinquished by:

Elizabeth Barker

Received by:

| Date | Time |
|------|------|
|------|------|

15:15 10/20/09

Remarks:

Remarks: Please send copy to George Robinson  
and Robert Marley Report HCR

Date: \_\_\_\_\_

Time:

Relinquished by:

Received by:

Date \_\_\_\_\_ Time \_\_\_\_\_

# Groundwater Samples



## COVER LETTER

Monday, August 17, 2009

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422

TEL: (281) 797-3420

FAX (281) 859-1881

RE: Transwestern Pipeline Company Thoreau Sta 5

Order No.: 0908073

Dear George Robinson:

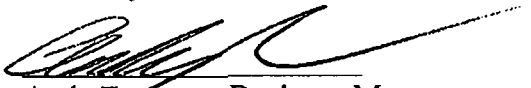
Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 8/6/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

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

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

Sincerely,



Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425  
AZ license # AZ0682  
ORELAP Lab # NM100001  
Texas Lab# T104704424-08-TX



**Hall Environmental Analysis Laboratory, Inc.**

Date: 17-Aug-09

CLIENT: Cypress Engineering

Client Sample ID: 5-59

Lab Order: 0908073

Collection Date: 8/4/2009 6:40:00 PM

Project: Transwestern Pipeline Company Thoreau Sta 5

Date Received: 8/6/2009

Lab ID: 0908073-01

Matrix: AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8082: PCB'S</b>      |        |          |      |       |    | Analyst: JMP          |
| Aroclor 1016                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 12:29:21 PM |
| Aroclor 1221                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 12:29:21 PM |
| Aroclor 1232                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 12:29:21 PM |
| Aroclor 1242                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 12:29:21 PM |
| Aroclor 1248                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 12:29:21 PM |
| Aroclor 1254                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 12:29:21 PM |
| Aroclor 1260                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 12:29:21 PM |
| Surr: Decachlorobiphenyl           | 64.8   | 23.9-124 |      | %REC  | 1  | 8/11/2009 12:29:21 PM |
| Surr: Tetrachloro-m-xylene         | 56.8   | 28.1-139 |      | %REC  | 1  | 8/11/2009 12:29:21 PM |
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: NSB          |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 1:13:16 PM  |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 1:13:16 PM  |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 1:13:16 PM  |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 8/13/2009 1:13:16 PM  |
| Surr: 4-Bromofluorobenzene         | 83.0   | 65.9-130 |      | %REC  | 1  | 8/13/2009 1:13:16 PM  |

Qualifiers: \* Value exceeds Maximum Contaminant Level  
E Estimated value  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

# Hall Environmental Analysis Laboratory, Inc.

Date: 17-Aug-09

**IENT:** Cypress Engineering **Client Sample ID:** 5-60  
**Lab Order:** 0908073 **Collection Date:** 8/4/2009 7:10:00 PM  
**Project:** Transwestern Pipeline Company Thoreau Sta 5 **Date Received:** 8/6/2009  
**Lab ID:** 0908073-02 **Matrix:** AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8082: PCB'S</b>      |        |          |      |       |    | Analyst: JMP         |
| Aroclor 1016                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 1:19:53 PM |
| Aroclor 1221                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 1:19:53 PM |
| Aroclor 1232                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 1:19:53 PM |
| Aroclor 1242                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 1:19:53 PM |
| Aroclor 1248                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 1:19:53 PM |
| Aroclor 1254                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 1:19:53 PM |
| Aroclor 1260                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 1:19:53 PM |
| Surr: Decachlorobiphenyl           | 78.8   | 23.9-124 |      | %REC  | 1  | 8/11/2009 1:19:53 PM |
| Surr: Tetrachloro-m-xylene         | 65.2   | 28.1-139 |      | %REC  | 1  | 8/11/2009 1:19:53 PM |
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: NSB         |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 1:43:37 PM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 1:43:37 PM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 1:43:37 PM |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 8/13/2009 1:43:37 PM |
| Surr: 4-Bromofluorobenzene         | 93.5   | 65.9-130 |      | %REC  | 1  | 8/13/2009 1:43:37 PM |

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Estimated value  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 MCL Maximum Contaminant Level  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.**

Date: 17-Aug-09

CLIENT: Cypress Engineering

Client Sample ID: 5-16B

Lab Order: 0908073

Collection Date: 8/4/2009 5:00:00 PM

Project: Transwestern Pipeline Company Thoreau Sta 5

Date Received: 8/6/2009

Lab ID: 0908073-03

Matrix: AQUEOUS

| Analyses                    | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|-----------------------------|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8021B: VOLATILES |        |          |      |       |    | Analyst: NSB         |
| Benzene                     | 1300   | 50       |      | µg/L  | 50 | 8/13/2009 2:14:05 PM |
| Toluene                     | ND     | 5.0      |      | µg/L  | 5  | 8/13/2009 2:44:41 PM |
| Ethylbenzene                | 150    | 5.0      |      | µg/L  | 5  | 8/13/2009 2:44:41 PM |
| Xylenes, Total              | 590    | 10       |      | µg/L  | 5  | 8/13/2009 2:44:41 PM |
| Surr: 4-Bromofluorobenzene  | 110    | 65.9-130 |      | %REC  | 5  | 8/13/2009 2:44:41 PM |

Qualifiers: \* Value exceeds Maximum Contaminant Level  
E Estimated value  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

Page 3 of 10

**Hall Environmental Analysis Laboratory, Inc.**

Date: 17-Aug-09

ENT: Cypress Engineering

Client Sample ID: 5-61B

Lab Order: 0908073

Collection Date: 8/4/2009 12:00:00 PM

Project: Transwestern Pipeline Company Thoreau Sta 5

Date Received: 8/6/2009

Lab ID: 0908073-04

Matrix: AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8082: PCB'S</b>      |        |          |      |       |    | Analyst: JMP         |
| Aroclor 1016                       | 1.7    | 1.0      |      | µg/L  | 1  | 8/11/2009 2:09:22 PM |
| Aroclor 1221                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:09:22 PM |
| Aroclor 1232                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:09:22 PM |
| Aroclor 1242                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:09:22 PM |
| Aroclor 1248                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:09:22 PM |
| Aroclor 1254                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:09:22 PM |
| Aroclor 1260                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:09:22 PM |
| Surr: Decachlorobiphenyl           | 66.8   | 23.9-124 |      | %REC  | 1  | 8/11/2009 2:09:22 PM |
| Surr: Tetrachloro-m-xylene         | 62.0   | 28.1-139 |      | %REC  | 1  | 8/11/2009 2:09:22 PM |
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: NSB         |
| Benzene                            | 1300   | 50       |      | µg/L  | 50 | 8/14/2009 3:48:52 PM |
| Toluene                            | ND     | 5.0      |      | µg/L  | 5  | 8/13/2009 4:16:32 PM |
| Ethylbenzene                       | 120    | 5.0      |      | µg/L  | 5  | 8/13/2009 4:16:32 PM |
| Xylenes, Total                     | 500    | 10       |      | µg/L  | 5  | 8/13/2009 4:16:32 PM |
| Surr: 4-Bromofluorobenzene         | 95.9   | 65.9-130 |      | %REC  | 5  | 8/13/2009 4:16:32 PM |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.**

Date: 17-Aug-09

CLIENT: Cypress Engineering

Client Sample ID: 5-20B

Lab Order: 0908073

Collection Date: 8/4/2009 2:55:00 PM

Project: Transwestern Pipeline Company Thoreau Sta 5

Date Received: 8/6/2009

Lab ID: 0908073-05

Matrix: AQUEOUS

| Analyses                    | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|-----------------------------|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8021B: VOLATILES |        |          |      |       |    | Analyst: NSB         |
| Benzene                     | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 4:19:19 PM |
| Toluene                     | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 4:19:19 PM |
| Ethylbenzene                | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 4:19:19 PM |
| Xylenes, Total              | ND     | 2.0      |      | µg/L  | 1  | 8/14/2009 4:19:19 PM |
| Surr: 4-Bromofluorobenzene  | 95.6   | 65.9-130 |      | %REC  | 1  | 8/14/2009 4:19:19 PM |

Qualifiers: \* Value exceeds Maximum Contaminant Level  
E Estimated value  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.**

Date: 17-Aug-09

|                   |                                             |                          |                     |
|-------------------|---------------------------------------------|--------------------------|---------------------|
| <b>IENT:</b>      | Cypress Engineering                         | <b>Client Sample ID:</b> | 5-18B               |
| <b>Lab Order:</b> | 0908073                                     | <b>Collection Date:</b>  | 8/4/2009 3:50:00 PM |
| <b>Project:</b>   | Transwestern Pipeline Company Thoreau Sta 5 | <b>Date Received:</b>    | 8/6/2009            |
| <b>Lab ID:</b>    | 0908073-06                                  | <b>Matrix:</b>           | AQUEOUS             |

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: NSB         |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 5:48:02 PM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 5:48:02 PM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 5:48:02 PM |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 8/13/2009 5:48:02 PM |
| Surr: 4-Bromofluorobenzene         | 81.6   | 65.9-130 |      | %REC  | 1  | 8/13/2009 5:48:02 PM |

|                    |    |                                                 |     |                                                    |
|--------------------|----|-------------------------------------------------|-----|----------------------------------------------------|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level         | B   | Analyte detected in the associated Method Blank    |
|                    | E  | Estimated value                                 | H   | Holding times for preparation or analysis exceeded |
|                    | J  | Analyte detected below quantitation limits      | MCL | Maximum Contaminant Level                          |
|                    | ND | Not Detected at the Reporting Limit             | RL  | Reporting Limit                                    |
|                    | S  | Spike recovery outside accepted recovery limits |     |                                                    |

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**Hall Environmental Analysis Laboratory, Inc.**

Date: 17-Aug-09

CLIENT: Cypress Engineering

Client Sample ID: 5-17B

Lab Order: 0908073

Collection Date: 8/4/2009 4:45:00 PM

Project: Transwestern Pipeline Company Thoreau Sta 5

Date Received: 8/6/2009

Lab ID: 0908073-07

Matrix: AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8082: PCB'S</b>      |        |          |      |       |    | Analyst: JMP          |
| Aroclor 1016                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:57:21 PM  |
| Aroclor 1221                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:57:21 PM  |
| Aroclor 1232                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:57:21 PM  |
| Aroclor 1242                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:57:21 PM  |
| Aroclor 1248                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:57:21 PM  |
| Aroclor 1254                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:57:21 PM  |
| Aroclor 1260                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 2:57:21 PM  |
| Surr: Decachlorobiphenyl           | 75.2   | 23.9-124 |      | %REC  | 1  | 8/11/2009 2:57:21 PM  |
| Surr: Tetrachloro-m-xylene         | 64.8   | 28.1-139 |      | %REC  | 1  | 8/11/2009 2:57:21 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: NSB          |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 11:53:53 PM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 11:53:53 PM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 8/13/2009 11:53:53 PM |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 8/13/2009 11:53:53 PM |
| Surr: 4-Bromofluorobenzene         | 74.2   | 65.9-130 |      | %REC  | 1  | 8/13/2009 11:53:53 PM |

Qualifiers: \* Value exceeds Maximum Contaminant Level  
E Estimated value  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

Page 7 of 10

# Hall Environmental Analysis Laboratory, Inc.

Date: 17-Aug-09

IENT: Cypress Engineering Client Sample ID: 5-01C  
 Lab Order: 0908073 Collection Date: 8/4/2009 5:35:00 PM  
 Project: Transwestern Pipeline Company Thoreau Sta 5 Date Received: 8/6/2009  
 Lab ID: 0908073-08 Matrix: AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8082: PCB'S</b>      |        |          |      |       |    | Analyst: JMP          |
| Aroclor 1016                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 3:46:50 PM  |
| Aroclor 1221                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 3:46:50 PM  |
| Aroclor 1232                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 3:46:50 PM  |
| Aroclor 1242                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 3:46:50 PM  |
| Aroclor 1248                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 3:46:50 PM  |
| Aroclor 1254                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 3:46:50 PM  |
| Aroclor 1260                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 3:46:50 PM  |
| Surr: Decachlorobiphenyl           | 58.8   | 23.9-124 |      | %REC  | 1  | 8/11/2009 3:46:50 PM  |
| Surr: Tetrachloro-m-xylene         | 54.4   | 28.1-139 |      | %REC  | 1  | 8/11/2009 3:46:50 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: NSB          |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 12:24:18 AM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 12:24:18 AM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 12:24:18 AM |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 8/14/2009 12:24:18 AM |
| Surr: 4-Bromofluorobenzene         | 85.8   | 65.9-130 |      | %REC  | 1  | 8/14/2009 12:24:18 AM |

Qualifiers: \* Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank  
 E Estimated value H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits MCL Maximum Contaminant Level  
 ND Not Detected at the Reporting Limit RL Reporting Limit  
 S Spike recovery outside accepted recovery limits

**Hall Environmental Analysis Laboratory, Inc.**

Date: 17-Aug-09

CLIENT: Cypress Engineering

Client Sample ID: 5-06C

Lab Order: 0908073

Collection Date: 8/4/2009 6:20:00 PM

Project: Transwestern Pipeline Company Thoreau Sta 5

Date Received: 8/6/2009

Lab ID: 0908073-09

Matrix: AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8082: PCB'S</b>      |        |          |      |       |    | Analyst: JMP          |
| Aroclor 1016                       | 1.3    | 1.0      |      | µg/L  | 1  | 8/11/2009 4:36:21 PM  |
| Aroclor 1221                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 4:36:21 PM  |
| Aroclor 1232                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 4:36:21 PM  |
| Aroclor 1242                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 4:36:21 PM  |
| Aroclor 1248                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 4:36:21 PM  |
| Aroclor 1254                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 4:36:21 PM  |
| Aroclor 1260                       | ND     | 1.0      |      | µg/L  | 1  | 8/11/2009 4:36:21 PM  |
| Surr: Decachlorobiphenyl           | 54.4   | 23.9-124 |      | %REC  | 1  | 8/11/2009 4:36:21 PM  |
| Surr: Tetrachloro-m-xylene         | 48.4   | 28.1-139 |      | %REC  | 1  | 8/11/2009 4:36:21 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: NSB          |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 12:54:50 AM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 12:54:50 AM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 12:54:50 AM |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 8/14/2009 12:54:50 AM |
| Surr: 4-Bromofluorobenzene         | 80.5   | 65.9-130 |      | %REC  | 1  | 8/14/2009 12:54:50 AM |

Qualifiers: \* Value exceeds Maximum Contaminant Level  
E Estimated value  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

Page 9 of 10

**Hall Environmental Analysis Laboratory, Inc.**

Date: 17-Aug-09

CLIENT: Cypress Engineering      Client Sample ID: Trip Blank  
Lab Order: 0908073      Collection Date:  
Project: Transwestern Pipeline Company Thoreau Sta 5      Date Received: 8/6/2009  
Lab ID: 0908073-10      Matrix: TRIP BLANK

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: NSB         |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 1:25:24 AM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 1:25:24 AM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 8/14/2009 1:25:24 AM |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 8/14/2009 1:25:24 AM |
| Surr: 4-Bromofluorobenzene         | 82.0   | 65.9-130 |      | %REC  | 1  | 8/14/2009 1:25:24 AM |

Qualifiers: \* Value exceeds Maximum Contaminant Level      B Analyte detected in the associated Method Blank  
E Estimated value      H Holding times for preparation or analysis exceeded  
J Analyte detected below quantitation limits      MCL Maximum Contaminant Level  
ND Not Detected at the Reporting Limit      RL Reporting Limit  
S Spike recovery outside accepted recovery limits

Page 10 of 10

## QA/QC SUMMARY REPORT

Client: Cypress Engineering  
 Project: Transwestern Pipeline Company Thoreau Sta 5

Work Order: 0908073

| Analyte                             | Result | Units | PQL | SPK Va | SPK ref | %Rec             | LowLimit                             | HighLimit | %RPD | RPDLimit | Qual |
|-------------------------------------|--------|-------|-----|--------|---------|------------------|--------------------------------------|-----------|------|----------|------|
| Method: EPA Method 8021B: Volatiles |        |       |     |        |         |                  |                                      |           |      |          |      |
| Sample ID: 0908073-01A MSD          |        | MSD   |     |        |         | Batch ID: R34904 | Analysis Date: 8/14/2009 5:59:42 AM  |           |      |          |      |
| Benzene                             | 18.45  | µg/L  | 1.0 | 20     | 0       | 92.3             | 85.9                                 | 113       | 1.43 | 27       |      |
| Toluene                             | 18.06  | µg/L  | 1.0 | 20     | 0       | 90.3             | 86.4                                 | 113       | 2.89 | 19       |      |
| Ethylbenzene                        | 18.06  | µg/L  | 1.0 | 20     | 0.152   | 89.5             | 83.5                                 | 118       | 2.82 | 10       |      |
| Arenes, Total                       | 53.11  | µg/L  | 2.0 | 60     | 0       | 88.5             | 83.4                                 | 122       | 3.42 | 13       |      |
| Sample ID: 5ML RB                   |        | MBLK  |     |        |         | Batch ID: R34904 | Analysis Date: 8/13/2009 9:08:54 AM  |           |      |          |      |
| Benzene                             | ND     | µg/L  | 1.0 |        |         |                  |                                      |           |      |          |      |
| Toluene                             | ND     | µg/L  | 1.0 |        |         |                  |                                      |           |      |          |      |
| Ethylbenzene                        | ND     | µg/L  | 1.0 |        |         |                  |                                      |           |      |          |      |
| Arenes, Total                       | ND     | µg/L  | 2.0 |        |         |                  |                                      |           |      |          |      |
| Sample ID: 75NG BTEX CCV            |        | MBLK  |     |        |         | Batch ID: R34925 | Analysis Date: 8/14/2009 10:48:16 AM |           |      |          |      |
| Benzene                             | 14.25  | µg/L  | 1.0 |        |         |                  |                                      |           |      |          |      |
| Toluene                             | 14.03  | µg/L  | 1.0 |        |         |                  |                                      |           |      |          |      |
| Ethylbenzene                        | 13.84  | µg/L  | 1.0 |        |         |                  |                                      |           |      |          |      |
| Arenes, Total                       | 41.61  | µg/L  | 2.0 |        |         |                  |                                      |           |      |          |      |
| Sample ID: 5ML RB                   |        | MBLK  |     |        |         | Batch ID: R34925 | Analysis Date: 8/14/2009 9:47:03 AM  |           |      |          |      |
| Benzene                             | ND     | µg/L  | 1.0 |        |         |                  |                                      |           |      |          |      |
| Toluene                             | ND     | µg/L  | 1.0 |        |         |                  |                                      |           |      |          |      |
| Ethylbenzene                        | ND     | µg/L  | 1.0 |        |         |                  |                                      |           |      |          |      |
| Arenes, Total                       | ND     | µg/L  | 2.0 |        |         |                  |                                      |           |      |          |      |
| Sample ID: 100NG BTEX LCS           |        | LCS   |     |        |         | Batch ID: R34904 | Analysis Date: 8/13/2009 9:21:48 PM  |           |      |          |      |
| Benzene                             | 19.09  | µg/L  | 1.0 | 20     | 0       | 95.5             | 85.9                                 | 113       |      |          |      |
| Toluene                             | 19.45  | µg/L  | 1.0 | 20     | 0.136   | 96.6             | 86.4                                 | 113       |      |          |      |
| Ethylbenzene                        | 18.97  | µg/L  | 1.0 | 20     | 0.166   | 94.0             | 83.5                                 | 118       |      |          |      |
| Arenes, Total                       | 55.66  | µg/L  | 2.0 | 60     | 0       | 92.8             | 83.4                                 | 122       |      |          |      |
| Sample ID: 100NG BTEX LCS           |        | LCS   |     |        |         | Batch ID: R34925 | Analysis Date: 8/14/2009 9:24:50 PM  |           |      |          |      |
| Benzene                             | 18.96  | µg/L  | 1.0 | 20     | 0       | 94.8             | 85.9                                 | 113       |      |          |      |
| Toluene                             | 18.98  | µg/L  | 1.0 | 20     | 0       | 94.9             | 86.4                                 | 113       |      |          |      |
| Ethylbenzene                        | 18.73  | µg/L  | 1.0 | 20     | 0.13    | 93.0             | 83.5                                 | 118       |      |          |      |
| Arenes, Total                       | 56.00  | µg/L  | 2.0 | 60     | 0       | 93.3             | 83.4                                 | 122       |      |          |      |
| Sample ID: 0908073-01A MS           |        | MS    |     |        |         | Batch ID: R34904 | Analysis Date: 8/14/2009 5:29:13 AM  |           |      |          |      |
| Benzene                             | 18.72  | µg/L  | 1.0 | 20     | 0       | 93.6             | 85.9                                 | 113       |      |          |      |
| Toluene                             | 17.54  | µg/L  | 1.0 | 20     | 0       | 87.7             | 86.4                                 | 113       |      |          |      |
| Ethylbenzene                        | 17.56  | µg/L  | 1.0 | 20     | 0.152   | 87.0             | 83.5                                 | 118       |      |          |      |
| Arenes, Total                       | 51.32  | µg/L  | 2.0 | 60     | 0       | 85.5             | 83.4                                 | 122       |      |          |      |

## Qualifiers:

E Estimated value  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

## QA/QC SUMMARY REPORT

er Cypress Engineering  
 j Transwestern Pipeline Company Thoreau Sta 5

Work Order: 0908073

| alyte                          | Result | Units | PQL | SPK Va | SPK ref         | %Rec | LowLimit                             | HighLimit | %RPD | RPDLimit | Qual |
|--------------------------------|--------|-------|-----|--------|-----------------|------|--------------------------------------|-----------|------|----------|------|
| Method: EPA Method 8082: PCB's |        |       |     |        |                 |      |                                      |           |      |          |      |
| Sample ID: MB-19813            |        | MBLK  |     |        | Batch ID: 19813 |      | Analysis Date: 8/11/2009 9:11:19 AM  |           |      |          |      |
| clor 1016                      | ND     | µg/L  | 1.0 |        |                 |      |                                      |           |      |          |      |
| clor 1221                      | ND     | µg/L  | 1.0 |        |                 |      |                                      |           |      |          |      |
| clor 1232                      | ND     | µg/L  | 1.0 |        |                 |      |                                      |           |      |          |      |
| clor 1242                      | ND     | µg/L  | 1.0 |        |                 |      |                                      |           |      |          |      |
| clor 1248                      | ND     | µg/L  | 1.0 |        |                 |      |                                      |           |      |          |      |
| clor 1254                      | ND     | µg/L  | 1.0 |        |                 |      |                                      |           |      |          |      |
| clor 1260                      | ND     | µg/L  | 1.0 |        |                 |      |                                      |           |      |          |      |
| Sample ID: LCS-19813           |        | LCS   |     |        | Batch ID: 19813 |      | Analysis Date: 8/11/2009 10:01:10 AM |           |      |          |      |
| clor 1016                      | 3.338  | µg/L  | 1.0 | 5      | 0               | 66.8 | 27.4                                 | 132       |      |          |      |
| clor 1260                      | 3.822  | µg/L  | 1.0 | 5      | 0               | 76.4 | 33.6                                 | 97.7      |      |          |      |
| Sample ID: LCSD-19813          |        | LCSD  |     |        | Batch ID: 19813 |      | Analysis Date: 8/11/2009 10:50:42 AM |           |      |          |      |
| clor 1016                      | 3.966  | µg/L  | 1.0 | 5      | 0               | 79.3 | 27.4                                 | 132       | 17.2 | 45.7     |      |
| clor 1260                      | 4.526  | µg/L  | 1.0 | 5      | 0               | 90.5 | 33.6                                 | 97.7      | 16.9 | 30       |      |

## Qualifiers:

|   |                                            |    |                                                    |
|---|--------------------------------------------|----|----------------------------------------------------|
| E | Estimated value                            | H  | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit                |
| R | RPD outside accepted recovery limits       | S  | Spike recovery outside accepted recovery limits    |

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name **CYP**

Date Received:

**8/6/2009**

Work Order Number **0908073**

Received by: **ARS**

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: **FedEx**

|                                                         |                                                 |                                         |                                         |                                      |
|---------------------------------------------------------|-------------------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>    |                                      |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>    | Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/> |                                      |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |                                         |                                      |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |                                         |                                      |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |                                         |                                      |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |                                         |                                      |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |                                         |                                      |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |                                         |                                      |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |                                         |                                      |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |                                      |
| Water - Preservation labels on bottle and cap match?    | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/> |                                      |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/> |                                      |
| Container/Temp Blank temperature?                       | <b>5.5°</b>                                     | <b>&lt;6° C Acceptable</b>              |                                         |                                      |

Number of preserved bottles checked for pH:

**<2 >12 unless noted below.**

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

# Chain-of-Custody Record

Client: Capless Engineering Services  
 Mailing Address: 2171 HWY 6 NORTH, STE 102  
HOUSTON, TX 77095  
 Phone #: 281 7973421  
 email or Fax#: 281 859 1881  
 QA/QC Package:  
☒ Standard ☐ Level 4 (Full Validation)  
☐ Other \_\_\_\_\_  
☐ EDD (Type) \_\_\_\_\_

Project Name: TRANSWESTERN Pipeline Company  
THORNTON STAS  
 Project #: TWP THORNTON  
 Project Manager: GEORGE ROBINSON  
 Sampler: SANDY SHARP  
 On/Off: Yes ☐ No ☐  
 Sample Temperature: 5/5



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

| Date   | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL NO | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) | 8084 Pesticides/ 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Air Bubbles (Y or N) |
|--------|------|--------|-------------------|----------------------|-------------------|---------|----------------------------|------------------------------|-------------------------------|--------------------|--------------------|-------------------|---------------|----------------------------------------------------------------------------------------|-----------------------------|-------------|-----------------|----------------------|
| 8/4/09 | 1840 | W      | 5-59              | 3/40ml               | HCL               | 1       | X                          |                              |                               |                    |                    |                   |               |                                                                                        |                             |             |                 |                      |
| /      | 1840 | W      | 5-59              | 1/1L                 | Ø                 | 2 1     |                            |                              |                               |                    |                    |                   |               |                                                                                        | X                           |             |                 |                      |
|        | 1910 | W      | 5-60              | 3/40ml               | HCL               | 2 2     | X                          |                              |                               |                    |                    |                   |               |                                                                                        |                             |             |                 |                      |
|        | 1910 | W      | 5-60              | 1/1L                 | Ø                 | 4 2     |                            |                              |                               |                    |                    |                   |               |                                                                                        | X                           |             |                 |                      |
|        | 1700 | W      | 5-10B             | 3/40ml               | HCL               | 3       | X                          |                              |                               |                    |                    |                   |               |                                                                                        |                             |             |                 |                      |
|        | 1200 | W      | 5-61B             | 3/40ml               | HCL               | 4       | X                          |                              |                               |                    |                    |                   |               |                                                                                        |                             |             |                 |                      |
|        | 1455 | W      | 5-20B             | 3/40ml               | HCL               | 5       | X                          |                              |                               |                    |                    |                   |               |                                                                                        |                             |             |                 |                      |
|        | 1550 | W      | 5-18B             | 3/40ml               | HCL               | 6       | X                          |                              |                               |                    |                    |                   |               |                                                                                        |                             |             |                 |                      |
|        | 1645 | W      | 5-17B             | 3/40ml               | HCL               | 7       | X                          |                              |                               |                    |                    |                   |               |                                                                                        |                             |             |                 |                      |
|        | 1645 | W      | 5-17B             | 1/1L                 | Ø                 | 7       |                            |                              |                               |                    |                    |                   |               |                                                                                        | X                           |             |                 |                      |
|        | 1735 | W      | 5-01C             | 3/40ml               | HCL               | 8       | X                          |                              |                               |                    |                    |                   |               |                                                                                        |                             |             |                 |                      |
|        | 1735 | W      | 5-01C             | 1/1L                 | Ø                 | 8       |                            |                              |                               |                    |                    |                   |               |                                                                                        | X                           |             |                 |                      |

Date: 8/5/09 Time: 0700 Relinquished by: [Signature]  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Relinquished by: \_\_\_\_\_

Received by: [Signature] Date: 8/6/09 Time: 9:20  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Remarks: \_\_\_\_\_

Client: CYPRESS ENGINEERING SERVICES  
7121 HWY 6 NORTH, STE 102  
Mailing Address: HOUSTON, TX 77095

☒ Standard      ☐ Rush

Project Name:

Project #:

**Project Manager:**

**Sampler:**

## Onices

## Small Tanks

| Container<br>Type and # | Material | Quantity | Remarks |
|-------------------------|----------|----------|---------|
| 1                       | ...      | ...      | ...     |
| 2                       | ...      | ...      | ...     |
| 3                       | ...      | ...      | ...     |
| 4                       | ...      | ...      | ...     |
| 5                       | ...      | ...      | ...     |
| 6                       | ...      | ...      | ...     |
| 7                       | ...      | ...      | ...     |
| 8                       | ...      | ...      | ...     |
| 9                       | ...      | ...      | ...     |
| 10                      | ...      | ...      | ...     |
| 11                      | ...      | ...      | ...     |
| 12                      | ...      | ...      | ...     |
| 13                      | ...      | ...      | ...     |
| 14                      | ...      | ...      | ...     |
| 15                      | ...      | ...      | ...     |
| 16                      | ...      | ...      | ...     |
| 17                      | ...      | ...      | ...     |
| 18                      | ...      | ...      | ...     |
| 19                      | ...      | ...      | ...     |
| 20                      | ...      | ...      | ...     |
| 21                      | ...      | ...      | ...     |
| 22                      | ...      | ...      | ...     |
| 23                      | ...      | ...      | ...     |
| 24                      | ...      | ...      | ...     |
| 25                      | ...      | ...      | ...     |
| 26                      | ...      | ...      | ...     |
| 27                      | ...      | ...      | ...     |
| 28                      | ...      | ...      | ...     |
| 29                      | ...      | ...      | ...     |
| 30                      | ...      | ...      | ...     |
| 31                      | ...      | ...      | ...     |
| 32                      | ...      | ...      | ...     |
| 33                      | ...      | ...      | ...     |
| 34                      | ...      | ...      | ...     |
| 35                      | ...      | ...      | ...     |
| 36                      | ...      | ...      | ...     |
| 37                      | ...      | ...      | ...     |
| 38                      | ...      | ...      | ...     |
| 39                      | ...      | ...      | ...     |
| 40                      | ...      | ...      | ...     |
| 41                      | ...      | ...      | ...     |
| 42                      | ...      | ...      | ...     |
| 43                      | ...      | ...      | ...     |
| 44                      | ...      | ...      | ...     |
| 45                      | ...      | ...      | ...     |
| 46                      | ...      | ...      | ...     |
| 47                      | ...      | ...      | ...     |
| 48                      | ...      | ...      | ...     |
| 49                      | ...      | ...      | ...     |
| 50                      | ...      | ...      | ...     |
| 51                      | ...      | ...      | ...     |
| 52                      | ...      | ...      | ...     |
| 53                      | ...      | ...      | ...     |
| 54                      | ...      | ...      | ...     |
| 55                      | ...      | ...      | ...     |
| 56                      | ...      | ...      | ...     |
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Preservative  
Type

# HEALING

09/08/82

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## Analysis Request

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**Date:**

Time: 4

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Date      Time