

**GW - 052**

**AGWMR**

**03/14/2013**



ENERGY TRANSFER PARTNERS

***Transwestern Pipeline Company***

March 14, 2013

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

RE: Report of 2012 Groundwater Remediation Activities  
Roswell Station Remediation Site  
Transwestern Pipeline Company, LLC  
Chavez County, New Mexico  
Case # GW-052

Enclosed for your review is the annual Report of 2012 Groundwater Remediation Activities for the Roswell Station remediation site. This report includes the results of groundwater assessment and remediation work completed at the site during 2012.

A copy of this report is also being provided to the New Mexico Environment Department (NMED), Hazardous Waste Bureau, as required by a Stipulated Final Order signed by NMED on March 11, 2013 and issued to Transwestern Pipeline Company, LLC in a transmittal letter dated March 13, 2013.

If you have any questions or comments regarding this report, please contact me at (713) 408-0437 or George Robinson (Cypress Engineering) at (281) 797-3420.

Sincerely,

Stacy Boultinghouse, PG<sub>(TX4889)</sub>  
Environmental Specialist  
Transwestern Pipeline Company, LLC

xc w/attachment:

Bureau Chief, c/o Dave Cobrain  
Thaddeus Kostrubala  
Tim Gum  
Larry Campbell

NMED Hazardous Waste Bureau  
New Mexico State Land Office  
NMOCD Artesia District Office  
Transwestern Pipeline Company (Roswell, NM)

# **Report of 2012 Groundwater Remediation Activities**

**Transwestern Pipeline Company, LLC  
Roswell Station Remediation Site  
6381 North Main Street  
Roswell, Chaves County, New Mexico**

**CASE # GW-052**

**Submitted to:  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505**

**And  
State of New Mexico Environment Department  
Hazardous Waste Bureau  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, New Mexico 87505**

**March 15, 2013**

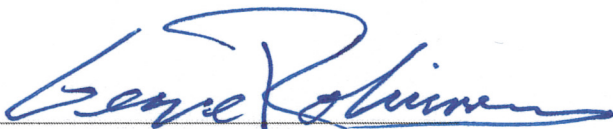
**Prepared For:**

**Transwestern Pipeline Company, LLC  
6381 North Main Street  
Roswell, NM 88201**

**Prepared by:**

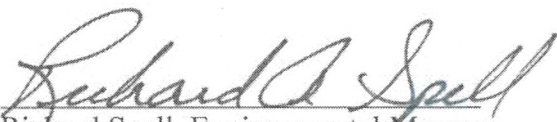
**Cypress Engineering Services, Inc.  
7171 Highway 6 North, Ste. 102  
Houston, Texas 77095**

Signatory Page



George C. Robinson, PE<sub>(New Mexico)</sub>  
Cypress Engineering Services, Inc.

Date: 3-14-2013



Richard Spell, Environmental Manager  
Transwestern Pipeline Company, LLC

Date: 3-14-2013



## **Executive Summary**

This document is the Report for 2012 Groundwater Remediation Activities prepared by Cypress Engineering Services, Inc. (Cypress) for the Transwestern Pipeline Compressor Station No. 9 (also known as the Roswell Compressor Station) property located at 6381 North Main Street in Roswell, New Mexico. For the purposes of this annual groundwater report, the term “Facility” will be used to denote the entire compressor station and Project Area will be used to refer to the northeastern corner of the compressor station (approximately 3.5 acres) and the adjacent northern and eastern lands leased from the State of New Mexico Trust (approximately 30 acres).

The purpose of this report is to provide the annual data associated with the two semi-annual sampling events conducted in 2012. In addition, this report will provide a summary of the groundwater sampling and remediation activities anticipated for 2013.

The primary constituent-of-concern (COC) detected in groundwater within the Project Area is benzene. Additional COCs include 1,1,1-TCA, 1,1-dichloroethane (1,1-DCA) and 1,1-dichloroethene (1,1-DCE). Laboratory results for 2012 groundwater samples indicated only benzene and 1,1-DCE were measured at concentrations above the New Mexico Water Quality Control Commission (NMWQCC) standards. The lateral extent of PSH is defined by the occurrence of PSH at the water table in 14 wells and the absence of PSH in all other wells of the “uppermost aquifer”.

### **Summary of results, findings, or conclusions:**

The groundwater flow direction continues to be consistent with previously reported assessments of flow direction. Groundwater under the northern portion of the Project Area flows toward the North, while groundwater beneath the central and southern portion of the Project Area flows toward the South-Southeast. The water table elevation continues to decline. Water table elevation has declined 3 to 4 feet from 2004 to present.

The lateral extent of PSH continues to decrease as it has since 2005. The lateral extent of dissolved-phase benzene in groundwater follows the same trend. In the northern portion of the Project Area, the lateral extent of dissolved-phase chlorinated COCs in groundwater also appears to be decreasing, although the absence of adequate delineation in this area will need to be addressed in 2013. It appears that the groundwater recovery and the Soil Vapor Extraction process has resulted in a decrease in contaminant mass and accelerated natural attenuation.

## TABLE OF CONTENTS

| Section                                                                                      | Page |
|----------------------------------------------------------------------------------------------|------|
| 1. Introduction.....                                                                         | 1    |
| 1.1 Background.....                                                                          | 1    |
| 2. Scope of Groundwater Monitoring Activities.....                                           | 1    |
| 2.1 Semiannual Groundwater Sampling Events.....                                              | 1    |
| 3. Regulatory Criteria.....                                                                  | 2    |
| 4. Monitoring Results/Conclusions from Groundwater Sampling Events.....                      | 2    |
| 4.1 Occurrence and Direction of Groundwater Flow .....                                       | 2    |
| 4.2 Lateral Extent of Phase Separated Hydrocarbon.....                                       | 3    |
| 5. Chemical Analytical Data Results: Condition of Affected Groundwater.....                  | 3    |
| 6. Remediation System Monitoring .....                                                       | 4    |
| 6.1 Remediation Activities Completed through December 2012.....                              | 4    |
| 7. Summary .....                                                                             | 5    |
| 7.1 Proposed Modifications.....                                                              | 6    |
| 7.1.1 Anticipated Changes to the Groundwater Monitoring and Remediation Well<br>Network..... | 6    |
| 7.1.2 Modifications to the Routine Groundwater Sampling Plan.....                            | 6    |
| 7.1.3 Modifications to the Remediation System.....                                           | 6    |
| 7.2 Reporting .....                                                                          | 6    |
| 7.3 Progress Toward Project Completion.....                                                  | 6    |

## **LIST OF FIGURES**

### **Figure**

- 1** Monitor Well Locations
- 2** Groundwater Surface Elevations in the Uppermost Aquifer – Oct. 15, 2012
- 3** Distribution of PSH on Groundwater in the Uppermost Aquifer – April 17, 2012
- 4** Distribution of PSH on Groundwater in the Uppermost Aquifer – Oct. 15, 2012
- 5** Distribution of PSH on Groundwater in the Perched Zone – April 17, 2012
- 6** Distribution of PSH on Groundwater in the Perched Zone – Oct. 15, 2012
- 7** Distribution of Dissolved Benzene in the Uppermost Aquifer – April 18, 2012
- 8** Distribution of Dissolved Benzene in the Uppermost Aquifer – Oct. 19, 2012
- 9** Distribution of Dissolved BTEX in the Uppermost Aquifer – April 18, 2012
- 10** Distribution of Dissolved BTEX in the Uppermost Aquifer – Oct. 19, 2012
- 11** Distribution of Dissolved 1,1-DCE in the Uppermost Aquifer – April 18, 2012
- 12** Distribution of Dissolved 1,1-DCE in the Uppermost Aquifer – Oct. 19, 2012
- 13** Remediation System Layout
- 14** Water and Vapor Treatment Equipment, Controls, and Process Details
- 15** Distribution of VOCs Measured in Soil Vapor Samples from MPE Wells – Oct. 21, 2012
- 16** Distribution of VOCs Measured in Soil Vapor Samples from SVE Wells – Oct. 21, 2012

## **LIST OF TABLES**

### **Table**

- 1** Summary of Groundwater Surface Elevations
- 2** Summary of Groundwater Surface Elevations (MPE/SVE)
- 2b** Summary for Product Removal Efforts
- 3** Summary of Field Measured Parameters
- 4** Summary of Groundwater Analyses – Organics
- 5** Summary of Groundwater Analyses – Inorganics
- 6** Summary of Completion Details for Soil Borings Completed as Wells
- 7** Monitor Well Sampling Locations, Frequency, and Sample Analysis Plan
- 8** Summary of Vapor Sample Analyses for the SVE System
- 8b** SVE System Potential Emissions Estimate for Total Non-Methane Hydrocarbons
- 9** Summary of Vapor Sample Analyses for Individual SVE Wells
- 10** Summary of Water Treatment System Analyses
- 11** Summary of Water Recovery and Water Irrigation Rates

## **LIST OF APPENDICES**

### **Appendix**

- A.** Hydrographs for Selected Monitoring Wells with No Accumulated PSH
- B.** Hydrographs for Wells with Accumulated PSH
- C.** Concentration History Plots for Selected Monitor Wells
- D.** Laboratory Reports
  - 1. Soil Vapor Samples
  - 2. Irrigation Water Samples
  - 3. PSH Samples
  - 4. Groundwater Samples

## **1. Introduction**

This document is the *Report for 2012 Groundwater Remediation Activities* for the Transwestern Pipeline Compressor Station No. 9 (also known as the Roswell Compressor Station) property located at 6381 North Main Street in Roswell, New Mexico. For the purposes of this annual groundwater report, the term “Facility” will be used to denote the entire compressor station and Project Area will be used to refer to the northeastern corner of the compressor station (approximately 3.5 acres) and the adjacent northern and eastern lands leased from the State of New Mexico Trust (approximately 30 acres).

The last report of groundwater remediation activities covered activities completed through December 2011. This report presents a summary of groundwater monitoring and remediation activities completed during calendar year 2012.

### **1.1 Background**

The facility is an active natural gas compression station located approximately 8 miles north of the city center of Roswell, New Mexico on the east side of U.S. Highway 285. The facility occupies approximately 77 acres in Section 21 and 28 (T9S, R24E), Chaves County. The facility is owned by Transwestern Pipeline Company, LLC (Transwestern). The remainder of Sections 21 and 28 are owned by the New Mexico State Land Trust. Transwestern leases approximately 30 acres to the north and east of the facility for remediation and monitoring purposes.

The facility has been operating since the 1960s and operations include natural gas compression, natural gas transmission pipeline maintenance and offices for support personnel. The facility is currently active. Until approximately 1986, certain transmission pipeline maintenance waste and other wastes were discharged into earthen surface impoundments, referred to as the pits, located in the northeast corner of the facility.

Reportedly, wastes discharged into the pits contained petroleum hydrocarbons, volatile and semi-volatile organic compounds, and metals. Investigations starting in the early 1990s identified the presence of those constituents in the soil and groundwater beneath the pits. Subsequent corrective actions conducted at the Facility, within the Project Area, include removal of waste from the surface impoundments and backfilling with clean soil (conducted in 2001); installation of groundwater monitoring wells (from 1992 to 2003); and installation and continued operation of a soil and groundwater remediation system (installed between 2002 and 2003). Soil vapor and groundwater sampling and analysis have been conducted to delineate groundwater contamination and assess the recovery system performance. Since 2004, these activities have been documented in reports submitted to the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division (NMOCD).

## **2. Scope of Groundwater Monitoring Activities**

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

Two semi-annual groundwater sampling events were completed during the reporting period. These events were completed in April 2012 and October 2012. Prior to sampling, the depth to water, and the depth to phase separated hydrocarbon (PSH) where present, was determined for

each monitor well and recovery well. The measured depths and the corresponding water table elevation for each monitor well and recovery well is presented in Tables 1 and 2.

In the course of each sample event, groundwater samples were collected from selected monitor wells at the site in accordance with the site *Sampling and Analysis Plan* (SAP). Generally, as a matter of standard operating procedure, samples are not collected from monitor wells with accumulated PSH in the well casing. However, in the course of the October 2012 sampling event, groundwater samples were collected from three wells that had measured accumulations of PSH; wells MW-12, MPE-16 and MPE-24. These samples were collected in an effort to evaluate the partitioning of BTEX compounds (more specifically, benzene) between remaining PSH and groundwater. PSH was removed from the wells to the extent practical prior to collecting the groundwater samples. Samples from three wells located at the north end of the site were submitted for analysis for volatile organic compounds (VOCs) by EPA Method 8260B. In addition, samples of PSH removed from wells MW-12, MPE-16 and MPE-24 were analyzed for specific gravity and kinematic viscosity; and the sample from well MPE-24 was also analyzed for chemical composition (PIONA analysis; Paraffins, Isoparaffins, Olefins, Naphthenes, and Aromatics). As per the site SAP, the remaining groundwater samples were delivered to a laboratory for analysis for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method 8021B.

A copy of the laboratory reports for the two semiannual groundwater sampling events are included in Appendix D.

### **3. Regulatory Criteria**

The Project Area is subject to applicable cleanup standards as specified by the New Mexico Water Quality Control Commission (NMWQCC) standards. The appropriate cleanup levels for the site are presented on Tables associated with this report.

## **4. Monitoring Results/Conclusions from Groundwater Sampling Events**

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

A water table elevation map based on measurements obtained in October 2012 is included as Figure 2. The information presented in Figure 2 appears to define a complex groundwater system with some areas of low flow and other areas of preferential flow. Furthermore, there is an apparent divide in the groundwater flow direction beneath the site. At the northern end of the affected area, groundwater flow is toward the north; while in the central and southern portions of the site, groundwater flow is toward the south-southeast. The apparent direction of groundwater flow is consistent with water table elevation maps previously developed for this site and is also consistent with the distribution of contaminants in the uppermost aquifer. The measured depths and the corresponding water table elevation for each monitor well and recovery well is presented in Tables 1 and 2. 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 3. Hydrographs for selected monitoring wells with no accumulated PSH are included in Appendix A. The hydrographs show a history of water table elevation change since depth to water measurements were first recorded at the site in 1996. There is a sharp decline in the water table elevation following startup of the groundwater recovery and treatment system in

April 2004. The hydrographs indicate about a three to four foot decline in the water table during the 8 ½ year period between April 2004 and December 2012. A continued decline in groundwater elevations is anticipated and is beneficial to the remediation effort, as the decline allows additional vapor extraction to occur in soils formerly underneath the water table.

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

Within the “uppermost aquifer”, the lateral extent of PSH is currently defined by the occurrence of PSH at the water table in 14 wells and the absence of PSH in the remaining wells. The thickness of accumulated PSH in monitor wells and multi-phase extraction (MPE) wells is presented in Tables 1 and 2. The estimated area with PSH present at the water table is approximately 1.5 acres and is shown in Figures 3 and 4, for the April and October 2012 events, respectively. Also indicated in Figures 3 and 4 is the estimated maximum extent of PSH measured at the site in March 2005 (approximately 2.7 acres).

In March 2005, accumulated PSH was measured in 23 wells within the “uppermost aquifer”; in October 2012, this number had been reduced to 14 wells. The current lateral extent of PSH covers an area about 55% the size of the estimated maximum extent indicating that the remediation system is effectively reducing the size of the impacted area. In most wells where accumulated PSH has persisted, the measured thickness of PSH has decreased significantly since active remediation efforts began. This can be seen graphically in the hydrographs presented in Appendix B.

It was suspected that the continued presence of PSH in some MPE wells was more likely associated with the preferential accumulation of PSH in low pressure areas, such as soil vapor extraction wells, and was not likely indicative of PSH present at the water table outside of the immediate vicinity of the well screen. In light of this, a program was initiated in June 2010 to evaluate the re-accumulation rate of PSH in wells. In June 2010, accumulated PSH was removed from eleven wells containing PSH using a bailer. The re-accumulation of PSH was measured in the course of subsequent groundwater sampling events. A summary of the data obtained during this evaluation is provided in Table 2b. Results indicate that the accumulation of PSH was reduced in five of the eleven wells; two of the wells had no measurable re-accumulation of PSH after nearly two years.

A shallow perched zone was identified during the initial site investigation activities. The perched zone is limited in lateral extent and occurs at a depth of about 30-35 feet, which is about 30 feet above the depth of the “uppermost aquifer”. There are 9 SVE wells completed within the perched zone. In October 2012, depth to water measurements indicated that five of the nine shallow SVE wells were dry; the remaining shallow SVE wells contained less than five feet of water column. In addition, one of the shallow SVE wells contained a measurable accumulation of PSH. The estimated lateral extent of PSH in the shallow perched zone is indicated in Figures 5 and 6.

### **5. Chemical Analytical Data Results: Condition of Affected Groundwater**

Constituents of concern initially detected within the Project Area included benzene, 111-trichloroethane, 11-dichloroethane, and 11-dichloroethene (11-DCE). In October 2012, laboratory results for groundwater samples indicated that only benzene and 11-DCE were measured at concentrations above NMWQCC standards (excluding results for samples collected at wells with accumulated PSH). Benzene remains the primary constituent of concern within the

Project Area. An updated summary of laboratory results for organic compounds (BTEX and other VOCs) is presented in Table 4. Analyses for inorganic constituents were discontinued in 2003, however, for reference, a summary of laboratory results for inorganic constituents measured during prior sampling events is presented in Table 5.

Site diagrams indicating the distribution of benzene in groundwater are included as Figures 7 and 8. The present lateral extent of dissolved phase benzene (approximately 2.6 acres) is contained within an area just slightly greater than the lateral extent of PSH. The maximum historic extent of benzene in groundwater is also indicated in Figures 7 and 8 (approximately 5.6 acres). The current lateral extent of benzene covers an area about 46% the size of the estimated maximum extent, further indicating that the remediation system is effectively reducing the size of the impacted area. Similar site diagrams indicating the distribution of Total BTEX in groundwater are included as Figures 9 and 10. The estimated reduction in lateral extent of Total BTEX in groundwater is similar to that for benzene.

Site diagrams indicating the distribution of 11-DCE in groundwater are included as Figures 11 and 12. The small plume of dissolved-phase 11-DCE (approximately 0.4 acres) does not appear to be closely associated with the presence of accumulated PSH.

Startup of the MPE system appears to have accelerated natural attenuation processes and has resulted in a decrease in contaminant concentrations at most sampling locations. It is anticipated that contaminant concentrations in groundwater will continue to decline with continued operation of the MPE system.

## **6. Remediation System Monitoring**

### **6.1 Remediation Activities Completed through December 2012**

The following remediation activities were completed during the reporting period:

- 1) Two routine semiannual groundwater sampling events were completed.
- 2) The SVE system operated continuously from April 20, 2012 through December 31, 2012 except for temporary shut-downs for maintenance.
- 3) Soil vapor samples were collected from each of the five remediation system circuits and from the inlet to each thermal oxidizer on July 3, 2012, October 5, 2012, and October 22, 2012; samples were delivered to a laboratory for analysis for total petroleum hydrocarbons (TPH) by method 8015mod (GRO). The concentrations of TPH found in each circuit correspond well with the distribution of PSH measured in wells. The results from laboratory analyses are presented in Table 8 and Table 8b. As indicated in Table 8b, the SVE system is recovering total non-methane hydrocarbons at a rate of 20,850 pounds per year (or about 3,300 gallons equivalent per year). Note that this recovery rate is an average recovery rate while the SVE system is operating and does not take into account SVE system downtime. An estimate of actual SVE system recovery for 2012 is presented in Item #7 below. A copy of the laboratory reports is included in Appendix D.
- 4) Soil vapor samples were collected from each of the MPE and SVE wells on October 21, 2012 and delivered to a laboratory for analysis for TPH by method 8015mod (GRO). The results from laboratory analyses are presented in Table 9 and in Figures 15 and 16. The area defined by elevated concentrations of TPH in soil vapor corresponds well with the



area defined by PSH measured in wells. A copy of the laboratory report is included in Appendix D.

- 5) The groundwater recovery, treatment, and irrigation system operated from mid-April through November 2012. A summary of measured water recovery and irrigation rates is provided in Table 11. The volume of water recovered, treated, and discharged through the MPE system was 150,240 gallons in 2012. In addition, approximately 956 gallons of PSH accumulated in the MPE system surge tank during 2012. None of the accumulated PSH was removed from the surge tank during 2012.
- 6) Eight water treatment and irrigation system sampling events were completed during the period that the groundwater recovery and irrigation system was in operation. Laboratory results are presented in Table 10. Copies of the laboratory reports are included in Appendix D.
- 7) As previously noted, during 2012, the SVE system was recovering total non-methane hydrocarbons at an average rate of about 20,850 pounds per year (or about 3,300 gallons equivalent per year) while operating. The SVE system operated for 5600 hours during 2012 (average operating time recorded for the two SVE blower units). This is a 64% runtime for the SVE system. The total estimated mass of hydrocarbon removed by the SVE system during 2012, based on the actual runtime and the average removal rate, was 13,344 pounds (or about 2,112 gallons equivalent). The MPE recovery system removed 6,060 pounds of hydrocarbon (956 gallons of PSH). The total estimated mass of hydrocarbon removed during 2012 by both the SVE and MPE recovery systems combined is 19,404 pounds (or about 3,068 gallons equivalent).

## 7. Summary

The groundwater flow system in the uppermost aquifer is complex with some areas of low flow and other areas of preferential flow. In addition, there is an apparent divide in the groundwater flow direction beneath the site. At the northern end of the affected area, groundwater flow is toward the north; while in the central and southern portions of the site, groundwater flow is toward the south-southeast. The apparent direction of groundwater flow is consistent with water table elevation maps previously developed for this site and is also consistent with the distribution of contaminants in the uppermost aquifer. Hydrographs indicate an approximate three to four foot decline in the water table between April 2004 and December 2012.

Within the uppermost aquifer, the lateral extent of PSH is currently defined by the occurrence of PSH at the water table in 14 wells and the absence of PSH in the remaining wells. This current lateral extent of PSH covers an area about 55% the size of the estimated maximum historical extent.

In October 2012, laboratory results for groundwater samples indicated that only benzene and 1,1-DCE were measured at concentrations above NMWQCC standards. The current lateral extent of benzene covers an area about 46% the size of the estimated maximum extent indicating that the remediation system is effectively reducing the size of the affected area. The detection of dissolved-phase 1,1-DCE in MW-26 does not appear to be associated with the presence of accumulated PSH. Although concentrations of this constituent remain relatively low,

Transwestern intends to install additional well(s) to the north of MW-26 in order to have well(s) that are below the NMWQCC standards downgradient of this location.

## **7.1 Proposed Modifications**

### **7.1.1 *Anticipated Changes to the Groundwater Monitoring and Remediation Well Network***

An evaluation of contaminant plume stability was completed in 2012 utilizing the Ricker Plume Stability Analysis method. Findings from this evaluation provided an overall understanding of the stability of the constituent plumes in terms of their area, average concentration, mass indicator, and center of mass. Results indicated that the constituent plumes are stable and/or decreasing.

Upon review of the plume stability evaluation it was noted that the existing monitoring well network will require expansion north (downgradient) of monitoring well MW-26. This will be accomplished with the addition of one or more monitoring wells downgradient of well MW-26. A separate *Amended Investigative Work Plan and Groundwater Monitoring Plan* has been prepared for this activity and will be submitted to NMOCD for review and approval.

The plume stability evaluation also identified several groundwater monitoring and remediation wells that are no longer necessary for continued monitoring and/or remediation activities at the site. Generally, this includes monitoring wells that have been documented to be “clean” for a number of previous sampling events and remediation wells that are outside the affected area. A proposal to plug and abandon wells no longer needed is included in the aforementioned *Amended Investigative Work Plan and Groundwater Monitoring Plan*.

### **7.1.2 *Modifications to the Routine Groundwater Sampling Plan***

Sampling locations and frequency as outlined in the project SAP will continue on a semi-annual basis. A summary of the SAP is presented in Table 7.

### **7.1.3 *Modifications to the Remediation System***

Although the system continues to be effective, additional measures may be necessary to address PSH that is continuing to add contaminant mass to the groundwater plume. Proposed modifications will be presented in a separate *Amended Remediation Work Plan* which will be submitted to NMOCD for review and approval.

## **7.2 Reporting**

Annual reporting of remediation activities will continue with the next scheduled report submitted to the NMOCD by March 15, 2014.

## **7.3 Progress Toward Project Completion**

The Phase I and Phase II components of the remediation system have been installed and are in operation as described in the *Conceptual Remedial Design and Discharge Plan Modification* document dated September 10, 2002. The SVE component of the system has been in operation since March 2003 and the groundwater recovery system has been in operation since April 2004.

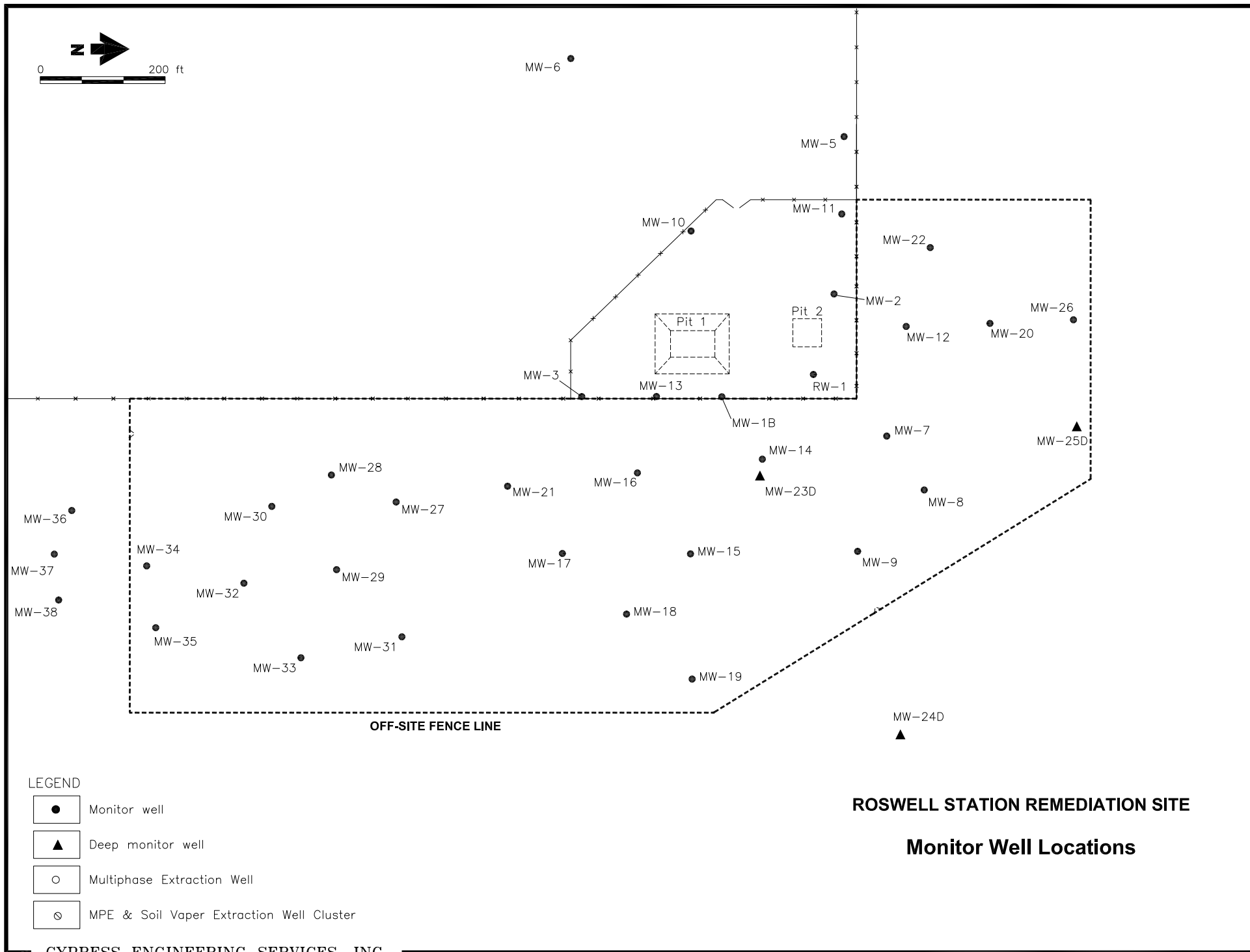
In 2012, the MPE system recovered 13,344 pounds of hydrocarbon by the SVE portion of the system and 6,060 pounds of hydrocarbon by the groundwater recovery system, for a total of

19,404 pounds (or about 3,068 gallons equivalent). Over the life of the system, the areal extent of PSH has decreased to about 55% of the initial extent, while the aerial extent of benzene has decreased to about 46% of the initial extent.

Constituents of concern initially detected within the Project Area included benzene, 111-trichloroethane, 11-dichloroethane, and 11-dichloroethene (11-DCE). In October 2012, laboratory results for groundwater samples indicated that only benzene and 11-DCE were measured at concentrations above NMWQCC standards (excluding results for samples collected at wells with accumulated PSH). Benzene remains the primary constituent of concern within the Project Area.

Based upon these results, operation of the MPE system has been effective in reducing the volume and extent of the PSH at the site and reducing the extent of dissolved COCs in groundwater. In addition to physical recovery of contaminant mass, the remedial system appears to have accelerated natural attenuation processes and has resulted in an additional decrease in contaminant concentrations at many sampling locations. An evaluation of contaminant plume stability indicates that the contaminant plumes are stable and/or decreasing in area, concentration, and mass. The remediation system is anticipated to be optimized such that remediation efforts continue to remain effective and move the project toward closure.

# FIGURES



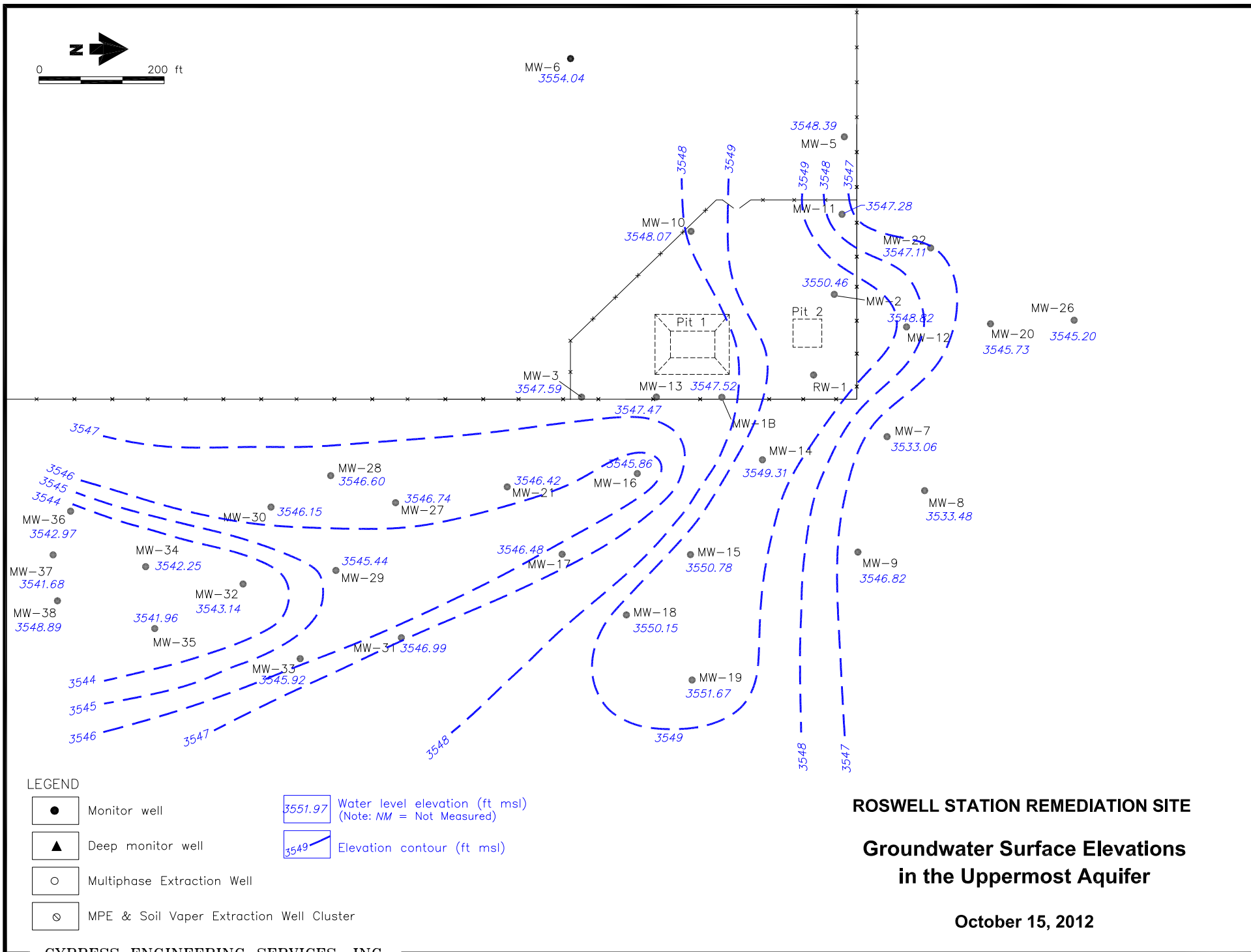


Figure 2







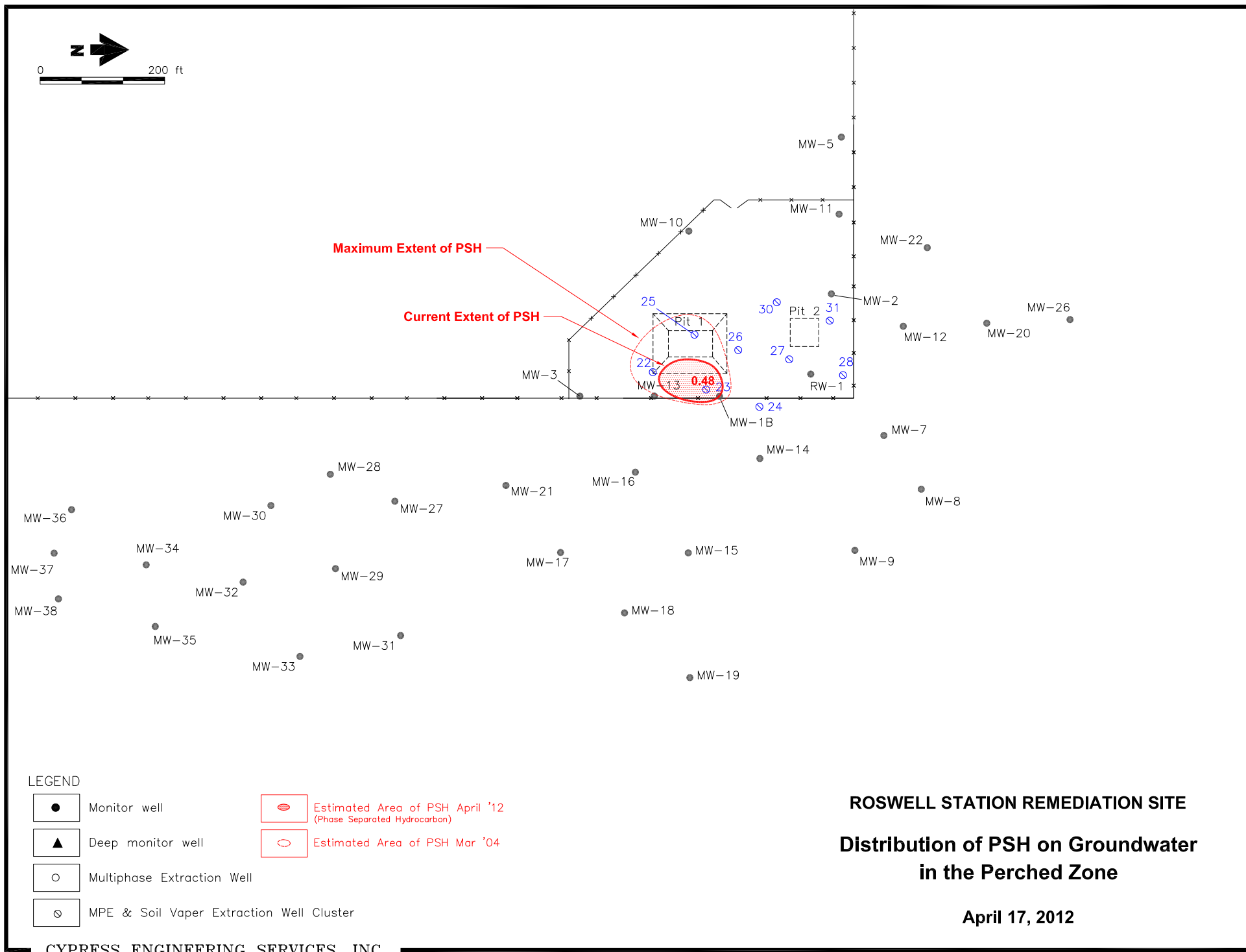


Figure 5

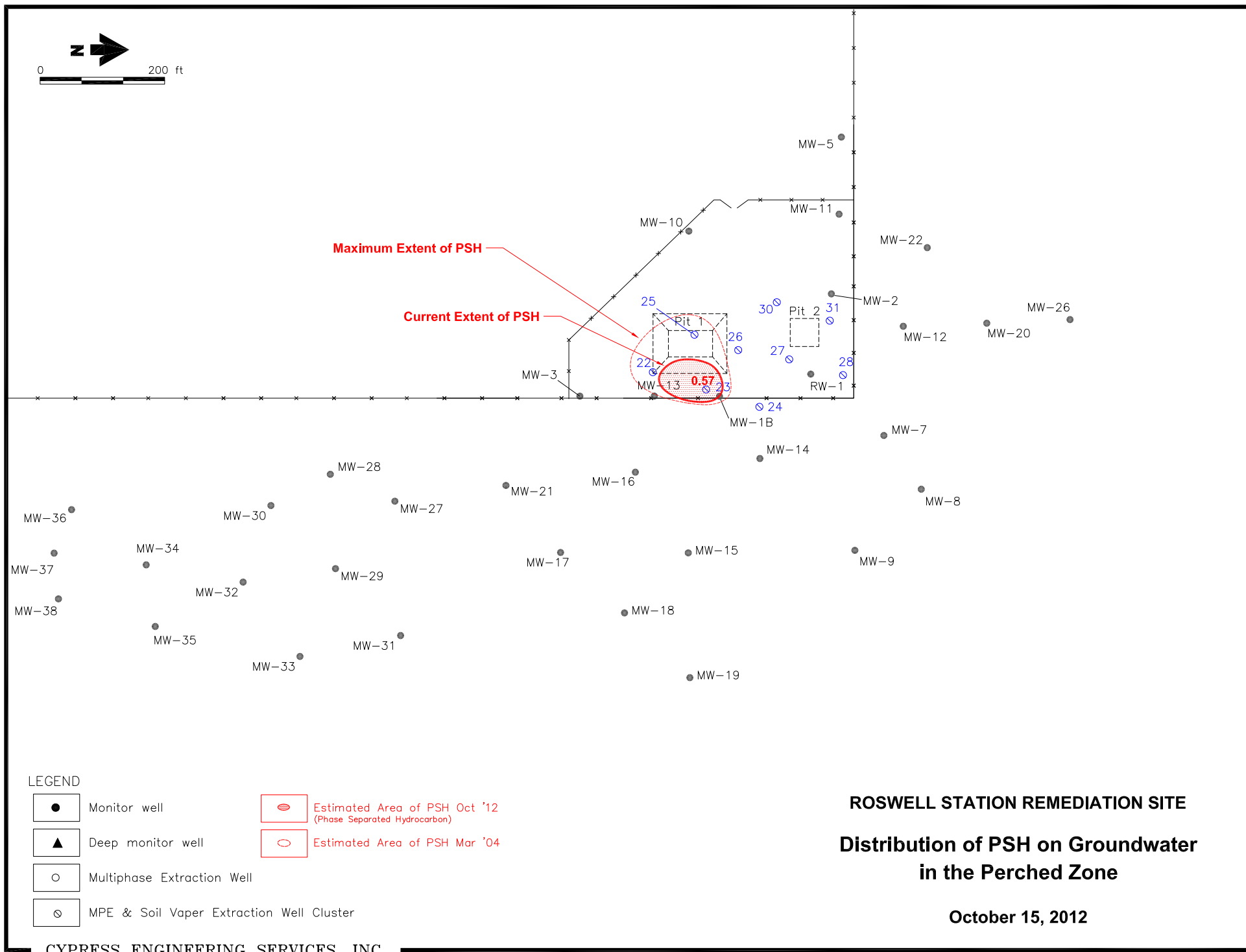


Figure 6



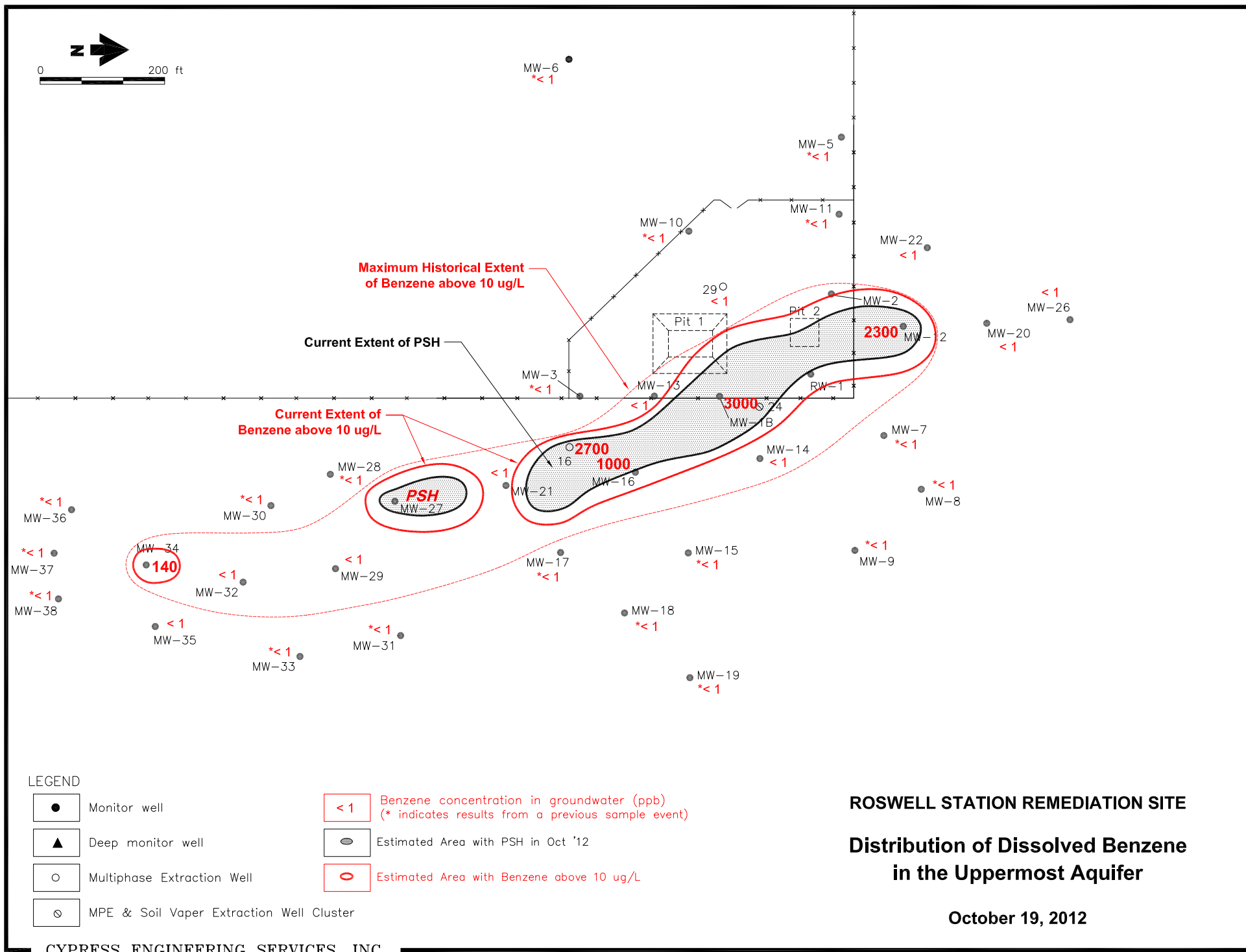


Figure 8

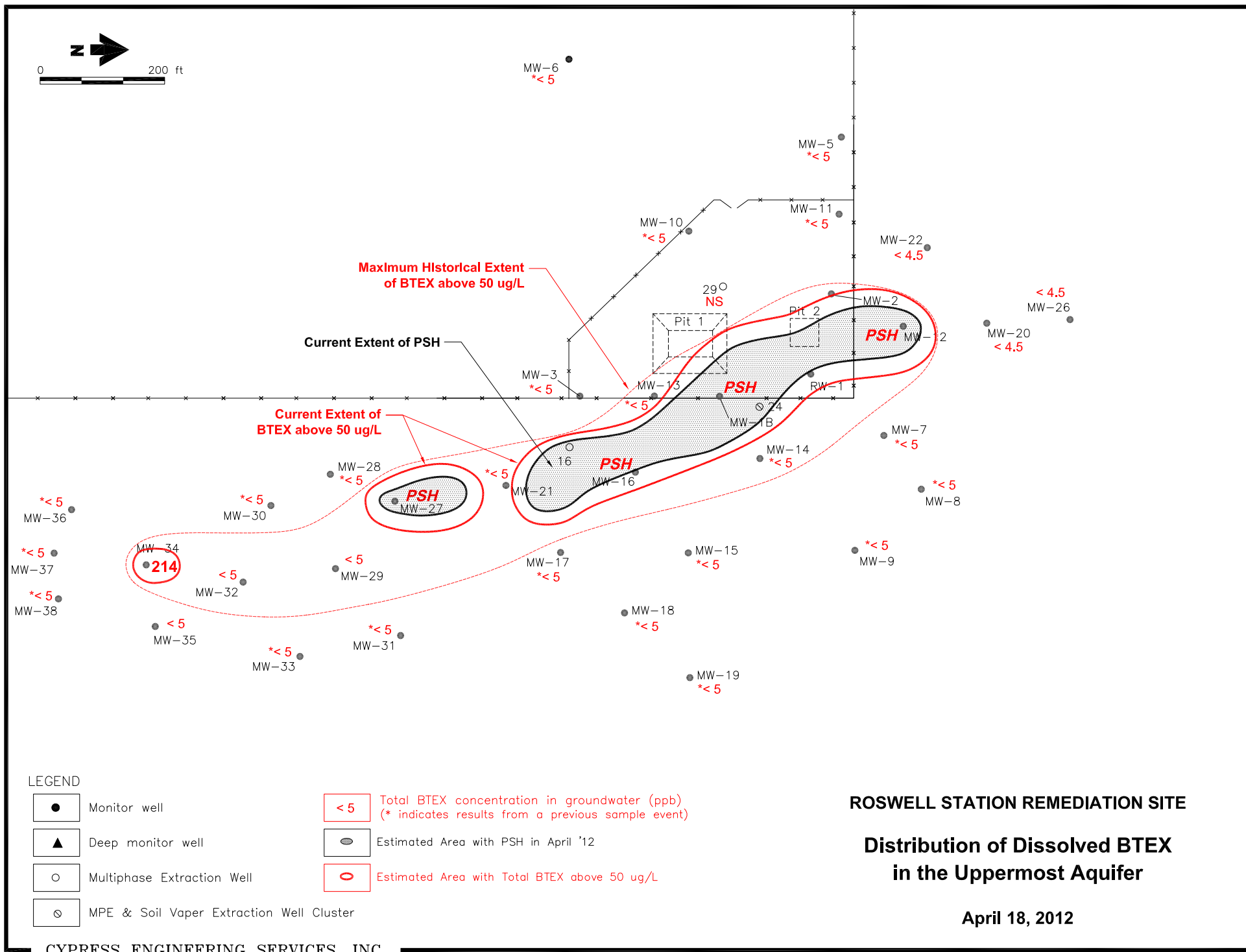
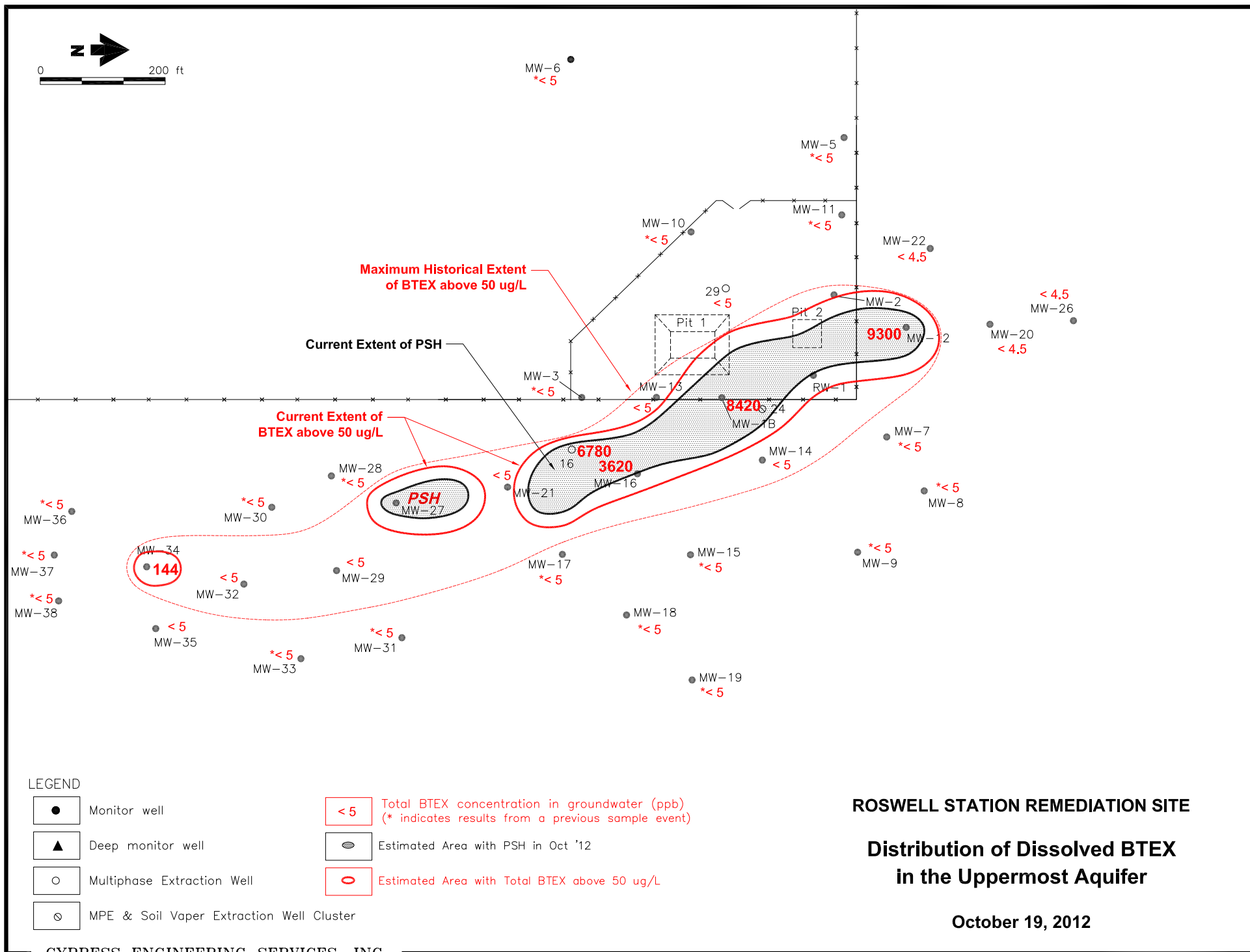
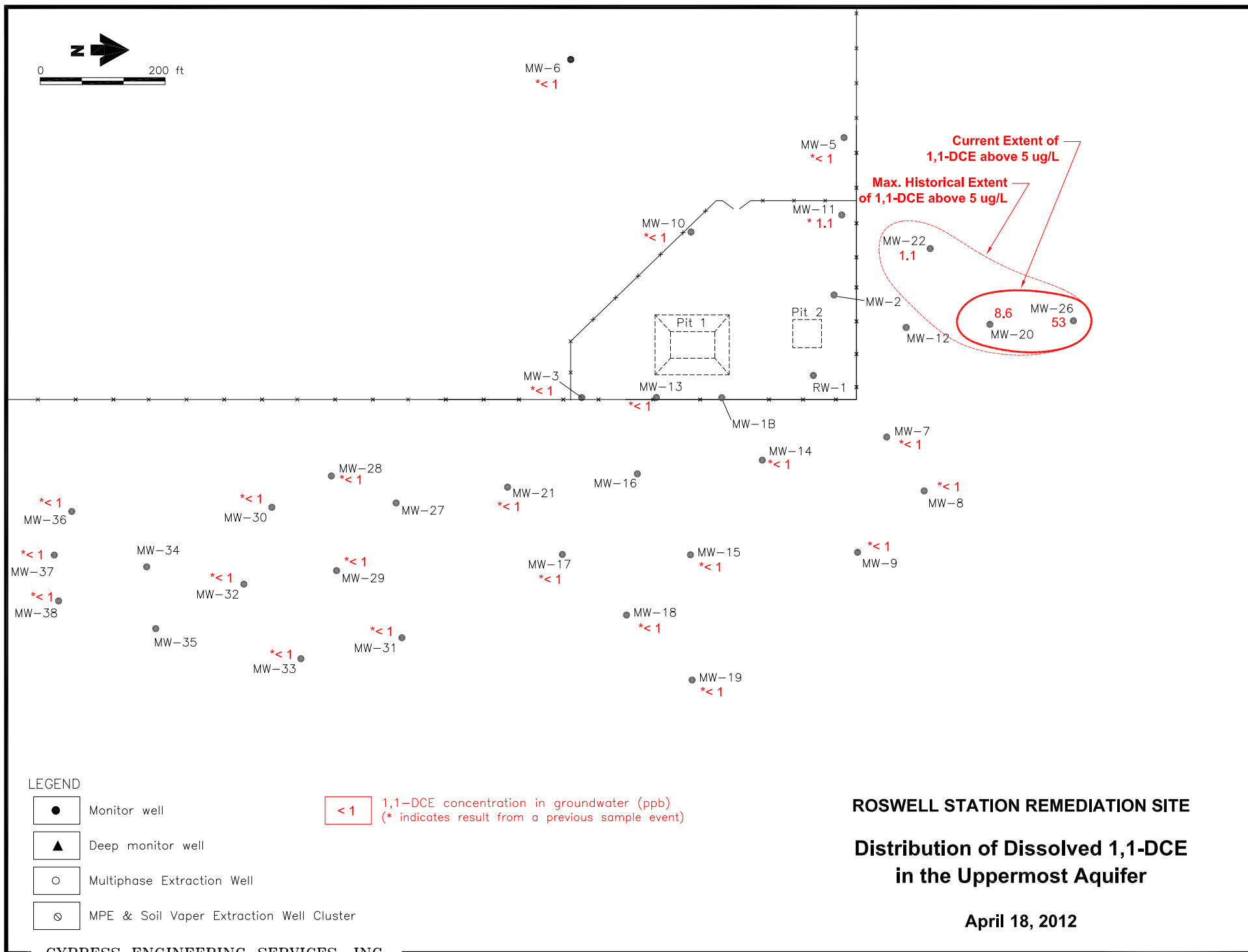


Figure 9





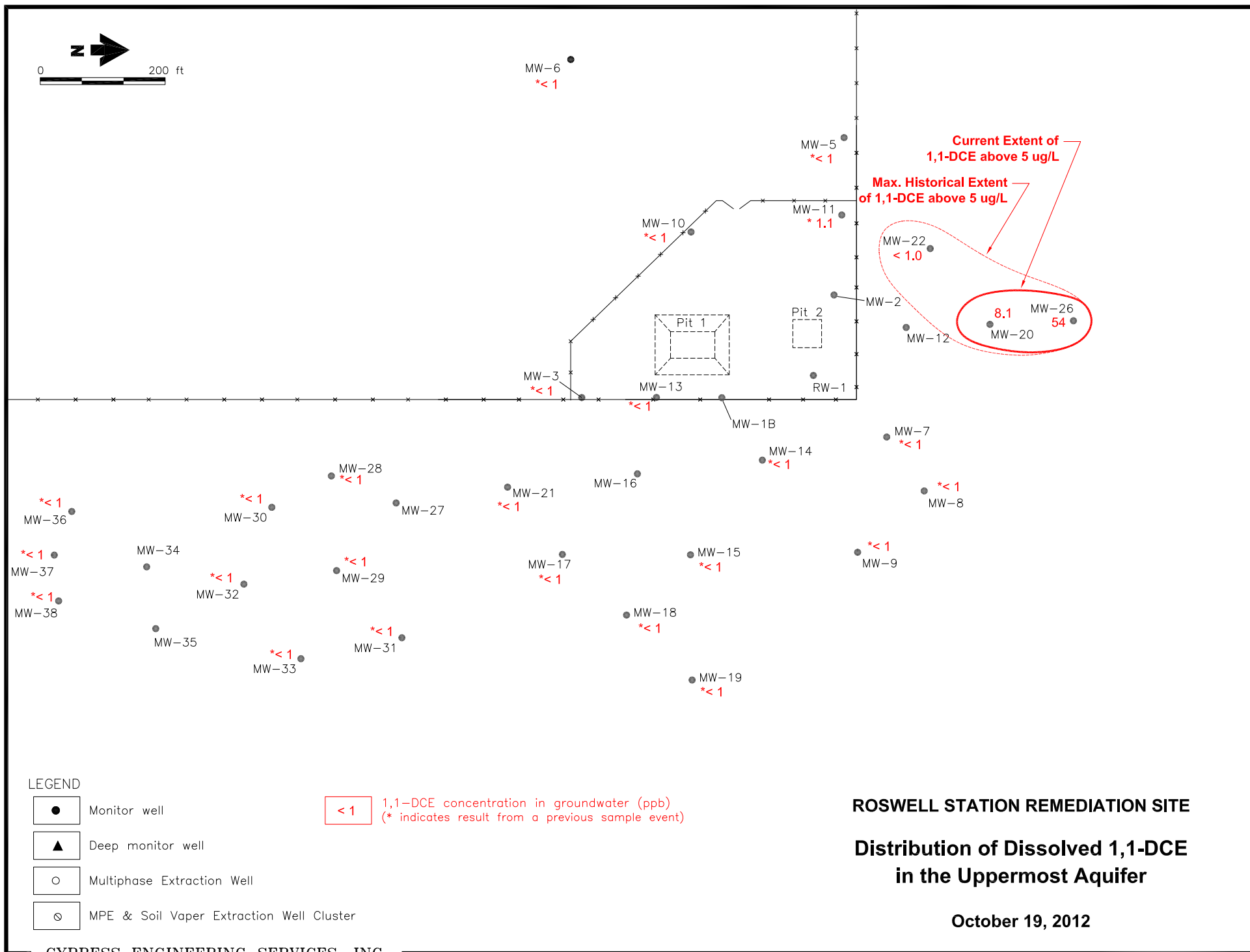
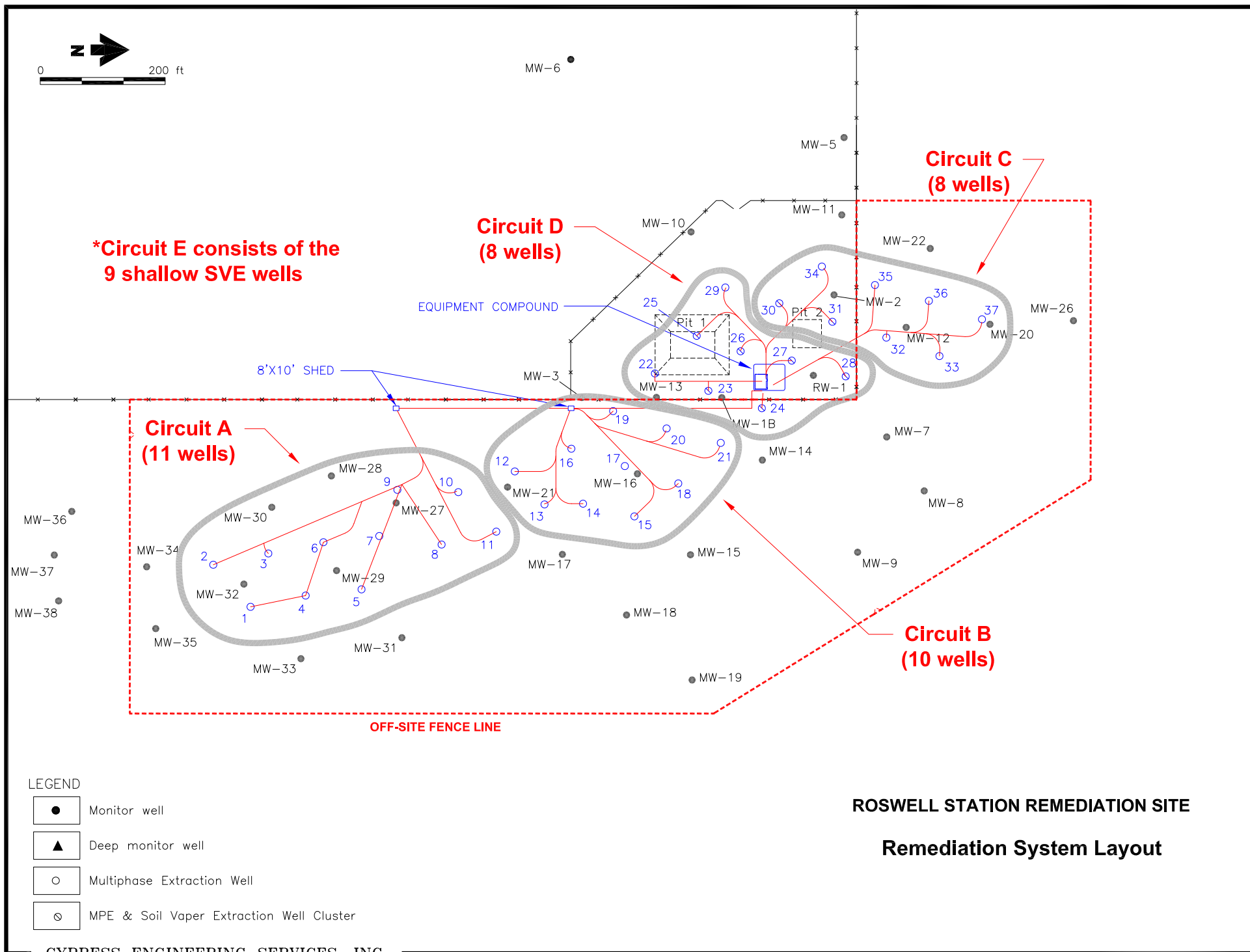


Figure 12



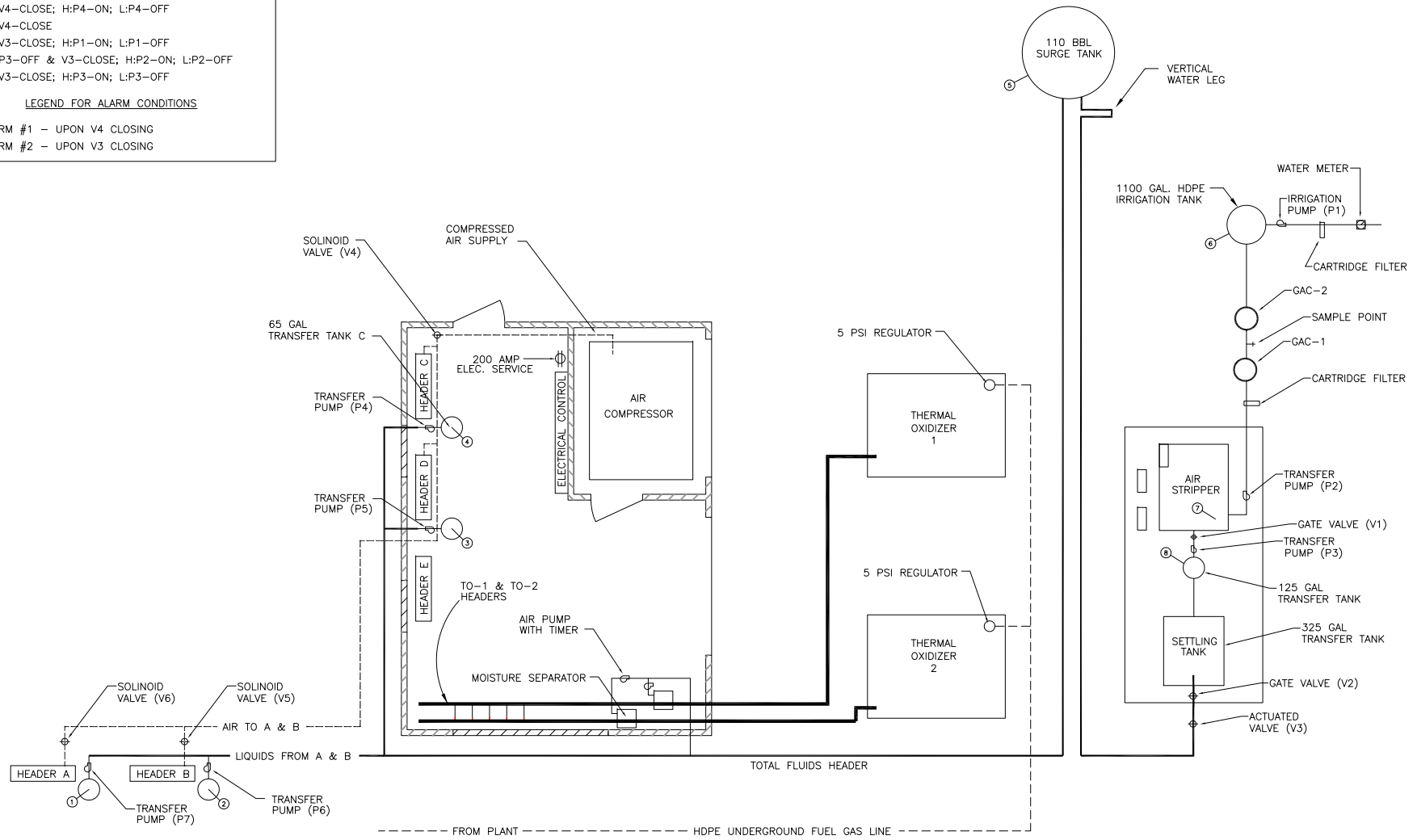


# LEGEND FOR CONTROLS

- ① HH:V6-CLOSE; H:P7-ON; L:P7-OFF
- ② HH:V5-CLOSE; H:P6-ON; L:P6-OFF
- ③ HH:V4-CLOSE; H:P5-ON; L:P5-OFF
- ④ HH:V4-CLOSE; H:P4-ON; L:P4-OFF
- ⑤ HH:V4-CLOSE
- ⑥ HH:V3-CLOSE; H:P1-ON; L:P1-OFF
- ⑦ HH:P3-OFF & V3-CLOSE; H:P2-ON; L:P2-OFF
- ⑧ HH:V3-CLOSE; H:P3-ON; L:P3-OFF

# LEGEND FOR ALARM CONDITIONS

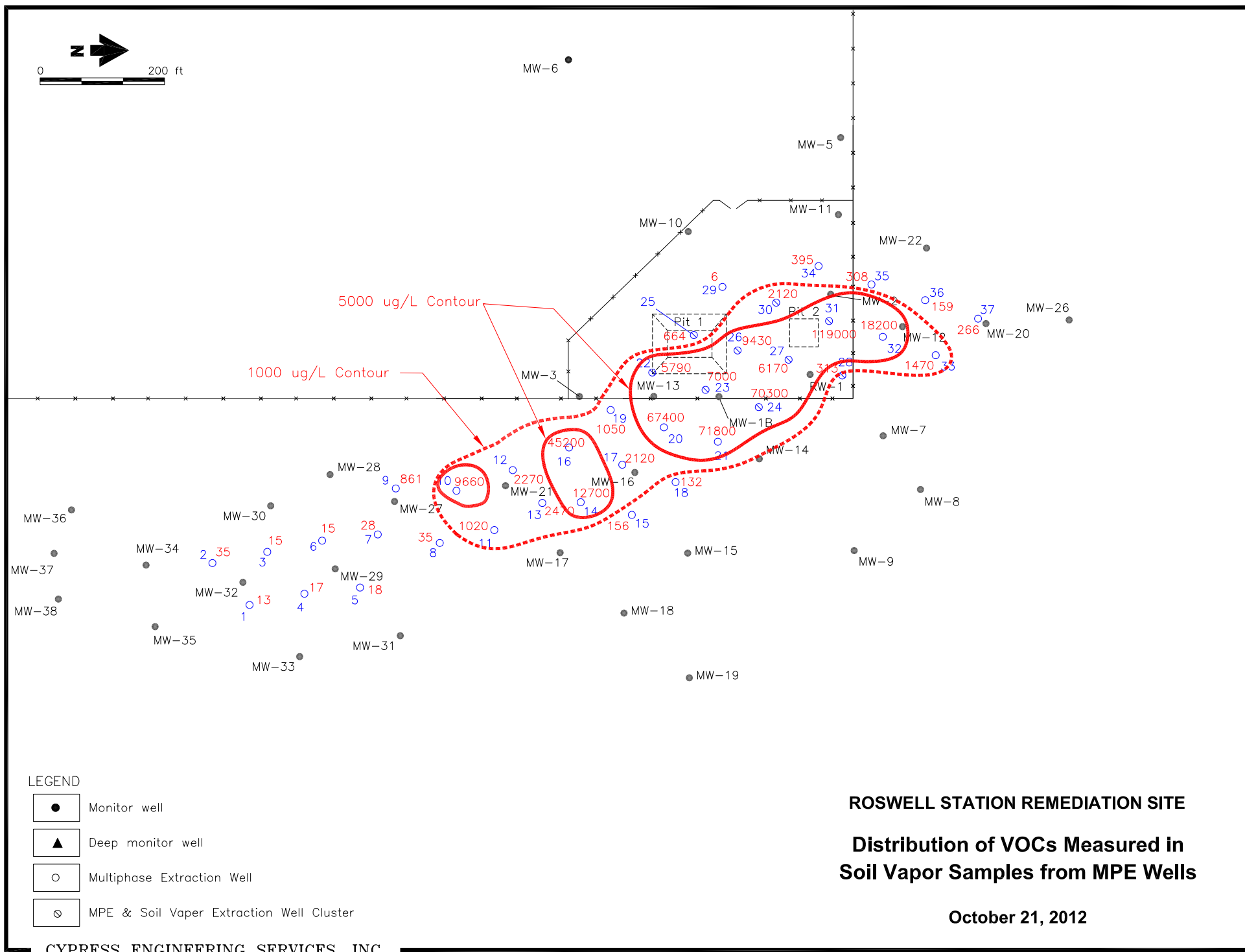
- ALARM #1 - UPON V4 CLOSING
- ALARM #2 - UPON V3 CLOSING

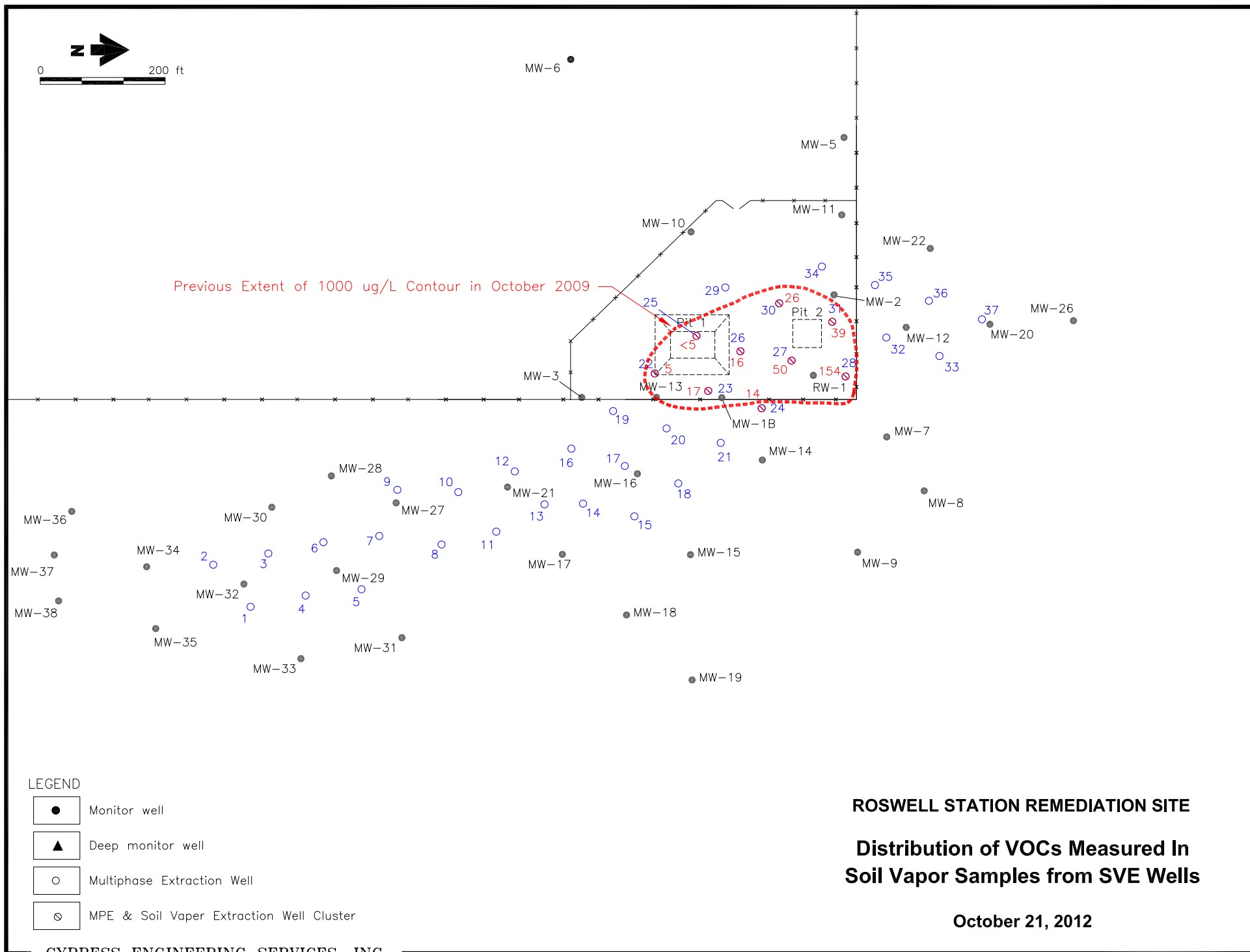


## ROSWELL STATION REMEDIATION SITE

## Water and Vapor Treatment Equipment, Controls, and Process Details

0 Not to Scale





# TABLES

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-1 B  | 09/27/96      | 3609.96            | -                 | 61.60               | 2.33     | 3550.13                |
|         | 10/31/97      |                    | 58.37             | 59.76               | 1.39     | 3551.26                |
|         | 01/26/98      |                    | 58.20             | 60.80               | 2.60     | 3551.14                |
|         | 05/25/98      |                    | 58.28             | 60.38               | 2.10     | 3551.18                |
|         | 08/10/98      |                    | 58.64             | 59.05               | 0.41     | 3551.22                |
|         | 10/11/98      |                    | 58.20             | 61.20               | 3.00     | 3551.04                |
|         | 03/21/99      |                    | 60.45             | 60.46               | 0.01     | 3549.51                |
|         | 09/07/99      |                    | (a)               | 60.15               | (a)      | 3549.81                |
|         | 11/19/00      |                    | 57.87             | 60.13               | 2.26     | 3551.55                |
|         | 03/27/01      |                    | 57.42             | 59.97               | 2.55     | 3551.93                |
|         | 10/03/01*     |                    | 57.12             | 60.25               | 3.13     | 3552.09                |
|         | 06/11/02      |                    | 57.00             | 60.42               | 3.42     | 3552.14                |
|         | 01/29/03      |                    | 57.05             | 60.72               | 3.67     | 3552.03                |
|         | 07/31/03      |                    | 57.35             | 60.72               | 3.37     | 3551.80                |
|         | 03/22/04      |                    | 57.88             | 61.50               | 3.62     | 3551.21                |
|         | 09/08/04      |                    | 59.71             | 63.13               | 3.42     | 3549.43                |
|         | 03/29/05      |                    | 60.35             | 63.49               | 3.14     | 3548.86                |
|         | 10/04/05      |                    | 60.40             | 63.30               | 2.90     | 3548.86                |
|         | 03/23/06      |                    | 60.95             | 63.95               | 3.00     | 3548.29                |
|         | 09/19/06      |                    | 61.48             | 64.30               | 2.82     | 3547.80                |
|         | 03/13/07      |                    | 60.77             | 62.91               | 2.14     | 3548.68                |
|         | 09/21/07      |                    | 61.10             | 63.30               | 2.20     | 3548.33                |
|         | 03/04/08      |                    | 60.10             | 62.07               | 1.97     | 3549.39                |
|         | 09/08/08      |                    | 61.45             | 64.19               | 2.74     | 3547.85                |
|         | 03/10/09      |                    | 60.46             | 62.20               | 1.74     | 3549.08                |
|         | 10/08/09      |                    | sheen             | 64.18               | sheen    | 3545.78                |
|         | 01/26/10      |                    | 60.32             | 60.60               | 0.28     | 3549.57                |
|         | 03/22/10      |                    | 59.82             | 61.86               | 2.04     | 3549.65                |
|         | 04/17/11      |                    | 60.18             | 62.05               | 1.87     | 3549.33                |
|         | 12/22/11      |                    | 61.01             | 63.24               | 2.23     | 3548.41                |
|         | 04/17/12      |                    | 60.65             | 62.45               | 1.80     | 3548.88                |
|         | 10/18/12      |                    | 61.88             | 64.21               | 2.33     | 3547.52                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-2    | 09/27/96      | 3611.76            | -                 | 62.00               | 2.33     | 3551.53                |
|         | 10/31/97      |                    | 58.36             | 59.60               | 1.24     | 3553.10                |
|         | 01/26/98      |                    | 58.20             | 59.85               | 1.65     | 3553.16                |
|         | 05/25/98      |                    | 58.42             | 58.79               | 0.37     | 3553.25                |
|         | 08/10/98      |                    | 58.25             | 58.55               | 0.30     | 3553.44                |
|         | 10/11/98      |                    | 58.20             | 59.70               | 1.50     | 3553.20                |
|         | 03/21/99      |                    | 58.35             | 58.37               | 0.02     | 3553.41                |
|         | 09/07/99      |                    | 61.25             | 61.27               | 0.02     | 3550.51                |
|         | 11/19/00      |                    | 57.67             | 57.74               | 0.07     | 3554.07                |
|         | 03/27/01      |                    | 57.78             | 58.23               | 0.45     | 3553.87                |
|         | 10/03/01*     |                    | 58.04             | 58.35               | 0.31     | 3553.65                |
|         | 06/11/02      |                    | 58.07             | 59.20               | 1.13     | 3553.42                |
|         | 01/29/03      |                    | 58.20             | 60.61               | 2.41     | 3552.98                |
|         | 07/31/03      |                    | 58.60             | 59.30               | 0.70     | 3552.99                |
|         | 03/22/04      |                    | 58.92             | 59.50               | 0.58     | 3552.70                |
|         | 09/08/04      |                    | 59.64             | 60.99               | 1.35     | 3551.80                |
|         | 03/29/05      |                    | (a)               | 59.28               | (a)      | 3552.48                |
|         | 10/04/05      |                    | 59.73             | 61.24               | 1.51     | 3551.67                |
|         | 03/23/06      |                    | 60.10             | 61.22               | 1.12     | 3551.39                |
|         | 09/19/06      |                    | 60.30             | 61.27               | 0.97     | 3551.23                |
|         | 03/13/07      |                    | 59.93             | 60.60               | 0.67     | 3551.67                |
|         | 09/21/07      |                    | 59.95             | 61.22               | 1.27     | 3551.51                |
|         | 03/04/08      |                    | 60.08             | 61.14               | 1.06     | 3551.43                |
|         | 09/08/08      |                    | (a)               | 59.93               | (a)      | 3551.83                |
|         | 03/10/09      |                    | (a)               | 59.10               | (a)      | 3552.66                |
|         | 10/08/09      |                    | (a)               | 60.39               | (a)      | 3551.37                |
|         | 03/22/10      |                    | (a)               | 59.66               | (a)      | 3552.10                |
|         | 04/17/11      |                    | (a)               | 59.77               | (a)      | 3551.99                |
|         | 12/22/11      |                    | (a)               | 59.79               | (a)      | 3551.97                |
|         | 04/17/12      |                    | (a)               | 60.30               | (a)      | 3551.46                |
|         | 10/18/12      |                    | (a)               | 61.30               | (a)      | 3550.46                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-3    | 09/27/96      | 3614.87            | (a)               | 64.79               | (a)      | 3550.08                |
|         | 07/23/97      |                    | (a)               | 64.19               | (a)      | 3550.68                |
|         | 08/19/97      |                    | (a)               | 64.36               | (a)      | 3550.51                |
|         | 10/30/97      |                    | (a)               | 64.22               | (a)      | 3550.65                |
|         | 01/26/98      |                    | (a)               | 64.34               | (a)      | 3550.53                |
|         | 05/25/98      |                    | (a)               | 64.20               | (a)      | 3550.67                |
|         | 08/10/98      |                    | (a)               | 64.06               | (a)      | 3550.81                |
|         | 10/11/98      |                    | (a)               | 64.23               | (a)      | 3550.64                |
|         | 12/21/98      |                    | (a)               | 64.25               | (a)      | 3550.62                |
|         | 03/23/99      |                    | (a)               | 64.24               | (a)      | 3550.63                |
|         | 09/07/99      |                    | (a)               | 63.99               | (a)      | 3550.88                |
|         | 03/27/00      |                    | (a)               | 63.85               | (a)      | 3551.02                |
|         | 11/19/00      |                    | (a)               | 63.85               | (a)      | 3551.02                |
|         | 02/12/01      |                    | (a)               | 63.62               | (a)      | 3551.25                |
|         | 03/27/01      |                    | (a)               | 63.58               | (a)      | 3551.29                |
|         | 10/03/01      |                    | (a)               | 63.63               | (a)      | 3551.24                |
|         | 06/11/02      |                    | (a)               | 63.77               | (a)      | 3551.10                |
|         | 01/29/03      |                    | (a)               | 63.63               | (a)      | 3551.24                |
|         | 07/31/03      |                    | (a)               | 63.67               | (a)      | 3551.20                |
|         | 03/22/04      |                    | (a)               | 64.77               | (a)      | 3550.10                |
|         | 09/08/04      |                    | (a)               | 65.23               | (a)      | 3549.64                |
|         | 03/29/05      |                    | (a)               | 65.57               | (a)      | 3549.30                |
|         | 10/04/05      |                    | (a)               | 66.01               | (a)      | 3548.86                |
|         | 04/17/06      |                    | (a)               | 66.62               | (a)      | 3548.25                |
|         | 09/19/06      |                    | (a)               | 66.77               | (a)      | 3548.10                |
|         | 03/13/07      |                    | (a)               | 66.42               | (a)      | 3548.45                |
|         | 09/21/07      |                    | (a)               | 66.43               | (a)      | 3548.44                |
|         | 03/04/08      |                    | (a)               | 65.95               | (a)      | 3548.92                |
|         | 09/08/08      |                    | (a)               | 66.52               | (a)      | 3548.35                |
|         | 03/10/09      |                    | (a)               | 66.23               | (a)      | 3548.64                |
|         | 10/08/09      |                    | (a)               | 66.77               | (a)      | 3548.10                |
|         | 03/22/10      |                    | (a)               | 66.37               | (a)      | 3548.50                |
|         | 04/17/11      |                    | (a)               | 66.39               | (a)      | 3548.48                |
|         | 12/22/11      |                    | (a)               | 66.86               | (a)      | 3548.01                |
|         | 04/17/12      |                    | (a)               | 66.67               | (a)      | 3548.20                |
|         | 10/18/12      |                    | (a)               | 67.28               | (a)      | 3547.59                |



**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-5    | 09/27/96      | 3612.77            | (a)               | 62.32               | (a)      | 3550.45                |
|         | 07/23/97      |                    | (a)               | 61.95               | (a)      | 3550.82                |
|         | 08/19/97      |                    | (a)               | 62.05               | (a)      | 3550.72                |
|         | 10/30/97      |                    | (a)               | 61.98               | (a)      | 3550.79                |
|         | 01/26/98      |                    | (a)               | 61.90' Top of Pump  | (a)      | NA                     |
|         | 05/25/98      |                    | (a)               | 61.97               | (a)      | 3550.80                |
|         | 08/10/98      |                    | (a)               | 61.81               | (a)      | 3550.96                |
|         | 10/11/98      |                    | (a)               | 61.85               | (a)      | 3550.92                |
|         | 12/21/98      |                    | (a)               | 61.89               | (a)      | 3550.88                |
|         | 03/23/99      |                    | (a)               | 61.80               | (a)      | 3550.97                |
|         | 09/07/99      |                    | (a)               | 61.59               | (a)      | 3551.18                |
|         | 03/27/00      |                    | (a)               | 61.45               | (a)      | 3551.32                |
|         | 11/19/00      |                    | (a)               | 61.43               | (a)      | 3551.34                |
|         | 03/27/01      |                    | (a)               | 61.18               | (a)      | 3551.59                |
|         | 10/03/01      |                    | (a)               | 61.17               | (a)      | 3551.60                |
|         | 06/11/02      |                    | (a)               | 60.99               | (a)      | 3551.78                |
|         | 01/29/03      |                    | (a)               | 61.02               | (a)      | 3551.75                |
|         | 07/31/03      |                    | (a)               | 60.98               | (a)      | 3551.79                |
|         | 03/22/04      |                    | (a)               | 61.13               | (a)      | 3551.64                |
|         | 09/08/04      |                    | (a)               | 61.38               | (a)      | 3551.39                |
|         | 03/29/05      |                    | (a)               | 61.55               | (a)      | 3551.22                |
|         | 10/04/05      |                    | (a)               | 61.84               | (a)      | 3550.93                |
|         | 03/23/06      |                    | (a)               | 62.05               | (a)      | 3550.72                |
|         | 09/19/06      |                    | (a)               | 62.30               | (a)      | 3550.47                |
|         | 03/13/07      |                    | (a)               | 62.41               | (a)      | 3550.36                |
|         | 09/21/07      |                    | (a)               | 62.63               | (a)      | 3550.14                |
|         | 03/04/08      |                    | (a)               | 62.67               | (a)      | 3550.10                |
|         | 09/08/08      |                    | (a)               | 62.79               | (a)      | 3549.98                |
|         | 03/10/09      |                    | (a)               | 62.93               | (a)      | 3549.84                |
|         | 10/08/09      |                    | (a)               | 63.15               | (a)      | 3549.62                |
|         | 03/22/10      |                    | (a)               | 63.31               | (a)      | 3549.46                |
|         | 04/17/11      |                    | (a)               | 63.56               | (a)      | 3549.21                |
|         | 12/22/11      |                    | (a)               | 63.93               | (a)      | 3548.84                |
|         | 04/17/12      |                    | (a)               | 64.06               | (a)      | 3548.71                |
|         | 10/18/12      |                    | (a)               | 64.38               | (a)      | 3548.39                |

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| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-6    | 09/27/96      | 3618.62            | (a)               | 61.85               | (a)      | 3556.77                |
|         | 07/23/97      |                    | (a)               | 61.81               | (a)      | 3556.81                |
|         | 08/19/97      |                    | (a)               | 61.73               | (a)      | 3556.89                |
|         | 10/30/97      |                    | (a)               | 61.62               | (a)      | 3557.00                |
|         | 01/26/98      |                    | (a)               | 61.64               | (a)      | 3556.98                |
|         | 05/25/98      |                    | (a)               | 61.63               | (a)      | 3556.99                |
|         | 08/10/98      |                    | (a)               | 61.70               | (a)      | 3556.92                |
|         | 10/11/98      |                    | (a)               | 61.72               | (a)      | 3556.90                |
|         | 12/21/98      |                    | (a)               | 61.74               | (a)      | 3556.88                |
|         | 03/23/99      |                    | (a)               | 61.78               | (a)      | 3556.84                |
|         | 09/07/99      |                    | (a)               | 61.65               | (a)      | 3556.97                |
|         | 03/27/00      |                    | (a)               | 61.13               | (a)      | 3557.49                |
|         | 11/19/00      |                    | (a)               | 61.11               | (a)      | 3557.51                |
|         | 03/27/01      |                    | (a)               | 60.93               | (a)      | 3557.69                |
|         | 10/03/01      |                    | (a)               | 60.85               | (a)      | 3557.77                |
|         | 06/11/02      |                    | (a)               | 60.81               | (a)      | 3557.81                |
|         | 01/29/03      |                    | (a)               | 60.87               | (a)      | 3557.75                |
|         | 07/31/03      |                    | (a)               | 60.99               | (a)      | 3557.63                |
|         | 03/22/04      |                    | (a)               | 61.21               | (a)      | 3557.41                |
|         | 09/08/04      |                    | (a)               | 62.53               | (a)      | 3556.09                |
|         | 03/29/05      |                    | (a)               | 61.75               | (a)      | 3556.87                |
|         | 10/04/05      |                    | (a)               | 62.12               | (a)      | 3556.50                |
|         | 03/23/06      |                    | (a)               | 62.32               | (a)      | 3556.30                |
|         | 09/19/06      |                    | (a)               | 62.55               | (a)      | 3556.07                |
|         | 03/13/07      |                    | (a)               | 62.63               | (a)      | 3555.99                |
|         | 09/21/07      |                    | (a)               | 62.84               | (a)      | 3555.78                |
|         | 03/04/08      |                    | (a)               | 62.90               | (a)      | 3555.72                |
|         | 09/09/08      |                    | (a)               | 63.14               | (a)      | 3555.48                |
|         | 03/10/09      |                    | (a)               | 63.21               | (a)      | 3555.41                |
|         | 10/08/09      |                    | (a)               | 63.32               | (a)      | 3555.30                |
|         | 03/22/10      |                    | (a)               | 63.46               | (a)      | 3555.16                |
|         | 12/22/11      |                    | (a)               | 64.17               | (a)      | 3554.45                |
|         | 04/17/12      |                    | (a)               | 64.25               | (a)      | 3554.37                |
|         | 10/18/12      |                    | (a)               | 64.58               | (a)      | 3554.04                |

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| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-7    | 09/27/96      | 3599.20            | (a)               | 54.74               | (a)      | 3544.46                |
|         | 07/23/97      |                    | (a)               | 52.89               | (a)      | 3546.31                |
|         | 08/19/97      |                    | (a)               | 53.57               | (a)      | 3545.63                |
|         | 10/30/97      |                    | (a)               | 53.00               | (a)      | 3546.20                |
|         | 01/26/98      |                    | (a)               | 51.45               | (a)      | 3547.75                |
|         | 05/25/98      |                    | (a)               | 51.76               | (a)      | 3547.44                |
|         | 08/10/98      |                    | (a)               | 54.11               | (a)      | 3545.09                |
|         | 10/11/98      |                    | (a)               | 54.35               | (a)      | 3544.85                |
|         | 12/21/98      |                    | (a)               | 52.69               | (a)      | 3546.51                |
|         | 03/23/99      |                    | (a)               | 51.24               | (a)      | 3547.96                |
|         | 09/07/99      |                    | (a)               | 52.33               | (a)      | 3546.87                |
|         | 03/27/00      |                    | (a)               | 50.63               | (a)      | 3548.57                |
|         | 11/19/00      |                    | (a)               | 53.92               | (a)      | 3545.28                |
|         | 03/27/01      |                    | (a)               | 51.23               | (a)      | 3547.97                |
|         | 10/03/01      |                    | (a)               | 54.45               | (a)      | 3544.75                |
|         | 06/11/02      |                    | (a)               | 53.69               | (a)      | 3545.51                |
|         | 01/29/03      |                    | (a)               | 53.85               | (a)      | 3545.35                |
|         | 07/31/03      |                    | (a)               | 56.72               | (a)      | 3542.48                |
|         | 03/22/04      |                    | (a)               | 55.37               | (a)      | 3543.83                |
|         | 09/08/04      |                    | (a)               | 58.54               | (a)      | 3540.66                |
|         | 03/29/05      |                    | (a)               | 55.15               | (a)      | 3544.05                |
|         | 10/04/05      |                    | (a)               | 58.90               | (a)      | 3540.30                |
|         | 03/23/06      |                    | (a)               | 56.99               | (a)      | 3542.21                |
|         | 09/19/06      |                    | (a)               | 59.94               | (a)      | 3539.26                |
|         | 03/13/07      |                    | (a)               | 56.33               | (a)      | 3542.87                |
|         | 09/21/07      |                    | (a)               | 58.53               | (a)      | 3540.67                |
|         | 03/04/08      |                    | (a)               | 56.50               | (a)      | 3542.70                |
|         | 09/09/08      |                    | (a)               | 60.93               | (a)      | 3538.27                |
|         | 03/10/09      |                    | (a)               | 58.24               | (a)      | 3540.96                |
|         | 10/08/09      |                    | (a)               | 62.12               | (a)      | 3537.08                |
|         | 03/22/10      |                    | (a)               | 58.68               | (a)      | 3540.52                |
|         | 04/17/11      |                    | (a)               | 59.42               | (a)      | 3539.78                |
|         | 12/22/11      |                    | (a)               | 63.09               | (a)      | 3536.11                |
|         | 04/17/12      |                    | (a)               | 62.30               | (a)      | 3536.90                |
|         | 10/18/12      |                    | (a)               | 66.14               | (a)      | 3533.06                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-8    | 09/27/96      | 3595.80            | (a)               | 51.98               | (a)      | 3543.82                |
|         | 07/23/97      |                    | (a)               | 50.14               | (a)      | 3545.66                |
|         | 08/19/97      |                    | (a)               | 50.92               | (a)      | 3544.88                |
|         | 10/30/97      |                    | (a)               | 50.18               | (a)      | 3545.62                |
|         | 01/26/98      |                    | (a)               | 48.52               | (a)      | 3547.28                |
|         | 05/25/98      |                    | (a)               | 49.02               | (a)      | 3546.78                |
|         | 08/10/98      |                    | (a)               | 51.40               | (a)      | 3544.40                |
|         | 10/11/98      |                    | (a)               | 51.60               | (a)      | 3544.20                |
|         | 12/21/98      |                    | (a)               | 49.84               | (a)      | 3545.96                |
|         | 03/23/99      |                    | (a)               | 48.30               | (a)      | 3547.50                |
|         | 09/07/99      |                    | (a)               | 49.42               | (a)      | 3546.38                |
|         | 03/27/00      |                    | (a)               | 47.63               | (a)      | 3548.17                |
|         | 11/19/00      |                    | (a)               | 50.97               | (a)      | 3544.83                |
|         | 02/12/01      |                    | (a)               | 48.85               | (a)      | 3546.95                |
|         | 03/27/01      |                    | (a)               | 48.21               | (a)      | 3547.59                |
|         | 10/03/01      |                    | (a)               | 51.45               | (a)      | 3544.35                |
|         | 06/11/02      |                    | (a)               | 50.90               | (a)      | 3544.90                |
|         | 01/29/03      |                    | (a)               | 50.81               | (a)      | 3544.99                |
|         | 07/31/03      |                    | (a)               | 54.00               | (a)      | 3541.80                |
|         | 03/22/04      |                    | (a)               | 52.24               | (a)      | 3543.56                |
|         | 09/08/04      |                    | (a)               | 55.76               | (a)      | 3540.04                |
|         | 03/29/05      |                    | (a)               | 52.56               | (a)      | 3543.24                |
|         | 10/04/05      |                    | (a)               | 55.96               | (a)      | 3539.84                |
|         | 03/23/06      |                    | (a)               | 54.21               | (a)      | 3541.59                |
|         | 09/19/06      |                    | (a)               | 57.00               | (a)      | 3538.80                |
|         | 03/13/07      |                    | (a)               | 53.34               | (a)      | 3542.46                |
|         | 09/21/07      |                    | (a)               | 55.75               | (a)      | 3540.05                |
|         | 03/04/08      |                    | (a)               | 53.90               | (a)      | 3541.90                |
|         | 09/09/08      |                    | (a)               | 58.00               | (a)      | 3537.80                |
|         | 03/10/09      |                    | (a)               | 55.36               | (a)      | 3540.44                |
|         | 10/08/09      |                    | (a)               | 59.04               | (a)      | 3536.76                |
|         | 03/22/10      |                    | (a)               | 55.56               | (a)      | 3540.24                |
|         | 04/17/11      |                    | (a)               | 56.48               | (a)      | 3539.32                |
|         | 12/22/11      |                    | (a)               | 60.00               | (a)      | 3535.80                |
|         | 04/17/12      |                    | (a)               | 59.28               | (a)      | 3536.52                |
|         | 10/15/12      |                    | (a)               | 62.32               | (a)      | 3533.48                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-9    | 09/27/96      | 3599.35            | (a)               | 50.27               | (a)      | 3549.08                |
|         | 07/23/97      |                    | (a)               | 50.07               | (a)      | 3549.28                |
|         | 08/19/97      |                    | (a)               | 50.09               | (a)      | 3549.26                |
|         | 10/30/97      |                    | (a)               | 50.18               | (a)      | 3549.17                |
|         | 01/26/98      |                    | (a)               | 50.10               | (a)      | 3549.25                |
|         | 05/25/98      |                    | (a)               | 50.13               | (a)      | 3549.22                |
|         | 08/10/98      |                    | (a)               | 50.18               | (a)      | 3549.17                |
|         | 10/11/98      |                    | (a)               | 50.20               | (a)      | 3549.15                |
|         | 12/21/98      |                    | (a)               | 50.26               | (a)      | 3549.09                |
|         | 03/23/99      |                    | (a)               | 50.19               | (a)      | 3549.16                |
|         | 09/07/99      |                    | (a)               | 50.17               | (a)      | 3549.18                |
|         | 03/27/00      |                    | (a)               | 50.17               | (a)      | 3549.18                |
|         | 11/19/00      |                    | (a)               | 50.25               | (a)      | 3549.10                |
|         | 02/12/01      |                    | (a)               | 50.19               | (a)      | 3549.16                |
|         | 03/27/01      |                    | (a)               | 50.19               | (a)      | 3549.16                |
|         | 10/03/01      |                    | (a)               | 50.30               | (a)      | 3549.05                |
|         | 06/11/02      |                    | (a)               | 50.20               | (a)      | 3549.15                |
|         | 01/29/03      |                    | (a)               | 50.18               | (a)      | 3549.17                |
|         | 07/31/03      |                    | (a)               | 50.28               | (a)      | 3549.07                |
|         | 03/22/04      |                    | (a)               | 50.43               | (a)      | 3548.92                |
|         | 09/08/04      |                    | (a)               | 50.45               | (a)      | 3548.90                |
|         | 03/29/05      |                    | (a)               | 50.54               | (a)      | 3548.81                |
|         | 10/04/05      |                    | (a)               | 50.75               | (a)      | 3548.60                |
|         | 03/23/06      |                    | (a)               | 50.73               | (a)      | 3548.62                |
|         | 09/19/06      |                    | (a)               | 50.98               | (a)      | 3548.37                |
|         | 03/13/07      |                    | (a)               | 51.14               | (a)      | 3548.21                |
|         | 09/21/07      |                    | (a)               | 51.26               | (a)      | 3548.09                |
|         | 03/04/08      |                    | (a)               | 51.39               | (a)      | 3547.96                |
|         | 09/08/08      |                    | (a)               | 51.53               | (a)      | 3547.82                |
|         | 03/10/09      |                    | (a)               | 51.78               | (a)      | 3547.57                |
|         | 10/08/09      |                    | (a)               | 51.93               | (a)      | 3547.42                |
|         | 03/22/10      |                    | (a)               | 51.86               | (a)      | 3547.49                |
|         | 04/17/11      |                    | (a)               | 51.96               | (a)      | 3547.39                |
|         | 12/22/11      |                    | (a)               | 52.26               | (a)      | 3547.09                |
|         | 04/17/12      |                    | (a)               | 52.27               | (a)      | 3547.08                |
|         | 10/15/12      |                    | (a)               | 52.53               | (a)      | 3546.82                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-10   | 09/27/96      | 3617.85            | (a)               | 67.21               | (a)      | 3550.64                |
|         | 07/23/97      |                    | (a)               | 66.83               | (a)      | 3551.02                |
|         | 08/19/97      |                    | (a)               | 66.93               | (a)      | 3550.92                |
|         | 10/30/97      |                    | (a)               | 66.83               | (a)      | 3551.02                |
|         | 01/26/98      |                    | (a)               | 66.58 Top of Pump   | (a)      | NA                     |
|         | 05/25/98      |                    | (a)               | 66.91               | (a)      | 3550.94                |
|         | 08/10/98      |                    | (a)               | 66.65               | (a)      | 3551.20                |
|         | 10/11/98      |                    | (a)               | 66.59 Top of Pump   | (a)      | NA                     |
|         | 12/21/98      |                    | (a)               | 66.79               | (a)      | 3551.06                |
|         | 03/23/99      |                    | (a)               | 66.72               | (a)      | 3551.13                |
|         | 09/07/99      |                    | (a)               | 66.49               | (a)      | 3551.36                |
|         | 03/27/00      |                    | (a)               | 66.34               | (a)      | 3551.51                |
|         | 11/19/00      |                    | (a)               | 66.30               | (a)      | 3551.55                |
|         | 03/27/01      |                    | (a)               | 66.10               | (a)      | 3551.75                |
|         | 10/03/01      |                    | (a)               | 66.08               | (a)      | 3551.77                |
|         | 06/11/02      |                    | (a)               | 65.95               | (a)      | 3551.90                |
|         | 01/29/03      |                    | (a)               | 66.04               | (a)      | 3551.81                |
|         | 07/31/03      |                    | (a)               | 66.04               | (a)      | 3551.81                |
|         | 03/22/04      |                    | (a)               | 66.61               | (a)      | 3551.24                |
|         | 09/08/04      |                    | (a)               | 67.44               | (a)      | 3550.41                |
|         | 03/29/05      |                    | (a)               | 67.52               | (a)      | 3550.33                |
|         | 03/23/06      |                    | (a)               | 68.45               | (a)      | 3549.40                |
|         | 09/19/06      |                    | (a)               | 68.66               | (a)      | 3549.19                |
|         | 03/13/07      |                    | (a)               | 68.44               | (a)      | 3549.41                |
|         | 09/21/07      |                    | (a)               | 68.58               | (a)      | 3549.27                |
|         | 03/04/08      |                    | (a)               | 68.58               | (a)      | 3549.27                |
|         | 09/09/08      |                    | (a)               | 69.03               | (a)      | 3548.82                |
|         | 03/10/09      |                    | (a)               | 68.49               | (a)      | 3549.36                |
|         | 10/08/09      |                    | (a)               | 69.18               | (a)      | 3548.67                |
|         | 03/22/10      |                    | (a)               | 68.85               | (a)      | 3549.00                |
|         | 04/17/11      |                    | (a)               | 68.85               | (a)      | 3549.00                |
|         | 12/22/11      |                    | (a)               | 69.32               | (a)      | 3548.53                |
|         | 04/17/12      |                    | (a)               | 69.19               | (a)      | 3548.66                |
|         | 10/18/12      |                    | (a)               | 69.78               | (a)      | 3548.07                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-11   | 09/27/96      | 3613.31            | (a)               | 62.90               | (a)      | 3550.41                |
|         | 07/23/97      |                    | (a)               | 62.44               | (a)      | 3550.87                |
|         | 08/19/97      |                    | (a)               | 62.53               | (a)      | 3550.78                |
|         | 10/30/97      |                    | (a)               | 62.40               | (a)      | 3550.91                |
|         | 01/26/98      |                    | (a)               | 62.20 Top of Pump   | (a)      | NA                     |
|         | 05/25/98      |                    | (a)               | 62.22               | (a)      | 3551.09                |
|         | 08/10/98      |                    | (a)               | 62.18               | (a)      | 3551.13                |
|         | 10/11/98      |                    | (a)               | 62.21 Top of Pump   | (a)      | NA                     |
|         | 12/21/98      |                    | (a)               | 62.42               | (a)      | 3550.89                |
|         | 03/23/99      |                    | (a)               | 62.26               | (a)      | 3551.05                |
|         | 09/07/99      |                    | (a)               | 62.01               | (a)      | 3551.30                |
|         | 03/27/00      |                    | (a)               | 61.77               | (a)      | 3551.54                |
|         | 11/19/00      |                    | (a)               | 61.85               | (a)      | 3551.46                |
|         | 03/27/01      |                    | (a)               | 61.61               | (a)      | 3551.70                |
|         | 10/03/01      |                    | (a)               | 61.63               | (a)      | 3551.68                |
|         | 06/11/02      |                    | (a)               | 61.47               | (a)      | 3551.84                |
|         | 01/29/03      |                    | (a)               | 61.60               | (a)      | 3551.71                |
|         | 07/31/03      |                    | (a)               | 61.64               | (a)      | 3551.67                |
|         | 03/22/04      |                    | (a)               | 62.46               | (a)      | 3550.85                |
|         | 09/08/04      |                    | (a)               | 63.43               | (a)      | 3549.88                |
|         | 03/29/05      |                    | (a)               | 63.40               | (a)      | 3549.91                |
|         | 10/04/05      |                    | (a)               | 64.31               | (a)      | 3549.00                |
|         | 03/23/06      |                    | (a)               | 64.65               | (a)      | 3548.66                |
|         | 09/19/06      |                    | (a)               | 64.80               | (a)      | 3548.51                |
|         | 03/13/07      |                    | (a)               | 64.31               | (a)      | 3549.00                |
|         | 09/21/07      |                    | (a)               | 64.32               | (a)      | 3548.99                |
|         | 03/04/08      |                    | (a)               | 63.92               | (a)      | 3549.39                |
|         | 09/09/08      |                    | (a)               | 64.93               | (a)      | 3548.38                |
|         | 03/10/09      |                    | (a)               | 64.30               | (a)      | 3549.01                |
|         | 10/08/09      |                    | (a)               | 65.39               | (a)      | 3547.92                |
|         | 03/22/10      |                    | (a)               | 64.69               | (a)      | 3548.62                |
|         | 04/17/11      |                    | (a)               | 64.55               | (a)      | 3548.76                |
|         | 12/22/11      |                    | (a)               | 65.36               | (a)      | 3547.95                |
|         | 04/17/12      |                    | (a)               | 64.97               | (a)      | 3548.34                |
|         | 10/18/12      |                    | (a)               | 66.03               | (a)      | 3547.28                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-12   | 09/27/96      | 3606.38            | (a)               | 55.58               | (a)      | 3550.80                |
|         | 07/23/97      |                    | (a)               | 53.99               | (a)      | 3552.39                |
|         | 08/19/97      |                    | (a)               | 53.96               | (a)      | 3552.42                |
|         | 10/30/97      |                    | (a)               | 53.61               | (a)      | 3552.77                |
|         | 01/26/98      |                    | (a)               | 53.55               | (a)      | 3552.83                |
|         | 05/25/98      |                    | (a)               | 53.36               | (a)      | 3553.02                |
|         | 08/10/98      |                    | (a)               | 53.30               | (a)      | 3553.08                |
|         | 10/11/98      |                    | (a)               | 53.55               | (a)      | 3552.83                |
|         | 12/21/98      |                    | (a)               | 53.65               | (a)      | 3552.73                |
|         | 03/23/99      |                    | (a)               | 53.50               | (a)      | 3552.88                |
|         | 09/07/99      |                    | (a)               | 52.79               | (a)      | 3553.59                |
|         | 03/27/00      |                    | (a)               | 52.46               | (a)      | 3553.92                |
|         | 11/19/00      |                    | (a)               | 53.18               | (a)      | 3553.20                |
|         | 03/27/01      |                    | (a)               | 52.91               | (a)      | 3553.47                |
|         | 10/03/01      |                    | (a)               | 52.91               | (a)      | 3553.47                |
|         | 06/11/02      |                    | (a)               | 53.30               | (a)      | 3553.08                |
|         | 01/29/03      |                    | (a)               | 53.95               | (a)      | 3552.43                |
|         | 07/31/03      |                    | (a)               | 54.02               | (a)      | 3552.36                |
|         | 03/22/04      |                    | (a)               | 54.62               | (a)      | 3551.76                |
|         | 09/08/04      |                    | (a)               | 55.41               | (a)      | 3550.97                |
|         | 03/29/05      |                    | (a)               | 55.83               | (a)      | 3550.55                |
|         | 10/04/05      |                    | (a)               | 56.16               | (a)      | 3550.22                |
|         | 03/23/06      |                    | (a)               | 56.80               | (a)      | 3549.58                |
|         | 09/19/06      |                    | (a)               | 57.23               | (a)      | 3549.15                |
|         | 03/13/07      |                    | (a)               | 56.37               | (a)      | 3550.01                |
|         | 09/21/07      |                    | (a)               | 56.09               | (a)      | 3550.29                |
|         | 03/04/08      |                    | (a)               | 55.80               | (a)      | 3550.58                |
|         | 09/09/08      |                    | 56.70             | 56.71               | 0.01     | 3549.68                |
|         | 03/10/09      |                    | 56.16             | 56.57               | 0.41     | 3550.12                |
|         | 10/08/09      |                    | 57.17             | 57.18               | 0.01     | 3549.21                |
|         | 01/26/10      |                    | (a)               | 56.95               | (a)      | 3549.43                |
|         | 03/22/10      |                    | 56.34             | 58.23               | 1.89     | 3549.59                |
|         | 04/17/11      |                    | 56.00             | 57.47               | 1.47     | 3550.03                |
|         | 12/22/11      |                    | 57.01             | 57.18               | 0.17     | 3549.33                |
|         | 04/17/12      |                    | 56.75             | 59.72               | 2.97     | 3548.92                |
|         | 10/15/12      |                    | 57.33             | 58.28               | 0.95     | 3548.82                |



**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-13   | 09/27/96      | 3612.46            | (a)               | 62.30               | (a)      | 3550.16                |
|         | 07/23/97      |                    | (a)               | 61.85               | (a)      | 3550.61                |
|         | 08/19/97      |                    | (a)               | 61.95               | (a)      | 3550.51                |
|         | 10/30/97      |                    | (a)               | 61.68               | (a)      | 3550.78                |
|         | 01/26/98      |                    | (a)               | 61.90               | (a)      | 3550.56                |
|         | 05/25/98      |                    | (a)               | 61.79               | (a)      | 3550.67                |
|         | 08/10/98      |                    | (a)               | 61.78               | (a)      | 3550.68                |
|         | 10/11/98      |                    | (a)               | 61.88               | (a)      | 3550.58                |
|         | 12/21/98      |                    | (a)               | 61.71               | (a)      | 3550.75                |
|         | 03/23/99      |                    | (a)               | 61.83               | (a)      | 3550.63                |
|         | 09/07/99      |                    | (a)               | 61.64               | (a)      | 3550.82                |
|         | 03/27/00      |                    | (a)               | 61.33               | (a)      | 3551.13                |
|         | 11/19/00      |                    | (a)               | 61.48               | (a)      | 3550.98                |
|         | 03/27/01      |                    | (a)               | 61.05               | (a)      | 3551.41                |
|         | 10/03/01      |                    | (a)               | 61.10               | (a)      | 3551.36                |
|         | 06/11/02      |                    | (a)               | 61.05               | (a)      | 3551.41                |
|         | 01/29/03      |                    | (a)               | 60.99               | (a)      | 3551.47                |
|         | 07/31/03      |                    | (a)               | 61.33               | (a)      | 3551.13                |
|         | 03/22/04      |                    | (a)               | 61.77               | (a)      | 3550.69                |
|         | 09/08/04      |                    | (a)               | 63.02               | (a)      | 3549.44                |
|         | 03/29/05      |                    | (a)               | 63.29               | (a)      | 3549.17                |
|         | 10/04/05      |                    | (a)               | 63.61               | (a)      | 3548.85                |
|         | 03/23/06      |                    | (a)               | 64.25               | (a)      | 3548.21                |
|         | 09/19/06      |                    | (a)               | 64.65               | (a)      | 3547.81                |
|         | 03/13/07      |                    | (a)               | 63.96               | (a)      | 3548.50                |
|         | 09/21/07      |                    | (a)               | 64.14               | (a)      | 3548.32                |
|         | 03/04/08      |                    | (a)               | 63.34               | (a)      | 3549.12                |
|         | 09/09/08      |                    | (a)               | 64.30               | (a)      | 3548.16                |
|         | 03/10/09      |                    | (a)               | 63.76               | (a)      | 3548.70                |
|         | 10/08/09      |                    | (a)               | 64.35               | (a)      | 3548.11                |
|         | 01/26/10      |                    | (a)               | 64.05               | (a)      | 3548.41                |
|         | 03/22/10      |                    | (a)               | 63.78               | (a)      | 3548.68                |
|         | 04/17/11      |                    | (a)               | 63.65               | (a)      | 3548.81                |
|         | 12/22/11      |                    | (a)               | 64.64               | (a)      | 3547.82                |
|         | 04/17/12      |                    | (a)               | 64.31               | (a)      | 3548.15                |
|         | 10/18/12      |                    | (a)               | 64.99               | (a)      | 3547.47                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-14   | 09/27/96      | 3604.83            | (a)               | 53.38               | (a)      | 3551.45                |
|         | 07/23/97      |                    | (a)               | 53.33               | (a)      | 3551.50                |
|         | 08/19/97      |                    | (a)               | 53.06               | (a)      | 3551.77                |
|         | 10/30/97      |                    | (a)               | 53.20               | (a)      | 3551.63                |
|         | 01/26/98      |                    | (a)               | 53.41               | (a)      | 3551.42                |
|         | 05/25/98      |                    | (a)               | 53.40               | (a)      | 3551.43                |
|         | 08/10/98      |                    | (a)               | 53.43               | (a)      | 3551.40                |
|         | 10/11/98      |                    | (a)               | 53.56               | (a)      | 3551.27                |
|         | 12/21/98      |                    | (a)               | 53.53               | (a)      | 3551.30                |
|         | 03/23/99      |                    | (a)               | 53.55               | (a)      | 3551.28                |
|         | 09/07/99      |                    | (a)               | 53.41               | (a)      | 3551.42                |
|         | 03/27/00      |                    | (a)               | 53.05               | (a)      | 3551.78                |
|         | 11/19/00      |                    | (a)               | 52.95               | (a)      | 3551.88                |
|         | 03/27/01      |                    | (a)               | 52.67               | (a)      | 3552.16                |
|         | 10/03/01      |                    | (a)               | 52.61               | (a)      | 3552.22                |
|         | 06/11/02      |                    | (a)               | 52.42               | (a)      | 3552.41                |
|         | 01/29/03      |                    | (a)               | 52.51               | (a)      | 3552.32                |
|         | 07/31/03      |                    | (a)               | 52.80               | (a)      | 3552.03                |
|         | 03/22/04      |                    | (a)               | 53.51               | (a)      | 3551.32                |
|         | 09/08/04      |                    | (a)               | 53.87               | (a)      | 3550.96                |
|         | 03/29/05      |                    | (a)               | 54.28               | (a)      | 3550.55                |
|         | 10/04/05      |                    | (a)               | 54.60               | (a)      | 3550.23                |
|         | 03/23/06      |                    | (a)               | 54.89               | (a)      | 3549.94                |
|         | 09/19/06      |                    | (a)               | 55.26               | (a)      | 3549.57                |
|         | 03/13/07      |                    | (a)               | 55.16               | (a)      | 3549.67                |
|         | 09/21/07      |                    | (a)               | 55.16               | (a)      | 3549.67                |
|         | 03/04/08      |                    | (a)               | 54.66               | (a)      | 3550.17                |
|         | 09/09/08      |                    | (a)               | 54.68               | (a)      | 3550.15                |
|         | 03/10/09      |                    | (a)               | 54.43               | (a)      | 3550.40                |
|         | 10/08/09      |                    | (a)               | 54.57               | (a)      | 3550.26                |
|         | 03/22/10      |                    | (a)               | 54.23               | (a)      | 3550.60                |
|         | 04/17/11      |                    | (a)               | 54.72               | (a)      | 3550.11                |
|         | 12/22/11      |                    | (a)               | 55.43               | (a)      | 3549.40                |
|         | 04/17/12      |                    | (a)               | 55.27               | (a)      | 3549.56                |
|         | 10/15/12      |                    | (a)               | 55.52               | (a)      | 3549.31                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-15   | 09/27/96      | 3610.43            | (a)               | 58.77               | (a)      | 3551.66                |
|         | 07/23/97      |                    | (a)               | 58.75               | (a)      | 3551.68                |
|         | 08/19/97      |                    | (a)               | 58.84               | (a)      | 3551.59                |
|         | 10/30/97      |                    | (a)               | 58.83               | (a)      | 3551.60                |
|         | 01/26/98      |                    | (a)               | 58.97               | (a)      | 3551.46                |
|         | 05/25/98      |                    | (a)               | 58.96               | (a)      | 3551.47                |
|         | 08/10/98      |                    | (a)               | 58.92               | (a)      | 3551.51                |
|         | 10/11/98      |                    | (a)               | 59.02               | (a)      | 3551.41                |
|         | 12/21/98      |                    | (a)               | 59.04               | (a)      | 3551.39                |
|         | 03/23/99      |                    | (a)               | 59.09               | (a)      | 3551.34                |
|         | 09/07/99      |                    | (a)               | 58.98               | (a)      | 3551.45                |
|         | 03/27/00      |                    | (a)               | 59.03               | (a)      | 3551.40                |
|         | 11/19/00      |                    | (a)               | 59.18               | (a)      | 3551.25                |
|         | 03/27/01      |                    | (a)               | 59.07               | (a)      | 3551.36                |
|         | 10/03/01      |                    | (a)               | 59.15               | (a)      | 3551.28                |
|         | 06/11/02      |                    | (a)               | 59.16               | (a)      | 3551.27                |
|         | 01/29/03      |                    | (a)               | 59.18               | (a)      | 3551.25                |
|         | 07/31/03      |                    | (a)               | 59.15               | (a)      | 3551.28                |
|         | 03/22/04      |                    | (a)               | 59.21               | (a)      | 3551.22                |
|         | 09/08/04      |                    | (a)               | 59.32               | (a)      | 3551.11                |
|         | 03/29/05      |                    | (a)               | 59.53               | (a)      | 3550.90                |
|         | 10/04/05      |                    | (a)               | 59.61               | (a)      | 3550.82                |
|         | 03/23/06      |                    | (a)               | 59.74               | (a)      | 3550.69                |
|         | 09/19/06      |                    | (a)               | 59.81               | (a)      | 3550.62                |
|         | 03/13/07      |                    | (a)               | 59.89               | (a)      | 3550.54                |
|         | 09/21/07      |                    | (a)               | 60.02               | (a)      | 3550.41                |
|         | 03/04/08      |                    | (a)               | 59.96               | (a)      | 3550.47                |
|         | 09/09/08      |                    | (a)               | 59.98               | (a)      | 3550.45                |
|         | 03/10/09      |                    | (a)               | 59.30               | (a)      | 3551.13                |
|         | 10/08/09      |                    | (a)               | 58.82               | (a)      | 3551.61                |
|         | 03/22/10      |                    | (a)               | 58.43               | (a)      | 3552.00                |
|         | 04/17/11      |                    | (a)               | 58.94               | (a)      | 3551.49                |
|         | 12/22/11      |                    | (a)               | 59.26               | (a)      | 3551.17                |
|         | 04/17/12      |                    | (a)               | 59.45               | (a)      | 3550.98                |
|         | 10/15/12      |                    | (a)               | 59.65               | (a)      | 3550.78                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-16   | 09/27/96      | 3612.41            | -                 | 67.16               | 4.01     | 3548.30                |
|         | 07/23/97      |                    | -                 | 66.46               | 4.87     | 3549.65                |
|         | 08/19/97      |                    | -                 | 66.54               | 4.89     | 3549.59                |
|         | 10/31/97      |                    | 61.58             | 66.32               | 4.74     | 3549.69                |
|         | 01/26/98      |                    | 61.55             | 66.12               | 4.57     | 3549.76                |
|         | 05/25/98      |                    | 61.56             | 66.09               | 4.53     | 3549.76                |
|         | 08/10/98      |                    | 61.49             | 66.31               | 4.82     | 3549.76                |
|         | 10/11/98      |                    | 61.59             | 66.38               | 4.79     | 3549.67                |
|         | 12/21/98      |                    | 61.59             | 66.17               | 4.58     | 3549.72                |
|         | 03/23/99      |                    | 61.42             | 65.97               | 4.55     | 3549.90                |
|         | 09/07/99      |                    | 61.40             | 66.14               | 4.74     | 3549.87                |
|         | 03/27/00      |                    | 61.14             | 65.71               | 4.57     | 3550.17                |
|         | 11/19/00      |                    | 61.30             | 65.79               | 4.49     | 3550.03                |
|         | 02/12/01      |                    | 61.21             | 65.65               | 4.44     | 3550.13                |
|         | 03/27/01      |                    | 61.13             | 65.57               | 4.44     | 3550.21                |
|         | 10/03/01*     |                    | 61.15             | 65.82               | 4.67     | 3550.14                |
|         | 06/11/02      |                    | 61.12             | 65.65               | 4.53     | 3550.20                |
|         | 07/31/03      |                    | 61.68             | 66.38               | 4.70     | 3549.60                |
|         | 03/22/04      |                    | 62.67             | 65.90               | 3.23     | 3548.96                |
|         | 09/08/04      |                    | 63.68             | 66.84               | 3.16     | 3547.97                |
|         | 03/29/05      |                    | 64.82             | 67.71               | 2.89     | 3546.90                |
|         | 10/05/05      |                    | 64.73             | 66.51               | 1.78     | 3547.25                |
|         | 03/23/06      |                    | 65.60             | 67.70               | 2.10     | 3546.31                |
|         | 09/19/06      |                    | 67.91             | 68.84               | 0.93     | 3544.28                |
|         | 03/13/07      |                    | 66.37             | 66.53               | 0.16     | 3546.00                |
|         | 09/21/07      |                    | 65.95             | 66.03               | 0.08     | 3546.44                |
|         | 03/04/08      |                    | (a)               | 65.04               | (a)      | 3547.37                |
|         | 09/09/08      |                    | (a)               | 66.00               | (a)      | 3546.41                |
|         | 03/10/09      |                    | 65.25             | 65.26               | 0.01     | 3547.16                |
|         | 10/08/09      |                    | 65.91             | 65.92               | 0.01     | 3546.50                |
|         | 01/26/10      |                    | (a)               | 65.57               | (a)      | 3546.84                |
|         | 03/22/10      |                    | (a)               | 65.19               | sheen    | 3547.22                |
|         | 04/17/11      |                    | (a)               | 65.36               | (a)      | 3547.05                |
|         | 12/22/11      |                    | (a)               | 65.99               | sheen    | 3546.42                |
|         | 04/17/12      |                    | 65.58             | 65.59               | 0.01     | 3546.83                |
|         | 10/15/12      |                    | (a)               | 66.55               | (a)      | 3545.86                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-17   | 09/27/96      | 3608.48            | (a)               | 59.30               | (a)      | 3549.18                |
|         | 07/23/97      |                    | (a)               | 58.79               | (a)      | 3549.69                |
|         | 08/19/97      |                    | (a)               | 58.94               | (a)      | 3549.54                |
|         | 10/30/97      |                    | (a)               | 58.85               | (a)      | 3549.63                |
|         | 01/26/98      |                    | (a)               | 58.90               | (a)      | 3549.58                |
|         | 05/25/98      |                    | (a)               | 58.83               | (a)      | 3549.65                |
|         | 08/10/98      |                    | (a)               | 58.78               | (a)      | 3549.70                |
|         | 10/11/98      |                    | (a)               | 58.93               | (a)      | 3549.55                |
|         | 12/21/98      |                    | (a)               | 58.97               | (a)      | 3549.51                |
|         | 03/23/99      |                    | (a)               | 58.87               | (a)      | 3549.61                |
|         | 09/07/99      |                    | (a)               | 58.72               | (a)      | 3549.76                |
|         | 03/27/00      |                    | (a)               | 58.56               | (a)      | 3549.92                |
|         | 11/19/00      | 3608.43 (d)        | (a)               | 58.76               | (a)      | 3549.67                |
|         | 02/12/01      |                    | (a)               | 58.55               | (a)      | 3549.88                |
|         | 03/27/01      |                    | (a)               | 58.49               | (a)      | 3549.94                |
|         | 10/03/01      |                    | (a)               | 58.50               | (a)      | 3549.93                |
|         | 06/11/02      |                    | (a)               | 58.45               | (a)      | 3549.98                |
|         | 01/29/03      |                    | (a)               | 58.45               | (a)      | 3549.98                |
|         | 07/31/03      |                    | (a)               | 58.87               | (a)      | 3549.56                |
|         | 03/22/04      |                    | (a)               | 59.15               | (a)      | 3549.28                |
|         | 09/08/04      |                    | (a)               | 59.54               | (a)      | 3548.89                |
|         | 03/29/05      |                    | (a)               | 60.09               | (a)      | 3548.34                |
|         | 10/04/05      |                    | (a)               | 60.45               | (a)      | 3547.98                |
|         | 03/23/06      |                    | (a)               | 60.71               | (a)      | 3547.72                |
|         | 09/19/06      |                    | (a)               | 62.16               | (a)      | 3546.27                |
|         | 03/13/07      |                    | (a)               | 61.54               | (a)      | 3546.89                |
|         | 09/21/07      |                    | (a)               | 61.74               | (a)      | 3546.69                |
|         | 03/04/08      |                    | (a)               | 60.83               | (a)      | 3547.60                |
|         | 09/09/08      |                    | (a)               | 61.55               | (a)      | 3546.88                |
|         | 03/10/09      |                    | (a)               | 61.20               | (a)      | 3547.23                |
|         | 10/08/09      |                    | (a)               | 61.64               | (a)      | 3546.79                |
|         | 03/22/10      |                    | (a)               | 60.95               | (a)      | 3547.48                |
|         | 04/17/11      |                    | (a)               | 61.11               | (a)      | 3547.32                |
|         | 12/22/11      |                    | (a)               | 61.42               | (a)      | 3547.01                |
|         | 04/17/12      |                    | (a)               | 61.43               | (a)      | 3547.00                |
|         | 10/15/12      |                    | (a)               | 61.95               | (a)      | 3546.48                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-18   | 09/27/96      | 3609.73            | (a)               | dry                 | (a)      | NA                     |
|         | 07/23/97      |                    | (a)               | 58.29               | (a)      | 3551.44                |
|         | 08/19/97      |                    | (a)               | 64.81               | (a)      | still recovering       |
|         | 10/30/97      |                    | (a)               | 58.61               | (a)      | 3551.12                |
|         | 01/26/98      |                    | (a)               | 58.60               | (a)      | 3551.13                |
|         | 05/25/98      |                    | (a)               | 58.51               | (a)      | 3551.22                |
|         | 08/10/98      |                    | (a)               | 58.74               | (a)      | 3550.99                |
|         | 10/11/98      |                    | (a)               | 59.02               | (a)      | 3550.71                |
|         | 12/21/98      |                    | (a)               | 58.53               | (a)      | 3551.20                |
|         | 03/23/99      |                    | (a)               | 58.70               | (a)      | 3551.03                |
|         | 09/07/99      |                    | (a)               | 58.48               | (a)      | 3551.25                |
|         | 03/27/00      |                    | (a)               | 58.51               | (a)      | 3551.22                |
|         | 11/19/00      |                    | (a)               | 58.62               | (a)      | 3551.11                |
|         | 02/12/01      |                    | (a)               | 58.58               | (a)      | 3551.15                |
|         | 03/27/01      |                    | (a)               | 58.57               | (a)      | 3551.16                |
|         | 10/03/01      |                    | (a)               | 58.67               | (a)      | 3551.06                |
|         | 06/11/02      |                    | (a)               | 58.63               | (a)      | 3551.10                |
|         | 01/29/03      |                    | (a)               | 58.67               | (a)      | 3551.06                |
|         | 07/31/03      |                    | (a)               | 58.71               | (a)      | 3551.02                |
|         | 03/22/04      |                    | (a)               | 58.78               | (a)      | 3550.95                |
|         | 09/08/04      |                    | (a)               | 58.85               | (a)      | 3550.88                |
|         | 03/29/05      |                    | (a)               | 58.95               | (a)      | 3550.78                |
|         | 10/04/05      |                    | (a)               | 59.09               | (a)      | 3550.64                |
|         | 03/23/06      |                    | (a)               | 59.20               | (a)      | 3550.53                |
|         | 09/19/06      |                    | (a)               | 58.29               | (a)      | 3551.44                |
|         | 03/13/07      |                    | (a)               | 59.43               | (a)      | 3550.30                |
|         | 09/21/07      |                    | (a)               | 59.55               | (a)      | 3550.18                |
|         | 03/04/08      |                    | (a)               | 59.62               | (a)      | 3550.11                |
|         | 09/09/08      |                    | (a)               | 59.68               | (a)      | 3550.05                |
|         | 03/10/09      |                    | (a)               | 59.37               | (a)      | 3550.36                |
|         | 10/08/09      |                    | (a)               | 59.15               | (a)      | 3550.58                |
|         | 03/22/10      |                    | (a)               | 58.95               | (a)      | 3550.78                |
|         | 04/17/11      |                    | (a)               | 59.09               | (a)      | 3550.64                |
|         | 12/22/11      |                    | (a)               | 59.36               | (a)      | 3550.37                |
|         | 04/17/12      |                    | (a)               | 59.43               | (a)      | 3550.30                |
|         | 10/15/12      |                    | (a)               | 59.58               | (a)      | 3550.15                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-19   | 09/27/96      | 3608.17            | (a)               | 57.95               | (a)      | 3550.22                |
|         | 07/23/97      |                    | (a)               | 56.03               | (a)      | 3552.14                |
|         | 08/19/97      |                    | (a)               | 56.20               | (a)      | 3551.97                |
|         | 10/30/97      |                    | (a)               | 56.17               | (a)      | 3552.00                |
|         | 01/26/98      |                    | (a)               | 56.28               | (a)      | 3551.89                |
|         | 05/25/98      |                    | (a)               | 56.29               | (a)      | 3551.88                |
|         | 08/10/98      |                    | (a)               | 56.38               | (a)      | 3551.79                |
|         | 10/11/98      |                    | (a)               | 56.39               | (a)      | 3551.78                |
|         | 12/21/98      |                    | (a)               | 56.41               | (a)      | 3551.76                |
|         | 03/23/99      |                    | (a)               | 56.41               | (a)      | 3551.76                |
|         | 09/07/99      |                    | (a)               | 56.35               | (a)      | 3551.82                |
|         | 03/27/00      |                    | (a)               | 56.37               | (a)      | 3551.80                |
|         | 11/19/00      |                    | (a)               | 56.52               | (a)      | 3551.65                |
|         | 03/27/01      |                    | (a)               | 56.43               | (a)      | 3551.74                |
|         | 10/03/01      |                    | (a)               | 56.50               | (a)      | 3551.67                |
|         | 06/11/02      |                    | (a)               | 56.54               | (a)      | 3551.63                |
|         | 01/29/03      |                    | (a)               | 56.58               | (a)      | 3551.59                |
|         | 07/31/03      |                    | (a)               | 56.59               | (a)      | 3551.58                |
|         | 03/22/04      |                    | (a)               | 56.65               | (a)      | 3551.52                |
|         | 09/08/04      |                    | (a)               | 56.75               | (a)      | 3551.42                |
|         | 03/29/05      |                    | (a)               | 56.90               | (a)      | 3551.27                |
|         | 10/04/05      |                    | (a)               | 56.98               | (a)      | 3551.19                |
|         | 03/23/06      |                    | (a)               | 57.08               | (a)      | 3551.09                |
|         | 09/19/06      |                    | (a)               | 57.07               | (a)      | 3551.10                |
|         | 03/13/07      |                    | (a)               | 57.06               | (a)      | 3551.11                |
|         | 09/21/07      |                    | (a)               | 57.18               | (a)      | 3550.99                |
|         | 03/04/08      |                    | (a)               | 57.08               | (a)      | 3551.09                |
|         | 09/09/08      |                    | (a)               | 58.04               | (a)      | 3550.13                |
|         | 03/10/09      |                    | (a)               | 56.03               | (a)      | 3552.14                |
|         | 10/08/09      |                    | (a)               | 54.63               | (a)      | 3553.54                |
|         | 03/22/10      |                    | (a)               | 54.60               | (a)      | 3553.57                |
|         | 04/17/11      |                    | (a)               | 55.55               | (a)      | 3552.62                |
|         | 12/22/11      |                    | (a)               | 56.12               | (a)      | 3552.05                |
|         | 04/17/12      |                    | (a)               | 56.38               | (a)      | 3551.79                |
|         | 10/15/12      |                    | (a)               | 56.50               | (a)      | 3551.67                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-20   | 08/19/97      | 3600.65            | (a)               | 49.50               | (a)      | 3551.15                |
|         | 10/30/97      |                    | (a)               | 49.47               | (a)      | 3551.18                |
|         | 01/26/98      |                    | (a)               | 49.37               | (a)      | 3551.28                |
|         | 05/25/98      |                    | (a)               | 49.21               | (a)      | 3551.44                |
|         | 08/10/98      |                    | (a)               | 49.41               | (a)      | 3551.24                |
|         | 10/11/98      |                    | (a)               | 49.68               | (a)      | 3550.97                |
|         | 12/21/98      |                    | (a)               | 49.62               | (a)      | 3551.03                |
|         | 03/23/99      |                    | (a)               | 49.38               | (a)      | 3551.27                |
|         | 09/07/99      |                    | (a)               | 48.55               | (a)      | 3552.10                |
|         | 03/27/00      |                    | (a)               | 48.21               | (a)      | 3552.44                |
|         | 11/19/00      |                    | (a)               | 49.10               | (a)      | 3551.55                |
|         | 03/27/01      |                    | (a)               | 48.62               | (a)      | 3552.03                |
|         | 10/03/01      |                    | (a)               | 48.82               | (a)      | 3551.83                |
|         | 06/11/02      |                    | (a)               | 48.98               | (a)      | 3551.67                |
|         | 01/29/03      |                    | (a)               | 49.31               | (a)      | 3551.34                |
|         | 07/31/03      |                    | (a)               | 49.50               | (a)      | 3551.15                |
|         | 03/22/04      |                    | (a)               | 50.35               | (a)      | 3550.30                |
|         | 09/08/04      |                    | (a)               | 51.23               | (a)      | 3549.42                |
|         | 03/29/05      |                    | (a)               | 51.75               | (a)      | 3548.90                |
|         | 10/04/05      |                    | (a)               | 51.95               | (a)      | 3548.70                |
|         | 03/23/06      |                    | (a)               | 52.81               | (a)      | 3547.84                |
|         | 09/19/06      |                    | (a)               | 53.41               | (a)      | 3547.24                |
|         | 03/13/07      |                    | (a)               | 52.11               | (a)      | 3548.54                |
|         | 09/21/07      |                    | (a)               | 51.96               | (a)      | 3548.69                |
|         | 03/04/08      |                    | (a)               | 51.53               | (a)      | 3549.12                |
|         | 09/09/08      |                    | (a)               | 55.17               | (a)      | 3545.48                |
|         | 03/10/09      |                    | (a)               | 52.08               | (a)      | 3548.57                |
|         | 10/08/09      |                    | (a)               | 58.30               | (a)      | 3542.35                |
|         | 10/09/09      |                    | (a)               | 55.57               | (a)      | 3545.08                |
|         | 03/22/10      |                    | (a)               | 52.62               | (a)      | 3548.03                |
|         | 04/17/11      |                    | (a)               | 52.43               | (a)      | 3548.22                |
|         | 12/22/11      |                    | (a)               | 58.35               | (a)      | 3542.30                |
|         | 04/17/12      |                    | (a)               | 53.50               | (a)      | 3547.15                |
|         | 10/15/12      |                    | (a)               | 54.92               | (a)      | 3545.73                |



**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-21   | 08/07/97      | 3612.01            | (a)               | 63.64               | (a)      | 3548.37                |
|         | 10/30/97      |                    | (a)               | 62.58               | (a)      | 3549.43                |
|         | 01/26/98      |                    | (a)               | 62.76               | (a)      | 3549.25                |
|         | 05/25/98      |                    | (a)               | 62.57               | (a)      | 3549.44                |
|         | 08/10/98      |                    | (a)               | 62.47               | (a)      | 3549.54                |
|         | 10/11/98      |                    | (a)               | 62.60               | (a)      | 3549.41                |
|         | 12/21/98      |                    | (a)               | 62.59               | (a)      | 3549.42                |
|         | 03/23/99      |                    | (a)               | 62.50               | (a)      | 3549.51                |
|         | 09/07/99      |                    | (a)               | 62.27               | (a)      | 3549.74                |
|         | 03/27/00      |                    | (a)               | 62.10               | (a)      | 3549.91                |
|         | 11/19/00      | 3611.99 (d)        | (a)               | 62.37               | (a)      | 3549.62                |
|         | 02/12/01      |                    | (a)               | 62.14               | (a)      | 3549.85                |
|         | 03/27/01      |                    | (a)               | 61.99               | (a)      | 3550.00                |
|         | 10/03/01      |                    | (a)               | 61.99               | (a)      | 3550.00                |
|         | 06/11/02      |                    | (a)               | 62.00               | (a)      | 3549.99                |
|         | 01/29/03      |                    | (a)               | 61.96               | (a)      | 3550.03                |
|         | 07/31/03      |                    | (a)               | 61.40               | (a)      | 3550.59                |
|         | 03/22/04      |                    | (a)               | 61.97               | (a)      | 3550.02                |
|         | 09/08/04      |                    | (a)               | 63.10               | (a)      | 3548.89                |
|         | 03/29/05      |                    | (a)               | 63.62               | (a)      | 3548.37                |
|         | 10/05/05      |                    | (a)               | 64.67               | (a)      | 3547.32                |
|         | 03/23/06      |                    | (a)               | 64.85               | (a)      | 3547.14                |
|         | 09/19/06      |                    | (a)               | 65.38               | (a)      | 3546.61                |
|         | 03/13/07      |                    | (a)               | 64.85               | (a)      | 3547.14                |
|         | 09/21/07      |                    | (a)               | 65.20               | (a)      | 3546.79                |
|         | 03/04/08      |                    | (a)               | 64.64               | (a)      | 3547.35                |
|         | 09/09/08      |                    | (a)               | 65.93               | (a)      | 3546.06                |
|         | 03/10/09      |                    | (a)               | 65.43               | (a)      | 3546.56                |
|         | 10/08/09      |                    | (a)               | 66.30               | (a)      | 3545.69                |
|         | 01/26/10      |                    | (a)               | 65.79               | (a)      | 3546.20                |
|         | 03/22/10      |                    | (a)               | 65.31               | (a)      | 3546.68                |
|         | 04/17/11      |                    | (a)               | 65.02               | (a)      | 3546.97                |
|         | 12/22/11      |                    | (a)               | 65.28               | (a)      | 3546.71                |
|         | 04/17/12      |                    | (a)               | 65.44               | (a)      | 3546.55                |
|         | 10/15/12      |                    | (a)               | 65.57               | (a)      | 3546.42                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-22   | 08/19/97      | 3606.04            | (a)               | 55.36               | (a)      | 3550.68                |
|         | 10/30/97      |                    | (a)               | 55.24               | (a)      | 3550.80                |
|         | 01/26/98      |                    | (a)               | 55.19               | (a)      | 3550.85                |
|         | 05/25/98      |                    | (a)               | 54.99               | (a)      | 3551.05                |
|         | 08/10/98      |                    | (a)               | 54.93               | (a)      | 3551.11                |
|         | 10/11/98      |                    | (a)               | 55.09               | (a)      | 3550.95                |
|         | 12/21/98      |                    | (a)               | 55.18               | (a)      | 3550.86                |
|         | 03/23/99      |                    | (a)               | 55.04               | (a)      | 3551.00                |
|         | 09/07/99      |                    | (a)               | 54.72               | (a)      | 3551.32                |
|         | 03/27/00      |                    | (a)               | 54.41               | (a)      | 3551.63                |
|         | 11/19/00      |                    | (a)               | 54.65               | (a)      | 3551.39                |
|         | 03/27/01      |                    | (a)               | 54.36               | (a)      | 3551.68                |
|         | 10/03/01      |                    | (a)               | 54.34               | (a)      | 3551.70                |
|         | 06/11/02      |                    | (a)               | 54.31               | (a)      | 3551.73                |
|         | 01/29/03      |                    | (a)               | 54.35               | (a)      | 3551.69                |
|         | 07/31/03      |                    | (a)               | 54.52               | (a)      | 3551.52                |
|         | 03/22/04      |                    | (a)               | 55.28               | (a)      | 3550.76                |
|         | 09/08/04      |                    | (a)               | 56.25               | (a)      | 3549.79                |
|         | 03/29/05      |                    | (a)               | 56.52               | (a)      | 3549.52                |
|         | 10/04/05      |                    | (a)               | 56.83               | (a)      | 3549.21                |
|         | 03/23/06      |                    | (a)               | 57.43               | (a)      | 3548.61                |
|         | 09/19/06      |                    | (a)               | 57.65               | (a)      | 3548.39                |
|         | 03/13/07      |                    | (a)               | 57.10               | (a)      | 3548.94                |
|         | 09/21/07      |                    | (a)               | 57.07               | (a)      | 3548.97                |
|         | 03/04/08      |                    | (a)               | 56.83               | (a)      | 3549.21                |
|         | 09/09/08      |                    | (a)               | 57.70               | (a)      | 3548.34                |
|         | 03/10/09      |                    | (a)               | 57.14               | (a)      | 3548.90                |
|         | 10/08/09      |                    | (a)               | 58.25               | (a)      | 3547.79                |
|         | 03/22/10      |                    | (a)               | 57.33               | (a)      | 3548.71                |
|         | 04/17/11      |                    | (a)               | 57.38               | (a)      | 3548.66                |
|         | 12/22/11      |                    | (a)               | 58.65               | (a)      | 3547.39                |
|         | 04/17/12      |                    | (a)               | 57.88               | (a)      | 3548.16                |
|         | 10/15/12      |                    | (a)               | 58.93               | (a)      | 3547.11                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-26   | 10/11/98      | 3597.75 (c)        | (a)               | 47.31               | (a)      | 3550.44                |
|         | 10/29/98      |                    | (a)               | 47.53               | (a)      | 3550.22                |
|         | 12/21/98      |                    | (a)               | 47.24               | (a)      | 3550.51                |
|         | 03/23/99      |                    | (a)               | 46.86               | (a)      | 3550.89                |
|         | 09/07/99      |                    | (a)               | 46.07               | (a)      | 3551.68                |
|         | 03/27/00      |                    | (a)               | 45.70               | (a)      | 3552.05                |
|         | 11/19/00      |                    | (a)               | 46.83               | (a)      | 3550.92                |
|         | 03/27/01      |                    | (a)               | 46.23               | (a)      | 3551.52                |
|         | 10/03/01      |                    | (a)               | 46.58               | (a)      | 3551.17                |
|         | 06/11/02      |                    | (a)               | 46.71               | (a)      | 3551.04                |
|         | 01/29/03      |                    | (a)               | 47.21               | (a)      | 3550.54                |
|         | 07/31/03      |                    | (a)               | 47.55               | (a)      | 3550.20                |
|         | 03/22/04      |                    | (a)               | 48.21               | (a)      | 3549.54                |
|         | 09/08/04      |                    | (a)               | 49.04               | (a)      | 3548.71                |
|         | 03/29/05      |                    | (a)               | 49.40               | (a)      | 3548.35                |
|         | 10/04/05      |                    | (a)               | 49.76               | (a)      | 3547.99                |
|         | 03/23/06      |                    | (a)               | 50.28               | (a)      | 3547.47                |
|         | 09/19/06      |                    | (a)               | 51.05               | (a)      | 3546.70                |
|         | 03/13/07      |                    | (a)               | 50.15               | (a)      | 3547.60                |
|         | 09/21/07      |                    | (a)               | 50.02               | (a)      | 3547.73                |
|         | 03/04/08      |                    | (a)               | 49.53               | (a)      | 3548.22                |
|         | 09/09/08      |                    | (a)               | 51.86               | (a)      | 3545.89                |
|         | 03/10/09      |                    | (a)               | 50.11               | (a)      | 3547.64                |
|         | 10/08/09      |                    | (a)               | 52.35               | (a)      | 3545.40                |
|         | 03/22/10      |                    | (a)               | 50.52               | (a)      | 3547.23                |
|         | 04/17/11      |                    | (a)               | 50.45               | (a)      | 3547.30                |
|         | 12/22/11      |                    | (a)               | 51.70               | (a)      | 3546.05                |
|         | 04/17/12      |                    | (a)               | 51.24               | (a)      | 3546.51                |
|         | 10/15/12      |                    | (a)               | 52.55               | (a)      | 3545.20                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-27   | 10/11/98      | 3615.11 (c)        | 64.85             | 68.00               | 3.15     | 3549.50                |
|         | 12/21/98      |                    | 64.83             | 68.03               | 3.20     | 3549.51                |
|         | 03/23/99      |                    | 64.78             | 67.91               | 3.13     | 3549.58                |
|         | 09/07/99      | 3615.11 (d)        | 64.53             | 67.67               | 3.14     | 3549.83                |
|         | 03/27/00      |                    | 64.40             | 67.53               | 3.13     | 3549.96                |
|         | 11/19/00      |                    | 64.59             | 67.51               | 2.92     | 3549.82                |
|         | 02/12/01      |                    | 64.40             | 67.53               | 3.13     | 3549.96                |
|         | 03/27/01      |                    | 64.28             | 67.57               | 3.29     | 3550.04                |
|         | 10/03/01*     |                    | 64.17             | 67.39               | 3.22     | 3550.17                |
|         | 06/11/02      |                    | 64.18             | 67.23               | 3.05     | 3550.20                |
|         | 01/29/03      |                    | 64.20             | 67.30               | 3.10     | 3550.17                |
|         | 07/31/03      |                    | 64.58             | 67.43               | 2.85     | 3549.85                |
|         | 03/22/04      |                    | 65.14             | 67.95               | 2.81     | 3549.30                |
|         | 09/08/04      |                    | 65.90             | 69.62               | 3.72     | 3548.32                |
|         | 03/29/05      |                    | 66.57             | 68.87               | 2.30     | 3547.99                |
|         | 10/05/05      |                    | 67.11             | 70.30               | 3.19     | 3547.23                |
|         | 03/23/06      |                    | 67.39             | 69.55               | 2.16     | 3547.20                |
|         | 09/19/06      |                    | 67.75             | 70.43               | 2.68     | 3546.72                |
|         | 03/13/07      |                    | 67.80             | 68.12               | 0.32     | 3547.23                |
|         | 09/21/07      |                    | 67.90             | 68.44               | 0.54     | 3547.08                |
|         | 03/04/08      |                    | 67.75             | 68.11               | 0.36     | 3547.27                |
|         | 09/09/08      |                    | 67.85             | 68.28               | 0.43     | 3547.16                |
|         | 03/10/09      |                    | 67.85             | 68.18               | 0.33     | 3547.18                |
|         | 10/08/09      |                    | 68.38             | 68.89               | 0.51     | 3546.61                |
|         | 01/26/10      |                    | 68.48             | 68.88               | 0.40     | 3546.53                |
|         | 03/22/10      |                    | 68.31             | 68.73               | 0.42     | 3546.70                |
|         | 04/17/11      |                    | 68.10             | 68.26               | 0.16     | 3546.97                |
|         | 12/22/11      |                    | 68.21             | 68.35               | 0.14     | 3546.87                |
|         | 04/17/12      |                    | 67.38             | 67.52               | 0.14     | 3547.70                |
|         | 10/15/12      |                    | 68.31             | 68.54               | 0.23     | 3546.74                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-28   | 11/19/00      | 3615.90 (d)        | (a)               | 65.91               | (a)      | 3549.99                |
|         | 02/12/01      |                    | (a)               | 65.84               | (a)      | 3550.06                |
|         | 03/27/01      |                    | (a)               | 65.77               | (a)      | 3550.13                |
|         | 10/03/01      |                    | (a)               | 65.75               | (a)      | 3550.15                |
|         | 06/11/02      |                    | (a)               | 65.68               | (a)      | 3550.22                |
|         | 01/29/03      |                    | (a)               | 65.64               | (a)      | 3550.26                |
|         | 07/31/03      |                    | (a)               | 65.83               | (a)      | 3550.07                |
|         | 03/22/04      |                    | (a)               | 66.35               | (a)      | 3549.55                |
|         | 09/08/04      |                    | (a)               | 66.85               | (a)      | 3549.05                |
|         | 03/29/05      |                    | (a)               | 67.35               | (a)      | 3548.55                |
|         | 10/05/05      |                    | (a)               | 67.83               | (a)      | 3548.07                |
|         | 03/23/06      |                    | (a)               | 68.03               | (a)      | 3547.87                |
|         | 09/19/06      |                    | (a)               | 68.41               | (a)      | 3547.49                |
|         | 03/13/07      |                    | (a)               | 68.35               | (a)      | 3547.55                |
|         | 09/21/07      |                    | (a)               | 68.51               | (a)      | 3547.39                |
|         | 03/04/08      |                    | (a)               | 68.20               | (a)      | 3547.70                |
|         | 09/09/08      |                    | (a)               | 68.60               | (a)      | 3547.30                |
|         | 03/10/09      |                    | (a)               | 68.70               | (a)      | 3547.20                |
|         | 10/08/09      |                    | (a)               | 68.94               | (a)      | 3546.96                |
|         | 03/22/10      |                    | (a)               | 68.71               | (a)      | 3547.19                |
|         | 04/17/11      |                    | (a)               | 68.95               | (a)      | 3546.95                |
|         | 12/22/11      |                    | (a)               | 69.01               | (a)      | 3546.89                |
|         | 04/17/12      |                    | (a)               | 69.20               | (a)      | 3546.70                |
|         | 10/15/12      |                    | (a)               | 69.30               | (a)      | 3546.60                |
| MW-29   | 11/19/00      | 3613.54 (d)        | (a)               | 64.85               | (a)      | 3548.69                |
|         | 02/12/01      |                    | (a)               | 64.61               | (a)      | 3548.93                |
|         | 03/27/01      |                    | (a)               | 64.47               | (a)      | 3549.07                |
|         | 10/03/01      |                    | (a)               | 64.51               | (a)      | 3549.03                |
|         | 06/11/02      |                    | (a)               | 64.67               | (a)      | 3548.87                |
|         | 01/29/03      |                    | (a)               | 64.80               | (a)      | 3548.74                |
|         | 07/31/03      |                    | (a)               | 65.05               | (a)      | 3548.49                |
|         | 03/22/04      |                    | (a)               | 65.44               | (a)      | 3548.10                |
|         | 09/08/04      |                    | (a)               | 65.91               | (a)      | 3547.63                |
|         | 03/29/05      |                    | (a)               | 66.13               | (a)      | 3547.41                |
|         | 10/05/05      |                    | (a)               | 66.61               | (a)      | 3546.93                |
|         | 03/23/06      |                    | (a)               | 66.68               | (a)      | 3546.86                |
|         | 09/19/06      |                    | (a)               | 67.63               | (a)      | 3545.91                |
|         | 03/13/07      |                    | (a)               | 67.60               | (a)      | 3545.94                |
|         | 09/21/07      |                    | (a)               | 67.68               | (a)      | 3545.86                |
|         | 03/04/08      |                    | (a)               | 67.23               | (a)      | 3546.31                |
|         | 09/09/08      |                    | (a)               | 68.47               | (a)      | 3545.07                |
|         | 03/10/09      |                    | (a)               | 67.86               | (a)      | 3545.68                |
|         | 10/08/09      |                    | (a)               | 68.82               | (a)      | 3544.72                |
|         | 03/22/10      |                    | (a)               | 68.04               | (a)      | 3545.50                |
|         | 04/17/11      |                    | (a)               | 67.78               | (a)      | 3545.76                |
|         | 12/22/11      |                    | (a)               | 68.15               | (a)      | 3545.39                |
|         | 04/17/12      |                    | (a)               | 68.41               | (a)      | 3545.13                |
|         | 10/15/12      |                    | (a)               | 68.10               | (a)      | 3545.44                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-30   | 11/19/00      | 3612.63 (d)        | (a)               | 63.27               | (a)      | 3549.36                |
|         | 02/12/01      |                    | (a)               | 62.96               | (a)      | 3549.67                |
|         | 03/27/01      |                    | (a)               | 62.88               | (a)      | 3549.75                |
|         | 10/03/01      |                    | (a)               | 62.79               | (a)      | 3549.84                |
|         | 06/11/02      |                    | (a)               | 62.75               | (a)      | 3549.88                |
|         | 01/29/03      |                    | (a)               | 62.75               | (a)      | 3549.88                |
|         | 07/31/03      |                    | (a)               | 62.93               | (a)      | 3549.70                |
|         | 03/22/04      |                    | (a)               | 63.37               | (a)      | 3549.26                |
|         | 09/08/04      |                    | (a)               | 63.79               | (a)      | 3548.84                |
|         | 03/29/05      |                    | (a)               | 64.30               | (a)      | 3548.33                |
|         | 10/05/05      |                    | (a)               | 64.96               | (a)      | 3547.67                |
|         | 03/23/06      |                    | (a)               | 64.95               | (a)      | 3547.68                |
|         | 09/19/06      |                    | (a)               | 65.29               | (a)      | 3547.34                |
|         | 03/13/07      |                    | (a)               | 65.38               | (a)      | 3547.25                |
|         | 09/21/07      |                    | (a)               | 65.53               | (a)      | 3547.10                |
|         | 03/04/08      |                    | (a)               | 65.36               | (a)      | 3547.27                |
|         | 09/08/08      |                    | (a)               | 65.65               | (a)      | 3546.98                |
|         | 09/09/08      |                    | (a)               | 65.65               | (a)      | 3546.98                |
|         | 03/10/09      |                    | (a)               | 65.83               | (a)      | 3546.80                |
|         | 10/08/09      |                    | (a)               | 65.97               | (a)      | 3546.66                |
|         | 03/22/10      |                    | (a)               | 65.81               | (a)      | 3546.82                |
|         | 04/17/11      |                    | (a)               | 66.13               | (a)      | 3546.50                |
|         | 12/22/11      |                    | (a)               | 66.20               | (a)      | 3546.43                |
|         | 04/17/12      |                    | (a)               | 66.30               | (a)      | 3546.33                |
|         | 10/15/12      |                    | (a)               | 66.48               | (a)      | 3546.15                |
| MW-31   | 10/03/01      | 3611.59 (e)        | (a)               | 62.37               | (a)      | 3549.22                |
|         | 06/11/02      |                    | (a)               | 62.41               | (a)      | 3549.18                |
|         | 01/29/03      |                    | (a)               | 62.30               | (a)      | 3549.29                |
|         | 07/31/03      |                    | (a)               | 62.38               | (a)      | 3549.21                |
|         | 03/22/04      |                    | (a)               | 62.51               | (a)      | 3549.08                |
|         | 09/08/04      |                    | (a)               | 62.75               | (a)      | 3548.84                |
|         | 03/29/05      |                    | (a)               | 62.91               | (a)      | 3548.68                |
|         | 10/05/05      |                    | (a)               | 63.13               | (a)      | 3548.46                |
|         | 03/23/06      |                    | (a)               | 63.37               | (a)      | 3548.22                |
|         | 09/19/06      |                    | (a)               | 63.47               | (a)      | 3548.12                |
|         | 03/13/07      |                    | (a)               | 63.48               | (a)      | 3548.11                |
|         | 09/21/07      |                    | (a)               | 63.71               | (a)      | 3547.88                |
|         | 03/04/08      |                    | (a)               | 63.62               | (a)      | 3547.97                |
|         | 09/09/08      |                    | (a)               | 63.93               | (a)      | 3547.66                |
|         | 03/10/09      |                    | (a)               | 64.08               | (a)      | 3547.51                |
|         | 10/08/09      |                    | (a)               | 64.27               | (a)      | 3547.32                |
|         | 03/22/10      |                    | (a)               | 64.04               | (a)      | 3547.55                |
|         | 04/17/11      |                    | (a)               | 64.32               | (a)      | 3547.27                |
|         | 12/22/11      |                    | (a)               | 64.37               | (a)      | 3547.22                |
|         | 04/17/12      |                    | (a)               | 64.73               | (a)      | 3546.86                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-32   | 10/03/01      | 3608.73 (e)        | (a)               | 60.65               | (a)      | 3548.08                |
|         | 06/11/02      |                    | (a)               | 60.75               | (a)      | 3547.98                |
|         | 01/29/03      |                    | (a)               | 61.05               | (a)      | 3547.68                |
|         | 07/31/03      |                    | (a)               | 61.30               | (a)      | 3547.43                |
|         | 03/22/04      |                    | (a)               | 61.66               | (a)      | 3547.07                |
|         | 09/08/04      |                    | (a)               | 62.09               | (a)      | 3546.64                |
|         | 03/29/05      |                    | (a)               | 62.03               | (a)      | 3546.70                |
|         | 10/05/05      |                    | (a)               | 62.78               | (a)      | 3545.95                |
|         | 03/23/06      |                    | (a)               | 62.62               | (a)      | 3546.11                |
|         | 09/19/06      |                    | (a)               | 63.18               | (a)      | 3545.55                |
|         | 03/13/07      |                    | (a)               | 63.52               | (a)      | 3545.21                |
|         | 09/21/07      |                    | (a)               | 64.11               | (a)      | 3544.62                |
|         | 03/04/08      |                    | (a)               | 63.75               | (a)      | 3544.98                |
|         | 09/09/08      |                    | (a)               | 65.94               | (a)      | 3542.79                |
|         | 03/10/09      |                    | (a)               | 65.01               | (a)      | 3543.72                |
|         | 10/08/09      |                    | (a)               | 66.29               | (a)      | 3542.44                |
|         | 03/22/10      |                    | (a)               | 65.44               | (a)      | 3543.29                |
|         | 04/17/11      |                    | (a)               | 65.15               | (a)      | 3543.58                |
|         | 12/22/11      |                    | (a)               | 65.42               | (a)      | 3543.31                |
|         | 04/17/12      |                    | (a)               | 66.03               | (a)      | 3542.70                |
|         | 10/15/12      |                    | (a)               | 65.59               | (a)      | 3543.14                |
| MW-33   | 10/03/01      | 3610.55 (e)        | (a)               | 61.87               | (a)      | 3548.68                |
|         | 06/11/02      |                    | (a)               | 61.85               | (a)      | 3548.70                |
|         | 01/29/03      |                    | (a)               | 61.83               | (a)      | 3548.72                |
|         | 07/31/03      |                    | (a)               | 61.95               | (a)      | 3548.60                |
|         | 03/22/04      |                    | (a)               | 62.19               | (a)      | 3548.36                |
|         | 09/08/04      |                    | (a)               | 62.41               | (a)      | 3548.14                |
|         | 03/29/05      |                    | (a)               | 62.66               | (a)      | 3547.89                |
|         | 10/05/05      |                    | (a)               | 62.87               | (a)      | 3547.68                |
|         | 03/23/06      |                    | (a)               | 63.06               | (a)      | 3547.49                |
|         | 09/19/06      |                    | (a)               | 63.21               | (a)      | 3547.34                |
|         | 03/13/07      |                    | (a)               | 63.27               | (a)      | 3547.28                |
|         | 09/21/07      |                    | (a)               | 63.45               | (a)      | 3547.10                |
|         | 03/04/08      |                    | (a)               | 63.46               | (a)      | 3547.09                |
|         | 09/09/08      |                    | (a)               | 63.66               | (a)      | 3546.89                |
|         | 03/10/09      |                    | (a)               | 63.81               | (a)      | 3546.74                |
|         | 10/08/09      |                    | (a)               | 63.95               | (a)      | 3546.60                |
|         | 03/22/10      |                    | (a)               | 63.94               | (a)      | 3546.61                |
|         | 04/17/11      |                    | (a)               | 64.28               | (a)      | 3546.27                |
|         | 12/22/11      |                    | (a)               | 64.42               | (a)      | 3546.13                |
|         | 04/17/12      |                    | (a)               | 64.57               | (a)      | 3545.98                |
|         | 10/15/12      |                    | (a)               | 64.63               | (a)      | 3545.92                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-34   | 01/29/03      | 3605.05 (f)        | (a)               | 57.63               | (a)      | 3547.42                |
|         | 07/31/03      |                    | (a)               | 57.96               | (a)      | 3547.09                |
|         | 03/22/04      |                    | (a)               | 58.36               | (a)      | 3546.69                |
|         | 09/08/04      |                    | (a)               | 58.74               | (a)      | 3546.31                |
|         | 03/29/05      |                    | (a)               | 58.81               | (a)      | 3546.24                |
|         | 10/05/05      |                    | (a)               | 59.40               | (a)      | 3545.65                |
|         | 03/23/06      |                    | (a)               | 59.51               | (a)      | 3545.54                |
|         | 09/19/06      |                    | (a)               | 60.05               | (a)      | 3545.00                |
|         | 03/13/07      |                    | (a)               | 60.12               | (a)      | 3544.93                |
|         | 09/21/07      |                    | (a)               | 60.61               | (a)      | 3544.44                |
|         | 03/04/08      |                    | (a)               | 60.23               | (a)      | 3544.82                |
|         | 09/09/08      |                    | (a)               | 62.09               | (a)      | 3542.96                |
|         | 03/10/09      |                    | (a)               | 61.57               | (a)      | 3543.48                |
|         | 10/08/09      |                    | (a)               | 62.61               | (a)      | 3542.44                |
|         | 03/22/10      |                    | (a)               | 61.93               | (a)      | 3543.12                |
|         | 04/17/11      |                    | (a)               | 61.98               | (a)      | 3543.07                |
|         | 12/22/11      |                    | (a)               | 62.49               | (a)      | 3542.56                |
|         | 04/17/12      |                    | (a)               | 62.77               | (a)      | 3542.28                |
|         | 10/15/12      |                    | (a)               | 62.80               | (a)      | 3542.25                |
| MW-35   | 01/29/03      | 3601.87 (f)        | (a)               | 54.56               | (a)      | 3547.31                |
|         | 07/31/03      |                    | (a)               | 54.93               | (a)      | 3546.94                |
|         | 03/22/04      |                    | (a)               | 55.29               | (a)      | 3546.58                |
|         | 09/08/04      |                    | (a)               | 55.73               | (a)      | 3546.14                |
|         | 03/29/05      |                    | (a)               | 55.69               | (a)      | 3546.18                |
|         | 10/05/05      |                    | (a)               | 56.38               | (a)      | 3545.49                |
|         | 03/23/06      |                    | (a)               | 56.50               | (a)      | 3545.37                |
|         | 09/19/06      |                    | (a)               | 57.04               | (a)      | 3544.83                |
|         | 03/13/07      |                    | (a)               | 56.97               | (a)      | 3544.90                |
|         | 09/21/07      |                    | (a)               | 57.48               | (a)      | 3544.39                |
|         | 03/04/08      |                    | (a)               | 57.11               | (a)      | 3544.76                |
|         | 09/09/08      |                    | (a)               | 58.69               | (a)      | 3543.18                |
|         | 03/10/09      |                    | (a)               | 58.40               | (a)      | 3543.47                |
|         | 10/08/09      |                    | (a)               | 59.42               | (a)      | 3542.45                |
|         | 03/22/10      |                    | (a)               | 58.85               | (a)      | 3543.02                |
|         | 04/17/11      |                    | (a)               | 58.89               | (a)      | 3542.98                |
|         | 12/22/11      |                    | (a)               | 59.60               | (a)      | 3542.27                |
|         | 04/17/12      |                    | (a)               | 59.76               | (a)      | 3542.11                |
|         | 10/15/12      |                    | (a)               | 59.91               | (a)      | 3541.96                |



**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-36   | 03/22/04      | 3601.97 (g)        | (a)               | 54.72               | (a)      | 3547.25                |
|         | 09/08/04      |                    | (a)               | 55.02               | (a)      | 3546.95                |
|         | 03/29/05      |                    | (a)               | 55.14               | (a)      | 3546.83                |
|         | 10/05/05      |                    | (a)               | 55.60               | (a)      | 3546.37                |
|         | 03/23/06      |                    | (a)               | 55.93               | (a)      | 3546.04                |
|         | 09/19/06      |                    | (a)               | 56.28               | (a)      | 3545.69                |
|         | 03/13/07      |                    | (a)               | 56.30               | (a)      | 3545.67                |
|         | 09/21/07      |                    | (a)               | 56.61               | (a)      | 3545.36                |
|         | 03/04/08      |                    | (a)               | 56.49               | (a)      | 3545.48                |
|         | 09/09/08      |                    | (a)               | 57.26               | (a)      | 3544.71                |
|         | 03/10/09      |                    | (a)               | 57.51               | (a)      | 3544.46                |
|         | 10/08/09      |                    | (a)               | 58.05               | (a)      | 3543.92                |
|         | 03/22/10      |                    | (a)               | 57.99               | (a)      | 3543.98                |
|         | 04/17/11      |                    | (a)               | 58.21               | (a)      | 3543.76                |
|         | 12/22/11      |                    | (a)               | 58.58               | (a)      | 3543.39                |
|         | 04/17/12      |                    | (a)               | 58.79               | (a)      | 3543.18                |
|         | 10/15/12      |                    | (a)               | 59.00               | (a)      | 3542.97                |
| MW-37   | 03/22/04      | 3599.86 (g)        | (a)               | 53.45               | (a)      | 3546.41                |
|         | 09/08/04      |                    | (a)               | 53.82               | (a)      | 3546.04                |
|         | 03/29/05      |                    | (a)               | 53.81               | (a)      | 3546.05                |
|         | 10/05/05      |                    | (a)               | 54.46               | (a)      | 3545.40                |
|         | 03/23/06      |                    | (a)               | 54.59               | (a)      | 3545.27                |
|         | 09/19/06      |                    | (a)               | 55.21               | (a)      | 3544.65                |
|         | 03/13/07      |                    | (a)               | 55.09               | (a)      | 3544.77                |
|         | 09/21/07      |                    | (a)               | 55.59               | (a)      | 3544.27                |
|         | 03/04/08      |                    | (a)               | 55.21               | (a)      | 3544.65                |
|         | 09/09/08      |                    | (a)               | 56.78               | (a)      | 3543.08                |
|         | 03/10/09      |                    | (a)               | 56.53               | (a)      | 3543.33                |
|         | 10/08/09      |                    | (a)               | 57.46               | (a)      | 3542.40                |
|         | 03/22/10      |                    | (a)               | 56.98               | (a)      | 3542.88                |
|         | 04/17/11      |                    | (a)               | 57.06               | (a)      | 3542.80                |
|         | 12/22/11      |                    | (a)               | 57.58               | (a)      | 3542.28                |
|         | 04/17/12      |                    | (a)               | 57.88               | (a)      | 3541.98                |
|         | 10/15/12      |                    | (a)               | 58.18               | (a)      | 3541.68                |
| MW-38   | 03/22/04      | 3598.11 (g)        | (a)               | 43.80               | (a)      | 3554.31                |
|         | 09/08/04      |                    | (a)               | 45.11               | (a)      | 3553.00                |
|         | 03/29/05      |                    | (a)               | 45.06               | (a)      | 3553.05                |
|         | 10/05/05      |                    | (a)               | 48.18               | (a)      | 3549.93                |
|         | 03/23/06      |                    | (a)               | 46.38               | (a)      | 3551.73                |
|         | 09/19/06      |                    | (a)               | 44.25               | (a)      | 3553.86                |
|         | 03/13/07      |                    | (a)               | 43.30               | (a)      | 3554.81                |
|         | 09/21/07      |                    | (a)               | 41.54               | (a)      | 3556.57                |
|         | 03/04/08      |                    | (a)               | 42.48               | (a)      | 3555.63                |
|         | 09/09/08      |                    | (a)               | 44.75               | (a)      | 3553.36                |
|         | 03/10/09      |                    | (a)               | 45.91               | (a)      | 3552.20                |
|         | 10/08/09      |                    | (a)               | 46.07               | (a)      | 3552.04                |
|         | 03/22/10      |                    | (a)               | 47.01               | (a)      | 3551.10                |
|         | 04/17/11      |                    | (a)               | 46.37               | (a)      | 3551.74                |
|         | 12/22/11      |                    | (a)               | 48.05               | (a)      | 3550.06                |
|         | 04/17/12      |                    | (a)               | 48.40               | (a)      | 3549.71                |
|         | 10/15/12      |                    | (a)               | 49.22               | (a)      | 3548.89                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-23 D | 08/19/97      | 3605.16            | (a)               | 62.05               | (a)      | 3543.11                |
|         | 10/30/97      |                    | (a)               | 59.11               | (a)      | 3546.05                |
|         | 01/26/98      |                    | (a)               | 56.19               | (a)      | 3548.97                |
|         | 05/06/98      | 3605.23 (b)        | (a)               | 59.01               | (a)      | 3546.22                |
|         | 05/07/98      |                    | (a)               | 59.08               | (a)      | 3546.15                |
|         | 05/25/98      |                    | (a)               | 60.35               | (a)      | 3544.88                |
|         | 08/10/98      |                    | (a)               | 63.46               | (a)      | 3541.77                |
|         | 10/11/98      | 3605.00 (c)        | (a)               | 61.26               | (a)      | 3543.74                |
|         | 10/19/98      |                    | (a)               | 60.92               | (a)      | 3544.08                |
|         | 12/21/98      |                    | (a)               | 57.68               | (a)      | 3547.32                |
|         | 03/23/99      |                    | (a)               | 56.42               | (a)      | 3548.58                |
|         | 09/07/99      |                    | (a)               | 61.13               | (a)      | 3543.87                |
|         | 03/27/00      |                    | (a)               | 57.14               | (a)      | 3547.86                |
|         | 11/19/00      |                    | (a)               | 59.80               | (a)      | 3545.20                |
|         | 03/27/01      |                    | (a)               | 56.89               | (a)      | 3548.11                |
|         | 10/03/01      |                    | (a)               | 62.57               | (a)      | 3542.43                |
|         | 06/11/02      |                    | (a)               | 62.93               | (a)      | 3542.07                |
|         | 01/29/03      |                    | (a)               | 59.51               | (a)      | 3545.49                |
|         | 07/31/03      |                    | (a)               | 66.97               | (a)      | 3538.03                |
|         | 03/22/04      |                    | (a)               | 62.15               | (a)      | 3542.85                |
|         | 09/08/04      |                    | (a)               | 67.11               | (a)      | 3537.89                |
|         | 03/29/05      |                    | (a)               | 61.75               | (a)      | 3543.25                |
|         | 10/04/05      |                    | (a)               | 67.34               | (a)      | 3537.66                |
|         | 03/23/06      |                    | (a)               | 64.32               | (a)      | 3540.68                |
|         | 09/19/06      |                    | (a)               | 67.23               | (a)      | 3537.77                |
|         | 03/13/07      |                    | (a)               | 62.70               | (a)      | 3542.30                |
|         | 09/21/07      |                    | (a)               | 67.03               | (a)      | 3537.97                |
|         | 03/04/08      |                    | (a)               | 63.47               | (a)      | 3541.53                |
|         | 09/09/08      |                    | (a)               | 69.47               | (a)      | 3535.53                |
|         | 03/10/09      |                    | (a)               | 65.10               | (a)      | 3539.90                |
|         | 10/08/09      |                    | (a)               | 70.13               | (a)      | 3534.87                |
|         | 03/22/10      |                    | (a)               | 65.02               | (a)      | 3539.98                |
|         | 04/17/11      |                    | (a)               | 67.84               | (a)      | 3537.16                |
|         | 12/22/11      |                    | (a)               | 69.16               | (a)      | 3535.84                |
|         | 04/17/12      |                    | (a)               | 70.45               | (a)      | 3534.55                |
|         | 10/15/12      |                    | (a)               | 74.06               | (a)      | 3530.94                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-24 D | 10/11/98      | 3595.95 (c)        | (a)               | 52.70               | (a)      | 3543.25                |
|         | 10/19/98      |                    | (a)               | 52.39               | (a)      | 3543.56                |
|         | 10/29/98      |                    | (a)               | 51.51               | (a)      | 3544.44                |
|         | 12/21/98      |                    | (a)               | 49.24               | (a)      | 3546.71                |
|         | 03/23/99      |                    | (a)               | 47.80               | (a)      | 3548.15                |
|         | 09/07/99      |                    | (a)               | 52.21               | (a)      | 3543.74                |
|         | 03/27/00      |                    | (a)               | 48.19               | (a)      | 3547.76                |
|         | 11/19/00      |                    | (a)               | 51.19               | (a)      | 3544.76                |
|         | 03/27/01      |                    | (a)               | 48.07               | (a)      | 3547.88                |
|         | 10/03/01      |                    | (a)               | 53.99               | (a)      | 3541.96                |
|         | 06/11/02      |                    | (a)               | 53.81               | (a)      | 3542.14                |
|         | 01/29/03      |                    | (a)               | 50.73               | (a)      | 3545.22                |
|         | 07/31/03      |                    | (a)               | 57.65               | (a)      | 3538.30                |
|         | 03/22/04      |                    | (a)               | 53.20               | (a)      | 3542.75                |
|         | 09/08/04      |                    | (a)               | 58.11               | (a)      | 3537.84                |
|         | 03/29/05      |                    | (a)               | 52.70               | (a)      | 3543.25                |
|         | 10/04/05      |                    | (a)               | 57.99               | (a)      | 3537.96                |
|         | 03/23/06      |                    | (a)               | 55.11               | (a)      | 3540.84                |
|         | 09/19/06      |                    | (a)               | 57.88               | (a)      | 3538.07                |
|         | 03/13/07      |                    | (a)               | 53.75               | (a)      | 3542.20                |
|         | 09/21/07      |                    | (a)               | 57.90               | (a)      | 3538.05                |
|         | 03/04/08      |                    | (a)               | 54.57               | (a)      | 3541.38                |
|         | 09/09/08      |                    | (a)               | 60.44               | (a)      | 3535.51                |
|         | 03/10/09      |                    | (a)               | 56.62               | (a)      | 3539.33                |
|         | 10/08/09      |                    | (a)               | 61.13               | (a)      | 3534.82                |
|         | 03/22/10      |                    | (a)               | 56.22               | (a)      | 3539.73                |
|         | 04/17/11      |                    | (a)               | 58.73               | (a)      | 3537.22                |
|         | 12/22/11      |                    | (a)               | 60.28               | (a)      | 3535.67                |
|         | 04/17/12      |                    | (a)               | 61.39               | (a)      | 3534.56                |
|         | 10/15/12      |                    | (a)               | 65.33               | (a)      | 3530.62                |

**Table 1. Summary of Groundwater Surface Elevations  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MW-25 D | 10/11/98      | 3592.99 (c)        | (a)               | 48.59               | (a)      | 3544.40                |
|         | 10/19/98      |                    | (a)               | 48.55               | (a)      | 3544.44                |
|         | 10/29/98      |                    | (a)               | 48.19               | (a)      | 3544.80                |
|         | 12/21/98      |                    | (a)               | 47.01               | (a)      | 3545.98                |
|         | 03/23/99      |                    | (a)               | 45.42               | (a)      | 3547.57                |
|         | 09/07/99      |                    | (a)               | 46.46               | (a)      | 3546.53                |
|         | 03/27/00      |                    | (a)               | 44.73               | (a)      | 3548.26                |
|         | 11/19/00      |                    | (a)               | 47.96               | (a)      | 3545.03                |
|         | 03/27/01      |                    | (a)               | 45.36               | (a)      | 3547.63                |
|         | 10/03/01      |                    | (a)               | 48.48               | (a)      | 3544.51                |
|         | 06/11/02      |                    | (a)               | 47.65               | (a)      | 3545.34                |
|         | 01/29/03      |                    | (a)               | 47.94               | (a)      | 3545.05                |
|         | 07/31/03      |                    | (a)               | 50.63               | (a)      | 3542.36                |
|         | 03/22/04      |                    | (a)               | 49.41               | (a)      | 3543.58                |
|         | 09/08/04      |                    | (a)               | 52.55               | (a)      | 3540.44                |
|         | 03/29/05      |                    | (a)               | 49.31               | (a)      | 3543.68                |
|         | 10/04/05      |                    | (a)               | 53.14               | (a)      | 3539.85                |
|         | 03/23/06      |                    | (a)               | 51.05               | (a)      | 3541.94                |
|         | 09/19/06      |                    | (a)               | 54.13               | (a)      | 3538.86                |
|         | 03/13/07      |                    | (a)               | 50.55               | (a)      | 3542.44                |
|         | 09/21/07      |                    | (a)               | 53.03               | (a)      | 3539.96                |
|         | 03/04/08      |                    | (a)               | 51.05               | (a)      | 3541.94                |
|         | 09/09/08      |                    | (a)               | 55.20               | (a)      | 3537.79                |
|         | 03/10/09      |                    | (a)               | 52.59               | (a)      | 3540.40                |
|         | 10/08/09      |                    | (a)               | 56.59               | (a)      | 3536.40                |
|         | 03/22/10      |                    | (a)               | 52.89               | (a)      | 3540.10                |
|         | 04/17/11      |                    | (a)               | 53.83               | (a)      | 3539.16                |
|         | 12/22/11      |                    | (a)               | 52.55               | (a)      | 3540.44                |
|         | 04/17/12      |                    | (a)               | 56.55               | (a)      | 3536.44                |
|         | 10/15/12      |                    | (a)               | 60.29               | (a)      | 3532.70                |
| Well #2 | 05/06/98      | 3615.28 (b)        | (a)               | 65.48               | (a)      | 3549.80                |
|         | 05/07/98      |                    | (a)               | 65.51               | (a)      | 3549.77                |
| Well #5 | 05/06/98      | 3635.39 (b)        | (a)               | 83.75               | (a)      | 3551.64                |
|         | 05/07/98      |                    | (a)               | 83.79               | (a)      | 3551.60                |

NOTES:

PSH - Phase separated hydrocarbon

Corrections to ground water surface elevation for PSH is calculated assuming a specific gravity of 0.76

(NA) Information not available

(a) Not applicable since no measurable thickness of PSH is present

(b) Elevation based on survey by Wagener Engineering dated 5/6/98

(c) Elevation based on survey by Wagener Engineering dated 9/17/98

(d) Elevation based on survey by Wagener Engineering dated 11/29/00

(e) Elevation based on survey by Wagener Engineering dated 10/03/01

(f) Elevation based on survey by Cypress Engineering dated 03/14/03

(g) Elevation based on survey by Cypress Engineering dated 06/23/07

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-1   | 01/29/03      | NA                 | (a)               | 60.39               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 60.66               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 60.07               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 61.38               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 61.26               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 62.03               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 61.85               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 62.31               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 62.77               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 63.45               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 63.32               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 65.51               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 64.40               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 65.90               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 64.85               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 64.35               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 64.60               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 65.28               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 64.70               | (a)      | NA                     |
| MPE-2   | 01/29/03      | NA                 | (a)               | 59.18               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 59.82               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 60.88               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 60.45               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 60.27               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 61.17               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 61.20               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 61.75               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 61.88               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 62.52               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 62.40               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 64.12               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 63.39               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 64.51               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 63.73               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 63.68               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 63.95               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 64.46               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 64.31               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-3   | 01/29/03      | NA                 | (a)               | 62.33               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 62.85               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 63.10               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 63.60               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 63.57               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 64.90               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 64.10               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 64.65               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 65.05               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 65.62               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 65.48               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 67.48               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 66.50               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 67.85               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 66.94               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 66.53               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 66.75               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 62.46               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 66.90               | (a)      | NA                     |
| MPE-4   | 01/29/03      | NA                 | (a)               | 63.37               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 63.54               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 63.81               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 64.30               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 64.29               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 64.29               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 64.78               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 65.45               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 62.77               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 66.15               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 65.92               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 67.41               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 66.25               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 67.94               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 66.87               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 66.20               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 66.34               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 66.96               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 66.41               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-5   | 01/29/03      | NA                 | (a)               | 63.78               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 63.95               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 64.19               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 64.80               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 64.84               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 65.39               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 65.60               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 66.36               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 65.86               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 66.83               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 66.42               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 67.41               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 66.88               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 67.95               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 67.08               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 66.79               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 66.89               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 67.33               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 67.14               | (a)      | NA                     |
| MPE-6   | 01/29/03      | NA                 | (a)               | 65.00               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 65.17               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 65.44               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 66.02               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 65.91               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 66.66               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 66.53               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 67.07               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 67.40               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 67.98               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 67.81               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 69.54               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 68.74               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 70.16               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 69.19               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 68.76               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 68.98               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 69.71               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 69.10               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-7   | 01/29/03      | NA                 | (a)               | 63.93               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 63.88               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 64.45               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 65.25               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 65.71               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 66.20               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 66.36               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 66.93               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 66.58               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 67.16               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 66.47               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 69.08               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 67.79               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 69.75               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 67.62               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 67.15               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 67.07               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 67.50               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 67.44               | (a)      | NA                     |
| MPE-8   | 01/29/03      | NA                 | (a)               | 62.43               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 62.74               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 63.14               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 63.70               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 64.00               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 64.35               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 64.85               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 66.20               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 66.45               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 65.25               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 65.02               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 65.40               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 65.06               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 65.79               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 65.53               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 65.30               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 65.58               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 65.71               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 65.62               | (a)      | NA                     |



**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-9   | 01/29/03      | NA                 | 63.96             | 66.65               | 2.69     | NA                     |
|         | 07/31/03      |                    | 64.05             | 67.46               | 3.41     | NA                     |
|         | 03/22/04      |                    | 63.47             | 67.30               | 3.83     | NA                     |
|         | 09/08/04      |                    | 65.51             | 68.41               | 2.90     | NA                     |
|         | 03/29/05      |                    | 66.35             | 68.40               | 2.05     | NA                     |
|         | 10/05/05      |                    | 66.93             | 69.29               | 2.36     | NA                     |
|         | 03/23/06      |                    | 67.50             | 68.00               | 0.50     | NA                     |
|         | 09/19/06      |                    | (a)               | 68.05               | (a)      | NA                     |
|         | 03/13/07      |                    | 67.30             | 67.35               | 0.05     | NA                     |
|         | 09/21/07      |                    | 67.43             | 67.60               | 0.17     | NA                     |
|         | 03/05/08      |                    | 67.31             | 67.32               | 0.01     | NA                     |
|         | 09/09/08      |                    | (a)               | 67.15               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 67.24               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 67.79               | (a)      | NA                     |
|         | 01/26/10      |                    | 67.92             | 67.93               | 0.01     | NA                     |
|         | 03/22/10      |                    | (a)               | 67.82               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 67.49               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 67.61               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 67.87               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 67.70               | (a)      | NA                     |
| MPE-10  | 01/29/03      | NA                 | (a)               | 62.90               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 63.08               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 63.85               | (a)      | NA                     |
|         | 09/08/04      |                    | 64.45             | 66.87               | 2.42     | NA                     |
|         | 03/29/05      |                    | 65.5              | 65.70               | 0.20     | NA                     |
|         | 10/05/05      |                    | 65.62             | 67.65               | 2.03     | NA                     |
|         | 03/23/06      |                    | 65.87             | 67.35               | 1.48     | NA                     |
|         | 09/19/06      |                    | 66.35             | Tagged pump         | NA       | NA                     |
|         | 03/13/07      |                    | 65.58             | 66.42               | 0.84     | NA                     |
|         | 09/21/07      |                    | (a)               | 66.00               | (a)      | NA                     |
|         | 03/05/08      |                    | 65.51             | 65.87               | 0.36     | NA                     |
|         | 09/09/08      |                    | 66.48             | 66.90               | 0.42     | NA                     |
|         | 03/10/09      |                    | 65.58             | 66.45               | 0.87     | NA                     |
|         | 03/22/10      |                    | (a)               | 66.20               | (a)      | NA                     |
|         | 04/17/11      |                    | 65.41             | 66.85               | 1.44     | NA                     |
|         | 12/22/11      |                    | 65.74             | 66.48               | 0.74     | NA                     |
|         | 04/17/12      |                    | 66.05             | 66.22               | 0.17     | NA                     |
|         | 10/15/12      |                    | 66.03             | 66.88               | 0.85     | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-11  | 01/29/03      | NA                 | (a)               | 60.20               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 60.52               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 60.93               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 61.60               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 61.89               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 62.30               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 62.81               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 64.61               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 63.45               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 62.85               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 63.57               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 63.02               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 63.81               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 62.92               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 63.21               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 63.44               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 63.73               | (a)      | NA                     |
| MPE-12  | 01/29/03      | NA                 | (a)               | 61.54               | (a)      | NA                     |
|         | 07/31/03      |                    | 61.29             | 63.31               | 2.02     | NA                     |
|         | 03/22/04      |                    | 61.98             | 64.40               | 2.42     | NA                     |
|         | 09/08/04      |                    | 63.55             | 64.54               | 0.99     | NA                     |
|         | 03/29/05      |                    | 64.46             | 64.95               | 0.49     | NA                     |
|         | 10/05/05      |                    | 64.55             | 65.26               | 0.71     | NA                     |
|         | 03/23/06      |                    | 64.42             | 65.52               | 1.10     | NA                     |
|         | 09/19/06      |                    | 64.82             | 66.70               | 1.88     | NA                     |
|         | 03/13/07      |                    | 64.22             | 64.94               | 0.72     | NA                     |
|         | 09/21/07      |                    | 64.42             | 65.23               | 0.81     | NA                     |
|         | 03/05/08      |                    | (a)               | 64.21               | (a)      | NA                     |
|         | 09/09/08      |                    | 64.70             | 65.60               | 0.90     | NA                     |
|         | 03/10/09      |                    | 64.30             | 64.60               | 0.30     | NA                     |
|         | 10/08/09      |                    | 65.24             | 65.45               | 0.21     | NA                     |
|         | 01/26/10      |                    | 64.75             | 65.12               | 0.37     | NA                     |
|         | 03/22/10      |                    | 64.55             | 64.60               | 0.05     | NA                     |
|         | 04/17/11      |                    | 64.32             | 64.47               | 0.15     | NA                     |
|         | 12/22/11      |                    | (a)               | 64.61               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 64.78               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 65.11               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-13  | 01/29/03      | NA                 | (a)               | 60.31               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 60.72               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 61.07               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 61.95               | (a)      | NA                     |
|         | 03/29/05      |                    | 62.35             | 62.47               | 0.12     | NA                     |
|         | 10/05/05      |                    | 62.44             | 63.57               | 1.13     | NA                     |
|         | 03/23/06      |                    | 63.05             | 63.90               | 0.85     | NA                     |
|         | 09/19/06      |                    | (a)               | 65.23               | (a)      | NA                     |
|         | 03/13/07      |                    | 63.15             | 65.80               | 2.65     | NA                     |
|         | 09/21/07      |                    | 63.05             | 65.50               | 2.45     | NA                     |
|         | 03/05/08      |                    | 62.39             | 64.75               | 2.36     | NA                     |
|         | 09/09/08      |                    | 63.15             | 65.55               | 2.40     | NA                     |
|         | 03/10/09      |                    | 62.93             | 63.90               | 0.97     | NA                     |
|         | 10/08/09      |                    | 63.65             | 64.00               | 0.35     | NA                     |
|         | 01/26/10      |                    | 63.44             | 63.75               | 0.31     | NA                     |
|         | 03/22/10      |                    | 62.93             | 63.15               | 0.22     | NA                     |
|         | 04/17/11      |                    | 63.08             | 63.27               | 0.19     | NA                     |
|         | 12/22/11      |                    | (a)               | 63.32               | (a)      | NA                     |
|         | 04/17/12      |                    | 63.51             | 63.93               | 0.42     | NA                     |
|         | 10/15/12      |                    | 63.91             | 64.27               | 0.36     | NA                     |
| MPE-14  | 01/29/03      | NA                 | (a)               | 60.95               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 61.38               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 61.77               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 62.65               | (a)      | NA                     |
|         | 03/29/05      |                    | 62.06             | 66.34               | 4.28     | NA                     |
|         | 10/05/05      |                    | 62.37             | 65.90               | 3.53     | NA                     |
|         | 03/23/06      |                    | 62.90             | 66.64               | 3.74     | NA                     |
|         | 09/19/06      |                    | 65.72             | 66.15               | 0.43     | NA                     |
|         | 03/13/07      |                    | 63.71             | 66.25               | 2.54     | NA                     |
|         | 09/21/07      |                    | 64.19             | 64.55               | 0.36     | NA                     |
|         | 03/05/08      |                    | 63.43             | 63.85               | 0.42     | NA                     |
|         | 09/09/08      |                    | (a)               | 64.58               | (a)      | NA                     |
|         | 03/10/09      |                    | 63.70             | 63.83               | 0.13     | NA                     |
|         | 10/08/09      |                    | (a)               | 64.27               | (a)      | NA                     |
|         | 01/26/10      |                    | (a)               | 64.08               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 63.57               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 63.70               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 64.05               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 64.12               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 64.75               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-15  | 01/29/03      | NA                 | (a)               | 61.10               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 61.20               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 61.29               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 61.60               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 61.58               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 62.16               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 62.83               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 62.78               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 62.95               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 62.83               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 62.71               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 62.40               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 62.59               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 62.36               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 62.20               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 62.75               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 63.05               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 63.05               | (a)      | NA                     |
| MPE-16  | 01/29/03      | NA                 | 61.10             | 64.91               | 3.81     | NA                     |
|         | 07/31/03      |                    | 61.53             | 65.55               | 4.02     | NA                     |
|         | 03/22/04      |                    | 62.15             | 65.50               | 3.35     | NA                     |
|         | 09/08/04      |                    | 63.60             | 65.75               | 2.15     | NA                     |
|         | 03/29/05      |                    | 65.24             | 65.25               | 0.01     | NA                     |
|         | 10/05/05      |                    | 64.24             | 66.51               | 2.27     | NA                     |
|         | 03/23/06      |                    | 64.58             | 67.32               | 2.74     | NA                     |
|         | 09/19/06      |                    | 65.75             | Tagged pump         | NA       | NA                     |
|         | 09/21/07      |                    | --                | Tagged pump         | NA       | NA                     |
|         | 03/05/08      |                    | 64.16             | Tagged pump         | NA       | NA                     |
|         | 09/09/08      |                    | 64.85             | 66.50               | 1.65     | NA                     |
|         | 03/10/09      |                    | 64.32             | 65.75               | 1.43     | NA                     |
|         | 10/08/09      |                    | 65.63             | Tagged pump         | NA       | NA                     |
|         | 01/26/10      |                    | 64.64             | 66.30               | 1.66     | NA                     |
|         | 03/22/10      |                    | 64.27             | 66.21               | 1.94     | NA                     |
|         | 04/17/11      |                    | 64.25             | 65.18               | 0.93     | NA                     |
|         | 12/22/11      |                    | 64.61             | 65.79               | 1.18     | NA                     |
|         | 04/17/12      |                    | 64.74             | 67.17               | 2.43     | NA                     |
|         | 10/15/12      |                    | 64.89             | 67.41               | 2.52     | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-17  | 01/29/03      | NA                 | 60.86             | 65.50               | 4.64     | NA                     |
|         | 07/31/03      |                    | 61.40             | 66.69               | 5.29     | NA                     |
|         | 03/22/04      |                    | 62.20             | 65.69               | 3.49     | NA                     |
|         | 09/08/04      |                    | 63.45             | 65.92               | 2.47     | NA                     |
|         | 03/29/05      |                    | 64.85             | 66.64               | 1.79     | NA                     |
|         | 10/05/05      |                    | 64.51             | 65.64               | 1.13     | NA                     |
|         | 03/23/06      |                    | 65.70             | 67.01               | 1.31     | NA                     |
|         | 09/19/06      |                    | 67.30             | Tagged pump         | NA       | NA                     |
|         | 03/13/07      |                    | 65.78             | 66.55               | 0.77     | NA                     |
|         | 09/21/07      |                    | 65.50             | 65.55               | 0.05     | NA                     |
|         | 03/05/08      |                    | (a)               | 64.62               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 65.60               | (a)      | NA                     |
|         | 03/10/09      |                    | 64.80             | 65.07               | 0.27     | NA                     |
|         | 10/08/09      |                    | 65.48             | 65.55               | 0.07     | NA                     |
|         | 01/26/10      |                    | 65.19             | 65.22               | 0.03     | NA                     |
|         | 03/22/10      |                    | (a)               | 64.77               | (a)      | (a)                    |
|         | 04/17/11      |                    | (a)               | 64.93               | (a)      | (a)                    |
|         | 12/22/11      |                    | (a)               | 65.37               | (a)      | (a)                    |
|         | 04/17/12      |                    | 65.22             | 65.37               | 0.15     | (a)                    |
|         | 10/15/12      |                    | 65.95             | 66.81               | 0.86     | (a)                    |
| MPE-18  | 01/29/03      | NA                 | (a)               | 59.42               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 59.75               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 60.18               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 60.75               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 61.14               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 61.40               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 62.18               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 62.95               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 62.32               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 62.29               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 61.69               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 62.20               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 61.65               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 61.93               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 61.44               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 61.70               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 62.19               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 62.39               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 62.78               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-19  | 01/29/03      | NA                 | (a)               | 62.40               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 62.73               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 63.25               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 64.35               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 64.40               | (a)      | NA                     |
|         | 10/05/05      |                    | (a)               | 64.99               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 65.40               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 65.85               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 65.15               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 65.35               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 64.92               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 65.29               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 65.02               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 65.54               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 65.14               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 65.11               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 65.54               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 65.53               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 65.91               | (a)      | NA                     |
| MPE-20  | 01/29/03      | NA                 | 58.21             | 65.10               | 6.89     | NA                     |
|         | 07/31/03      |                    | 58.70             | 65.08               | 6.38     | NA                     |
|         | 03/22/04      |                    | 59.28             | 65.68               | 6.40     | NA                     |
|         | 09/08/04      |                    | 62.01             | 65.43               | 3.42     | NA                     |
|         | 03/29/05      |                    | 63.20             | 66.02               | 2.82     | NA                     |
|         | 10/04/05      |                    | 63.07             | 64.77               | 1.70     | NA                     |
|         | 03/23/06      |                    | 64.81             | 66.55               | 1.74     | NA                     |
|         | 09/19/06      |                    | 66.25             | 67.26               | 1.01     | NA                     |
|         | 03/13/07      |                    | 63.25             | 64.70               | 1.45     | NA                     |
|         | 09/21/07      |                    | 62.90             | 64.55               | 1.65     | NA                     |
|         | 03/05/08      |                    | 61.92             | 63.88               | 1.96     | NA                     |
|         | 09/09/08      |                    | 62.75             | 64.99               | 2.24     | NA                     |
|         | 03/10/09      |                    | 62.58             | 64.52               | 1.94     | NA                     |
|         | 10/08/09      |                    | 62.45             | 65.34               | 2.89     | NA                     |
|         | 01/26/10      |                    | 62.28             | 65.10               | 2.82     | NA                     |
|         | 03/22/10      |                    | 61.58             | 64.81               | 3.23     | NA                     |
|         | 04/17/11      |                    | 62.10             | 64.45               | 2.35     | NA                     |
|         | 12/22/11      |                    | 62.70             | 64.58               | 1.88     | NA                     |
|         | 04/17/12      |                    | 63.09             | 64.86               | 1.77     | NA                     |
|         | 10/15/12      |                    | 64.41             | 65.23               | 0.82     | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-21  | 01/29/03      | NA                 | (a)               | 55.64               | (a)      | NA                     |
|         | 07/31/03      |                    | 54.78             | 55.30               | 0.52     | NA                     |
|         | 03/22/04      |                    | 55.20             | 55.75               | 0.55     | NA                     |
|         | 09/08/04      |                    | 56.78             | 56.85               | 0.07     | NA                     |
|         | 03/29/05      |                    | (a)               | 57.11               | (a)      | NA                     |
|         | 10/04/05      |                    | 57.63             | 57.66               | 0.03     | NA                     |
|         | 03/23/06      |                    | 57.64             | 57.65               | 0.01     | NA                     |
|         | 09/19/06      |                    | 58.25             | 58.50               | 0.25     | NA                     |
|         | 03/13/07      |                    | (a)               | 57.45               | (a)      | NA                     |
|         | 09/21/07      |                    | 57.78             | 57.90               | 0.12     | NA                     |
|         | 03/05/08      |                    | 57.75             | 57.77               | 0.02     | NA                     |
|         | 09/09/08      |                    | 57.00             | 57.10               | 0.10     | NA                     |
|         | 03/10/09      |                    | (a)               | 56.57               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 57.13               | (a)      | NA                     |
|         | 01/26/10      |                    | (a)               | 57.71               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 57.68               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 57.30               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 57.82               | (a)      | NA                     |
|         | 04/17/12      |                    | 58.20             | 58.31               | 0.11     | NA                     |
|         | 10/15/12      |                    | 58.02             | 58.07               | 0.05     | NA                     |
| MPE-22  | 01/29/03      | NA                 | (a)               | 64.50               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 64.51               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 65.16               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 66.06               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 66.40               | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | 66.61               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 67.33               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 67.30               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 66.90               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 67.01               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 66.69               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 67.35               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 67.17               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 67.68               | (a)      | NA                     |
|         | 01/26/10      |                    | (a)               | 67.33               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 66.99               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 67.25               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 67.61               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 67.44               | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | 68.20               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-23  | 01/29/03      | NA                 | (a)               | 59.86               | (a)      | NA                     |
|         | 07/31/03      |                    | 60.05             | 60.10               | 0.05     | NA                     |
|         | 03/22/04      |                    | 60.64             | 61.30               | 0.66     | NA                     |
|         | 09/08/04      |                    | 61.62             | 64.90               | 3.28     | NA                     |
|         | 03/29/05      |                    | 62.7              | 64.45               | 1.75     | NA                     |
|         | 10/04/05      |                    | (a)               | 62.13               | (a)      | NA                     |
|         | 03/23/06      |                    | 63.92             | 64.84               | 0.92     | NA                     |
|         | 09/19/06      |                    | 63.78             | 65.28               | 1.50     | NA                     |
|         | 03/13/07      |                    | 62.28             | 65.20               | 2.92     | NA                     |
|         | 09/21/07      |                    | 63.02             | 64.80               | 1.78     | NA                     |
|         | 03/05/08      |                    | 61.82             | 64.33               | 2.51     | NA                     |
|         | 09/09/08      |                    | 64.30             | tag top of pump     | (a)      | NA                     |
|         | 03/10/09      |                    | 62.85             | 64.00               | 1.15     | NA                     |
|         | 10/08/09      |                    | 62.58             | 64.90               | 2.32     | NA                     |
|         | 01/26/10      |                    | 62.84             | 63.98               | 1.14     | NA                     |
|         | 03/22/10      |                    | 61.94             | 62.58               | 0.64     | NA                     |
|         | 04/17/11      |                    | 62.31             | 62.78               | 0.47     | NA                     |
|         | 12/22/11      |                    | 62.45             | 64.70               | 2.25     | NA                     |
|         | 04/17/12      |                    | 62.57             | 64.58               | 2.01     | NA                     |
|         | 10/18/12      |                    | 63.35             | 65.36               | 2.01     | NA                     |
| MPE-24  | 01/29/03      | NA                 | (a)               | 55.83               | (a)      | NA                     |
|         | 07/31/03      |                    | 55.08             | 55.60               | 0.52     | NA                     |
|         | 03/22/04      |                    | 55.90             | 56.91               | 1.01     | NA                     |
|         | 09/08/04      |                    | 56.80             | 61.23               | 4.43     | NA                     |
|         | 03/29/05      |                    | 57.50             | 59.49               | 1.99     | NA                     |
|         | 10/04/05      |                    | 57.93             | 60.79               | 2.86     | NA                     |
|         | 03/23/06      |                    | 59.43             | 59.90               | 0.47     | NA                     |
|         | 09/19/06      |                    | 60.09             | 60.15               | 0.06     | NA                     |
|         | 03/13/07      |                    | 58.40             | 60.15               | 1.75     | NA                     |
|         | 09/21/07      |                    | 58.15             | 61.01               | 2.86     | NA                     |
|         | 03/05/08      |                    | 57.58             | 59.43               | 1.85     | NA                     |
|         | 09/09/08      |                    | 57.92             | 60.25               | 2.33     | NA                     |
|         | 03/10/09      |                    | 57.55             | 58.93               | 1.38     | NA                     |
|         | 10/08/09      |                    | 57.20             | 59.52               | 2.32     | NA                     |
|         | 01/26/10      |                    | 57.65             | 59.92               | 2.27     | NA                     |
|         | 03/22/10      |                    | 57.41             | 59.75               | 2.34     | NA                     |
|         | 04/17/11      |                    | 57.57             | 59.57               | 2.00     | NA                     |
|         | 12/22/11      |                    | 58.27             | 60.95               | 2.68     | NA                     |
|         | 04/17/12      |                    | 58.43             | 61.11               | 2.68     | NA                     |
|         | 10/15/12      |                    | 58.10             | 64.85               | 6.75     | NA                     |



**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-25  | 01/29/03      | NA                 | (a)               | 64.51               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 64.53               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 65.19               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 66.12               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 66.44               | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | 66.71               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 67.42               | (a)      | NA                     |
|         | 09/19/06      |                    | 67.30             | 67.31               | 0.01     | NA                     |
|         | 03/13/07      |                    | (a)               | 66.88               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 66.90               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 66.66               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 67.40               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 67.13               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 67.79               | (a)      | NA                     |
|         | 01/26/10      |                    | (a)               | 67.40               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 67.07               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 67.32               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 67.79               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 67.50               | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | 68.32               | (a)      | NA                     |
| MPE-26  | 01/29/03      | NA                 | (a)               | 61.89               | (a)      | NA                     |
|         | 07/31/03      |                    | 61.65             | 62.95               | 1.30     | NA                     |
|         | 03/22/04      |                    | 62.68             | 62.71               | 0.03     | NA                     |
|         | 09/08/04      |                    | 63.60             | 63.64               | 0.04     | NA                     |
|         | 03/29/05      |                    | 63.80             | 64.26               | 0.46     | NA                     |
|         | 10/04/05      |                    | 64.15             | 64.25               | 0.10     | NA                     |
|         | 03/23/06      |                    | 64.90             | 64.92               | 0.02     | NA                     |
|         | 09/19/06      |                    | 64.82             | 65.10               | 0.28     | NA                     |
|         | 03/13/07      |                    | 64.35             | 64.65               | 0.30     | NA                     |
|         | 09/21/07      |                    | (a)               | 64.34               | (a)      | NA                     |
|         | 03/05/08      |                    | 64.03             | 64.40               | 0.37     | NA                     |
|         | 09/09/08      |                    | 64.90             | 65.30               | 0.40     | NA                     |
|         | 03/10/09      |                    | 64.54             | 64.86               | 0.32     | NA                     |
|         | 10/08/09      |                    | 65.30             | 65.70               | 0.40     | NA                     |
|         | 01/26/10      |                    | 64.84             | 65.32               | 0.48     | NA                     |
|         | 03/22/10      |                    | 64.46             | 65.04               | 0.58     | NA                     |
|         | 04/17/11      |                    | (a)               | 64.70               | (a)      | NA                     |
|         | 12/22/11      |                    | 65.19             | 65.63               | 0.44     | NA                     |
|         | 04/17/12      |                    | 64.92             | 65.48               | 0.56     | NA                     |
|         | 10/15/12      |                    | 65.60             | 66.10               | 0.50     | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-27  | 01/29/03      | NA                 | 59.20             | 63.98               | 4.78     | NA                     |
|         | 07/31/03      |                    | 59.25             | 64.13               | 4.88     | NA                     |
|         | 03/22/04      |                    | 60.95             | 63.55               | 2.60     | NA                     |
|         | 09/08/04      |                    | 62.05             | 64.50               | 2.45     | NA                     |
|         | 03/29/05      |                    | 62.49             | 65.28               | 2.79     | NA                     |
|         | 10/04/05      |                    | 62.57             | 65.33               | 2.76     | NA                     |
|         | 03/23/06      |                    | 64.22             | 64.30               | 0.08     | NA                     |
|         | 09/19/06      |                    | 63.90             | 64.41               | 0.51     | NA                     |
|         | 03/13/07      |                    | 62.40             | 65.40               | 3.00     | NA                     |
|         | 09/21/07      |                    | 62.53             | 64.85               | 2.32     | NA                     |
|         | 03/05/08      |                    | 62.05             | 63.74               | 1.69     | NA                     |
|         | 09/09/08      |                    | 62.68             | 69.55               | 6.87     | NA                     |
|         | 03/10/09      |                    | 62.65             | 64.96               | 2.31     | NA                     |
|         | 10/08/09      |                    | 63.05             | 69.05               | 6.00     | NA                     |
|         | 01/26/10      |                    | (a)               | 62.92               | (a)      | NA                     |
|         | 03/22/10      |                    | 62.60             | 64.38               | 1.78     | NA                     |
|         | 04/17/11      |                    | 62.54             | tag top of pump     | NA       | NA                     |
|         | 12/22/11      |                    | (a)               | 62.81               | (a)      | NA                     |
|         | 04/17/12      |                    | 63.34             | 63.63               | 0.29     | NA                     |
|         | 10/15/12      |                    | 64.62             | 65.38               | 0.76     | NA                     |
| MPE-28  | 01/29/03      | NA                 | 53.69             | 55.57               | 1.88     | NA                     |
|         | 07/31/03      |                    | 53.69             | 56.90               | 3.21     | NA                     |
|         | 03/22/04      |                    | 55.59             | 57.75               | 2.16     | NA                     |
|         | 09/08/04      |                    | 56.43             | 59.52               | 3.09     | NA                     |
|         | 03/29/05      |                    | 58.95             | 60.20               | 1.25     | NA                     |
|         | 10/04/05      |                    | (a)               | 57.68               | (a)      | NA                     |
|         | 03/23/06      |                    | 59.70             | 59.95               | 0.25     | NA                     |
|         | 09/19/06      |                    | 59.52             | 60.20               | 0.68     | NA                     |
|         | 03/13/07      |                    | 56.85             | 58.75               | 1.90     | NA                     |
|         | 09/21/07      |                    | 56.48             | 57.00               | 0.52     | NA                     |
|         | 03/05/08      |                    | 55.28             | 57.43               | 2.15     | NA                     |
|         | 09/09/08      |                    | 56.25             | 59.95               | 3.70     | NA                     |
|         | 03/10/09      |                    | 55.01             | 59.20               | 4.19     | NA                     |
|         | 10/08/09      |                    | 56.72             | 60.21               | 3.49     | NA                     |
|         | 01/26/10      |                    | 56.12             | 59.78               | 3.66     | NA                     |
|         | 03/22/10      |                    | 55.50             | 59.20               | 3.70     | NA                     |
|         | 04/17/11      |                    | (a)               | 56.78               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 58.61               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 57.45               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 58.30               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-29  | 01/29/03      | NA                 | (a)               | 64.75               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 64.79               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 65.58               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 66.51               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 66.79               | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | 67.06               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 67.78               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 67.82               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 67.35               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 67.30               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 67.01               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 67.97               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 67.35               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 68.38               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 67.58               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 67.73               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 68.38               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 67.98               | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | 68.95               | (a)      | NA                     |
| MPE-30  | 01/29/03      | NA                 | (a)               | 63.61               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 63.35               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 63.92               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 64.92               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 64.97               | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | 65.24               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 65.65               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 65.50               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 64.85               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 64.65               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 64.38               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 64.93               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 64.92               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 66.20               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 65.41               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 65.25               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 65.91               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 65.78               | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | 66.46               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-31  | 01/29/03      | NA                 | (a)               | 60.61               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 60.63               | (a)      | NA                     |
|         | 03/22/04      |                    | 61.55             | 61.73               | 0.18     | NA                     |
|         | 09/08/04      |                    | 62.35             | 63.45               | 1.10     | NA                     |
|         | 03/29/05      |                    | 63.10             | 63.11               | 0.01     | NA                     |
|         | 10/04/05      |                    | (a)               | 62.83               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 64.19               | (a)      | NA                     |
|         | 09/19/06      |                    | 64.10             | 64.25               | 0.15     | NA                     |
|         | 03/13/07      |                    | 62.90             | 64.40               | 1.50     | NA                     |
|         | 09/21/07      |                    | 63.18             | 63.20               | 0.02     | NA                     |
|         | 03/05/08      |                    | 62.73             | 63.15               | 0.42     | NA                     |
|         | 09/09/08      |                    | 64.79             | 66.40               | 1.61     | NA                     |
|         | 03/10/09      |                    | 63.22             | 63.24               | 0.02     | NA                     |
|         | 10/08/09      |                    | (a)               | 65.28               | (a)      | NA                     |
|         | 01/26/10      |                    | (a)               | 63.99               | (a)      | NA                     |
|         | 03/22/10      |                    | 63.46             | 63.47               | 0.01     | NA                     |
|         | 04/17/11      |                    | (a)               | 63.41               | (a)      | NA                     |
|         | 12/22/11      |                    | 64.22             | 64.69               | 0.47     | NA                     |
|         | 04/17/12      |                    | 64.04             | 64.45               | 0.41     | NA                     |
|         | 10/18/12      |                    | 65.28             | 65.82               | 0.54     | NA                     |
| MPE-32  | 01/29/03      | NA                 | 55.02             | 55.10               | 0.08     | NA                     |
|         | 07/31/03      |                    | 53.85             | 59.27               | 5.42     | NA                     |
|         | 03/22/04      |                    | 54.89             | 59.92               | 5.03     | NA                     |
|         | 09/08/04      |                    | 56.68             | 58.60               | 1.92     | NA                     |
|         | 03/29/05      |                    | 58.12             | 58.42               | 0.30     | NA                     |
|         | 10/04/05      |                    | 57.67             | 58.12               | 0.45     | NA                     |
|         | 03/23/06      |                    | 59.55             | 59.60               | 0.05     | NA                     |
|         | 09/19/06      |                    | 59.70             | 59.92               | 0.22     | NA                     |
|         | 03/13/07      |                    | 57.88             | 58.10               | 0.22     | NA                     |
|         | 09/21/07      |                    | 57.32             | 58.77               | 1.45     | NA                     |
|         | 03/05/08      |                    | 56.73             | 59.35               | 2.62     | NA                     |
|         | 09/09/08      |                    | 61.68             | 61.78               | 0.10     | NA                     |
|         | 03/10/09      |                    | 57.01             | 59.81               | 2.80     | NA                     |
|         | 10/08/09      |                    | (a)               | 62.21               | (a)      | NA                     |
|         | 01/26/10      |                    | 57.90             | 61.23               | 3.33     | NA                     |
|         | 03/22/10      |                    | (a)               | 57.30               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 57.32               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 56.62               | (a)      | NA                     |
|         | 04/17/12      |                    | 58.55             | 61.08               | 2.53     | NA                     |
|         | 10/15/12      |                    | NA                | Tag top of pump     | NA       | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-33  | 01/29/03      | NA                 | 50.50             | 52.13               | 1.63     | NA                     |
|         | 07/31/03      |                    | 50.03             | 54.50               | 4.47     | NA                     |
|         | 03/22/04      |                    | 51.60             | 54.09               | 2.49     | NA                     |
|         | 09/08/04      |                    | 53.32             | 54.02               | 0.70     | NA                     |
|         | 03/29/05      |                    | 54.30             | 54.90               | 0.60     | NA                     |
|         | 10/04/05      |                    | 54.01             | 55.21               | 1.20     | NA                     |
|         | 03/23/06      |                    | (a)               | 55.80               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 56.92               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 54.75               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 54.45               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 53.48               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 55.65               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 53.82               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 56.63               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 54.56               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 54.73               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 56.65               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 55.85               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 58.43               | (a)      | NA                     |
| MPE-34  | 01/29/03      | NA                 | (a)               | 62.80               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 62.74               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 63.23               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 63.86               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 64.33               | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | 64.51               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 65.08               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 65.20               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 65.03               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 64.90               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 64.69               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 65.22               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 65.24               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 65.78               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 65.56               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 65.40               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 65.76               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 65.79               | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | 66.15               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-35  | 01/29/03      | NA                 | (a)               | 56.74               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 56.84               | (a)      | NA                     |
|         | 03/22/04      |                    | 57.30             | 57.31               | 0.01     | NA                     |
|         | 09/08/04      |                    | (a)               | 58.04               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 58.57               | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | 58.79               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 59.42               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 59.60               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 59.15               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 59.00               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 58.93               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 49.41               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 59.29               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 59.96               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 59.36               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 59.16               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 59.67               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 59.80               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 60.00               | (a)      | NA                     |
| MPE-36  | 01/29/03      | NA                 | (a)               | 51.98               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 52.00               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 52.48               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 53.45               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 53.92               | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | 54.25               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 54.91               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 55.55               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 54.30               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 54.05               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 54.05               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 55.93               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 54.45               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 57.35               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 55.09               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 54.78               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 56.05               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 55.99               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 57.20               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| MPE-37  | 01/29/03      | NA                 | (a)               | 49.18               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 49.27               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 49.98               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 50.95               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 51.48               | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | 51.67               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 52.54               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 53.18               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 51.30               | (a)      | NA                     |
|         | 09/21/07      |                    | 51.70             | 51.71               | 0.01     | NA                     |
|         | 03/05/08      |                    | (a)               | 51.40               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 54.58               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 51.90               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 56.51               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 52.40               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 52.22               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 53.48               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 53.26               | (a)      | NA                     |
|         | 10/15/12      |                    | (a)               | 54.68               | (a)      | NA                     |
| SVE-1A  | 01/29/03      | NA                 | (a)               | dry                 | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | dry                 | (a)      | NA                     |
| SVE-2A  | 01/29/03      | NA                 | (a)               | 29.65               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 29.70               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 29.85               | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | 29.00               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | dry                 | (a)      | NA                     |
| SVE-3   | 04/01/01      | NA                 | (a)               | 60.35               | (a)      | NA                     |
|         | 01/29/03      |                    | (a)               | 60.57               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 61.42               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 61.48               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 61.48               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 60.68               | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | 61.01               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 61.32               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| SVE-22  | 01/29/03      | NA                 | (a)               | dry                 | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/13/07      |                    | 33.00             | 33.10 (TD)          | 0.10     | NA                     |
|         | 09/21/07      | 0.18               | 32.90             | 33.10 (TD)          | 0.20     | NA                     |
|         | 03/05/08      |                    | 32.99             | 33.20 (TD)          | 0.21     | NA                     |
|         | 09/09/08      |                    | 32.91             | 33.08               | 0.17     | NA                     |
|         | 03/10/09      |                    | 33.00             | 33.20               | 0.20     | NA                     |
|         | 10/08/09      |                    | 32.92             | 33.10               | 0.18     | NA                     |
|         | 01/26/10      |                    | 33.05             | 33.05 (TD)          | 0.00     | NA                     |
|         | 03/22/10      |                    | 33.02             | 33.02 (TD)          | 0.00     | NA                     |
|         | 04/17/11      |                    | 32.90             | 33.00 (TD)          | 0.10     | NA                     |
|         | 12/22/11      |                    | (a)               | 33.04               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 33.00 (TD)          | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | 33.00 (TD)          | (a)      | NA                     |
| SVE-23  | 01/29/03      | NA                 | 32.70             | 33.85               | 1.15     | NA                     |
|         | 07/31/03      |                    | 34.00             | 36.75               | 2.75     | NA                     |
|         | 03/22/04      |                    | 33.95             | 36.70 (TD)          | 2.75     | NA                     |
|         | 09/08/04      |                    | 33.00             | 36.80 (TD)          | 3.80     | NA                     |
|         | 03/23/06      |                    | 33.20             | 34.70               | 1.50     | NA                     |
|         | 09/19/06      |                    | 33.05             | 34.75               | 1.70     | NA                     |
|         | 03/13/07      |                    | 32.70             | 33.42               | 0.72     | NA                     |
|         | 09/21/07      |                    | 32.37             | 32.90               | 0.53     | NA                     |
|         | 03/05/08      | 0.18               | 32.52             | 33.44               | 0.92     | NA                     |
|         | 09/09/08      |                    | 32.51             | 33.15               | 0.64     | NA                     |
|         | 03/10/09      |                    | 32.78             | 36.75               | 3.97     | NA                     |
|         | 10/08/09      |                    | 33.01             | 33.79               | 0.78     | NA                     |
|         | 01/26/10      |                    | 33.12             | 36.98 (TD)          | 3.86     | NA                     |
|         | 03/22/10      |                    | 32.09             | 33.65               | 1.56     | NA                     |
|         | 04/17/11      |                    | 33.00             | 33.30               | 0.30     | NA                     |
|         | 12/22/11      |                    | 33.60             | 34.05               | 0.45     | NA                     |
|         | 04/17/12      |                    | 33.62             | 34.10               | 0.48     | NA                     |
|         | 10/18/12      |                    | 34.11             | 34.68               | 0.57     | NA                     |



**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| SVE-24  | 01/29/03      | NA                 | (a)               | dry                 | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 01/26/10      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | dry                 | (a)      | NA                     |
| SVE-25  | 01/29/03      | NA                 | (a)               | dry                 | (a)      | NA                     |
|         | 07/31/03      |                    | 32.86             | 33.10               | 0.24     | NA                     |
|         | 03/22/04      |                    | 28.00             | 33.15 (TD)          | 5.15     | NA                     |
|         | 09/08/04      |                    | 33.20             | 33.20 (TD)          | 0.00     | NA                     |
|         | 03/23/06      |                    | 31.60             | 32.75               | 1.15     | NA                     |
|         | 03/13/07      |                    | (a)               | 31.55               | (a)      | NA                     |
|         | 09/21/07      |                    | 31.60             | 33.00 (TD)          | 1.40     | NA                     |
|         | 03/05/08      |                    | (a)               | 32.19               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 31.57               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 32.70               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 31.40               | (a)      | NA                     |
|         | 01/26/10      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 32.80               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 32.23               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 32.65               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | 32.70               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| SVE-26  | 01/29/03      | NA                 | (a)               | dry                 | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 32.50               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 01/26/10      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | dry                 | (a)      | NA                     |
| SVE-27  | 01/29/03      | NA                 | (a)               | 33.45               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 33.80               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 32.02               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 33.25               | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 34.19               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 32.65               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 23.20               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 32.83               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 32.88               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 33.20               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 32.85               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 32.92               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 33.63               | (a)      | NA                     |
|         | 01/26/10      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 33.70               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 33.70               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 33.83               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | dry                 | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| SVE-28  | 01/29/03      | NA                 | (a)               | dry                 | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 35.70               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 29.10               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 28.82               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 28.74               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 28.45               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 28.20               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 28.39               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 28.38               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 28.60               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 28.95               | (a)      | NA                     |
|         | 01/26/10      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 29.07               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 29.17               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 29.65               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | dry                 | (a)      | NA                     |
| SVE-30  | 01/29/03      | NA                 | (a)               | 43.67               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 43.61               | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | 43.60               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 43.62               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 42.66               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 42.71               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 40.42               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 39.60               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 39.56               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 36.95               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 39.32               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 39.29               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 40.28               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 40.11               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 41.11               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 41.65               | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | 41.42               | (a)      | NA                     |

**Table 2. Summary of Groundwater Surface Elevations (MPE/SVE)  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Sampling Date | Top of Casing (ft) | Depth to PSH (ft) | Depth to Water (ft) | PSH (ft) | Surface Elevation (ft) |
|---------|---------------|--------------------|-------------------|---------------------|----------|------------------------|
| SVE-31  | 01/29/03      | NA                 | (a)               | dry                 | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/22/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 03/29/05      |                    | (a)               | 30.30               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 30.09               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 30.15               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 32.20               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 30.10               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 30.21               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 30.18               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 30.45               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 30.43               | (a)      | NA                     |
|         | 01/26/10      |                    | (a)               | 30.55               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 31.49               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 28.50               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | dry                 | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | dry                 | (a)      | NA                     |
| RW-1    | 01/29/03      | NA                 | (a)               | 34.48               | (a)      | NA                     |
|         | 07/31/03      |                    | (a)               | 34.95               | (a)      | NA                     |
|         | 09/08/04      |                    | (a)               | 34.21               | (a)      | NA                     |
|         | 10/04/05      |                    | (a)               | 33.46               | (a)      | NA                     |
|         | 03/23/06      |                    | (a)               | 33.49               | (a)      | NA                     |
|         | 09/19/06      |                    | (a)               | 33.30               | (a)      | NA                     |
|         | 03/13/07      |                    | (a)               | 33.00               | (a)      | NA                     |
|         | 09/21/07      |                    | (a)               | 32.65               | (a)      | NA                     |
|         | 03/05/08      |                    | (a)               | 32.83               | (a)      | NA                     |
|         | 09/09/08      |                    | (a)               | 32.82               | (a)      | NA                     |
|         | 03/10/09      |                    | (a)               | 33.17               | (a)      | NA                     |
|         | 10/08/09      |                    | (a)               | 33.48               | (a)      | NA                     |
|         | 03/22/10      |                    | (a)               | 33.62               | (a)      | NA                     |
|         | 04/17/11      |                    | (a)               | 33.80               | (a)      | NA                     |
|         | 12/22/11      |                    | (a)               | 34.26               | (a)      | NA                     |
|         | 04/17/12      |                    | (a)               | 34.57               | (a)      | NA                     |
|         | 10/18/12      |                    | (a)               | 35.16               | (a)      | NA                     |

NOTES:

PSH - Phase separated hydrocarbon

(NA) Information not available

(a) Not applicable since no measurable thickness of PSH is present

**Table 2b. Summary for Product Removal Efforts  
Roswell Station Remediation Site**

| Well   | Date     | Initial Measurements |                                            |                    | Removal Actions |                    | Post Measurements |                                            |                    |
|--------|----------|----------------------|--------------------------------------------|--------------------|-----------------|--------------------|-------------------|--------------------------------------------|--------------------|
|        |          | Depth to PSH (ft)    | Depth to Water or PSH/Water Interface (ft) | PSH Thickness (ft) | Removal Methods | PSH Removed (gals) | Depth to PSH (ft) | Depth to Water or PSH/Water Interface (ft) | PSH Thickness (ft) |
| MPE-12 | 06/15/10 | 63.24                | 64.48                                      | 1.24               | Bailed          | 0.75               | 65.00             | 65.21                                      | 0.21               |
|        | 06/17/10 | 64.27                | 64.56                                      | 0.29               | Bailed          | 0.25               | 0.00              | 65.25                                      | --                 |
|        | 04/17/11 | 64.32                | 64.47                                      | 0.15               | None            |                    |                   |                                            |                    |
|        | 12/22/11 | 0.00                 | 64.61                                      | --                 | None            |                    |                   |                                            |                    |
|        | 04/17/12 | 0.00                 | 64.78                                      | --                 | None            |                    |                   |                                            |                    |
| MPE-16 | 06/15/10 | 63.40                | 65.03                                      | 1.63               | Bailed          | 2.00               | 66.07             | 66.37                                      | 0.30               |
|        | 06/16/10 | 64.41                | 65.10                                      | 0.69               | Bailed          | 0.50               | 0.00              | 67.78                                      | --                 |
|        | 04/17/11 | 64.25                | 65.18                                      | 0.93               | None            |                    |                   |                                            |                    |
|        | 12/22/11 | 64.61                | 65.79                                      | 1.18               | None            |                    |                   |                                            |                    |
|        | 04/17/12 | 64.74                | 67.17                                      | 2.43               | None            |                    |                   |                                            |                    |
| MPE-20 | 06/15/10 | 61.24                | 65.09                                      | 3.85               | Bailed          | 8.00               | 65.70             | 66.28                                      | 0.58               |
|        | 06/16/10 | 62.26                | 64.16                                      | 1.90               | Bailed          | 4.00               | 64.85             | 65.60                                      | 0.75               |
|        | 04/17/11 | 62.10                | 64.45                                      | 2.35               | None            |                    |                   |                                            |                    |
|        | 12/22/11 | 62.70                | 64.58                                      | 1.88               | None            |                    |                   |                                            |                    |
|        | 04/17/12 | 63.09                | 64.86                                      | 1.77               | None            |                    |                   |                                            |                    |
| MPE-23 | 06/15/10 | 61.71                | 62.70                                      | 0.99               | Bailed          | 7.00               | 0.00              | 62.80                                      | --                 |
|        | 06/16/10 | 62.31                | 62.58                                      | 0.27               | Bailed          | 0.10               | 0.00              | 64.95                                      | --                 |
|        | 04/17/11 | 62.31                | 62.78                                      | 0.47               | None            |                    |                   |                                            |                    |
|        | 12/22/11 | 62.45                | 64.70                                      | 2.25               | None            |                    |                   |                                            |                    |
|        | 04/17/12 | 62.57                | 64.58                                      | 2.01               | None            |                    |                   |                                            |                    |
| MPE-24 | 06/15/10 | 56.98                | 58.73                                      | 1.75               | Bailed          | 5.00               | 65.80             | 65.82                                      | 0.02               |
|        | 06/16/10 | 58.65                | 59.28                                      | 0.63               | Bailed          | 0.50               | 61.59             | 61.60                                      | 0.01               |
|        | 04/17/11 | 57.57                | 59.57                                      | 2.00               | None            |                    |                   |                                            |                    |
|        | 12/22/11 | 58.27                | 60.95                                      | 2.68               | None            |                    |                   |                                            |                    |
|        | 04/17/12 | 58.43                | 61.11                                      | 2.68               | None            |                    |                   |                                            |                    |
| MPE-26 | 06/15/10 | 63.97                | 64.50                                      | 0.53               | Bailed          | 4.00               | 0.00              | 67.25                                      | --                 |
|        | 06/16/10 | 64.47                | 64.56                                      | 0.09               | Bailed          | 0.10               | 0.00              | 66.76                                      | --                 |
|        | 04/17/11 | 0.00                 | 64.70                                      | --                 | None            |                    |                   |                                            |                    |
|        | 12/22/11 | 65.19                | 65.63                                      | 0.44               | None            |                    |                   |                                            |                    |
|        | 04/17/12 | 64.92                | 65.48                                      | 0.56               | None            |                    |                   |                                            |                    |
| MPE-27 | 06/15/10 | 62.28                | 64.80                                      | 2.52               | Bailed          | 5.50               | 65.21             | 65.82                                      | 0.61               |
|        | 06/16/10 | 62.66                | 64.25                                      | 1.59               | Bailed          | 2.00               | 64.11             | 64.71                                      | 0.60               |
|        | 04/17/11 | 62.54                | tag top of pump @ 62.61                    | --                 | None            |                    |                   |                                            |                    |
|        | 12/22/11 | 0.00                 | 62.81                                      | --                 | None            |                    |                   |                                            |                    |
|        | 04/17/12 | 63.34                | 63.63                                      | 0.29               | None            |                    |                   |                                            |                    |
| MPE-28 | 06/15/10 | 55.60                | 59.11                                      | 3.51               | Bailed          | 6.00               | 56.55             | 56.85                                      | 0.30               |
|        | 06/16/10 | 56.29                | 56.73                                      | 0.44               | Bailed          | 1.50               | 56.70             | 56.72                                      | 0.02               |
|        | 04/17/11 | 0.00                 | 56.78                                      | --                 | None            |                    |                   |                                            |                    |
|        | 12/22/11 | 0.00                 | 58.61                                      | --                 | None            |                    |                   |                                            |                    |
|        | 04/17/12 | 0.00                 | 57.45                                      | --                 | None            |                    |                   |                                            |                    |
| MPE-31 | 06/15/10 | 0.00                 | 62.79                                      | --                 | None            |                    |                   |                                            |                    |
|        | 04/17/11 | 0.00                 | 63.41                                      | --                 | None            |                    |                   |                                            |                    |
|        | 12/22/11 | 64.22                | 64.69                                      | 0.47               | None            |                    |                   |                                            |                    |
|        | 04/17/12 | 64.04                | 64.45                                      | 0.41               | None            |                    |                   |                                            |                    |
| MW-1B  | 06/15/10 | 60.33                | 61.86                                      | 1.53               | Bailed          | 0.75               | 63.18             | 63.25                                      | 0.07               |
|        | 06/17/10 | 60.26                | 61.88                                      | 1.62               | Bailed          | 1.50               | 63.41             | 63.74                                      | 0.33               |
|        | 04/17/11 | 60.18                | 62.05                                      | 1.87               | None            |                    |                   |                                            |                    |
|        | 12/22/11 | 61.01                | 63.24                                      | 2.23               | None            |                    |                   |                                            |                    |
|        | 04/17/12 | 60.65                | 62.45                                      | 1.80               | None            |                    |                   |                                            |                    |
| MW-12  | 06/15/10 | 56.61                | 57.92                                      | 1.31               | Bailed          | 2.25               | 57.35             | 58.75                                      | 1.40               |
|        | 06/17/10 | 56.26                | 57.33                                      | 1.07               | Bailed          | 1.00               | 56.92             | 57.81                                      | 0.89               |
|        | 04/17/11 | 56.00                | 57.47                                      | 1.47               | None            |                    |                   |                                            |                    |
|        | 12/22/11 | 57.01                | 57.18                                      | 0.17               | None            |                    |                   |                                            |                    |
|        | 04/17/12 | 56.75                | 59.72                                      | 2.97               | None            |                    |                   |                                            |                    |

**Table 2b. Summary for Product Removal Efforts  
Roswell Station Remediation Site**

| Well  | Date     | Initial Measurements |                                            |                    | Removal Actions |                    | Post Measurements |                                            |                    |
|-------|----------|----------------------|--------------------------------------------|--------------------|-----------------|--------------------|-------------------|--------------------------------------------|--------------------|
|       |          | Depth to PSH (ft)    | Depth to Water or PSH/Water Interface (ft) | PSH Thickness (ft) | Removal Methods | PSH Removed (gals) | Depth to PSH (ft) | Depth to Water or PSH/Water Interface (ft) | PSH Thickness (ft) |
|       |          |                      |                                            |                    |                 |                    |                   |                                            |                    |
| MW-27 | 06/15/10 | 68.30                | 68.78                                      | 0.48               | Bailed          | 0.15               | 69.08             | 69.18                                      | 0.10               |
|       | 06/17/10 | 68.34                | 68.88                                      | 0.54               | Bailed          | 0.15               | 69.11             | 69.15                                      | 0.04               |
|       | 04/17/11 | 68.10                | 68.26                                      | 0.16               | None            |                    |                   |                                            |                    |
|       | 12/22/11 | 68.21                | 68.35                                      | 0.14               | None            |                    |                   |                                            |                    |
|       | 04/17/12 | 67.38                | 67.52                                      | 0.14               | None            |                    |                   |                                            |                    |

**Table 3. Summary of Field Measured Parameters  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Date     | Dissolved Oxygen (mg/L)<br>Meter/Hach | pH   | Temperature °C | Electrical Conductivity (µS/cm) | Turbidity (NTU/FTU) | Remarks                                   |
|---------|----------|---------------------------------------|------|----------------|---------------------------------|---------------------|-------------------------------------------|
| MW-3    | 11/03/97 | 4.50                                  | 7.21 | 19.2           | 3,620                           | 1.31                | Clear                                     |
|         | 01/27/98 | 5.00                                  | 7.28 | 18.5           | 3,630                           | 4.31                | Clear                                     |
|         | 05/26/98 | 5.60                                  | 7.18 | 21.4           | 3,980                           | 8.04                | Clear                                     |
|         | 08/13/98 | 6.10                                  | 7.19 | 22.2           | 3,930                           | 5.06                | Clear                                     |
|         | 12/24/98 | 4.90                                  | 7.26 | 16.5           | 3,940                           | 5.34                | Clear                                     |
|         | 03/24/99 | --/6.0                                | 7.13 | 19.7           | 3,980                           | 7.34                | Clear                                     |
|         | 09/07/99 | 9.0/7.0                               | 7.17 | 20.6           | 3,800                           | --                  | Clear                                     |
|         | 03/27/00 | 6.80                                  | 7.30 | 19.0           | 3,930                           | --                  | Clear                                     |
|         | 03/27/01 | 5.90                                  | 7.21 | 19.3           | 3,930                           | --                  | Clear                                     |
|         | 07/03/02 | 5.30                                  | 6.81 | 21.8           | 3,820                           | --                  | Clear                                     |
|         | 08/01/03 | 6.90                                  | 7.20 | 23.8           | 3,940                           | --                  | Clear                                     |
|         | 09/10/04 | 7.50                                  | 7.10 | 19.6           | 3,830                           | --                  | Turbid, brown                             |
|         | 10/07/05 | 5.20                                  | 7.03 | 19.0           | 3,110                           | --                  | Turbid, red                               |
|         | 09/22/06 | 7.88                                  | 7.08 | 19.6           | 3,489                           | --                  | Turbid                                    |
|         | 09/27/07 | 6.34                                  | 6.42 | 19.4           | 3,551                           | --                  | Turbid                                    |
|         | 09/16/08 | 6.16                                  | 7.31 | 19.4           | 3,254                           | --                  | Turbid                                    |
| MW-5    | 10/31/97 | 7.00                                  | 7.12 | 19.9           | 4,020                           | --                  | Clear                                     |
|         | 01/27/98 | 7.80                                  | 7.38 | 17.7           | 1,980                           | 7.82                | Clear                                     |
|         | 05/26/98 | 10.00                                 | 7.13 | 24.4           | 4,100                           | 6.80                | Clear                                     |
|         | 08/11/98 | 8.30                                  | 7.18 | 20.7           | 4,210                           | 5.99                | Clear                                     |
|         | 12/22/98 | 6.5/7.0                               | 7.17 | 14.6           | 4,680                           | 5.36                | Clear                                     |
|         | 03/23/99 | 8.40                                  | 7.10 | 19.4           | 4,360                           | 3.37                | Clear                                     |
| MW-6    | 10/31/97 | 6.90                                  | 7.21 | 21.6           | 3,180                           | --                  | Clear                                     |
|         | 01/26/98 | 6.40                                  | 7.23 | 17.3           | 3,200                           | 6.08                | Clear                                     |
|         | 05/26/98 | 8.20                                  | 7.19 | 21.2           | 3,450                           | 4.67                | Clear                                     |
|         | 08/11/98 | 9.0/8.0                               | 7.24 | 22.4           | 3,430                           | 8.03                | Clear                                     |
|         | 12/22/98 | 6.70                                  | 7.29 | 15.7           | 3,740                           | 13.72               | Clear                                     |
|         | 03/23/99 | 8.0/7.0                               | 7.20 | 19.9           | 3,460                           | 4.93                | Clear                                     |
| MW-7    | 11/03/97 | 2.50                                  | 7.28 | 18.1           | 3,540                           | 11.30               | Clear                                     |
|         | 01/29/98 | 1.80                                  | 7.25 | 18.4           | 3,540                           | 5.68                | Clear                                     |
|         | 05/28/98 | 3.60                                  | 7.14 | 23.5           | 3,820                           | 9.35                | Clear                                     |
|         | 08/14/98 | 3.6/2.6                               | 7.23 | 21.7           | 3,770                           | 6.89                | Clear                                     |
|         | 12/27/98 | 2.70                                  | 7.20 | 17.5           | 3,790                           | 6.09                | Clear                                     |
|         | 03/25/99 | 3.0/3.4                               | 7.14 | 17.6           | 3,780                           | 4.40                | Clear, Bailed down                        |
|         | 09/07/99 | 2.50                                  | 7.18 | 20.0           | 3,810                           | --                  | Clear                                     |
|         | 03/28/00 | 2.60                                  | 7.21 | 19.1           | 3,780                           | 13.63               | Clear                                     |
|         | 11/18/00 | --/3.8                                | 7.31 | 18.6           | 3,430                           | --                  | Clear                                     |
|         | 03/28/01 | 3.90                                  | 7.21 | 19.5           | 3,810                           | 4.88                | Clear                                     |
|         | 10/08/01 | 4.60                                  | 7.20 | 19.8           | 3,990                           | --                  | Clear                                     |
|         | 07/01/02 | 6.90                                  | 6.67 | 21.2           | 3,690                           | --                  | Clear                                     |
|         | 08/02/03 | 4.00                                  | 7.24 | 22.4           | 3,780                           | --                  | Clear                                     |
|         | 09/09/04 | 4.21                                  | 7.05 | 20.7           | 3,191                           | --                  | Clear                                     |
|         | 10/07/05 | 3.20                                  | 7.09 | 18.6           | 3,000                           | --                  | Clear                                     |
|         | 09/22/06 | 3.55                                  | 7.23 | 20.3           | 3,408                           | --                  | Clear                                     |
|         | 09/26/07 | 4.14                                  | 7.31 | 20.1           | 3,445                           | --                  | Clear                                     |
|         | 09/11/08 | 5.15                                  | 7.08 | 20.1           | 3,019                           | --                  | Clear                                     |
| MW-8    | 11/02/97 | 4.40                                  | 7.16 | 18.5           | 3,730                           | 6.91                | Clear                                     |
|         | 01/29/98 | 4.20                                  | 7.17 | 19.8           | 3,730                           | 2.41                | Clear                                     |
|         | 05/28/98 | 4.70                                  | 7.11 | 19.8           | 4,000                           | 4.66                | Clear                                     |
|         | 08/14/98 | 4.30                                  | 7.10 | 20.6           | 3,970                           | 4.62                | Clear                                     |
|         | 12/27/98 | 4.70                                  | 7.14 | 19.1           | 4,010                           | 5.54                | Clear                                     |
|         | 03/25/99 | 4.0/3.8                               | 7.07 | 18.4           | 4,040                           | 4.15                | Clear                                     |
| MW-9    | 11/02/97 | 5.50                                  | 7.32 | 18.6           | 4,110                           | 180                 | Cloudy                                    |
|         | 01/29/98 | 3.90                                  | 7.35 | 16.9           | 4,090                           | --                  | Slightly Turbid                           |
|         | 05/28/98 | 6.00                                  | 7.25 | 20.8           | 4,440                           | 62                  | Cloudy                                    |
|         | 08/14/98 | 5.30                                  | 7.23 | 21.4           | 4,400                           | 91/80               | Cloudy, (80 FTU dissolved metals reading) |
|         | 12/27/98 | 5.30                                  | 7.35 | 17.9           | 4,400                           | 97                  | Cloudy                                    |
|         | 03/24/99 | --/7.0                                | 7.31 | 18.9           | 4,430                           | 84                  | Cloudy, Bailed down                       |

**Table 3. Summary of Field Measured Parameters  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Date     | Dissolved<br>Oxygen (mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µS/cm) | Turbidity<br>(NTU/FTU) | Remarks                  |
|---------|----------|------------------------------------------|------|-------------------|---------------------------------------|------------------------|--------------------------|
| MW-10   | 11/01/97 | 6.90                                     | 7.14 | 19.7              | 3,600                                 | 3.40                   | Clear                    |
|         | 01/27/98 | 5.90                                     | 7.20 | 19.6              | 3,570                                 | 0.31                   | Clear                    |
|         | 05/26/98 | 7.20                                     | 7.16 | 22.7              | 3,900                                 | 2.60                   | Clear                    |
|         | 08/13/98 | 6.1/6.0                                  | 7.12 | 20.1              | 3,840                                 | 0.92                   | Clear                    |
|         | 12/22/98 | 5.90                                     | 7.18 | 14.7              | 4,190                                 | 3.18                   | Clear                    |
|         | 03/23/99 | 6.1/6.0                                  | 7.09 | 18.9              | 3,900                                 | 2.38                   | Clear                    |
|         | 09/07/99 | 6.2/6.0                                  | 7.05 | 20.1              | 3,400                                 | --                     | Clear                    |
|         | 03/27/00 | 5.8/5.5                                  | 7.17 | 19.4              | 3,860                                 | --                     | Clear                    |
|         | 03/27/01 | 5.5/5.2                                  | 7.13 | 18.9              | 3,830                                 | --                     | Clear                    |
|         | 07/03/02 | 4.70                                     | 6.88 | 20.4              | 3,760                                 | --                     | Clear                    |
|         | 08/01/03 | 6.70                                     | 7.10 | 23.5              | 3,860                                 | --                     | Clear                    |
|         | 09/09/04 | 4.16                                     | 6.94 | 20.1              | 3,227                                 | --                     | Clear                    |
|         | 10/07/05 | 3.60                                     | 7.04 | 19.3              | 3,100                                 | --                     | Clear                    |
|         | 09/22/06 | 4.58                                     | 6.90 | 19.4              | 3,396                                 | --                     | Clear                    |
|         | 09/27/07 | 5.62                                     | 7.64 | 20.2              | 3,495                                 | --                     | Clear                    |
|         | 09/16/08 | 3.47                                     | 7.23 | 20.0              | 3,226                                 | --                     | Cloudy                   |
| MW-11   | 11/01/97 | 7.10                                     | 7.21 | 19.5              | 3,640                                 | 4.40                   | Clear                    |
|         | 01/27/98 | 6.70                                     | 7.25 | 17.8              | 3,610                                 | 2.71                   | Clear                    |
|         | 05/26/98 | 7.90                                     | 7.24 | 21.6              | 3,950                                 | 30.01                  | Clear                    |
|         | 08/13/98 | 7.90                                     | 7.26 | 20.3              | 3,890                                 | 5.52                   | Clear                    |
|         | 12/22/98 | 5.40                                     | 7.25 | 15.6              | 3,610                                 | 10.19                  | Clear                    |
|         | 03/24/99 | --/7.0                                   | 7.25 | 20.1              | 3,030                                 | 8.68                   | Clear                    |
|         | 09/07/99 | 6.70                                     | 7.27 | 19.5              | 3,200                                 | --                     | Clear                    |
|         | 03/27/00 | 6.40                                     | 7.29 | 19.0              | 3,500                                 | --                     | Clear                    |
|         | 03/27/01 | 5.8/5.4                                  | 7.22 | 19.1              | 3,780                                 | --                     | Clear                    |
|         | 07/03/02 | 3.60                                     | 6.92 | 20.6              | 3,780                                 | --                     | Clear                    |
|         | 08/01/03 | 7.40                                     | 7.21 | 22.4              | 3,870                                 | --                     | Clear                    |
|         | 09/09/04 | 7.04                                     | 6.94 | 20.0              | 3,287                                 | --                     | Clear                    |
|         | 10/07/05 | 3.20                                     | 7.05 | 19.1              | 3,140                                 | --                     | Clear                    |
|         | 09/22/06 | 8.32                                     | 6.64 | 19.5              | 3,582                                 | --                     | Turbid                   |
|         | 09/27/07 | 6.05                                     | 6.28 | 19.2              | 3,570                                 | --                     | Turbid                   |
|         | 09/11/08 | 7.11                                     | 7.11 | 19.2              | 3,291                                 | --                     | Turbid                   |
| MW-12   | 11/04/97 | 3.40                                     | 7.29 | 20.1              | 3,790                                 | 1.77                   | Clear, Odor              |
|         | 01/30/98 | 1.20                                     | 7.16 | 18.7              | 3,540                                 | --                     | Clear, Odor              |
|         | 05/28/98 | 2.40                                     | 7.19 | 20.8              | 3,850                                 | 2.83                   | Clear                    |
|         | 08/15/98 | 2.50                                     | 7.19 | 20.6              | 3,900                                 | 3.87                   | Clear, Odor              |
|         | 12/28/98 | 0.70                                     | 7.24 | 17.8              | 3,820                                 | 2.83                   | Clear                    |
|         | 03/26/99 | 1.7/1.2                                  | 7.11 | 18.2              | 3,930                                 | 1.55                   | Clear, Odor              |
|         | 09/07/99 | 0.70                                     | 7.45 | 20.6              | 3,960                                 | --                     | Clear                    |
|         | 03/29/00 | 2.2/1.8                                  | 7.18 | 19.5              | 3,920                                 | 2.34                   | Clear, Odor              |
|         | 11/18/00 | --                                       | 7.26 | 19.0              | 3,470                                 | --                     | Clear                    |
|         | 03/29/01 | 1.70                                     | 7.18 | 20.1              | 3,920                                 | 2.62                   | Clear, Slight odor       |
|         | 10/08/01 | 2.40                                     | 7.22 | 19.3              | 4,190                                 | --                     | Clear                    |
|         | 07/01/02 | 2.10                                     | 6.98 | 20.4              | 3,770                                 | --                     | Clear                    |
|         | 02/03/03 | 1.10                                     | 7.34 | 18.1              | 3,840                                 | --                     | Clear                    |
|         | 08/02/03 | 0.80                                     | 7.22 | 22.5              | 3,890                                 | --                     | Clear                    |
|         | 03/23/04 | 1.07                                     | 6.95 | 19.1              | 3,190                                 | --                     | Clear, Slight odor       |
|         | 09/09/04 | 1.20                                     | 6.99 | 20.2              | 2,835                                 | --                     | Clear                    |
|         | 04/01/05 | 5.70                                     | 7.22 | 18.7              | 4,430                                 | --                     | Clear                    |
|         | 10/07/05 | 0.90                                     | 7.01 | 19.1              | 2,760                                 | --                     | Clear                    |
|         | 03/25/06 | 2.40                                     | 7.23 | 18.4              | 2,588                                 | --                     | Clear                    |
|         | 09/22/06 | 2.35                                     | 7.26 | 21.4              | 3,363                                 | --                     | Clear                    |
|         | 03/15/07 | 2.60                                     | 6.86 | 19.4              | 3,102                                 | --                     | Clear                    |
|         | 09/26/07 | 1.42                                     | 7.35 | 19.9              | 2,499                                 | --                     | Clear, turns black, odor |
|         | 03/07/08 | 1.79                                     | 7.49 | 17.6              | 2,760                                 | --                     | Clear, Odor              |



**Table 3. Summary of Field Measured Parameters  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Date     | Dissolved<br>Oxygen (mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µS/cm) | Turbidity<br>(NTU/FTU) | Remarks                         |
|---------|----------|------------------------------------------|------|-------------------|---------------------------------------|------------------------|---------------------------------|
| MW-13   | 11/04/97 | 1.10                                     | 7.10 | 19.8              | 3,840                                 | 1.76                   | Clear, Odor                     |
|         | 01/30/98 | 0.20                                     | 6.99 | 18.7              | 3,780                                 | --                     | Clear, Odor                     |
|         | 05/28/98 | 2.40                                     | 6.98 | 21.8              | 4,070                                 | 10.24                  | Clear, Sewage Odor              |
|         | 08/15/98 | 1.1/0                                    | 6.92 | 20.8              | 4,140                                 | 6.89                   | Clear, Sewage Odor              |
|         | 12/27/98 | 0.90                                     | 6.98 | 19.2              | 3,940                                 | 10.47                  | Clear, Odor                     |
|         | 03/26/99 | 0.6/0.4                                  | --   | 18.8              | 3,980                                 | 7.96                   | Clear, Odor, turns black in air |
|         | 09/08/99 | 1.5/2.0                                  | 6.90 | 20.1              | 4,020                                 | --                     | Clear, Odor                     |
|         | 03/29/00 | 1.8/0                                    | 6.89 | 19.5              | 4,130                                 | 11.28                  | Clear, Odor                     |
|         | 11/18/00 | --/0.6                                   | 6.81 | 18.9              | 3,730                                 | --                     | Strong sulfur smell             |
|         | 03/29/01 | 0.90                                     | 6.89 | 20.1              | 4,120                                 | 7.99                   | Clear, Odor                     |
|         | 10/09/01 | 1.60                                     | 6.81 | 20.4              | 4,390                                 | --                     | Clear with odor                 |
|         | 07/01/02 | 2.00                                     | 6.72 | 21.4              | 3,540                                 | --                     | Clear turns black, sulfur odor  |
|         | 02/04/03 | 0.60                                     | 7.02 | 18.3              | 4,250                                 | --                     | Clear with sulfur smell         |
|         | 08/02/03 | 0.50                                     | 6.99 | 23.5              | 4,060                                 | --                     | Clear                           |
|         | 03/23/04 | 0.92                                     | 6.76 | 20.2              | 3,560                                 | --                     | Clear, odor                     |
|         | 09/09/04 | 2.14                                     | 6.87 | 21.5              | 3,481                                 | --                     | Clear                           |
|         | 04/02/05 | 4.10                                     | 7.19 | 20.2              | 4,930                                 | --                     | Clear                           |
|         | 10/07/05 | 1.30                                     | 6.94 | 21.2              | 3,440                                 | --                     | Clear                           |
|         | 03/25/06 | 2.20                                     | 7.19 | 20.7              | 3,129                                 | --                     | Clear                           |
|         | 09/22/06 | 3.11                                     | 7.11 | 21.6              | 3,728                                 | --                     | Clear                           |
|         | 03/15/07 | 2.18                                     | 7.07 | 20.9              | 3,660                                 | --                     | Clear                           |
|         | 09/26/07 | 2.12                                     | 7.38 | 22.8              | 3,867                                 | --                     | Clear                           |
|         | 03/08/08 | 2.90                                     | 7.40 | 20.6              | 3,990                                 | --                     | Clear                           |
|         | 09/16/08 | 1.76                                     | 7.23 | 22.4              | 3,387                                 | --                     | Clear                           |
|         | 03/11/09 | 2.75                                     | 7.05 | 20.4              | 3,839                                 | --                     | Clear                           |
|         | 10/07/09 | 1.41                                     | 6.79 | 22.1              | 4,059                                 | --                     | Clear                           |
|         | 09/23/10 | 0.51                                     | 6.93 | 23.2              | 4,128                                 | --                     | Clear                           |
|         | 01/02/12 | 3.17                                     | 6.88 | 18.3              | 3,613                                 | --                     | Clear                           |
|         | 10/19/12 | 0.71                                     | 7.17 | 22.9              | 3,952                                 | --                     | Clear, bailed down              |
|         |          |                                          |      |                   |                                       |                        |                                 |
| MW-14   | 11/02/97 | 2.10                                     | 7.16 | 18.5              | 3,620                                 | 1.09                   | Clear                           |
|         | 01/29/98 | 3.20                                     | 7.20 | 17.9              | 3,600                                 | 2.32                   | Clear                           |
|         | 05/27/98 | 5.00                                     | 7.18 | 24.8              | 3,890                                 | 2.11                   | Clear                           |
|         | 08/11/98 | 5.00                                     | 7.17 | 25.1              | 3,880                                 | 4.76                   | Clear                           |
|         | 12/23/98 | 2.40                                     | 7.15 | 18.4              | 3,890                                 | 2.10                   | Clear                           |
|         | 03/25/99 | 3.70                                     | 7.13 | 18.7              | 3,900                                 | 1.17                   | Clear                           |
|         | 09/07/99 | 5.80                                     | 7.09 | 21.0              | 3,930                                 | --                     | Clear                           |
|         | 03/28/00 | 2.70                                     | 7.20 | 19.2              | 3,850                                 | --                     | Clear                           |
|         | 03/28/01 | 2.10                                     | 7.17 | 19.6              | 3,850                                 | --                     | Clear                           |
|         | 07/03/02 | 2.90                                     | 6.90 | 19.7              | 3,750                                 | --                     | Clear                           |
|         | 08/01/03 | 1.80                                     | 7.19 | 22.5              | 3,860                                 | --                     | Clear                           |
|         | 09/09/04 | 2.21                                     | 7.01 | 20.2              | 3,247                                 | --                     | Clear                           |
|         | 10/07/05 | 1.60                                     | 7.05 | 18.9              | 3,110                                 | --                     | Clear                           |
|         | 09/22/06 | 1.40                                     | 7.20 | 20.1              | 3,456                                 | --                     | Clear                           |
|         | 09/27/07 | 1.13                                     | 7.69 | 20.5              | 3,530                                 | --                     | Clear                           |
|         | 09/11/08 | 1.21                                     | 7.00 | 19.7              | 3,071                                 | --                     | Clear                           |
|         | 10/07/09 | 0.35                                     | 7.00 | 19.9              | 3,866                                 | --                     | Clear                           |
|         | 09/23/10 | 1.63                                     | 6.97 | 20.1              | 3,926                                 | --                     | Clear                           |
|         | 01/02/12 | 5.11                                     | 7.04 | 15.3              | 3,459                                 | --                     | Clear                           |
|         | 10/19/12 | 0.77                                     | 7.08 | 20.4              | 3,796                                 | --                     | Clear, bailed down              |
|         |          |                                          |      |                   |                                       |                        |                                 |

**Table 3. Summary of Field Measured Parameters  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Date     | Dissolved<br>Oxygen (mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µS/cm) | Turbidity<br>(NTU/FTU) | Remarks                      |
|---------|----------|------------------------------------------|------|-------------------|---------------------------------------|------------------------|------------------------------|
| MW-15   | 11/02/97 | 3.60                                     | 7.32 | 20.1              | 3,970                                 | 1.54                   | Clear                        |
|         | 01/28/98 | 3.60                                     | 7.41 | 17.7              | 3,930                                 | 2.36                   | Clear                        |
|         | 01/27/98 | 4.10                                     | 7.28 | 22.1              | 4,330                                 | 1.82                   | Clear                        |
|         | 08/13/98 | 4.40                                     | 7.24 | 20.7              | 4,270                                 | 1.57                   | Clear                        |
|         | 12/24/98 | 5.40                                     | 7.24 | 15.5              | 4,160                                 | 1.49                   | Clear                        |
|         | 03/24/99 | --/6.0                                   | 7.16 | 19.9              | 4,310                                 | 1.71                   | Clear                        |
|         | 09/07/99 | 6.20                                     | 7.20 | 20.6              | 3,900                                 | --                     | Clear                        |
|         | 03/28/00 | 5.0/4.6                                  | 7.25 | 19.2              | 4,240                                 | --                     | Clear                        |
|         | 03/28/01 | 4.20                                     | 7.23 | 19.5              | 4,280                                 | --                     | Clear                        |
|         | 07/03/02 | 6.40                                     | 7.00 | 19.7              | 4,170                                 | --                     | Clear                        |
|         | 08/01/03 | 5.40                                     | 7.27 | 22.4              | 4,290                                 | --                     | Clear                        |
|         | 09/09/04 | 4.92                                     | 7.05 | 20.0              | 3,591                                 | --                     | Clear                        |
|         | 10/07/05 | 3.80                                     | 7.04 | 18.6              | 3,390                                 | --                     | Clear                        |
|         | 09/22/06 | 4.10                                     | 7.22 | 19.6              | 3,792                                 | --                     | Clear                        |
|         | 09/27/07 | 4.50                                     | 7.57 | 19.9              | 3,841                                 | --                     | Clear                        |
|         | 09/11/08 | 5.08                                     | 7.04 | 19.4              | 3,384                                 | --                     | Clear                        |
| MW-17   | 11/02/97 | 5.80                                     | 7.26 | 18.5              | 3,910                                 | 1.20                   | Clear                        |
|         | 01/28/98 | 4.90                                     | 7.01 | 18.2              | 3,880                                 | 2.71                   | Clear                        |
|         | 05/27/98 | 6.30                                     | 7.25 | 21.9              | 4,250                                 | 1.95                   | Clear                        |
|         | 08/13/98 | 6.70                                     | 7.28 | 20.1              | 4,210                                 | 1.65                   | Clear                        |
|         | 12/24/98 | 4.50                                     | 7.25 | 17.7              | 4,220                                 | 3.30                   | Clear                        |
|         | 03/25/99 | 5.60                                     | 7.21 | 18.6              | 4,260                                 | 1.32                   | Clear w/ flec's, Sewage Odor |
|         | 09/07/99 | 7.5/7.0                                  | 7.26 | 20.4              | 4,000                                 | --                     | Clear                        |
|         | 03/28/00 | 5.7/4.8                                  | 7.26 | 19.3              | 4,190                                 | --                     | Clear                        |
|         | 03/27/01 | 5.40                                     | 7.28 | 19.3              | 4,210                                 | --                     | Clear                        |
|         | 07/03/02 | 5.90                                     | 7.03 | 19.6              | 4,110                                 | --                     | Clear                        |
|         | 08/01/03 | 6.40                                     | 7.28 | 22.2              | 4,230                                 | --                     | Clear                        |
|         | 09/10/04 | 6.98                                     | 7.14 | 19.4              | 3,545                                 | --                     | Clear                        |
|         | 10/07/05 | 3.80                                     | 7.10 | 18.6              | 3,380                                 | --                     | --                           |
|         | 09/22/06 | 7.54                                     | 7.20 | 19.4              | 3,839                                 | --                     | Turbid                       |
|         | 09/27/07 | 6.30                                     | 7.76 | 19.5              | 3,759                                 | --                     | Cloudy                       |
|         | 09/11/08 | 6.51                                     | 7.08 | 19.2              | 3,316                                 | --                     | Clear                        |
| MW-18   | 11/01/97 | 7.60                                     | 7.41 | 18.6              | 3,850                                 | 0.73                   | Clear                        |
|         | 01/28/98 | 7.60                                     | 7.36 | 17.6              | 3,810                                 | 0.63                   | Clear                        |
|         | 05/27/98 | 8.20                                     | 7.55 | 21.1              | 4,170                                 | 2.81                   | Clear                        |
|         | 08/13/98 | 8.3/8.0                                  | 7.55 | 21.8              | 4,130                                 | 1.08                   | Clear                        |
|         | 12/24/98 | 6.00                                     | 7.44 | 14.5              | 4,030                                 | 0.72                   | Clear                        |
|         | 03/24/99 | --/8.0                                   | 7.45 | 19.8              | 4,180                                 | 1.47                   | Clear, Bailed down           |
| MW-19   | 11/01/97 | 8.00                                     | 7.33 | 19.1              | 4,080                                 | 0.85                   | Clear                        |
|         | 01/27/98 | 6.20                                     | 7.31 | 18.2              | 4,030                                 | 4.03                   | Clear                        |
|         | 05/27/98 | 7.20                                     | 7.20 | 19.4              | 4,400                                 | 3.06                   | Clear                        |
|         | 08/13/98 | 8.00                                     | 7.28 | 20.8              | 4,370                                 | 2.25                   | Clear                        |
|         | 12/23/98 | 6.80                                     | 7.41 | 16.2              | 4,390                                 | 6.97                   | Clear                        |
|         | 03/24/99 | --/7.2                                   | 7.23 | 18.7              | 4,380                                 | 9.08                   | Clear                        |

**Table 3. Summary of Field Measured Parameters  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Date     | Dissolved<br>Oxygen (mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µS/cm) | Turbidity<br>(NTU/FTU) | Remarks                         |
|---------|----------|------------------------------------------|------|-------------------|---------------------------------------|------------------------|---------------------------------|
| MW-20   | 11/03/97 | 1.40                                     | 6.90 | 18.6              | 3,750                                 | 12.6                   | Clear                           |
|         | 11/03/97 | 1.00                                     | 6.86 | 18.2              | 3,710                                 | --                     | Clear                           |
|         | 05/29/98 | 3.90                                     | 6.81 | 20.8              | 4,000                                 | 4.11                   | Clear, Slightly cloudy at end   |
|         | 08/15/98 | 2.60                                     | 6.86 | 20.5              | 4,060                                 | 13.57                  | Clear                           |
|         | 12/28/98 | 2.2/1.8                                  | 6.88 | 18.5              | 4,060                                 | 9.30                   | Clear                           |
|         | 03/26/99 | 1.50                                     | 6.78 | 18.1              | 4,130                                 | 3.23                   | Clear                           |
|         | 09/08/99 | 1.50                                     | 6.79 | 19.2              | 4,040                                 | --                     | Clear                           |
|         | 03/29/00 | 1.80                                     | 6.82 | 19.0              | 4,070                                 | 1.89                   | Clear                           |
|         | 11/15/00 | 1.80                                     | 6.76 | 18.5              | 3,680                                 | --                     | Clear                           |
|         | 03/29/01 | 1.90                                     | 6.82 | 19.6              | 4,070                                 | 1.99                   | Clear                           |
|         | 10/08/01 | 2.30                                     | 6.71 | 19.0              | 4,280                                 | --                     | Clear                           |
|         | 07/01/02 | 3.00                                     | 6.66 | 19.8              | 3,880                                 | --                     | Clear                           |
|         | 02/03/03 | 1.50                                     | 6.88 | 17.8              | 3,930                                 | --                     | Clear                           |
|         | 08/03/03 | 1.40                                     | 6.87 | 21.9              | 3,980                                 | --                     | Clear                           |
|         | 03/23/04 | 1.13                                     | 6.76 | 18.5              | 3,380                                 | --                     | Clear, trace of yellow          |
|         | 09/09/04 | 2.01                                     | 6.73 | 19.6              | 3,414                                 | --                     | Clear                           |
|         | 04/01/05 | 4.60                                     | 6.87 | 19.4              | 4,800                                 | --                     | Clear                           |
|         | 10/07/05 | 2.10                                     | 6.78 | 18.4              | 3,190                                 | --                     | Clear                           |
|         | 03/25/06 | 6.75                                     | 7.11 | 18.6              | 2,959                                 | --                     | Clear                           |
|         | 09/22/06 | 5.10                                     | 7.16 | 19.4              | 3,454                                 | --                     | Clear                           |
|         | 03/15/07 | 6.01                                     | 6.85 | 19.0              | 3,368                                 | --                     | Clear                           |
|         | 09/26/07 | 3.12                                     | 7.23 | 19.2              | 3,581                                 | --                     | Clear                           |
|         | 03/07/08 | 1.80                                     | 7.03 | 20.5              | 3,900                                 | --                     | Clear                           |
|         | 09/16/08 | 6.15                                     | 7.23 | 19.2              | 3,398                                 | --                     | Clear                           |
|         | 03/12/09 | 4.11                                     | 6.98 | 18.0              | 3,820                                 | --                     | Clear                           |
|         | 10/07/09 | 7.60                                     | 6.65 | 20.0              | 3,796                                 | --                     | Clear                           |
|         | 03/30/10 | 1.90                                     | 6.63 | 18.8              | 3,822                                 | --                     | Clear                           |
|         | 09/24/10 | 6.90                                     | 7.06 | 19.3              | 4,022                                 | --                     | Turbid                          |
|         | 04/19/11 | 4.44                                     | 6.91 | 19.3              | 4,008                                 | --                     | Clear                           |
|         | 01/03/12 | 5.15                                     | 7.06 | 17.6              | 3,663                                 | --                     | Clear, Slight odor              |
|         | 04/18/12 | 4.71                                     | 7.05 | 19.3              | 3,915                                 | --                     | Clear                           |
|         | 10/19/12 | 5.55                                     | 7.14 | 19.0              | 3,832                                 | --                     | Clear                           |
| MW-21   | 11/04/97 | 3.40                                     | 7.29 | 20.1              | 3,790                                 | 1.77                   | Clear, Odor                     |
|         | 01/30/98 | 1.40                                     | 7.20 | 17.6              | 3,690                                 | 2.78                   | Clear, Odor                     |
|         | 05/28/98 | 2.70                                     | 7.21 | 20.6              | 3,990                                 | 3.57                   | Clear, Odor                     |
|         | 08/15/98 | 2.7/2.2                                  | 7.16 | 20.8              | 4,000                                 | 2.32                   | Clear w/ dark flec's, Odor      |
|         | 12/28/98 | 0.80                                     | 7.25 | 18.0              | 3,990                                 | 4.39                   | Clear, Odor, turns black in air |
|         | 03/26/99 | 0.60                                     | 7.17 | 18.4              | 0                                     | 3.81                   | Clear, Odor, turns black in air |
|         | 09/07/99 | 0.00                                     | 7.29 | 20.5              | 3,890                                 | --                     | Clear, Odor, turns black in air |
|         | 03/29/00 | 0.8/0.6                                  | 7.30 | 19.3              | 3,970                                 | 4.38                   | Clear, Odor, turns black in air |
|         | 11/18/00 | --/0.3                                   | 7.43 | 19.0              | 3,570                                 | --                     | Clear, strong sulfur smell      |
|         | 03/29/01 | 0.9/0.0                                  | 7.31 | 19.6              | 3,960                                 | 2.09                   | Clear, Odor, turns black in air |
|         | 10/08/01 | 1.40                                     | 7.31 | 19.6              | 4,230                                 | --                     | Strong odor                     |
|         | 07/01/02 | 2.00                                     | 6.80 | 20.1              | 3,820                                 | --                     | Gray/black, slight odor         |
|         | 02/03/03 | 0.80                                     | 7.42 | 18.3              | 3,910                                 | --                     | Clear, sulfur smell             |
|         | 08/02/03 | 0.90                                     | 7.28 | 22.4              | 3,960                                 | --                     | Clear                           |
|         | 03/23/04 | 1.12                                     | 7.07 | 18.6              | 3,290                                 | --                     | Clear                           |
|         | 09/10/04 | 2.68                                     | 6.96 | 19.4              | 3,366                                 | --                     | Clear                           |
|         | 04/01/05 | 5.30                                     | 7.29 | 19.9              | 4,690                                 | --                     | Clear                           |
|         | 10/07/05 | 4.30                                     | 7.11 | 18.5              | 3,210                                 | --                     | Clear                           |
|         | 03/25/06 | 4.98                                     | 7.44 | 18.9              | 2,950                                 | --                     | Clear                           |
|         | 09/22/06 | 3.76                                     | 7.33 | 20.7              | 3,542                                 | --                     | Clear                           |
|         | 03/14/07 | 1.68                                     | 7.08 | 19.4              | 3,475                                 | --                     | Clear                           |
|         | 09/27/07 | 4.89                                     | 7.37 | 20.1              | 3,548                                 | --                     | Clear                           |
|         | 03/07/08 | 2.30                                     | 7.36 | 20.3              | 3,910                                 | --                     | Clear                           |
|         | 09/11/08 | 4.30                                     | 7.11 | 19.9              | 3,153                                 | --                     | Clear                           |
|         | 03/12/09 | 2.22                                     | 7.15 | 18.1              | 3,685                                 | --                     | Clear                           |
|         | 10/07/09 | 0.97                                     | 6.88 | 19.6              | 3,801                                 | --                     | Clear                           |
|         | 09/23/10 | 1.02                                     | 7.08 | 21.0              | 3,882                                 | --                     | Clear                           |
|         | 01/03/12 | 3.35                                     | 6.90 | 17.1              | 3,348                                 | --                     | Clear, Odor                     |
|         | 10/25/12 | 3.14                                     | 6.87 | 18.4              | 3,287                                 | --                     | Clear                           |

**Table 3. Summary of Field Measured Parameters  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Date     | Dissolved<br>Oxygen (mg/L)<br>Meter/Hach | pH    | Temperature<br>°C | Electrical<br>Conductivity<br>(µS/cm) | Turbidity<br>(NTU/FTU) | Remarks                              |
|---------|----------|------------------------------------------|-------|-------------------|---------------------------------------|------------------------|--------------------------------------|
| MW-22   | 11/03/97 | 7.00                                     | 7.22  | 18.5              | 3,700                                 | 260.0                  | Cloudy                               |
|         | 01/29/98 | 6.50                                     | 7.22  | 18.2              | 3,660                                 | 10.35                  | Clear                                |
|         | 05/28/98 | 8.60                                     | 7.18  | 22.8              | 3,940                                 | 48.03                  | Clear                                |
|         | 08/14/98 | 8.60                                     | 7.20  | 20.5              | 3,970                                 | 168.0                  | Cloudy                               |
|         | 12/27/98 | 8.00                                     | 7.25  | 19.9              | 3,940                                 | 12.00                  | Clear                                |
|         | 03/25/99 | 7.00                                     | 7.19  | 17.4              | 3,980                                 | 1.19                   | Clear                                |
|         | 09/08/99 | 7.60                                     | 7.20  | 19.4              | 3,900                                 | --                     | Clear                                |
|         | 03/28/00 | 8.40                                     | 7.26  | 18.9              | 3,930                                 | 5.36                   | Clear                                |
|         | 11/15/00 | 6.50                                     | 7.20  | 16.7              | 1,343                                 | --                     | Clear                                |
|         | 03/29/01 | 7.60                                     | 7.21  | 19.8              | 3,930                                 | 4.55                   | Clear                                |
|         | 10/08/01 | 8.10                                     | 7.28  | 19.5              | 4,190                                 | --                     | Clear                                |
|         | 07/01/02 | 7.20                                     | 6.91  | 20.2              | 3,740                                 | --                     | Clear                                |
|         | 02/03/03 | 6.10                                     | 7.55  | 17.6              | 3,910                                 | --                     | Clear                                |
|         | 08/02/03 | 7.90                                     | 7.27  | 22.1              | 3,880                                 | --                     | Cloudy                               |
|         | 03/23/04 | 4.77                                     | 6.89  | 19.1              | 3,280                                 | --                     | Clear                                |
|         | 09/09/04 | 6.88                                     | 7.05  | 20.2              | 3,259                                 | --                     | Cloudy                               |
|         | 04/01/05 | 6.80                                     | 6.99  | 19.3              | 4,440                                 | --                     | Clear                                |
|         | 10/07/05 | 5.10                                     | 7.06  | 18.7              | 3,100                                 | --                     | Turbid                               |
|         | 03/25/06 | 6.55                                     | 7.28  | 18.7              | 2,865                                 | --                     | Turbid                               |
|         | 09/22/06 | 5.25                                     | 7.22  | 20.9              | 3,544                                 | --                     | Turbid                               |
|         | 03/14/07 | 5.14                                     | 6.96  | 19.2              | 3,387                                 | --                     | Turbid                               |
|         | 09/26/07 | 5.45                                     | 7.06  | 20.0              | 3,516                                 | --                     | Clear                                |
|         | 03/07/08 | 5.40                                     | 7.38  | 19.8              | 3,620                                 | --                     | Clear                                |
|         | 09/16/08 | 5.78                                     | 7.38  | 20.3              | 3,240                                 | --                     | Cloudy                               |
|         | 03/12/09 | 6.06                                     | 7.12  | 17.6              | 3,657                                 | --                     | Turbid                               |
|         | 10/07/09 | 6.85                                     | 6.69  | 19.8              | 3,779                                 | --                     | Slightly Turbid                      |
|         | 03/30/10 | 4.77                                     | 6.64  | 19.2              | 3,667                                 | --                     | Cloudy                               |
|         | 09/23/10 | 4.52                                     | 7.00  | 20.0              | 3,932                                 | --                     | Cloudy                               |
|         | 04/19/11 | 4.40                                     | 7.00  | 19.7              | 3,826                                 | --                     | Cloudy                               |
|         | 01/03/12 | 4.88                                     | 7.11  | 17.2              | 3,550                                 | --                     | Clear                                |
|         | 04/18/12 | 4.40                                     | 7.10  | 19.6              | 3,855                                 | --                     | Clear                                |
|         | 10/21/12 | 6.88                                     | 6.56  | 19.3              | 3,732                                 | --                     | Turbid, bailed down                  |
| MW-23D  | 11/05/97 | 2.80                                     | 7.55  | 18.1              | 2,550                                 | 87.5                   | Slightly to Mod. Milky, Sulfur Smell |
|         | 01/28/98 | 4.80                                     | 8.06  | 18.6              | 3,820                                 | >200                   | Silty                                |
|         | 05/27/98 | 7.10                                     | 7.61  | 23.2              | 4,150                                 | --                     | Turbid                               |
|         | 08/11/98 | 4.20                                     | 7.22  | 19.9              | 4,130                                 | 17.81                  | Clear                                |
|         | 12/23/98 | 4.60                                     | 7.50  | 16.6              | 4,210                                 | 43.94                  | Clear                                |
|         | 04/05/99 | 5.60                                     | 7.18  | 18.8              | 4,160                                 | --                     | Clear                                |
|         | 05/02/00 | 4.30                                     | 7.41  | 19.5              | 3,920                                 | --                     | Silty                                |
|         | 04/19/01 | 3.20                                     | 7.67  | 20.2              | 3,780                                 | --                     | Slightly silty                       |
|         | 06/20/01 | 5.50                                     | 7.36  | 19.3              | 3,550                                 | --                     | Slightly w/Sulfur Smell              |
|         | 06/12/02 | --                                       | --    | --                | --                                    | --                     | --                                   |
|         | 08/02/03 | 4.20                                     | 7.71  | 21.4              | 3,140                                 | --                     | Clear                                |
|         | 09/09/04 | 3.70                                     | 7.34  | 19.7              | 4,120                                 | --                     | Turbid, Bailed down                  |
|         | 10/16/05 | 4.10                                     | 7.30  | 19.7              | --                                    | --                     | Turbid, Bailed down                  |
|         | 09/22/06 | 5.53                                     | 10.07 | 22.6              | 3,753                                 | --                     | Slightly turbid, bailed down         |
|         | 09/27/07 | 4.43                                     | 7.57  | 19.4              | 3,694                                 | --                     | Turbid                               |
|         | 09/11/08 | 2.01                                     | 8.71  | 21.9              | 3,216                                 | --                     | Clear                                |
|         | 10/07/09 | 1.71                                     | 7.76  | 25.1              | 3,538                                 | --                     | Clear                                |
|         | 09/26/10 | 0.08                                     | 7.68  | 21.3              | 3,701                                 | --                     | Clear                                |
|         | 01/03/12 | 2.25                                     | 9.31  | 18.6              | 3,402                                 | --                     | Clear                                |
|         | 10/21/12 | 0.10                                     | 7.86  | 19.8              | 3,460                                 | --                     | Clear                                |

**Table 3. Summary of Field Measured Parameters  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Date     | Dissolved<br>Oxygen (mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µS/cm) | Turbidity<br>(NTU/FTU) | Remarks             |
|---------|----------|------------------------------------------|------|-------------------|---------------------------------------|------------------------|---------------------|
| MW-24D  | 10/29/98 | 5.44                                     | 7.43 | 18.5              | 2,930                                 | --                     | Silty               |
|         | 12/23/98 | 4.20                                     | 7.49 | 16.7              | 3,840                                 | >1000                  | Turbid, Bailed down |
|         | 03/30/99 | 4.60                                     | 6.98 | 18.4              | 3,750                                 | --                     | Turbid, Bailed down |
|         | 05/02/00 | 4.20                                     | 7.28 | 19.9              | 3,610                                 | --                     | Very Silty          |
|         | 04/19/01 | 5.80                                     | 7.29 | 19.6              | 3,610                                 | --                     | Silty               |
|         | 06/20/01 | 6.20                                     | 7.35 | 21.2              | 3,130                                 | --                     | Silty               |
|         | 06/12/02 | --                                       | --   | --                | --                                    | --                     | --                  |
|         | 08/02/03 | 5.90                                     | 7.21 | 20.7              | 2,950                                 | --                     | Slightly Silty      |
|         | 09/09/04 | 3.90                                     | 7.21 | 19.5              | 3,760                                 | --                     | Turbid, Bailed down |
|         | 10/16/05 | 4.10                                     | 7.22 | 19.4              | 3,720                                 | --                     | Turbid, Bailed down |
|         | 09/22/06 | 1.58                                     | 7.18 | 20.5              | 3,383                                 | --                     | Clear, Bailed down  |
|         | 09/27/07 | 4.68                                     | 7.04 | 18.6              | 3,477                                 | --                     | Turbid              |
|         | 09/10/08 | 1.92                                     | 7.62 | 21.4              | 3,164                                 | --                     | Clear               |
|         | 10/07/09 | 1.55                                     | 6.97 | 21.5              | 3,427                                 | --                     | Clear               |
|         | 09/26/10 | 0.46                                     | 6.85 | 20.7              | 3,701                                 | --                     | Clear               |
|         | 01/03/12 | 2.20                                     | 7.08 | 18.2              | 3,525                                 | --                     | Clear               |
|         | 10/21/12 | 0.16                                     | 6.90 | 19.8              | 3,476                                 | --                     | Clear               |
| MW-25D  | 10/29/98 | 4.87                                     | 7.80 | 18.6              | 3,370                                 | --                     | Silty               |
|         | 12/23/98 | 4.60                                     | 7.67 | 16.9              | 3,820                                 | 77                     | Clear, Bailed down  |
|         | 03/30/99 | 4.10                                     | 7.36 | 18.1              | 3,790                                 | --                     | Turbid, Bailed down |
|         | 05/02/00 | 4.50                                     | 7.52 | 19.2              | 3,510                                 | --                     | Turbid, Bailed down |
|         | 04/19/01 | 3.70                                     | 7.50 | 19.1              | 3,600                                 | --                     | Silty               |
|         | 06/20/01 | 6.30                                     | 7.59 | 21.4              | 3,280                                 | --                     | Very Silty          |
|         | 06/12/02 | --                                       | --   | --                | --                                    | --                     | --                  |
|         | 08/02/03 | 3.70                                     | 7.48 | 20.8              | 2,900                                 | --                     | Silty               |
|         | 09/09/04 | 4.90                                     | 7.37 | 19.6              | 3,690                                 | --                     | Turbid, gray/brown  |
|         | 10/16/05 | 4.60                                     | 7.30 | 19.5              | 3,720                                 | --                     | Turbid, Bailed down |
|         | 09/22/06 | 1.84                                     | 7.28 | 20.7              | 3,508                                 | --                     | Clear, Bailed down  |
|         | 09/27/07 | 4.87                                     | 7.06 | 19.0              | 3,489                                 | --                     | Clear, Bailed down  |
|         | 09/10/08 | 2.43                                     | 7.75 | 20.6              | 3,194                                 | --                     | Clear               |
|         | 10/07/09 | 2.44                                     | 7.14 | 20.2              | 3,436                                 | --                     | Clear               |
|         | 09/26/10 | 0.24                                     | 8.03 | 20.6              | 3,671                                 | --                     | Clear               |
|         | 01/03/12 | 2.27                                     | 7.49 | 18.3              | 3,476                                 | --                     | Clear, Odor         |
|         | 10/21/12 | 0.16                                     | 6.93 | 19.4              | 3,401                                 | --                     | Clear               |

**Table 3. Summary of Field Measured Parameters  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Date     | Dissolved<br>Oxygen (mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µS/cm) | Turbidity<br>(NTU/FTU) | Remarks                   |
|---------|----------|------------------------------------------|------|-------------------|---------------------------------------|------------------------|---------------------------|
| MW-26   | 10/29/98 | 4.61                                     | 7.20 | 18.8              | 3,620                                 | --                     | Clear                     |
|         | 12/27/98 | 4.90                                     | 7.13 | 19.4              | 4,130                                 | 83                     | Cloudy/Turbid             |
|         | 03/25/99 | 4.80                                     | 7.09 | 18.4              | 4,170                                 | 35.38                  | Clear initial/cloudy last |
|         | 07/25/99 | 3.30                                     | 7.17 | 20.3              | 4,220                                 | --                     | Clear, no odor            |
|         | 09/07/99 | 8.4/7.0                                  | 7.11 | 19.7              | 4,170                                 | --                     | Clear                     |
|         | 03/28/00 | 6.1/6.2                                  | 7.13 | 18.7              | 4,090                                 | 46.91                  | Clear                     |
|         | 11/15/00 | 6.8/7.0                                  | 7.11 | 18.4              | 3,730                                 | --                     | Clear                     |
|         | 03/28/01 | 5.1/5.0                                  | 7.09 | 19.0              | 4,110                                 | 16.43                  | Clear                     |
|         | 10/08/01 | 5.50                                     | 7.06 | 19.2              | 4,340                                 | --                     | Clear                     |
|         | 07/01/02 | 5.00                                     | 6.79 | 19.3              | 3,910                                 | --                     | Clear                     |
|         | 02/03/03 | 4.10                                     | 7.10 | 17.5              | 4,030                                 | --                     | Clear                     |
|         | 08/03/03 | 3.40                                     | 7.08 | 21.4              | 3,950                                 | --                     | Clear                     |
|         | 03/23/04 | 3.42                                     | 6.89 | 18.3              | 3,380                                 | --                     | Yellow                    |
|         | 09/09/04 | 4.52                                     | 6.88 | 19.2              | 3,436                                 | --                     | Clear                     |
|         | 04/01/05 | 4.70                                     | 7.00 | 19.2              | 4,740                                 | --                     | Clear                     |
|         | 10/07/05 | 3.70                                     | 6.91 | 18.3              | 3,200                                 | --                     | Clear                     |
|         | 03/25/06 | 3.94                                     | 7.14 | 18.5              | 2,991                                 | --                     | Clear                     |
|         | 09/22/06 | 3.72                                     | 7.08 | 19.2              | 3,577                                 | --                     | Clear                     |
|         | 03/14/07 | 3.71                                     | 6.78 | 18.5              | 3,502                                 | --                     | Clear                     |
|         | 09/26/07 | 4.08                                     | 7.58 | 19.1              | 3,596                                 | --                     | Clear                     |
|         | 03/07/08 | 2.60                                     | 7.19 | 20.1              | 3,710                                 | --                     | Clear                     |
|         | 09/16/08 | 3.92                                     | 7.17 | 19.1              | 3,364                                 | --                     | Clear                     |
|         | 03/11/09 | 4.05                                     | 7.00 | 17.5              | 3,814                                 | --                     | Clear                     |
|         | 10/08/09 | 4.37                                     | 6.62 | 19.4              | 3,952                                 | --                     | Cloudy                    |
|         | 03/30/10 | 3.18                                     | 6.59 | 18.7              | 3,814                                 | --                     | Clear                     |
|         | 09/24/10 | 2.74                                     | 6.83 | 19.3              | 4,096                                 | --                     | Cloudy                    |
|         | 04/19/11 | 3.07                                     | 6.88 | 18.9              | 3,969                                 | --                     | Clear                     |
|         | 01/03/12 | 4.15                                     | 6.89 | 17.8              | 3,649                                 | --                     | Clear, slight odor        |
|         | 04/18/12 | 3.39                                     | 6.98 | 19.0              | 3,958                                 | --                     | Clear                     |
|         | 10/19/12 | 3.61                                     | 6.93 | 18.9              | 3,927                                 | --                     | Clear                     |
| MW-28   | 11/18/00 | --                                       | 7.28 | 17.0              | 3,510                                 | --                     | Silty                     |
|         | 02/13/01 | 4.70                                     | 7.30 | 17.4              | 3,480                                 | --                     | Silty                     |
|         | 03/28/01 | 5.30                                     | 7.20 | 19.5              | 3,880                                 | 31.55                  | Clear                     |
|         | 06/20/01 | 4.80                                     | 7.11 | 20.0              | 3,300                                 | --                     | Slightly silty to clear   |
|         | 10/09/01 | 5.00                                     | 7.12 | 19.7              | 4,120                                 | --                     | Clear                     |
|         | 07/03/02 | 3.70                                     | 6.92 | 20.6              | 3,750                                 | --                     | Clear                     |
|         | 08/02/03 | 5.10                                     | 7.19 | 22.2              | 3,840                                 | --                     | Clear                     |
|         | 09/10/04 | 5.28                                     | 7.03 | 20.0              | 3,246                                 | --                     | Clear                     |
|         | 10/06/05 | 3.70                                     | 7.19 | 18.0              | 3,070                                 | --                     | Clear                     |
|         | 09/22/06 | 4.00                                     | 7.13 | 19.9              | 3,425                                 | --                     | Turbid                    |
|         | 09/27/07 | 4.90                                     | 7.12 | 19.4              | 3,389                                 | --                     | Turbid                    |
|         | 09/10/08 | 4.61                                     | 7.49 | 20.2              | 3,097                                 | --                     | Turbid                    |

**Table 3. Summary of Field Measured Parameters  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Date     | Dissolved<br>Oxygen (mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µS/cm) | Turbidity<br>(NTU/FTU) | Remarks             |
|---------|----------|------------------------------------------|------|-------------------|---------------------------------------|------------------------|---------------------|
| MW-29   | 11/19/00 | --                                       | 7.60 | 17.9              | 2,320                                 | --                     | Brown silty         |
|         | 02/13/01 | 3.00                                     | 7.06 | 17.0              | 2,300                                 | --                     | Silty               |
|         | 03/28/01 | 2.70                                     | 7.17 | 19.5              | 2,610                                 | 8.51                   | Clear, bailing down |
|         | 06/20/01 | 1.80                                     | 7.03 | 21.4              | 2.25                                  | --                     | Clear               |
|         | 10/09/01 | 2.60                                     | 7.07 | 20.1              | 2,700                                 | --                     | Clear               |
|         | 07/03/02 | 2.20                                     | 6.66 | 23.8              | 2,390                                 | --                     | Clear               |
|         | 02/03/03 | 2.10                                     | 7.49 | 18.4              | 2,580                                 | --                     | Clear, sulfur smell |
|         | 08/03/03 | 0.40                                     | 7.15 | 21.6              | 2,640                                 | --                     | Turbid              |
|         | 03/23/04 | 1.04                                     | 7.12 | 18.4              | 2,070                                 | --                     | Turbid, slight odor |
|         | 09/10/04 | 3.10                                     | 7.17 | 19.2              | 2,540                                 | --                     | Turbid, brown       |
|         | 04/01/05 | 2.40                                     | 7.28 | 20.0              | 2,890                                 | --                     | Turbid, odor        |
|         | 10/06/05 | 0.80                                     | 7.09 | 18.6              | 2,060                                 | --                     | Turbid, odor        |
|         | 03/24/06 | 1.10                                     | 7.24 | 18.7              | 2,684                                 | --                     | Turbid, odor        |
|         | 09/22/06 | 2.32                                     | 6.86 | 19.3              | 2,210                                 | --                     | Turbid, odor        |
|         | 03/14/07 | 1.64                                     | 6.81 | 19.0              | 2,227                                 | --                     | Turbid, odor        |
|         | 09/25/07 | 0.93                                     | 8.17 | 19.6              | 2,272                                 | --                     | Clear               |
|         | 03/08/08 | 0.70                                     | 7.31 | 20.2              | 2,440                                 | --                     | Clear, slight odor  |
|         | 09/10/08 | 1.90                                     | 7.41 | 20.2              | 2,072                                 | --                     | Clear               |
|         | 03/11/09 | 1.28                                     | 7.03 | 18.4              | 2,330                                 | --                     | Clear               |
|         | 10/07/09 | 0.43                                     | 6.84 | 19.6              | 2,986                                 | --                     | Clear               |
|         | 03/30/10 | 0.24                                     | 6.62 | 19.5              | 2,589                                 | --                     | Clear               |
|         | 09/23/10 | 0.27                                     | 6.98 | 20.1              | 2,917                                 | --                     | Clear               |
|         | 04/19/11 | 0.37                                     | 6.96 | 19.8              | 2,519                                 | --                     | Clear               |
|         | 01/02/12 | 2.20                                     | 6.99 | 17.1              | 2,372                                 | --                     | Clear               |
|         | 04/18/12 | 0.30                                     | 7.05 | 20.0              | 2,557                                 | --                     | Clear               |
|         | 10/19/12 | 0.31                                     | 7.13 | 20.2              | 2,780                                 | --                     | Clear               |
| MW-30   | 11/18/00 | --                                       | 7.54 | 18.6              | 3,350                                 | --                     | Silty               |
|         | 02/13/01 | 4.80                                     | 7.27 | 17.3              | 3,480                                 | --                     | Slightly silty      |
|         | 03/28/01 | 4.80                                     | 7.18 | 19.6              | 3,880                                 | 36.52                  | Slightly cloudy     |
|         | 06/20/01 | 4.70                                     | 7.06 | 20.4              | 3,300                                 | --                     | Clear               |
|         | 10/09/01 | 5.50                                     | 7.23 | 19.7              | 4,130                                 | --                     | Clear               |
|         | 07/04/02 | 3.50                                     | 7.04 | 19.2              | 3,800                                 | --                     | Clear               |
|         | 08/02/03 | 5.00                                     | 7.20 | 22.9              | 3,850                                 | --                     | Clear               |
|         | 09/10/04 | 5.75                                     | 7.05 | 19.9              | 3,252                                 | --                     | Clear               |
|         | 10/06/05 | 3.50                                     | 7.10 | 18.4              | 3,120                                 | --                     | Clear               |
|         | 09/21/06 | 5.79                                     | 7.19 | 20.0              | 3,449                                 | --                     | Turbid              |
|         | 09/27/07 | 4.74                                     | 7.72 | 20.4              | 3,511                                 | --                     | Slightly Turbid     |
|         | 09/16/08 | 5.49                                     | 7.32 | 20.0              | 3,224                                 | --                     | Turbid              |
| MW-31   | 10/04/01 | 7.50                                     | 7.49 | 18.5              | 4,260                                 | --                     | Red/Silty           |
|         | 02/26/02 | 6.30                                     | 7.31 | 19.6              | 4,340                                 | --                     | Clear               |
|         | 07/04/02 | 5.10                                     | 7.08 | 19.5              | 4,070                                 | --                     | Clear               |
|         | 08/02/03 | 6.30                                     | 7.34 | 22.7              | 4,150                                 | --                     | Clear               |
|         | 09/10/04 | 6.65                                     | 7.15 | 19.6              | 3,482                                 | --                     | Clear               |
|         | 10/06/05 | 4.20                                     | 7.21 | 18.0              | 3,270                                 | --                     | Clear               |
|         | 09/22/06 | 5.12                                     | 7.25 | 19.7              | 3,685                                 | --                     | Clear               |
|         | 09/25/07 | 5.48                                     | 8.38 | 20.2              | 3,790                                 | --                     | Clear               |
|         | 09/10/08 | 5.15                                     | 7.62 | 20.6              | 3,369                                 | --                     | Clear               |

**Table 3. Summary of Field Measured Parameters  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Date     | Dissolved<br>Oxygen (mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical<br>Conductivity<br>(µS/cm) | Turbidity<br>(NTU/FTU) | Remarks              |
|---------|----------|------------------------------------------|------|-------------------|---------------------------------------|------------------------|----------------------|
| MW-32   | 10/04/01 | 3.80                                     | 7.41 | 19.0              | 3,800                                 | --                     | Silght odor          |
|         | 02/26/02 | 1.20                                     | 7.21 | 20.5              | 3,770                                 | --                     | Cloudy               |
|         | 07/04/02 | 1.30                                     | 7.06 | 19.3              | 3,500                                 | --                     | Cloudy               |
|         | 02/03/03 | 0.80                                     | 7.56 | 18.3              | 3,590                                 | --                     | Cloudy               |
|         | 08/02/03 | 1.00                                     | 7.23 | 22.5              | 3,520                                 | --                     | Cloudy               |
|         | 03/23/04 | 0.64                                     | 7.10 | 18.3              | 2,910                                 | --                     | Clear, slight odor   |
|         | 09/10/04 | 1.07                                     | 7.08 | 19.8              | 3,109                                 | --                     | Clear                |
|         | 04/01/05 | 1.70                                     | 7.20 | 20.1              | 4,230                                 | --                     | Clear                |
|         | 10/06/05 | 2.60                                     | 7.22 | 18.3              | 3,100                                 | --                     | Clear                |
|         | 03/26/06 | 1.12                                     | 7.30 | 19.5              | 2,698                                 | --                     | Clear                |
|         | 09/21/06 | 1.29                                     | 7.16 | 19.3              | 3,201                                 | --                     | Clear                |
|         | 03/14/07 | 1.22                                     | 6.93 | 19.4              | 3,179                                 | --                     | Clear                |
|         | 09/27/07 | 0.96                                     | 7.05 | 19.0              | 3,217                                 | --                     | Clear                |
|         | 03/07/08 | 1.40                                     | 7.36 | 20.4              | 3,410                                 | --                     | Clear                |
|         | 09/10/08 | 2.93                                     | 7.48 | 20.1              | 3,050                                 | --                     | Clear                |
|         | 03/11/09 | 1.05                                     | 7.10 | 18.8              | 3,704                                 | --                     | Clear                |
|         | 10/07/09 | 0.19                                     | 6.88 | 19.4              | 3,948                                 | --                     | Clear                |
|         | 03/30/10 | 0.43                                     | 6.65 | 19.6              | 3,731                                 | --                     | Clear                |
|         | 09/23/10 | 0.13                                     | 6.99 | 19.8              | 3,994                                 | --                     | Clear                |
|         | 04/19/11 | 0.39                                     | 7.00 | 19.7              | 3,757                                 | --                     | Clear                |
|         | 01/02/12 | 1.43                                     | 7.00 | 18.2              | 3,307                                 | --                     | Clear                |
|         | 04/18/12 | 0.17                                     | 7.09 | 19.6              | 3,478                                 | --                     | Clear                |
|         | 10/19/12 | 0.16                                     | 7.17 | 19.5              | 3,242                                 | --                     | Clear                |
| MW-33   | 10/04/01 | 7.60                                     | 7.56 | 19.0              | 4,360                                 | --                     | Red/Silty            |
|         | 02/26/02 | 5.40                                     | 7.31 | 19.2              | 4,280                                 | --                     | Clear                |
|         | 07/04/02 | 4.40                                     | 7.11 | 19.9              | 4,040                                 | --                     | Clear                |
|         | 08/02/03 | 5.60                                     | 7.31 | 22.4              | 4,130                                 | --                     | Clear                |
|         | 09/10/04 | 6.34                                     | 7.17 | 20.0              | 3,471                                 | --                     | Clear                |
|         | 10/06/05 | 3.90                                     | 7.28 | 18.3              | 3,210                                 | --                     | Clear                |
|         | 09/21/06 | 6.20                                     | 7.25 | 19.6              | 3,639                                 | --                     | Clear                |
|         | 09/27/07 | 5.45                                     | 7.21 | 19.8              | 3,669                                 | --                     | Clear                |
|         | 09/10/08 | 4.88                                     | 7.63 | 20.5              | 3,317                                 | --                     | Clear                |
| MW-34   | 01/21/03 | 2.30                                     | 7.42 | 19.5              | 3,380                                 | --                     | Slightly silty       |
|         | 02/04/03 | 2.20                                     | 7.54 | 17.9              | 3,910                                 | --                     | Turbid               |
|         | 08/03/03 | 1.50                                     | 7.26 | 21.7              | 3,980                                 | --                     | Turbid               |
|         | 03/22/04 | 1.16                                     | 7.10 | 19.6              | 3,340                                 | --                     | Slightly Turbid      |
|         | 09/10/04 | 4.90                                     | 7.25 | 19.2              | 3,840                                 | --                     | Turbid, brown        |
|         | 04/01/05 | 3.20                                     | 7.28 | 19.4              | 4,600                                 | --                     | Slightly Turbid, red |
|         | 10/06/05 | 1.50                                     | 7.12 | 18.5              | 3,190                                 | --                     | Clear                |
|         | 03/26/06 | 1.67                                     | 7.32 | 19.2              | 2,928                                 | --                     | Clear                |
|         | 09/21/06 | 3.19                                     | 7.20 | 19.7              | 3,497                                 | --                     | Clear                |
|         | 03/14/07 | 3.30                                     | 6.93 | 19.3              | 3,443                                 | --                     | Clear                |
|         | 09/26/07 | 6.38                                     | 7.37 | 19.5              | 3,521                                 | --                     | Clear                |
|         | 03/08/08 | 6.00                                     | 7.42 | 20.4              | 3,840                                 | --                     | Clear                |
|         | 09/10/08 | 6.09                                     | 7.52 | 19.7              | 3,143                                 | --                     | Clear                |
|         | 03/11/09 | 5.30                                     | 7.13 | 18.7              | 3,723                                 | --                     | Clear                |
|         | 10/07/09 | 6.58                                     | 6.95 | 19.4              | 3,951                                 | --                     | Clear                |
|         | 03/30/10 | 5.17                                     | 6.65 | 19.3              | 3,730                                 | --                     | Clear                |
|         | 09/23/10 | 3.81                                     | 7.04 | 19.6              | 4,005                                 | --                     | Clear                |
|         | 04/19/11 | 0.87                                     | 7.02 | 19.3              | 3,887                                 | --                     | Clear                |
|         | 01/02/12 | 1.56                                     | 7.02 | 18.2              | 3,579                                 | --                     | Clear                |
|         | 04/18/12 | 0.14                                     | 7.16 | 19.2              | 3,852                                 | --                     | Clear                |
|         | 10/19/12 | 0.13                                     | 7.19 | 19.5              | 3,784                                 | --                     | Clear                |



**Table 3. Summary of Field Measured Parameters  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Date     | Dissolved Oxygen (mg/L)<br>Meter/Hach | pH   | Temperature<br>°C | Electrical Conductivity<br>(µS/cm) | Turbidity<br>(NTU/FTU) | Remarks         |
|---------|----------|---------------------------------------|------|-------------------|------------------------------------|------------------------|-----------------|
| MW-35   | 01/21/03 | 3.50                                  | 7.33 | 19.8              | 3,480                              | --                     | Silty           |
|         | 02/03/03 | 5.40                                  | 7.72 | 18.3              | 3,770                              | --                     | Turbid          |
|         | 08/03/03 | 6.10                                  | 7.29 | 21.7              | 4,120                              | --                     | Turbid          |
|         | 03/22/04 | 4.58                                  | 7.17 | 19.4              | 3,390                              | --                     | Slightly silty  |
|         | 09/10/04 | 7.30                                  | 7.23 | 19.0              | 4,050                              | --                     | Turbid, brown   |
|         | 04/01/05 | 6.40                                  | 7.33 | 19.9              | 4,870                              | --                     | Clear           |
|         | 10/06/05 | 4.80                                  | 7.20 | 18.5              | 3,300                              | --                     | Clear           |
|         | 03/26/06 | 6.64                                  | 7.41 | 19.5              | 3,098                              | --                     | Clear           |
|         | 09/21/06 | 7.74                                  | 7.24 | 19.8              | 3,669                              | --                     | Clear           |
|         | 03/14/07 | 6.10                                  | 6.99 | 19.6              | 3,626                              | --                     | Clear           |
|         | 09/26/07 | 6.56                                  | 7.34 | 19.6              | 3,685                              | --                     | Clear           |
|         | 07/08/08 | 5.90                                  | 7.43 | 20.4              | 3,930                              | --                     | Clear           |
|         | 09/10/08 | 6.28                                  | 7.58 | 20.3              | 3,331                              | --                     | Clear           |
|         | 03/11/09 | 5.65                                  | 7.21 | 18.7              | 3,887                              | --                     | Clear           |
|         | 10/07/09 | 6.99                                  | 7.03 | 19.6              | 4,120                              | --                     | Clear           |
|         | 03/30/10 | 5.46                                  | 6.75 | 19.7              | 3,891                              | --                     | Clear           |
|         | 09/23/10 | 5.45                                  | 7.09 | 20.2              | 4,178                              | --                     | Clear           |
|         | 04/19/11 | 4.63                                  | 7.05 | 19.7              | 4,068                              | --                     | Clear           |
|         | 01/02/12 | 4.78                                  | 7.06 | 17.3              | 3,765                              | --                     | Clear           |
|         | 04/18/12 | 4.46                                  | 7.15 | 20.5              | 4,110                              | --                     | Clear           |
|         | 10/21/12 | 4.22                                  | 7.25 | 20.5              | 4,029                              | --                     | Clear           |
| MW-36   | 11/11/03 | 2.09                                  | 7.31 | 20.1              | 2,960                              | --                     | Turbid/Silty    |
|         | 03/22/04 | 4.12                                  | 7.11 | 19.6              | 3,120                              | --                     | Slightly Turbid |
|         | 09/10/04 | 4.77                                  | 7.11 | 19.6              | 3,143                              | --                     | Cloudy          |
|         | 04/02/05 | 3.90                                  | 7.39 | 19.7              | 4,540                              | --                     | Clear           |
|         | 10/06/05 | 3.20                                  | 7.27 | 17.8              | 2,960                              | --                     | Clear           |
|         | 03/26/06 | 4.06                                  | 7.17 | 18.7              | 2,727                              | --                     | Clear           |
|         | 09/21/06 | 4.46                                  | 7.20 | 19.6              | 3,309                              | --                     | Clear           |
|         | 03/14/07 | 3.09                                  | 6.41 | 18.9              | 3,220                              | --                     | Cloudy          |
|         | 09/26/07 | 3.61                                  | 7.52 | 19.4              | 3,323                              | --                     | Cloudy          |
|         | 03/07/08 | 3.60                                  | 7.48 | 20.3              | 3,650                              | --                     | Clear           |
|         | 09/10/08 | 3.75                                  | 7.52 | 19.0              | 2,917                              | --                     | Clear           |
|         | 03/11/09 | 2.86                                  | 7.18 | 18.2              | 3,514                              | --                     | Clear           |
| MW-37   | 11/11/03 | 2.09                                  | 7.43 | 20.2              | 2,930                              | --                     | Slightly Silty  |
|         | 03/22/04 | 2.83                                  | 7.09 | 18.8              | 3,290                              | --                     | Slightly Turbid |
|         | 09/10/04 | 4.89                                  | 7.04 | 19.5              | 3,364                              | --                     | Clear           |
|         | 04/02/05 | 3.40                                  | 7.26 | 18.8              | 4,690                              | --                     | Clear           |
|         | 10/06/05 | 3.40                                  | 7.11 | 17.6              | 3,180                              | --                     | Clear           |
|         | 03/26/06 | 4.10                                  | 7.25 | 18.5              | 2,911                              | --                     | Clear           |
|         | 09/21/06 | 4.74                                  | 7.11 | 19.3              | 3,508                              | --                     | Clear           |
|         | 03/14/07 | 3.73                                  | 6.73 | 18.8              | 3,439                              | --                     | Clear           |
|         | 09/26/07 | 4.95                                  | 7.40 | 19.5              | 3,567                              | --                     | Clear           |
|         | 03/07/08 | 3.80                                  | 7.34 | 20.3              | 3,880                              | --                     | Clear           |
|         | 09/10/08 | 4.90                                  | 7.47 | 18.9              | 3,119                              | --                     | Clear           |
|         | 03/11/09 | 4.31                                  | 7.13 | 18.3              | 3,745                              | --                     | Clear           |
| MW-38   | 11/11/03 | 4.48                                  | 7.68 | 20.4              | 3,290                              | --                     | Turbid/Silty    |
|         | 03/22/04 | 5.20                                  | 7.18 | 19.4              | 3,510                              | --                     | Slightly Turbid |
|         | 09/10/04 | 7.90                                  | 7.16 | 20.2              | 3,510                              | --                     | Clear           |
|         | 04/02/05 | 6.70                                  | 7.40 | 18.9              | 4,980                              | --                     | Clear           |
|         | 10/06/05 | 4.80                                  | 7.08 | 17.8              | 3,220                              | --                     | Clear           |
|         | 03/26/06 | 6.91                                  | 7.41 | 19.0              | 3,092                              | --                     | Clear           |
|         | 09/21/06 | 7.93                                  | 7.05 | 20.2              | 3,755                              | --                     | Clear           |
|         | 03/14/07 | 6.55                                  | 6.93 | 19.3              | 3,641                              | --                     | Clear           |
|         | 09/26/07 | 6.34                                  | 7.45 | 20.4              | 3,802                              | --                     | Clear           |
|         | 03/07/08 | 5.70                                  | 7.48 | 19.6              | 4,100                              | --                     | Clear           |
|         | 09/10/08 | 6.68                                  | 7.62 | 19.5              | 3,311                              | --                     | Clear           |
|         | 03/11/09 | 6.26                                  | 7.26 | 18.3              | 3,933                              | --                     | Clear           |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well | Sampling Date    | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|------|------------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|      |                  | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|      |                  | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|      | NMWQCC Standard: | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
| MW-3 | 04/30/93         | < 5         | < 5     | < 5          | NA              | NA                               | < 5                | < 5                | < 5                | < 5                   | NA                     | NA                               | NA                        |
|      | 08/22/95         | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|      | 09/10/96         | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|      | 07/30/97         | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|      | 11/03/97         | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|      | 01/27/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|      | 05/26/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|      | 08/13/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|      | 12/24/98         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|      | 03/24/99         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|      | 09/07/99         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|      | 03/27/00         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|      | 03/27/01         | < 1         | < 5     | < 5          | < 5             | < 10                             | < 5                | < 5                | < 1                | < 5                   | NA                     | NA                               | NA                        |
|      | 07/03/02         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|      | 08/01/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|      | 09/10/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|      | 10/07/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|      | 09/22/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|      | 09/27/07         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|      | 09/16/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MW-5 | 04/30/93         | < 5         | < 5     | < 5          | NA              | NA                               | < 5                | < 5                | < 5                | < 5                   | NA                     | NA                               | NA                        |
|      | 08/22/95         | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|      | 09/10/96         | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|      | 07/25/97         | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|      | 10/31/97         | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|      | 01/27/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|      | 05/26/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|      | 08/11/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|      | 12/22/98         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|      | 03/23/99         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|                  |               |             |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
| USEPA MCL:       |               | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
| MW-6             | 12/02/94      | < 0.5       | < 0.5   | < 0.5        | < 0.5           | NA                               | < 0.2              | < 5                | < 5                | < 0.2                 | NA                     | NA                               | NA                        |
|                  | 08/22/95      | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 09/10/96      | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 07/25/97      | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 10/31/97      | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|                  | 01/26/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 05/26/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 08/11/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 12/22/98      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|                  | 03/23/99      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
| MW-7             | 08/23/95      | < 5         | < 5     | < 5          | < 5             | 900                              | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 09/17/96      | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 07/31/97      | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 11/03/97      | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|                  | 01/29/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 05/28/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 08/14/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 12/27/98      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|                  | 03/25/99      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|                  | 09/07/99      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|                  | 03/28/00      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|                  | 11/18/00      | < 1.00      | < 1.00  | < 1.00       | < 1.00          | < 10.00                          | < 1.00             | < 1.00             | < 1.00             | < 1.00                | < 1.00                 | NA                               | NA                        |
|                  | 03/28/01      | < 1         | < 5     | < 5          | < 5             | < 10                             | < 5                | < 5                | < 1                | < 5                   | NA                     | NA                               | NA                        |
|                  | 10/08/01      | < 1         | < 1     | < 1          | < 3             | < 10                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|                  | 07/01/02      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 08/02/03      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/09/04      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 10/07/05      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| 09/22/06         | < 1.0         | < 1.0       | < 1.0   | < 3.0        | NA              | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               |                           |
| 09/26/07         | < 1.0         | < 1.0       | < 1.0   | < 3.0        | NA              | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               |                           |
| 09/11/08         | < 1.0         | < 1.0       | < 1.0   | < 3.0        | NA              | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               |                           |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|                  |               |             |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
| USEPA MCL:       |               | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
| MW-8             | 08/22/95      | 6           | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 09/11/96      | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 08/01/97      | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 11/02/97      | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|                  | 01/29/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 05/28/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 08/14/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 12/27/98      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|                  | 03/25/99      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
| MW-9             | 08/23/95      | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 09/11/96      | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 07/31/97      | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 11/02/97      | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|                  | 01/29/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 05/28/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 08/14/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 12/27/98      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|                  | 03/24/99      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
| MW-10            | 09/19/96      | 2           | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 07/31/97      | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 11/01/97      | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|                  | 01/27/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 05/26/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 08/13/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 12/22/98      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|                  | 03/23/99      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|                  | 09/07/99      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|                  | 03/27/00      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|                  | 03/27/01      | < 1         | < 5     | < 5          | < 5             | < 10                             | < 5                | < 5                | < 1                | < 5                   | NA                     | NA                               | NA                        |
|                  | 07/03/02      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 08/01/03      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/09/04      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 10/07/05      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/22/06      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/27/07      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/16/08      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                         |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-------------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                      | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                     | none                   | none                             | none                      |
|       | USEPA MCL:       |             |         |              |                 |                                  |                    |                    |                    |                         |                        |                                  |                           |
| MW-11 | 09/19/96         | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                     | NA                     | < 10                             | < 10                      |
|       | 07/30/97         | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                     | NA                     | < 10                             | < 10                      |
|       | 11/01/97         | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                     | NA                     | < 10                             | NA                        |
|       | 01/27/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                     | < 5                    | < 5                              | NA                        |
|       | 05/26/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                     | < 5                    | < 5                              | NA                        |
|       | 08/13/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                     | < 5                    | < 5                              | NA                        |
|       | 12/22/98         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                     | < 1                    | < 1                              | NA                        |
|       | 03/24/99         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                     | < 1                    | < 1                              | NA                        |
|       | 09/07/99         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                     | < 1                    | NA                               | NA                        |
|       | 03/27/00         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                     | < 1                    | NA                               | NA                        |
|       | 03/27/01         | < 1         | < 5     | < 5          | < 5             | < 10                             | < 5                | < 5                | < 1                | < 5                     | NA                     | NA                               | NA                        |
|       | 07/03/02         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | <b>1.1</b>         | < 1.0                   | < 1.0                  | NA                               | NA                        |
|       | 08/01/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |
|       | 09/09/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |
|       | 10/07/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |
|       | 09/22/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |
|       | 09/27/07         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |
|       | 09/11/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|                  |               |             |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
| USEPA MCL:       |               | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
| MW-12            | 09/17/96      | 760         | < 5     | < 5          | 52              | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 08/06/97      | 280         | < 5     | < 5          | < 5             | < 10                             | < 5                | 9                  | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 11/04/97      | 340         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|                  | 01/30/98      | 310         | < 5     | < 5          | 26              | < 20                             | < 5                | < 5                | < 5                | < 5                   | 10                     | < 5                              | NA                        |
|                  | 05/28/98      | 310         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | 9                      | < 5                              | NA                        |
|                  | 08/15/98      | 190         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | 8                      | < 5                              | NA                        |
|                  | 12/28/98      | 120         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | 4                      | 2.8                              | NA                        |
|                  | 03/26/99      | 92          | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | 3                      | 2.2                              | NA                        |
|                  | 09/07/99      | 38          | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|                  | 03/29/00      | 92          | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|                  | 11/18/00      | 80.2        | < 1.00  | < 1.00       | < 1.00          | < 10.00                          | < 1.00             | < 1.00             | < 1.00             | < 1.00                | < 1.00                 | NA                               | NA                        |
|                  | 03/29/01      | 59.4        | < 5     | < 5          | < 5             | < 10                             | < 5                | < 5                | < 1                | < 5                   | < 5                    | NA                               | NA                        |
|                  | 10/08/01      | 112         | < 1     | < 1          | 1.68            | < 10                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|                  | 07/01/02      | 51          | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 02/03/03      | 30          | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 08/02/03      | 24          | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/23/04      | 59          | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/09/04      | 66          | < 1.0   | 1.3          | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 04/01/05      | 420         | < 5.0   | < 5.0        | 5.98            | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 10/07/05      | 230         | < 1.0   | < 1.0        | 1.0             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/25/06      | 220         | < 5.0   | < 5.0        | < 15            | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/22/06      | 480         | 97      | 15           | 54              | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/15/07      | 2200        | 450     | 96           | 270             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/26/07      | 1300        | 620     | 230          | 780             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/07/08      | 820         | 120     | 270          | 770             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| (*PSH)           | 10/21/12      | 2300        | 3800    | 300          | 2900            | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L)  |            |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|--------------|------------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene      | Toluene    | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10           | 750        | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5            | 1000       | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|       | USEPA MCL:       |              |            |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-13 | 09/19/96         | <b>4,600</b> | <b>9</b>   | < 5          | <b>170</b>      | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|       | 08/09/97         | <b>2,400</b> | < 5        | <b>100</b>   | < 5             | < 100                            | < 5                | <b>41</b>          | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|       | 11/04/97         | <b>590</b>   | < 5        | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|       | 01/29/98         | <b>61</b>    | < 5        | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 05/28/98         | <b>140</b>   | < 5        | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 08/15/98         | <b>30</b>    | < 5        | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 12/27/98         | <b>58</b>    | <b>1</b>   | < 1          | <b>4</b>        | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | <b>1.3</b>                       | NA                        |
|       | 03/26/99         | <b>44</b>    | < 1        | < 1          | <b>6</b>        | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | <b>0.8</b>                       | NA                        |
|       | 09/08/99         | <b>160</b>   | <b>2</b>   | < 1          | <b>4</b>        | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|       | 03/29/00         | <b>84</b>    | <b>4.0</b> | < 1          | <b>4.0</b>      | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|       | 11/18/00         | <b>139</b>   | < 1.00     | < 1.00       | <b>2.34</b>     | < 10.00                          | < 1.00             | < 1.00             | < 1.00             | < 1.00                | < 1.00                 | NA                               | NA                        |
|       | 03/29/01         | <b>212</b>   | < 5        | < 5          | < 5             | < 10                             | < 5                | < 5                | < 1                | < 5                   | NA                     | NA                               | NA                        |
|       | 10/09/01         | <b>317</b>   | < 1        | < 1          | <b>7.81</b>     | < 10                             | < 1                | < 1                | < 1                | < 1                   | <b>1.41</b>            | NA                               | NA                        |
|       | 07/01/02         | <b>590</b>   | < 10       | < 10         | <b>31</b>       | NA                               | < 10               | < 10               | < 10               | < 10                  | < 10                   | NA                               | NA                        |
|       | 02/04/03         | <b>560</b>   | < 10       | < 10         | <b>19</b>       | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 08/02/03         | <b>1.1</b>   | < 1        | < 1          | < 1             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/23/04         | < 1.0        | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/09/04         | < 1.0        | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/02/05         | < 1.0        | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/07/05         | < 1.0        | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/25/06         | < 1.0        | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/22/06         | < 1.0        | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/15/07         | < 1.0        | < 1.0      | < 1.0        | < 1.5           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/26/07         | < 1.0        | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/08/08         | < 1.0        | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/16/08         | < 1.0        | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/11/09         | < 1.0        | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/07/09         | < 1.0        | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/24/10         | < 1.0        | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 01/02/12         | < 1.0        | < 1.0      | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/19/12         | < 1.0        | < 1.0      | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L)            |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|------------------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene                | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10                     | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5                      | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|       | USEPA MCL:       |                        |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-14 | 09/24/96         | <b>2<sup>(a)</sup></b> | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|       | 08/01/97         | < 1                    | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|       | 11/02/97         | < 5                    | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|       | 01/29/98         | < 5                    | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 05/27/98         | < 5                    | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 08/11/98         | < 5                    | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 12/23/98         | < 1                    | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|       | 03/25/99         | < 1                    | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|       | 09/07/99         | < 1                    | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|       | 03/28/00         | < 1                    | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|       | 03/28/01         | < 1                    | < 5     | < 5          | < 5             | < 10                             | < 5                | < 5                | < 1                | < 5                   | NA                     | NA                               | NA                        |
|       | 07/03/02         | < 1.0                  | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 08/01/03         | < 1.0                  | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/09/04         | <b>3.3</b>             | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/07/05         | <b>48</b>              | < 1.0   | < 1.0        | <b>2.3</b>      | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/22/06         | <b>42</b>              | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/27/07         | <b>25</b>              | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/11/08         | < 1.0                  | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/07/09         | < 1.0                  | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/23/10         | < 1.0                  | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 01/02/12         | < 1.0                  | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/19/12         | < 1.0                  | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |



**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L)            |          |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                         |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|------------------------|----------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-------------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene                | Toluene  | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10                     | 750      | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                      | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5                      | 1000     | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                     | none                   | none                             | none                      |
| MW-15 | 09/25/96         | <b>4<sup>(a)</sup></b> | <b>6</b> | < 5          | <b>6</b>        | < 100                            | < 5                | < 5                | < 5                | < 5                     | NA                     | < 10                             | < 10                      |
|       | 08/08/97         | < 1                    | < 5      | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                     | NA                     | < 10                             | < 10                      |
|       | 11/02/97         | < 5                    | < 5      | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                     | NA                     | < 10                             | NA                        |
|       | 01/28/98         | < 5                    | < 5      | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                     | < 5                    | < 5                              | NA                        |
|       | 05/27/98         | < 5                    | < 5      | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                     | < 5                    | < 5                              | NA                        |
|       | 08/13/98         | < 5                    | < 5      | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                     | < 5                    | < 5                              | NA                        |
|       | 12/24/98         | < 1                    | < 1      | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                     | < 1                    | < 1                              | NA                        |
|       | 03/24/99         | < 1                    | < 1      | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                     | < 1                    | < 1                              | NA                        |
|       | 09/07/99         | < 1                    | < 1      | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                     | < 1                    | NA                               | NA                        |
|       | 03/28/00         | < 1                    | < 1      | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                     | < 1                    | NA                               | NA                        |
|       | 03/28/01         | < 1                    | < 5      | < 5          | < 5             | < 10                             | < 5                | < 5                | < 1                | < 5                     | NA                     | NA                               | NA                        |
|       | 07/03/02         | < 1.0                  | < 1.0    | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                   | < 1.0                  | NA                               | NA                        |
|       | 08/01/03         | < 1.0                  | < 1.0    | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |
|       | 09/10/04         | < 1.0                  | < 1.0    | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |
|       | 10/07/05         | < 1.0                  | < 1.0    | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |
|       | 09/22/06         | < 1.0                  | < 1.0    | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |
|       | 09/27/07         | < 1.0                  | < 1.0    | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |
|       | 09/11/08         | < 1.0                  | < 1.0    | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |
| MW-16 | 10/21/12         | <b>1000</b>            | < 50     | 270          | <b>2300</b>     | NA                               | NA                 | NA                 | NA                 | NA                      | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L)      |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|------------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene          | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10               | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5                | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|       | USEPA MCL:       |                  |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-17 | 09/24/96         | 2 <sup>(a)</sup> | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|       | 07/31/97         | < 1              | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|       | 11/02/97         | < 5              | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|       | 01/28/98         | < 5              | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 05/27/98         | < 5              | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 08/13/98         | < 5              | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 12/24/98         | < 1              | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|       | 03/25/99         | < 1              | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|       | 09/07/99         | < 1              | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|       | 03/28/00         | < 1              | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|       | 03/27/01         | < 1              | < 5     | < 5          | < 5             | < 10                             | < 5                | < 5                | < 1                | < 5                   | NA                     | NA                               | NA                        |
|       | 07/03/02         | < 1.0            | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 08/01/03         | < 1.0            | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | < 1.0            | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/07/05         | < 1.0            | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/22/06         | < 1.0            | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/27/07         | < 1.0            | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/11/08         | < 1.0            | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MW-18 | 08/09/97         | < 1              | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|       | 11/01/97         | < 5              | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|       | 01/28/98         | < 5              | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 05/27/98         | < 5              | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 08/13/98         | < 5              | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 12/24/98         | < 1              | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|       | 03/24/99         | < 1              | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
| MW-19 | 09/27/96         | 2                | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|       | 08/08/97         | < 1              | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|       | 11/01/97         | < 5              | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|       | 01/27/98         | < 5              | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 05/27/98         | < 5              | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 08/13/98         | < 5              | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 12/23/98         | < 1              | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|       | 03/24/99         | < 1              | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|       | USEPA MCL:       |             |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-20 | 08/07/97         | 12          | < 5     | < 5          | < 5             | < 100                            | 8                  | < 5                | 39                 | 22                    | NA                     | < 10                             | < 10                      |
|       | 11/03/97         | < 5         | < 5     | < 5          | < 5             | < 100                            | 10                 | < 5                | 86                 | 28                    | NA                     | < 10                             | NA                        |
|       | 01/29/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | 12                 | < 5                | 72                 | < 5                   | < 5                    | < 5                              | NA                        |
|       | 05/29/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | 15                 | < 5                | 120                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 08/15/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | 14                 | < 5                | 100                | 28                    | < 5                    | < 5                              | NA                        |
|       | 12/28/98         | < 1         | < 1     | < 1          | < 1             | < 20                             | 15                 | < 1                | 83                 | 27                    | < 1                    | < 1                              | NA                        |
|       | 03/26/99         | < 1         | < 1     | < 1          | < 1             | < 20                             | 15                 | < 1                | 84                 | 27                    | < 1                    | < 1                              | NA                        |
|       | 09/08/99         | < 1         | < 1     | < 1          | < 1             | < 20                             | 16                 | < 1                | 100                | 26                    | < 1                    | NA                               | NA                        |
|       | 03/29/00         | < 1         | < 1     | < 1          | < 1             | < 20                             | 19                 | < 1                | 110                | 24                    | < 1                    | NA                               | NA                        |
|       | 11/15/00         | < 1.00      | < 1.00  | < 1.00       | < 1.00          | < 10.00                          | 17.5               | < 1.00             | 94.5               | 18.7                  | < 1.00                 | NA                               | NA                        |
|       | 03/29/01         | < 1         | < 5     | < 5          | < 5             | < 10                             | 26.6               | < 5                | 128                | 19.1                  | NA                     | NA                               | NA                        |
|       | 10/08/01         | < 1         | < 1     | < 1          | < 3             | < 10                             | 26.6               | < 1                | 204                | 20.8                  | < 1                    | NA                               | NA                        |
|       | 07/01/02         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | 25                 | < 1.0              | 110                | 12                    | < 1.0                  | NA                               | NA                        |
|       | 02/03/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | 24                 | < 1.0              | 160                | 11                    | < 1.0                  | NA                               | NA                        |
|       | 08/03/03         | 1.4         | < 1.0   | < 1.0        | < 1.0           | < 10                             | 26                 | < 1.0              | 120                | 8.8                   | < 1.0                  | NA                               | NA                        |
|       | 03/23/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 50                             | 29                 | < 5.0              | 110                | 5.7                   | < 5.0                  | NA                               | NA                        |
|       | 09/09/04         | 1.2         | < 1.0   | < 1.0        | < 1.0           | < 10                             | 23                 | < 1.0              | 140                | 5.7                   | < 1.0                  | NA                               | NA                        |
|       | 04/01/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 50                             | 62                 | < 5.0              | 240                | 9.1                   | < 5.0                  | NA                               | NA                        |
|       | 10/07/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 50                             | 62                 | < 5.0              | 240                | 8.7                   | < 5.0                  | NA                               | NA                        |
|       | 03/25/06         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | 23                 | < 1.0              | 63                 | 2.9                   | < 1.0                  | NA                               | NA                        |
|       | 06/22/06         | 4.3         | < 1.0   | < 1.0        | < 3.0           | < 10                             | 15                 | < 1.0              | 45                 | 1.6                   | < 1.0                  | NA                               | NA                        |
|       | 03/15/07         | 5.3         | < 1.0   | < 1.0        | < 1.5           | < 10                             | 16                 | < 1.0              | 40                 | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 09/26/07         | 1.7         | < 1.0   | < 1.0        | < 1.5           | < 10                             | 25                 | < 1.0              | 64                 | 1.1                   | < 1.0                  | NA                               | NA                        |
|       | 03/07/08         | 2.3         | < 1.0   | < 1.0        | < 1.5           | < 10                             | 22                 | < 1.0              | 73                 | 1.2                   | < 1.0                  | NA                               | NA                        |
|       | 09/16/08         | 1.1         | < 1.0   | < 1.0        | < 1.5           | < 10                             | 20                 | < 1.0              | 47                 | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 03/12/09         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | 14                 | < 1.0              | 35                 | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 10/07/09         | 2.8         | < 1.0   | < 1.0        | < 1.5           | < 10                             | 7.2                | < 1.0              | 13                 | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 03/30/10         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | 13                 | < 1.0              | 28                 | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 09/24/10         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | 4.6                | < 1.0              | 9.7                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 04/19/11         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | 14                 | < 1.0              | 22                 | < 1.0                 | < 1.0                  | < 10                             | NA                        |
|       | 01/03/12         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | 5.1                | < 1.0              | 6.4                | < 1.0                 | < 1.0                  | < 10                             | NA                        |
|       | 04/18/12         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | 6.4                | < 1.0              | 8.6                | < 1.0                 | < 1.0                  | < 10                             | NA                        |
|       | 10/19/12         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | 2.9                | < 1.0              | 8.1                | < 1.0                 | < 1.0                  | < 10                             | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|       | USEPA MCL:       |             |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-21 | 08/07/97         | 370         | < 5     | < 5          | < 5             | < 100                            | < 5                | 11                 | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|       | 11/04/97         | 170         | < 5     | < 5          | 15              | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|       | 01/30/98         | 700         | < 5     | < 5          | 26              | < 20                             | < 5                | < 5                | < 5                | < 5                   | NA                     | < 5                              | NA                        |
|       | 05/28/98         | 790         | < 5     | < 5          | 34              | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|       | 08/15/98         | 1,000       | < 5     | < 5          | 68              | < 20                             | < 5                | < 5                | < 5                | < 5                   | 7                      | < 5                              | NA                        |
|       | 12/28/98         | 1,400       | 1       | < 1          | 61              | < 20                             | < 1                | < 1                | < 1                | < 1                   | 9                      | 8.8                              | NA                        |
|       | 03/26/99         | 1,400       | < 1     | < 1          | 28              | < 20                             | < 1                | < 1                | < 1                | < 1                   | 5                      | 7.1                              | NA                        |
|       | 09/07/99         | 1,500       | < 1     | 4            | 25              | < 20                             | < 1                | < 1                | < 1                | < 1                   | 4                      | NA                               | NA                        |
|       | 03/29/00         | 1,700       | < 1     | 8.0          | 12              | < 20                             | < 1                | < 1                | < 1                | < 1                   | 4.0                    | NA                               | NA                        |
|       | 11/18/00         | 1,430       | < 5.00  | 12.7         | < 10.0          | < 50.0                           | < 5.00             | < 5.00             | < 5.00             | < 5.00                | < 5.00                 | NA                               | NA                        |
|       | 03/29/01         | 2,600       | < 10    | 16.9         | < 10            | < 20                             | < 10               | < 10               | < 2                | < 10                  | < 10                   | NA                               | NA                        |
|       | 10/08/01         | 2,210       | < 1     | 19           | 2.6             | < 10                             | < 1                | < 1                | < 1                | < 1                   | 1.38                   | NA                               | NA                        |
|       | 07/01/02         | 1,800       | < 1.0   | 21           | 1.4             | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | 1.6                    | NA                               | NA                        |
|       | 02/03/03         | 1,400       | < 10    | 40           | < 10            | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 08/02/03         | 370         | < 1     | < 1          | 2.2             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/23/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/01/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/07/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/25/06         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/22/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/14/07         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/27/07         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/08/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/11/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/11/09         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/07/09         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/23/10         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 01/03/12         | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/25/12         | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|                  |               |             |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
| USEPA MCL:       |               | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
| MW-22            | 08/07/97      | < 1         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|                  | 11/03/97      | < 5         | < 5     | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|                  | 01/29/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 05/28/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 08/14/98      | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|                  | 12/27/98      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | 4                  | 1                     | < 1                    | < 1                              | NA                        |
|                  | 03/25/99      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | 4                  | 1                     | < 1                    | < 1                              | NA                        |
|                  | 09/08/99      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | 5                  | 2                     | < 1                    | NA                               | NA                        |
|                  | 03/28/00      | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | 6.0                | 2.0                   | < 1                    | NA                               | NA                        |
|                  | 11/15/00      | < 1.00      | < 1.00  | < 1.00       | < 1.00          | < 10.00                          | < 1.00             | < 1.00             | 4.29               | 1.08                  | < 1.00                 | NA                               | NA                        |
|                  | 03/29/01      | < 1         | < 5     | < 5          | < 5             | < 10                             | < 5                | < 5                | 7.62               | < 5                   | NA                     | NA                               | NA                        |
|                  | 10/08/01      | < 1         | < 1     | < 1          | < 3             | < 10                             | < 1                | < 1                | 10.3               | 1.33                  | < 1                    | NA                               | NA                        |
|                  | 07/01/02      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | 6.8                | 1.5                   | < 1.0                  | NA                               | NA                        |
|                  | 02/03/03      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | 4.6                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 08/02/03      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | < 1.0              | < 1.0              | 4.1                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 03/23/04      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | < 1.0              | < 1.0              | 2.6                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 09/09/04      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | < 1.0              | < 1.0              | 2.0                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 04/01/05      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | < 1.0              | < 1.0              | 1.2                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 10/07/05      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 03/25/06      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | < 1.0              | < 1.0              | 1.1                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 09/22/06      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | < 10                             | < 2.0              | < 1.0              | 1.2                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 03/14/07      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | < 1.0              | < 1.0              | 1.1                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 09/26/07      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 03/07/08      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | < 1.0              | < 1.0              | 1.3                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 09/16/08      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 03/12/09      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | < 1.0              | < 1.0              | 1.2                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 10/07/09      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 03/30/10      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | < 1.0              | < 1.0              | 1.1                | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 09/23/10      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|                  | 04/19/11      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | < 10                             | < 1.0              | < 1.0              | 1.6                | < 1.0                 | < 1.0                  | < 10                             | NA                        |
| 01/03/12         | < 1.0         | < 1.0       | < 1.0   | < 1.5        | < 10            | < 1.0                            | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 10                   | NA                               |                           |
| 04/18/12         | < 1.0         | < 1.0       | < 1.0   | < 1.5        | < 10            | < 1.0                            | < 1.0              | 1.1                | < 1.0              | < 1.0                 | < 10                   | NA                               |                           |
| 10/21/12         | < 1.0         | < 1.0       | < 1.0   | < 1.5        | < 10            | < 1.0                            | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 10                   | NA                               |                           |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well   | Sampling Date    | BTEX (ug/L) |            |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|--------|------------------|-------------|------------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|        |                  | Benzene     | Toluene    | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|        |                  | 10          | 750        | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|        | NMWQCC Standard: | 5           | 1000       | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|        | USEPA MCL:       |             |            |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-23D | 08/06/97         | < 1         | < 5        | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | < 10                      |
|        | 11/05/97         | < 5         | < 5        | < 5          | < 5             | < 100                            | < 5                | < 5                | < 5                | < 5                   | NA                     | < 10                             | NA                        |
|        | 01/28/98         | < 5         | < 5        | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|        | 05/27/98         | < 5         | < 5        | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|        | 08/11/98         | < 5         | < 5        | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | < 5                    | < 5                              | NA                        |
|        | 12/23/98         | < 1         | < 1        | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|        | 04/05/99         | < 1         | < 1        | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|        | 05/02/00         | < 1         | < 1        | < 1          | < 1             | < 10                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|        | 04/19/01         | < 1         | < 1        | < 1          | < 1             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 06/20/01         | < 1         | < 5        | < 5          | < 10            | < 10                             | < 5                | < 5                | < 1                | < 5                   | < 5                    | NA                               | NA                        |
|        | 06/12/02         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|        | 08/02/03         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/09/04         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 10/16/05         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/22/06         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/27/07         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/11/08         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 10/07/09         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/26/10         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 01/03/12         | < 1.0       | < 1.0      | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 10/21/12         | <b>1.6</b>  | <b>8.1</b> | <b>2.8</b>   | <b>10</b>       | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 12/14/12         | < 1.0       | <b>1.4</b> | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 01/21/13         | < 1.0       | < 1.0      | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well   | Sampling Date    | BTEX (ug/L) |            |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|--------|------------------|-------------|------------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|        |                  | Benzene     | Toluene    | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|        |                  | 10          | 750        | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|        | NMWQCC Standard: | 5           | 1000       | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|        | USEPA MCL:       |             |            |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-24D | 10/29/98         | < 5         | < 5        | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | NA                     | < 5                              | NA                        |
|        | 12/23/98         | < 1         | < 1        | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|        | 03/30/99         | < 1         | < 1        | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|        | 05/02/00         | < 1         | < 1        | < 1          | < 1             | < 10                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|        | 04/19/01         | < 1         | < 1        | < 1          | < 1             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 06/20/01         | < 1         | < 5        | < 5          | < 10            | < 10                             | < 5                | < 5                | < 1                | < 5                   | < 5                    | NA                               | NA                        |
|        | 06/12/02         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|        | 08/02/03         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/09/04         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 10/16/05         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/22/06         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/27/07         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/10/08         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 10/07/09         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/26/10         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 01/03/12         | < 1.0       | < 1.0      | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 10/21/12         | < 1.0       | <b>2.1</b> | <b>1.0</b>   | <b>3.5</b>      | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 12/14/12         | <b>9.6</b>  | <b>17</b>  | <b>4.9</b>   | <b>14</b>       | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 01/21/13         | < 1.0       | < 1.0      | <b>3.3</b>   | <b>6.0</b>      | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MW-25D | 10/29/98         | < 5         | < 5        | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | NA                     | < 5                              | NA                        |
|        | 12/23/98         | < 1         | < 1        | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|        | 03/30/99         | < 1         | < 1        | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|        | 05/02/00         | < 1         | < 1        | < 1          | < 1             | < 10                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | NA                               | NA                        |
|        | 04/19/01         | < 1         | < 1        | < 1          | < 1             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 06/20/01         | < 1         | < 5        | < 5          | < 10            | < 10                             | < 5                | < 5                | < 1                | < 5                   | < 5                    | NA                               | NA                        |
|        | 06/12/02         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | NA                               | NA                        |
|        | 08/02/03         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/09/04         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 10/16/05         | < 1.0       | < 1.0      | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/22/06         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/27/07         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/10/08         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 10/07/09         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 09/26/10         | < 1.0       | < 1.0      | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 01/03/12         | < 1.0       | < 1.0      | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 10/21/12         | < 1.0       | <b>1.2</b> | < 1.0        | <b>2.2</b>      | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 12/14/12         | < 1.0       | < 1.0      | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|        | 01/21/13         | < 1.0       | < 1.0      | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|       | USEPA MCL:       |             |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-26 | 10/29/98         | < 5         | < 5     | < 5          | < 5             | < 20                             | < 5                | < 5                | < 5                | < 5                   | NA                     | < 5                              | NA                        |
|       | 12/27/98         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|       | 03/25/99         | < 1         | < 1     | < 1          | < 1             | < 20                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 1                              | NA                        |
|       | 07/25/99         | < 1         | < 1     | < 1          | < 1             | < 10                             | < 1                | < 1                | <b>1</b>           | < 1                   | < 1                    | < 1                              | NA                        |
|       | 09/07/99         | < 1         | < 1     | < 1          | < 1             | < 10                             | < 1                | < 1                | <b>1</b>           | < 1                   | < 1                    | NA                               | NA                        |
|       | 03/28/00         | < 1         | < 1     | < 1          | < 1             | < 10                             | < 1                | < 1                | <b>3.0</b>         | < 1                   | < 1                    | NA                               | NA                        |
|       | 11/15/00         | < 1.00      | < 1.00  | < 1.00       | < 1.00          | < 10.00                          | < 1.00             | < 1.00             | <b>3.14</b>        | < 1.00                | < 1.00                 | NA                               | NA                        |
|       | 03/28/01         | < 1         | < 5     | < 5          | < 5             | < 10                             | < 5                | < 5                | <b>6.75</b>        | < 5                   | NA                     | NA                               | NA                        |
|       | 10/08/01         | < 1         | < 1     | < 1          | < 3             | < 10                             | < 1                | < 1                | <b>9.61</b>        | < 1                   | < 1                    | NA                               | NA                        |
|       | 07/01/02         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | <b>1.7</b>         | < 1.0              | <b>9.1</b>         | <b>1.6</b>            | < 1.0                  | NA                               | NA                        |
|       | 02/03/03         | <b>1.9</b>  | < 1.0   | < 1.0        | < 1.0           | NA                               | <b>1.1</b>         | < 1.0              | <b>11</b>          | <b>1.2</b>            | < 1.0                  | NA                               | NA                        |
|       | 08/03/03         | <b>49</b>   | < 1.0   | < 1.0        | < 1.0           | < 10                             | <b>3.2</b>         | < 1.0              | <b>14</b>          | <b>1.1</b>            | < 1.0                  | NA                               | NA                        |
|       | 03/23/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | <b>2.2</b>         | < 1.0              | <b>19</b>          | <b>1.1</b>            | < 1.0                  | NA                               | NA                        |
|       | 09/09/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | <b>1.8</b>         | < 1.0              | <b>18</b>          | <b>1.2</b>            | < 1.0                  | NA                               | NA                        |
|       | 04/01/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | <b>2.8</b>         | < 1.0              | <b>27</b>          | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 10/07/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | <b>3.0</b>         | < 1.0              | <b>25</b>          | <b>1.0</b>            | < 1.0                  | NA                               | NA                        |
|       | 03/25/06         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | <b>3.2</b>         | < 1.0              | <b>27</b>          | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 09/22/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | < 10                             | <b>3.3</b>         | < 1.0              | <b>32</b>          | <b>1.0</b>            | < 1.0                  | NA                               | NA                        |
|       | 03/14/07         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | <b>3.9</b>         | < 1.0              | <b>29</b>          | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 09/26/07         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | <b>4.3</b>         | < 1.0              | <b>37</b>          | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 03/07/08         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | <b>1.6</b>         | < 1.0              | <b>31</b>          | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 09/16/08         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | <b>4.8</b>         | < 1.0              | <b>47</b>          | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 03/11/09         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | < 10                             | <b>4.2</b>         | < 1.0              | <b>43</b>          | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 10/07/09         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | <b>5.5</b>         | < 1.0              | <b>42</b>          | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 03/30/10         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | <b>5.5</b>         | < 1.0              | <b>60</b>          | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 09/24/10         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | <b>6.2</b>         | < 1.0              | <b>50</b>          | < 1.0                 | < 1.0                  | NA                               | NA                        |
|       | 04/19/11         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | <b>5.9</b>         | < 1.0              | <b>60</b>          | < 1.0                 | < 1.0                  | < 10                             | NA                        |
|       | 01/03/12         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | <b>7.8</b>         | < 1.0              | <b>57</b>          | < 1.0                 | < 1.0                  | < 10                             | NA                        |
|       | 04/18/12         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | <b>6.7</b>         | < 1.0              | <b>53</b>          | < 1.0                 | < 1.0                  | < 10                             | NA                        |
|       | 10/19/12         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 10                             | <b>5.6</b>         | < 1.0              | <b>54</b>          | < 1.0                 | < 1.0                  | < 10                             | NA                        |



**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L)  |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|--------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene      | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10           | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5            | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|       | USEPA MCL:       |              |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-28 | 11/18/00         | < 1.00       | < 1.00  | < 1.00       | < 1.00          | < 10.00                          | < 1.00             | < 1.00             | < 1.00             | < 1.00                | < 1.00                 | < 5.00                           | NA                        |
|       | 02/13/01         | < 1.00       | < 1.00  | < 1.00       | < 1.00          | < 10.00                          | < 1.00             | < 1.00             | < 1.00             | < 1.00                | < 1.00                 | < 0.100                          | NA                        |
|       | 03/28/01         | < 1          | < 5     | < 5          | < 5             | < 10                             | < 5                | < 5                | < 1                | < 5                   | NA                     | < 0.05                           | NA                        |
|       | 06/20/01         | < 1          | < 5     | < 5          | < 10            | < 10                             | < 5                | < 5                | < 1                | < 5                   | < 5                    | <b>0.124</b>                     | NA                        |
|       | 10/09/01         | < 1          | < 1     | < 1          | < 3             | < 10                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | <b>0.15</b>                      | NA                        |
|       | 07/03/02         | < 1.0        | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | < 10                             | < 10                      |
|       | 08/02/03         | < 1.0        | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | < 1.0        | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/06/05         | < 1.0        | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/22/06         | < 1.0        | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/27/07         | < 1.0        | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/08         | < 1.0        | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MW-29 | 11/19/00         | <b>590</b>   | < 5.00  | <b>57.8</b>  | <b>23.2</b>     | < 10.00                          | < 1.00             | < 1.00             | < 1.00             | < 1.00                | <b>18.7</b>            | < 0.100                          | NA                        |
|       | 02/13/01         | <b>734</b>   | < 5.00  | <b>77.9</b>  | <b>32.0</b>     | < 50.00                          | < 5.00             | < 5.00             | < 5.00             | < 5.00                | <b>25.0</b>            | 6.540                            | NA                        |
|       | 03/28/01         | <b>1,130</b> | < 5     | <b>73.5</b>  | <b>28.2</b>     | < 10                             | < 5                | < 5                | < 1                | < 5                   | <b>24</b>              | 6.050                            | NA                        |
|       | 06/20/01         | <b>556</b>   | < 5     | <b>69.6</b>  | <b>9.21</b>     | < 10                             | < 5                | < 5                | < 1                | < 5                   | <b>9.69</b>            | 1.15                             | NA                        |
|       | 10/09/01         | <b>413</b>   | < 1     | <b>78.2</b>  | <b>5.03</b>     | < 10                             | < 1                | < 1                | < 1                | < 1                   | <b>8.03</b>            | <b>5.3</b>                       | NA                        |
|       | 07/03/02         | <b>200</b>   | < 1     | <b>83</b>    | < 1             | NA                               | < 1                | < 1                | < 1                | < 1                   | <b>3.8</b>             | < 10                             | < 10                      |
|       | 02/03/03         | <b>190</b>   | < 1.0   | <b>38</b>    | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 08/03/03         | <b>210</b>   | < 1.0   | <b>49</b>    | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/23/04         | <b>88</b>    | < 5.0   | <b>7.5</b>   | < 5.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | <b>110</b>   | < 5.0   | < 5.0        | < 5.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/01/05         | <b>30</b>    | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/06/05         | <b>12</b>    | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/24/06         | <b>4.9</b>   | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/22/06         | <b>14</b>    | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/14/07         | <b>2.5</b>   | < 1.0   | < 1.0        | < 1.5           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/25/07         | <b>2.7</b>   | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/08/08         | <b>1.8</b>   | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/08         | <b>26</b>    | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/11/09         | <b>4.1</b>   | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/07/09         | <b>8.4</b>   | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/30/10         | <b>1.4</b>   | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/23/10         | <b>1.3</b>   | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/19/11         | < 1.0        | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 01/02/12         | < 1.0        | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/18/12         | < 1.0        | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/21/12         | < 1.0        | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
| MW-30 | 11/18/00         | < 1.00      | < 1.00  | < 1.00       | < 1.00          | < 10.00                          | < 1.00             | < 1.00             | < 1.00             | < 1.00                | < 1.00                 | < 0.200                          | NA                        |
|       | 02/13/01         | < 1.00      | < 1.00  | < 1.00       | < 1.00          | < 10.00                          | < 1.00             | < 1.00             | < 1.00             | < 1.00                | < 1.00                 | < 0.100                          | NA                        |
|       | 03/28/01         | < 1         | < 5     | < 5          | < 5             | < 10                             | < 5                | < 5                | < 1                | < 5                   | NA                     | < 0.05                           | NA                        |
|       | 06/20/01         | < 1         | < 5     | < 5          | < 10            | < 10                             | < 5                | < 5                | < 1                | < 5                   | < 5                    | < 0.05                           | NA                        |
|       | 10/09/01         | < 1         | < 1     | < 1          | < 3             | < 10                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 0.15                           | NA                        |
|       | 07/04/02         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | < 10                             | < 10                      |
|       | 08/02/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/06/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/21/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/27/07         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/16/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MW-31 | 10/04/01         | < 1         | < 1     | < 1          | < 3             | < 10                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 0.15                           | NA                        |
|       | 02/26/02         | < 1         | < 1     | < 1          | < 2             | < 5                              | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 5                              | < 5                       |
|       | 07/04/02         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | < 10                             | < 10                      |
|       | 08/02/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/06/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/22/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/27/07         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|       | USEPA MCL:       |             |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-32 | 10/04/01         | 897         | < 1     | 44.3         | < 3             | < 10                             | < 1                | < 1                | < 1                | < 1                   | 8.27                   | 2.101                            | NA                        |
|       | 02/26/02         | 805         | < 5     | 59.6         | < 10            | < 25                             | < 5                | < 5                | < 5                | < 5                   | 31.5                   | 28.5                             | < 5                       |
|       | 07/04/02         | 1,000       | < 1     | 50           | < 1             | NA                               | < 1                | < 1                | < 1                | < 1                   | 24                     | < 10                             | < 10                      |
|       | 02/03/03         | 600         | < 1.0   | 37           | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 08/02/03         | 330         | < 1.0   | 19           | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/23/04         | 390         | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | 370         | < 5.0   | < 5.0        | < 5.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/01/05         | 28          | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/06/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/27/06         | 38          | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/21/06         | 37          | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/14/07         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/27/07         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/08/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/08         | 1.2         | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/11/09         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/07/09         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/30/10         | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/23/10         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/19/11         | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 01/02/12         | 1.8         | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/18/12         | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/19/12         | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MW-33 | 10/04/01         | < 1         | < 1     | < 1          | < 3             | < 10                             | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 0.15                           | NA                        |
|       | 02/26/02         | < 1         | < 1     | < 1          | < 2             | < 5                              | < 1                | < 1                | < 1                | < 1                   | < 1                    | < 5                              | < 5                       |
|       | 07/04/02         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | < 10                             | < 10                      |
|       | 08/02/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/06/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/21/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/27/07         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
| USEPA MCL:       |               | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
| MW-34            | 01/21/03      | 200         | < 5.0   | < 5.0        | < 5.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 02/04/03      | 250         | < 1.0   | < 1.0        | 1.8             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 08/03/03      | 60          | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/22/04      | 130         | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/10/04      | 74          | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 04/01/05      | 440         | < 5.0   | < 5.0        | < 5.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 10/06/05      | 98          | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/26/06      | 130         | < 5.0   | < 5.0        | < 15            | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/21/06      | 44          | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/14/07      | 62          | < 1.0   | < 1.0        | < 1.5           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/26/07      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/08/08      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/10/08      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/11/09      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 10/07/09      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/30/10      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/23/10      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 04/19/11      | 20          | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 01/02/12      | 210         | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 04/18/12      | 210         | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 10/19/12      | 140         | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|       | USEPA MCL:       |             |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-35 | 01/21/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 02/03/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 08/03/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/22/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/01/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/06/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/26/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/21/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/14/07         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/26/07         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/08/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/11/09         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/07/09         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/30/10         | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/23/10         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/19/11         | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 01/02/12         | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/18/12         | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/21/12         | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well  | Sampling Date    | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|-------|------------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|       |                  | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|       |                  | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
|       | NMWQCC Standard: | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
|       | USEPA MCL:       |             |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| MW-36 | 11/11/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | < 10                             | NA                        |
|       | 03/22/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/02/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/06/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/26/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/21/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/14/07         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/26/07         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/07/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/11/09         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MW-37 | 11/11/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | < 10                             | NA                        |
|       | 03/22/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/02/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/06/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/26/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/21/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/14/07         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/26/07         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/07/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/11/09         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MW-38 | 11/11/03         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 10                             | < 1.0              | < 1.0              | < 1.0              | < 1.0                 | < 1.0                  | < 10                             | NA                        |
|       | 03/22/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/04         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 04/02/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 10/06/05         | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/26/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/21/06         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/14/07         | < 1.0       | < 1.0   | < 1.0        | < 1.5           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/26/07         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/07/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 09/10/08         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|       | 03/11/09         | < 1.0       | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

**Table 4. Summary of Groundwater Analyses - Organics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date | BTEX (ug/L) |         |              |                 | Other VOCs (ug/L)                |                    |                    |                    |                       |                        | SVOC's (ug/L)                    |                           |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------------------|--------------------|--------------------|--------------------|-----------------------|------------------------|----------------------------------|---------------------------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | Methyl ethyl ketone (2-butanone) | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,2,4-Trimethylbenzene | Total Naphthalene <sup>(b)</sup> | 4-Methylphenol (p-Cresol) |
|                  |               |             |         |              |                 |                                  |                    |                    |                    |                       |                        |                                  |                           |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                             | 25                 | 10                 | 5                  | 60                    | none                   | 30                               | none                      |
| USEPA MCL:       |               | 5           | 1000    | 700          | 10000           | none                             | none               | 5                  | 7                  | 200                   | none                   | none                             | none                      |
| MPE-1            | 08/02/03      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MPE-2            | 08/02/03      | 270         | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/22/04      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/10/04      | 250         | < 5.0   | < 5.0        | < 5.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 04/02/05      | 580         | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 10/16/05      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/24/06      | 3.9         | < 1.0   | < 1.0        | < 3.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MPE-11           | 08/02/03      | 910         | 160     | 44           | 52              | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/22/04      | 280         | 30      | 31           | < 20            | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/10/04      | 96          | 4.7     | 9.7          | 2.6             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 04/02/05      | 24          | 6.7     | 4.2          | 1.8             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 10/16/05      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/24/06      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MPE-15           | 08/03/03      | 5.2         | < 1.0   | 11           | 83              | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/22/04      | 12          | 9.8     | 6.9          | 29              | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 09/10/04      | 15          | 7.9     | 7.9          | 39              | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 10/16/05      | 2.5         | < 1.0   | 8.0          | 33              | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
|                  | 03/24/06      | < 1.0       | < 1.0   | 2.2          | 8.6             | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MPE-16           | * 10/19/12    | 2700        | 1000    | 180          | 2900            | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MPE-24           | * 10/19/12    | 3000        | 2700    | 220          | 2500            | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |
| MPE-29           | 10/21/12      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | NA                               | NA                 | NA                 | NA                 | NA                    | NA                     | NA                               | NA                        |

NOTES:

Only constituents detected in one or more ground water samples are shown in this table

All results reported above the detection limit are shown in bold type

NA - A result for this constituent is not available

<sup>(a)</sup> Analyte present in method blank

<sup>(b)</sup> Total Naphthalene = Naphthalene + 1-Methylnaphthalene + 2-Methylnaphthalene

**Table 5. Summary of Groundwater Analyses - Inorganics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date | Major Ions (mg/L)  |          |         |                                             |                    |           |           |                    |                                          | Metals (mg/L) |         |         |          |         |        |         |           |          |          |         |        |          |
|------------------|---------------|--------------------|----------|---------|---------------------------------------------|--------------------|-----------|-----------|--------------------|------------------------------------------|---------------|---------|---------|----------|---------|--------|---------|-----------|----------|----------|---------|--------|----------|
|                  |               | TDS                | Chloride | Sulfate | NO <sub>2</sub> /NO <sub>3</sub> - N, total | Calcium            | Potassium | Magnesium | Sodium             | Total alkalinity (as CaCO <sub>3</sub> ) | Arsenic       | Barium  | Cadmium | Chromium | Copper  | Iron   | Lead    | Manganese | Mercury  | Selenium | Silver  | Zinc   | Aluminum |
| NMWQCC Standard: |               | 1,000              | 250      | 600     | 10                                          | none               | none      | none      | none               | none                                     | 0.1           | 1.0     | 0.01    | 0.05     | 1.0     | 1.0    | 0.05    | 0.20      | 0.002    | 0.05     | 0.05    | 10     | 5        |
| MW-3             | 03/23/94      | <sup>c</sup> NA    | NA       | NA      | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | < 0.03        | 0.02    | < 0.01  | < 0.01   | NA      | NA     | < 0.03  | NA        | < 0.0002 | < 0.05   | < 0.01  | NA     | NA       |
|                  | 08/22/95      | <sup>b</sup> 3,650 | 405      | 1,800   | 0.8                                         | 587                | 3.2       | 136       | 215                | 116                                      | < 0.05        | < 0.01  | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.05  | NA        | 0.0002   | < 0.1    | < 0.01  | 0.03   | 0.24     |
|                  | 09/10/96      | <sup>b</sup> 3,530 | 385      | 1,800   | 0.96                                        | 635                | 20        | 144       | 229                | 115                                      | < 0.05        | 0.02    | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | < 0.01 | NA       |
|                  | 07/30/97      | <sup>b</sup> 3,560 | 409      | 1,680   | 1.1                                         | 804                | < 5       | 135       | 410                | 114                                      | < 0.01        | < 0.01  | < 0.005 | < 0.01   | < 0.01  | < 0.3  | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | < 0.01 | NA       |
|                  | 11/03/97      | <sup>b</sup> 3,450 | 370      | 1,840   | 1.1                                         | 790 <sup>(d)</sup> | 3.0       | 180       | 290 <sup>(d)</sup> | 110                                      | < 0.03        | 0.04    | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03  | < 0.01    | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/27/98      | <sup>c</sup> 2,790 | 398      | 1,700   | 1.1                                         | 643                | 3         | 138       | 212                | 102                                      | < 0.1         | 0.014   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | < 0.005   | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/26/98      | <sup>b</sup> 2,700 | 430      | 2,100   | 1.2                                         | NA                 | NA        | NA        | NA                 | 108                                      | < 0.005       | 0.008   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | < 0.005   | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/13/98      | <sup>b</sup> 3,600 | 443      | 95      | 1.1                                         | 594                | 3         | 121       | 205                | 111                                      | 0.007         | 0.010   | < 0.005 | < 0.01   | < 0.01  | 0.07   | < 0.005 | < 0.005   | < 0.0002 | < 0.005  | < 0.01  | 0.04   | NA       |
|                  | 12/24/98      | <sup>b</sup> 3,390 | 390      | 1,900   | 1.1                                         | 563                | 3.4       | 121       | 220                | 111                                      | < 0.004       | 0.0133  | < 0.002 | < 0.005  | < 0.002 | 0.030  | < 0.025 | < 0.001   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/24/99      | <sup>b</sup> 3,430 | 370      | 1,800   | 1.3                                         | 566                | 3.5       | 127       | 211                | 113                                      | < 0.004       | 0.0120  | < 0.002 | < 0.005  | < 0.002 | 0.042  | < 0.025 | < 0.001   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/27/00      | 3,460              | 410      | 2,000   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     | NA       |
|                  | 03/27/01      | 4,130              | 448      | 1,610   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     | NA       |
|                  | 07/03/02      | 3,200              | 340      | 1,800   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     | NA       |
| MW-5             | 03/23/94      | <sup>c</sup> NA    | NA       | NA      | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | < 0.03        | 0.01    | < 0.01  | < 0.01   | NA      | NA     | < 0.03  | NA        | < 0.0002 | < 0.05   | < 0.01  | NA     | NA       |
|                  | 08/22/95      | <sup>b</sup> 3,440 | 574      | 1,800   | 3.1                                         | 623                | 3.8       | 145       | 204                | 122                                      | < 0.05        | < 0.01  | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.05  | NA        | < 0.0002 | < 0.1    | < 0.01  | 0.01   | 0.38     |
|                  | 09/10/96      | <sup>b</sup> 3,550 | 578      | 1,690   | 2.97                                        | 631                | 19        | 158       | 218                | 114                                      | < 0.05        | 0.01    | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.003 | NA        | < 0.0002 | 0.02     | < 0.01  | 0.02   | NA       |
|                  | 07/25/97      | <sup>b</sup> 3,960 | 622      | 1,720   | 3.7                                         | 916                | < 5       | 159       | 270                | 120                                      | < 0.01        | < 0.01  | < 0.005 | < 0.01   | < 0.01  | 0.26   | < 0.003 | NA        | < 0.0002 | 0.02     | < 0.01  | < 0.01 | NA       |
|                  | 10/31/97      | <sup>b</sup> 3,700 | 560      | 1,730   | 3.6                                         | 780 <sup>(d)</sup> | 2.6       | 200       | 270 <sup>(d)</sup> | 118                                      | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03  | < 0.01    | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/27/98      | <sup>c</sup> 1,180 | 260      | 700     | 1.8                                         | 300                | < 2       | 67.9      | 99.3               | 78                                       | < 0.1         | 0.047   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | < 0.005   | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/26/98      | <sup>b</sup> 2,200 | 570      | 1,900   | 3.5                                         | NA                 | NA        | NA        | NA                 | 110                                      | < 0.005       | 0.012   | < 0.005 | < 0.01   | < 0.01  | 0.04   | < 0.05  | < 0.005   | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/11/98      | <sup>b</sup> 3,400 | 520      | 1,500   | 3.7                                         | 588                | 3         | 144       | 193                | 121                                      | < 0.005       | 0.010   | < 0.005 | < 0.01   | < 0.01  | 0.06   | < 0.005 | < 0.005   | < 0.0002 | 0.016    | < 0.01  | < 0.02 | NA       |
|                  | 12/22/98      | <sup>b</sup> 3,440 | 620      | 1,700   | 3.8                                         | 628                | 3         | 147       | 203                | 116                                      | < 0.004       | 0.0148  | < 0.002 | < 0.005  | < 0.002 | 0.026  | < 0.025 | < 0.005   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/23/99      | <sup>b</sup> 3,490 | 590      | 1,600   | 3.9                                         | 607                | 3.2       | 150       | 217                | 116                                      | < 0.004       | 0.0142  | < 0.002 | < 0.005  | < 0.002 | 0.023  | < 0.025 | < 0.001   | < 0.0002 | 0.013    | < 0.003 | < 0.01 | NA       |
| MW-6             | 08/22/95      | <sup>b</sup> 2,800 | 344      | 1,600   | 1                                           | 458                | 3.9       | 148       | 124                | 110                                      | < 0.05        | < 0.01  | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.05  | NA        | 0.0005   | < 0.1    | < 0.01  | 0.03   | 0.69     |
|                  | 09/10/96      | <sup>b</sup> 3,040 | 333      | 1,490   | 0.98                                        | 488                | 19        | 154       | 182                | 99                                       | < 0.05        | 0.01    | < 0.005 | < 0.01   | < 0.01  | NA     | 0.004   | NA        | < 0.0002 | < 0.01   | < 0.01  | < 0.01 | NA       |
|                  | 07/25/97      | <sup>b</sup> 3,420 | 344      | 1,650   | 1                                           | 778                | 5         | 217       | 236                | 112                                      | < 0.01        | < 0.01  | < 0.005 | < 0.01   | < 0.01  | 0.32   | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.01   | NA       |
|                  | 10/31/97      | <sup>b</sup> 3,090 | 300      | 1,620   | 1.2                                         | 550 <sup>(d)</sup> | 3.1       | 170       | 170 <sup>(d)</sup> | 106                                      | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03  | < 0.01    | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/26/98      | <sup>c</sup> 2,650 | 335      | 1,500   | 1.0                                         | 517                | 4         | 151       | 152                | 96                                       | < 0.1         | 0.007   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | < 0.005   | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/26/98      | <sup>b</sup> 2,600 | 340      | 1,900   | 1.1                                         | NA                 | NA        | NA        | NA                 | 102                                      | < 0.005       | < 0.005 | < 0.005 | < 0.01   | < 0.01  | 0.04   | < 0.05  | < 0.005   | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 08/11/98      | <sup>b</sup> 2,900 | 305      | 1,500   | 1.0                                         | 425                | 3         | 124       | 126                | 98                                       | < 0.005       | 0.006   | < 0.005 | < 0.01   | < 0.01  | 0.18   | < 0.005 | < 0.005   | < 0.0002 | < 0.005  | < 0.01  | 0.02   | NA       |
|                  | 12/22/98      | <sup>b</sup> 2,890 | 300      | 1,600   | 1.0                                         | 488                | 3.3       | 142       | 144                | 109                                      | < 0.004       | 0.0099  | < 0.002 | < 0.005  | < 0.002 | 0.064  | < 0.025 | 0.0097    | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/23/99      | <sup>b</sup> 2,960 | 300      | 1,600   | 1.0                                         | 476                | 3.7       | 146       | 153                | 108                                      | < 0.004       | 0.0106  | < 0.002 | < 0.005  | < 0.002 | 0.073  | < 0.025 | < 0.001   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |



**Table 5. Summary of Groundwater Analyses - Inorganics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date | Major Ions (mg/L)  |          |         |                                             |                    |           |           |                    |                                          | Metals (mg/L) |         |         |          |         |        |         |           |          |          |         |        |          |
|------------------|---------------|--------------------|----------|---------|---------------------------------------------|--------------------|-----------|-----------|--------------------|------------------------------------------|---------------|---------|---------|----------|---------|--------|---------|-----------|----------|----------|---------|--------|----------|
|                  |               | TDS                | Chloride | Sulfate | NO <sub>2</sub> /NO <sub>3</sub> - N, total | Calcium            | Potassium | Magnesium | Sodium             | Total alkalinity (as CaCO <sub>3</sub> ) | Arsenic       | Barium  | Cadmium | Chromium | Copper  | Iron   | Lead    | Manganese | Mercury  | Selenium | Silver  | Zinc   | Aluminum |
| NMWQCC Standard: |               | 1,000              | 250      | 600     | 10                                          | none               | none      | none      | none               | none                                     | 0.1           | 1.0     | 0.01    | 0.05     | 1.0     | 1.0    | 0.05    | 0.20      | 0.002    | 0.05     | 0.05    | 10     | 5        |
| MW-7             | 08/23/95      | <sup>b</sup> 3,640 | 284      | 2,000   | 0.12                                        | 668                | 8.2       | 235       | 149                | 136                                      | < 0.05        | 0.02    | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.05  | NA        | 0.0004   | < 0.1    | < 0.01  | 0.02   | 1.39     |
|                  | 09/17/96      | <sup>b</sup> 3,760 | 273      | 2,140   | 0.07                                        | 648                | 20        | 198       | 145                | 110                                      | < 0.05        | 0.02    | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.02   | NA       |
|                  | 07/31/97      | <sup>b</sup> 3,700 | 313      | 1,930   | < 0.05                                      | 191                | < 20      | 84.3      | 95                 | 112                                      | < 0.05        | < 0.05  | < 0.02  | < 0.05   | < 0.05  | 0.3    | < 0.02  | NA        | < 0.0002 | < 0.05   | < 0.05  | < 0.05 | NA       |
|                  | 11/03/97      | <sup>b</sup> 3,580 | 250      | 1,810   | < 0.05                                      | 790 <sup>(d)</sup> | 6.4       | 260       | 180 <sup>(d)</sup> | 112                                      | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | 1.2    | < 0.03  | 1.2       | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/29/98      | <sup>c</sup> 2,730 | 288      | 1,800   | < 0.1                                       | 630                | 7         | 206       | 140                | 86                                       | < 0.1         | 0.014   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | 0.120     | < 0.0002 | < 0.1    | < 0.01  | 0.03   | NA       |
|                  | 05/28/98      | <sup>b</sup> 3,000 | 290      | 2,400   | < 0.1                                       | NA                 | NA        | NA        | NA                 | 114                                      | < 0.005       | 0.011   | < 0.005 | < 0.01   | < 0.01  | 0.44   | < 0.05  | 0.490     | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/14/98      | <sup>b</sup> 3,800 | 301      | 2,300   | < 0.1                                       | 572                | 8         | 180       | 130                | 108                                      | < 0.005       | 0.012   | < 0.005 | < 0.01   | < 0.01  | 0.30   | < 0.005 | 0.428     | < 0.0002 | < 0.005  | < 0.01  | 0.09   | NA       |
|                  | 12/27/98      | <sup>b</sup> 3,440 | 260      | 2,000   | 0.01                                        | 556                | 6.65      | 0.176     | 141                | 120                                      | < 0.004       | 0.0171  | < 0.002 | < 0.005  | < 0.002 | 0.126  | < 0.025 | 0.362     | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/25/99      | <sup>b</sup> 3,470 | 250      | 2,000   | 0.02                                        | 232                | 5.28      | 158       | 110                | 116                                      | < 0.004       | 0.0130  | < 0.002 | < 0.005  | < 0.002 | < 0.01 | < 0.025 | 0.0285    | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/28/00      | <sup>b</sup> 3,550 | 300      | 2,200   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 0.225  | NA      | 0.0274    | NA       | NA       | NA      | NA     | NA       |
|                  | 03/28/01      | <sup>b</sup> 4,180 | 304      | 1,700   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 0.115  | NA      | 0.0209    | NA       | NA       | NA      | NA     | NA       |
|                  | 07/01/02      | <sup>b</sup> 3,600 | 250      | 1,500   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 0.18   | NA      | 0.040     | NA       | NA       | NA      | NA     | NA       |
| MW-8             | 08/22/95      | <sup>b</sup> 3,640 | 362      | 2,000   | 0.1                                         | 587                | 3.7       | 193       | 117                | 134                                      | < 0.05        | < 0.01  | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.05  | NA        | 0.0003   | < 0.1    | < 0.01  | 0.01   | 0.33     |
|                  | 09/19/96      | <sup>b</sup> 3,780 | 331      | 2,120   | 0.06                                        | 630                | 21        | 222       | 206                | 141                                      | < 0.05        | 0.01    | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | < 0.01 | NA       |
|                  | 08/01/97      | <sup>b</sup> 3,890 | 339      | 1,980   | 0.16                                        | 86.5               | < 20      | 51.5      | 80                 | 140                                      | < 0.05        | < 0.05  | < 0.02  | < 0.05   | < 0.05  | < 0.2  | < 0.02  | NA        | < 0.0002 | < 0.05   | < 0.05  | < 0.05 | NA       |
|                  | 11/02/97      | <sup>b</sup> 3,740 | 320      | 1,810   | 0.10                                        | 610 <sup>(d)</sup> | 3.4       | 210       | 180 <sup>(d)</sup> | 136                                      | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03  | < 0.01    | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/29/98      | <sup>c</sup> 2,960 | 347      | 1,900   | 0.1                                         | 634                | 3         | 219       | 168                | 96                                       | < 0.1         | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | < 0.005   | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/27/98      | <sup>b</sup> 2,800 | 370      | 2,500   | 0.2                                         | NA                 | NA        | NA        | NA                 | 131                                      | < 0.005       | < 0.005 | < 0.005 | < 0.01   | < 0.01  | 0.03   | < 0.05  | < 0.005   | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/14/98      | <sup>b</sup> 3,800 | 355      | 2,100   | < 0.1                                       | 604                | 4         | 188       | 135                | 204                                      | < 0.005       | 0.006   | < 0.005 | < 0.01   | < 0.01  | 0.11   | < 0.005 | 0.009     | < 0.0002 | < 0.005  | < 0.01  | 0.39   | NA       |
|                  | 12/27/98      | <sup>b</sup> 3,650 | 350      | 2,100   | 0.21                                        | 554                | 3.7       | 191       | 184                | 137                                      | < 0.004       | 0.0108  | < 0.002 | < 0.005  | < 0.002 | 0.065  | < 0.025 | 0.0028    | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/25/99      | <sup>b</sup> 3,670 | 350      | 2,000   | 0.21                                        | 541                | 3.6       | 200       | 169                | 136                                      | < 0.004       | 0.0103  | < 0.002 | < 0.005  | < 0.002 | < 0.01 | < 0.025 | < 0.001   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
| MW-9             | 08/23/95      | <sup>b</sup> 4,060 | 391      | 2,200   | 0.38                                        | 896                | 17        | 232       | 230                | 124                                      | < 0.05        | 0.04    | < 0.005 | < 0.01   | 0.01    | NA     | < 0.05  | NA        | 0.0005   | < 0.1    | < 0.01  | 0.03   | 3.13     |
|                  | 09/19/96      | <sup>b</sup> 3,810 | 439      | 1,990   | 0.56                                        | 673                | 24        | 210       | 287                | 114                                      | < 0.05        | 0.05    | < 0.005 | 0.01     | < 0.01  | NA     | 0.004   | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.02   | NA       |
|                  | 07/31/97      | <sup>b</sup> 4,270 | 487      | 2,040   | 0.55                                        | 557                | < 20      | 174       | 362                | 126                                      | < 0.05        | < 0.05  | < 0.02  | < 0.05   | < 0.05  | 0.4    | < 0.02  | NA        | < 0.0002 | < 0.05   | < 0.05  | < 0.05 | NA       |
|                  | 11/02/97      | <sup>b</sup> 4,000 | 440      | 1,930   | 0.36                                        | 610 <sup>(d)</sup> | 5.5       | 190       | 270 <sup>(d)</sup> | 124                                      | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | 1.4    | < 0.03  | 0.11      | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/29/98      | <sup>c</sup> 3,730 | 459      | 1,800   | 0.6                                         | 639                | 5         | 193       | 248                | 80                                       | < 0.1         | 0.008   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | 0.030     | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/28/98      | <sup>b</sup> 3,200 | 470      | 2,500   | 0.9                                         | NA                 | NA        | NA        | NA                 | 112                                      | < 0.005       | 0.013   | < 0.005 | < 0.01   | < 0.01  | 0.86   | < 0.05  | 0.070     | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/14/98      | <sup>b</sup> 4,200 | 479      | 2,000   | 1.1                                         | 554                | 6         | 174       | 240                | 105                                      | 0.007         | 0.015   | < 0.005 | < 0.01   | < 0.01  | 0.91   | < 0.005 | 0.046     | < 0.0002 | < 0.005  | < 0.01  | 0.03   | NA       |
|                  | 08/14/98      | <sup>c</sup> NA    | NA       | NA      | NA                                          | 619                | 5         | 206       | 261                | NA                                       | < 0.005       | 0.007   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | 0.031     | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 12/27/98      | <sup>c</sup> 3,800 | 470      | 2,100   | 0.93                                        | 532                | 4.51      | 163       | 226                | 121                                      | < 0.004       | 0.0158  | < 0.002 | < 0.005  | < 0.002 | < 0.01 | < 0.025 | 0.0088    | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/24/99      | <sup>b</sup> 3,910 | 450      | 2,100   | 0.79                                        | 532                | 5.13      | 181       | 245                | 119                                      | < 0.004       | 0.0164  | < 0.002 | < 0.005  | < 0.002 | 0.502  | < 0.025 | 0.0326    | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |

**Table 5. Summary of Groundwater Analyses - Inorganics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date      | Major Ions (mg/L)  |                    |                    |                                             |                    |           |           |                    |                                          | Metals (mg/L) |         |         |          |         |        |            |              |          |          |         |        |          |
|------------------|--------------------|--------------------|--------------------|--------------------|---------------------------------------------|--------------------|-----------|-----------|--------------------|------------------------------------------|---------------|---------|---------|----------|---------|--------|------------|--------------|----------|----------|---------|--------|----------|
|                  |                    | TDS                | Chloride           | Sulfate            | NO <sub>2</sub> /NO <sub>3</sub> - N, total | Calcium            | Potassium | Magnesium | Sodium             | Total alkalinity (as CaCO <sub>3</sub> ) | Arsenic       | Barium  | Cadmium | Chromium | Copper  | Iron   | Lead       | Manganese    | Mercury  | Selenium | Silver  | Zinc   | Aluminum |
|                  |                    |                    |                    |                    |                                             |                    |           |           |                    |                                          |               |         |         |          |         |        |            |              |          |          |         |        |          |
| NMWQCC Standard: |                    | 1,000              | 250                | 600                | 10                                          | none               | none      | none      | none               | none                                     | 0.1           | 1.0     | 0.01    | 0.05     | 1.0     | 1.0    | 0.05       | 0.20         | 0.002    | 0.05     | 0.05    | 10     | 5        |
| MW-10            | 09/19/96           | <sup>b</sup> 3,390 | <sup>b</sup> 367   | <sup>b</sup> 3,360 | 0.75                                        | 634                | 6         | 153       | 179                | 133                                      | < 0.05        | < 0.01  | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.003    | NA           | < 0.0002 | < 0.01   | < 0.01  | 0.02   | NA       |
|                  | 07/31/97           | <sup>b</sup> 3,550 | <sup>b</sup> 364   | <sup>b</sup> 1,590 | 0.71                                        | 211                | < 20      | 62.3      | 146                | 138                                      | < 0.05        | < 0.05  | < 0.02  | < 0.05   | < 0.05  | < 0.02 | < 0.02     | NA           | < 0.0002 | < 0.05   | < 0.05  | < 0.05 | NA       |
|                  | 11/01/97           | <sup>b</sup> 3,520 | <sup>b</sup> 340   | <sup>b</sup> 1,890 | 0.74                                        | 600 <sup>(d)</sup> | 3.5       | 146       | 225 <sup>(d)</sup> | 128                                      | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03     | < 0.01       | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/27/98           | <sup>c</sup> 2,910 | <sup>c</sup> 350   | <sup>c</sup> 1,700 | 0.7                                         | 607                | 4         | 138       | 197                | 120                                      | < 0.1         | 0.005   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05     | < 0.005      | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/26/98           | <sup>b</sup> 3,000 | <sup>b</sup> 370   | <sup>b</sup> 2,200 | 0.8                                         | NA                 | NA        | NA        | NA                 | 122                                      | < 0.005       | 0.006   | < 0.005 | < 0.01   | < 0.01  | 0.03   | < 0.05     | < 0.005      | < 0.0002 | < 0.005  | < 0.01  | 0.20   | NA       |
|                  | 08/13/98           | <sup>b</sup> 3,300 | <sup>b</sup> 372   | <sup>b</sup> 1,900 | 0.7                                         | 563                | 5         | 130       | 201                | 121                                      | 0.007         | 0.007   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.005    | < 0.005      | < 0.0002 | < 0.005  | < 0.01  | 0.04   | NA       |
|                  | 12/22/98           | <sup>b</sup> 3,390 | <sup>b</sup> 350   | <sup>b</sup> 1,900 | 0.68                                        | 584                | 3.3       | 133       | 203                | 127                                      | < 0.004       | 0.0107  | < 0.002 | < 0.005  | < 0.002 | 0.034  | < 0.025    | < 0.005      | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/23/99           | <sup>b</sup> 3,390 | <sup>b</sup> 340   | <sup>b</sup> 1,800 | 0.68                                        | 569                | 3.8       | 134       | 211                | 127                                      | < 0.004       | 0.0104  | < 0.002 | < 0.005  | < 0.002 | 0.011  | < 0.025    | < 0.001      | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/27/00           | <sup>b</sup> 3,440 | <sup>b</sup> 390   | <sup>b</sup> 2,000 | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA         | NA           | NA       | NA       | NA      | NA     | NA       |
|                  | 03/29/01           | <sup>b</sup> 4,000 | <sup>b</sup> 379   | <sup>b</sup> 1,560 | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA         | NA           | NA       | NA       | NA      | NA     | NA       |
| 07/03/02         | <sup>b</sup> 3,400 | <sup>b</sup> 310   | <sup>b</sup> 1,800 | NA                 | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA         | NA           | NA       | NA       | NA      | NA     |          |
| MW-11            | 09/19/96           | <sup>b</sup> 3,480 | <sup>b</sup> 400   | <sup>b</sup> 2,480 | 0.71                                        | 642                | < 5       | 144       | 202                | 116                                      | < 0.05        | < 0.01  | < 0.005 | < 0.01   | < 0.01  | NA     | 0.004      | NA           | < 0.0002 | < 0.01   | < 0.01  | 0.04   | NA       |
|                  | 07/30/97           | <sup>b</sup> 3,550 | <sup>b</sup> 405   | <sup>b</sup> 1,680 | 0.7                                         | 748                | 8         | 132       | 545                | 106                                      | < 0.01        | < 0.01  | < 0.005 | < 0.01   | < 0.01  | 0.07   | < 0.003    | NA           | < 0.0002 | < 0.01   | < 0.01  | 0.01   | NA       |
|                  | 11/01/97           | <sup>b</sup> 3,530 | <sup>b</sup> 370   | <sup>b</sup> 1,900 | 0.67                                        | 630 <sup>(d)</sup> | 2.6       | 140       | 360 <sup>(d)</sup> | 96                                       | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03     | < 0.01       | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/27/98           | <sup>c</sup> 2,940 | <sup>c</sup> 374   | <sup>c</sup> 1,600 | 0.7                                         | 612                | 3         | 133       | 231                | 100                                      | < 0.1         | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05     | < 0.005      | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/26/98           | <sup>b</sup> 3,000 | <sup>b</sup> 400   | <sup>b</sup> 2,100 | 0.7                                         | NA                 | NA        | NA        | NA                 | 103                                      | < 0.005       | < 0.005 | < 0.005 | < 0.01   | < 0.01  | 0.17   | < 0.05     | < 0.005      | < 0.0002 | < 0.005  | < 0.01  | 0.21   | NA       |
|                  | 08/13/98           | <sup>b</sup> 3,300 | <sup>b</sup> 390   | <sup>b</sup> 1,900 | 0.6                                         | 585                | 4         | 121       | 229                | 102                                      | 0.006         | 0.007   | < 0.005 | < 0.01   | < 0.01  | 0.14   | < 0.005    | 0.012        | < 0.0002 | < 0.005  | < 0.01  | 0.06   | NA       |
|                  | 12/22/98           | <sup>b</sup> 3,780 | <sup>b</sup> 300   | <sup>b</sup> 1,500 | 1.1                                         | 468                | 3         | 98.3      | 183                | 110                                      | < 0.004       | 0.0138  | < 0.002 | < 0.005  | < 0.002 | 0.047  | < 0.025    | < 0.005      | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/24/99           | <sup>b</sup> 2,480 | <sup>b</sup> 250   | <sup>b</sup> 1,200 | 1.1                                         | 403                | 3.4       | 88.1      | 172                | 106                                      | < 0.004       | 0.0160  | < 0.002 | < 0.005  | < 0.002 | 0.137  | < 0.025    | 0.0021       | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/27/00           | <sup>b</sup> 3,100 | <sup>b</sup> 380   | <sup>b</sup> 1,900 | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA         | NA           | NA       | NA       | NA      | NA     | NA       |
|                  | 03/27/01           | <sup>b</sup> 3,730 | <sup>b</sup> 406   | <sup>b</sup> 1,480 | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA         | NA           | NA       | NA       | NA      | NA     | NA       |
| 07/03/02         | <sup>b</sup> 3,300 | <sup>b</sup> 330   | <sup>b</sup> 1,700 | NA                 | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA         | NA           | NA       | NA       | NA      | NA     |          |
| MW-12            | 09/17/96           | <sup>b</sup> 3,670 | <sup>b</sup> 431   | <sup>b</sup> 1,810 | 0.36                                        | 688                | 16        | 127       | 247                | 110                                      | < 0.05        | 0.02    | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.003    | NA           | < 0.0002 | < 0.01   | < 0.01  | 0.01   | NA       |
|                  | 08/06/97           | <sup>b</sup> 3,670 | <sup>b</sup> 435   | <sup>b</sup> 1,640 | 0.41                                        | 605                | < 5       | 123       | 236                | 106                                      | < 0.01        | 0.01    | < 0.005 | < 0.01   | < 0.01  | 0.52   | < 0.003    | NA           | < 0.0002 | < 0.01   | < 0.01  | < 0.01 | NA       |
|                  | 11/04/97           | <sup>b</sup> 3,340 | <sup>b</sup> 390   | <sup>b</sup> 1,630 | 0.40                                        | 880 <sup>(d)</sup> | 2.6       | 180       | 330 <sup>(d)</sup> | 102                                      | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03     | <b>0.31</b>  | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/30/98           | <sup>c</sup> 2,680 | <sup>c</sup> 421   | <sup>c</sup> 1,600 | 0.3                                         | 625                | 2         | 120       | 209                | 74                                       | < 0.1         | < 0.005 | < 0.005 | < 0.01   | < 0.01  | 0.05   | < 0.05     | <b>0.444</b> | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/28/98           | <sup>b</sup> 3,100 | <sup>b</sup> 440   | <sup>b</sup> 2,100 | 0.3                                         | NA                 | NA        | NA        | NA                 | 99                                       | < 0.005       | < 0.005 | < 0.005 | < 0.01   | < 0.01  | 0.12   | < 0.05     | <b>0.688</b> | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/15/98           | <sup>b</sup> 3,200 | <sup>b</sup> 408   | <sup>b</sup> 2,000 | 0.4                                         | 616                | 3         | 118       | 194                | 111                                      | 0.005         | 0.005   | < 0.005 | < 0.01   | < 0.01  | 0.13   | < 0.005    | <b>0.678</b> | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 12/28/98           | <sup>b</sup> 3,210 | <sup>b</sup> 420   | <sup>b</sup> 1,700 | 0.28                                        | 551                | 3.0       | 108       | 231                | 107                                      | < 0.004       | 0.0083  | < 0.002 | < 0.005  | < 0.002 | 0.114  | < 0.025    | <b>0.667</b> | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/26/99           | <sup>b</sup> 3,330 | <sup>b</sup> 410   | <sup>b</sup> 1,700 | 0.37                                        | 533                | 3.2       | 113       | 210                | 104                                      | < 0.004       | 0.0084  | < 0.002 | < 0.005  | < 0.002 | 0.103  | < 0.025    | <b>0.759</b> | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/29/00           | <sup>b</sup> 3,460 | <sup>b</sup> 460   | <sup>b</sup> 1,900 | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 0.158  | NA         | <b>1.18</b>  | NA       | NA       | NA      | NA     | NA       |
|                  | 03/29/01           | <sup>b</sup> 3,850 | <sup>b</sup> 485   | <sup>b</sup> 1,580 | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 0.158  | NA         | <b>1.38</b>  | NA       | NA       | NA      | NA     | NA       |
| 07/01/02         | <sup>b</sup> 3,300 | <sup>b</sup> 370   | <sup>b</sup> 1,300 | NA                 | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | 0.25    | NA     | <b>1.8</b> | NA           | NA       | NA       | NA      | NA     |          |

**Table 5. Summary of Groundwater Analyses - Inorganics  
Compressor Station No. 9 - Roswell, NM**

| Well                  | Sampling Date         | Major Ions (mg/L) |          |         |                                             |                    |           |           |                    |                                          | Metals (mg/L) |        |         |          |         |        |         |           |          |          |         |        |          |
|-----------------------|-----------------------|-------------------|----------|---------|---------------------------------------------|--------------------|-----------|-----------|--------------------|------------------------------------------|---------------|--------|---------|----------|---------|--------|---------|-----------|----------|----------|---------|--------|----------|
|                       |                       | TDS               | Chloride | Sulfate | NO <sub>2</sub> /NO <sub>3</sub> - N, total | Calcium            | Potassium | Magnesium | Sodium             | Total alkalinity (as CaCO <sub>3</sub> ) | Arsenic       | Barium | Cadmium | Chromium | Copper  | Iron   | Lead    | Manganese | Mercury  | Selenium | Silver  | Zinc   | Aluminum |
| NMWQCC Standard:      |                       | 1,000             | 250      | 600     | 10                                          | none               | none      | none      | none               | none                                     | 0.1           | 1.0    | 0.01    | 0.05     | 1.0     | 1.0    | 0.05    | 0.20      | 0.002    | 0.05     | 0.05    | 10     | 5        |
| MW-13                 | 09/19/96 <sup>b</sup> | 2,810             | 438      | 2,910   | 0.13                                        | 496                | 5         | 123       | 136                | 136                                      | < 0.05        | < 0.01 | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.01   | NA       |
|                       | 08/09/97 <sup>b</sup> | 3,640             | 518      | 1,460   | 0.06                                        | 484                | 18        | 144       | 212                | 142                                      | 0.02          | 0.02   | < 0.005 | < 0.01   | < 0.01  | 0.81   | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.02   | NA       |
|                       | 11/04/97 <sup>b</sup> | 3,760             | 460      | 1,720   | < 0.05                                      | 680 <sup>(d)</sup> | 3.0       | 150       | 200 <sup>(d)</sup> | 152                                      | < 0.03        | < 0.01 | < 0.01  | < 0.01   | < 0.01  | 0.67   | < 0.03  | 2.4       | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                       | 01/30/98 <sup>c</sup> | 2,970             | 490      | 1,500   | < 0.1                                       | 707                | 3         | 143       | 174                | 113                                      | < 0.1         | 0.009  | < 0.005 | < 0.01   | < 0.01  | 0.86   | < 0.05  | 1.50      | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                       | 05/28/98 <sup>b</sup> | 2,900             | 530      | 2,100   | < 0.1                                       | NA                 | NA        | NA        | NA                 | 149                                      | < 0.005       | 0.008  | < 0.005 | < 0.01   | < 0.01  | 1.41   | < 0.05  | 1.37      | 0.0033   | < 0.005  | < 0.01  | < 0.02 | NA       |
|                       | 08/15/98 <sup>b</sup> | 3,700             | 461      | 1,700   | < 0.1                                       | 664                | 5         | 134       | 155                | 163                                      | 0.007         | 0.009  | < 0.005 | < 0.01   | < 0.01  | 1.36   | < 0.005 | 1.07      | < 0.0002 | < 0.005  | < 0.01  | 0.06   | NA       |
|                       | 12/27/98 <sup>b</sup> | 3,160             | 470      | 1,600   | 0.03                                        | 577                | 3.2       | 121       | 185                | 192                                      | < 0.004       | 0.0150 | < 0.002 | < 0.005  | < 0.002 | 1.56   | < 0.025 | 1.95      | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                       | 03/26/99 <sup>b</sup> | 3,110             | 430      | 1,500   | < 0.01                                      | 550                | 3.4       | 128       | 170                | 193                                      | < 0.004       | 0.0140 | < 0.002 | < 0.005  | < 0.002 | 1.46   | < 0.025 | 1.84      | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                       | 03/29/00 <sup>b</sup> | 3,510             | 550      | 1,900   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA     | NA      | NA       | NA      | 0.908  | NA      | 1.75      | NA       | NA       | NA      | NA     | NA       |
|                       | 03/29/01 <sup>b</sup> | 4,090             | 593      | 1,330   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA     | NA      | NA       | NA      | 0.395  | NA      | 2.14      | NA       | NA       | NA      | NA     | NA       |
| 07/01/02 <sup>b</sup> | 3,400                 | 390               | 1,300    | NA      | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA     | NA      | NA       | 0.21    | NA     | 1.6     | NA        | NA       | NA       | NA      | NA     |          |
| MW-14                 | 09/24/96 <sup>b</sup> | 3,580             | 364      | 2,000   | 0.31                                        | 668                | 6         | 154       | 149                | 98                                       | < 0.05        | 0.03   | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | < 0.01 | NA       |
|                       | 08/01/97 <sup>b</sup> | 3,710             | 360      | 1,630   | 0.32                                        | 672                | < 20      | 155       | 180                | 110                                      | < 0.05        | < 0.05 | < 0.02  | < 0.05   | < 0.05  | < 0.02 | < 0.02  | NA        | < 0.0002 | < 0.05   | < 0.05  | < 0.05 | NA       |
|                       | 11/02/97 <sup>b</sup> | 3,500             | 360      | 1,600   | 0.13                                        | 780 <sup>(d)</sup> | 4.1       | 190       | 220 <sup>(d)</sup> | 112                                      | < 0.03        | < 0.01 | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03  | 0.06      | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                       | 01/29/98 <sup>c</sup> | 2,890             | 368      | 1,700   | 0.2                                         | 664                | 5         | 157       | 169                | 82                                       | < 0.1         | 0.012  | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | 0.013     | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                       | 05/27/98 <sup>b</sup> | 2,700             | 380      | 2,200   | 0.3                                         | NA                 | NA        | NA        | NA                 | 112                                      | < 0.005       | 0.009  | < 0.005 | < 0.01   | < 0.01  | 0.05   | < 0.05  | 0.007     | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                       | 08/11/98 <sup>b</sup> | 3,300             | 360      | 1,800   | 0.2                                         | 608                | 5         | 144       | 161                | 122                                      | < 0.005       | 0.009  | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.005 | < 0.005   | < 0.0002 | < 0.005  | < 0.01  | 0.03   | NA       |
|                       | 12/23/98 <sup>b</sup> | 3,380             | 360      | 1,900   | 0.26                                        | 609                | 4.00      | 144       | 165                | 114                                      | < 0.004       | 0.0125 | < 0.002 | < 0.005  | < 0.002 | < 0.01 | < 0.025 | < 0.005   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                       | 03/25/99 <sup>b</sup> | 3,480             | 350      | 1,900   | 0.25                                        | 567                | 4.04      | 143       | 167                | 114                                      | < 0.004       | 0.0126 | < 0.002 | < 0.005  | < 0.002 | 0.011  | < 0.025 | < 0.001   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                       | 03/28/00              | 3,450             | 380      | 2,000   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA     | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     | NA       |
|                       | 03/28/01              | 4,050             | 391      | 1,610   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA     | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     | NA       |
| 07/03/02              | 3,300                 | 320               | 1,800    | NA      | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA     | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     |          |

**Table 5. Summary of Groundwater Analyses - Inorganics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date | Major Ions (mg/L)  |          |         |                                             |                    |           |           |                    |                                          | Metals (mg/L) |         |         |          |         |        |         |           |          |          |         |        |          |
|------------------|---------------|--------------------|----------|---------|---------------------------------------------|--------------------|-----------|-----------|--------------------|------------------------------------------|---------------|---------|---------|----------|---------|--------|---------|-----------|----------|----------|---------|--------|----------|
|                  |               | TDS                | Chloride | Sulfate | NO <sub>2</sub> /NO <sub>3</sub> - N, total | Calcium            | Potassium | Magnesium | Sodium             | Total alkalinity (as CaCO <sub>3</sub> ) | Arsenic       | Barium  | Cadmium | Chromium | Copper  | Iron   | Lead    | Manganese | Mercury  | Selenium | Silver  | Zinc   | Aluminum |
|                  |               |                    |          |         |                                             |                    |           |           |                    |                                          |               |         |         |          |         |        |         |           |          |          |         |        |          |
| NMWQCC Standard: |               | 1,000              | 250      | 600     | 10                                          | none               | none      | none      | none               | none                                     | 0.1           | 1.0     | 0.01    | 0.05     | 1.0     | 1.0    | 0.05    | 0.20      | 0.002    | 0.05     | 0.05    | 10     | 5        |
| MW-15            | 09/25/96      | <sup>b</sup> 3,860 | 438      | 3,940   | 0.58                                        | 1,130              | 7         | 180       | 210                | 138                                      | < 0.05        | 0.03    | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.08   | NA       |
|                  | 08/08/97      | <sup>b</sup> 3,820 | 467      | 1,920   | 0.35                                        | 625                | < 5       | 171       | 269                | 118                                      | 0.02          | 0.02    | < 0.005 | < 0.01   | < 0.01  | 0.32   | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.01   | NA       |
|                  | 11/02/97      | <sup>b</sup> 3,820 | 450      | 1,900   | 0.43                                        | 750 <sup>(d)</sup> | 3.8       | 210       | 330 <sup>(d)</sup> | 114                                      | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03  | 0.01      | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/28/98      | <sup>c</sup> 2,970 | 453      | 1,800   | 0.4                                         | 638                | 4         | 174       | 259                | 82                                       | < 0.1         | 0.010   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | 0.015     | < 0.0002 | < 0.1    | < 0.01  | 0.04   | NA       |
|                  | 05/27/98      | <sup>b</sup> 2,900 | 500      | 2,300   | 0.5                                         | NA                 | NA        | NA        | NA                 | 110                                      | < 0.005       | 0.009   | < 0.005 | < 0.01   | < 0.01  | 0.04   | < 0.05  | 0.006     | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/13/98      | <sup>b</sup> 3,900 | 479      | 2,200   | 0.6                                         | 586                | 4         | 162       | 262                | 106                                      | 0.006         | 0.012   | < 0.005 | < 0.01   | < 0.01  | 0.03   | < 0.005 | 0.012     | < 0.0002 | < 0.005  | < 0.01  | 0.20   | NA       |
|                  | 12/24/98      | <sup>b</sup> 3,630 | 440      | 2,000   | 0.48                                        | 592                | 4.00      | 150       | 281                | 111                                      | < 0.004       | 0.0133  | < 0.002 | < 0.005  | < 0.002 | 0.013  | < 0.025 | 0.0191    | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/24/99      | <sup>b</sup> 3,720 | 440      | 1,900   | 0.50                                        | 578                | 4.57      | 162       | 262                | 111                                      | < 0.004       | 0.0117  | < 0.002 | < 0.005  | < 0.002 | 0.019  | < 0.025 | 0.0130    | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/28/00      | 3,720              | 480      | 2,100   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     | NA       |
|                  | 03/28/01      | 4,290              | 509      | 1,690   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     | NA       |
| 07/03/02         | 3,700         | 400                | 1,900    | NA      | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     |          |
| MW-17            | 09/24/96      | <sup>b</sup> 3,660 | 437      | 2,000   | 0.71                                        | 626                | < 5       | 170       | 218                | 138                                      | < 0.05        | < 0.01  | < 0.005 | < 0.01   | < 0.01  | NA     | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.01   | NA       |
|                  | 07/31/97      | <sup>b</sup> 1,570 | 445      | 1,820   | 0.71                                        | 221                | < 20      | 71.1      | 175                | 96                                       | < 0.05        | < 0.05  | < 0.02  | < 0.05   | < 0.05  | < 0.2  | < 0.02  | NA        | < 0.0002 | < 0.05   | < 0.05  | < 0.05 | NA       |
|                  | 11/02/97      | <sup>b</sup> 3,770 | 430      | 2,000   | 0.74                                        | 770 <sup>(d)</sup> | 2.5       | 210       | 330 <sup>(d)</sup> | 90                                       | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03  | 0.03      | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/28/98      | <sup>c</sup> 2,880 | 444      | 1,700   | 0.6                                         | 629                | 3         | 168       | 249                | 64                                       | < 0.1         | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | 0.018     | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/27/98      | <sup>b</sup> 3,000 | 470      | 1,500   | 0.6                                         | NA                 | NA        | NA        | NA                 | 89                                       | < 0.005       | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | 0.011     | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/13/98      | <sup>b</sup> 3,900 | 443      | 2,100   | 0.6                                         | 578                | 2         | 161       | 257                | 124                                      | < 0.005       | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.005 | 0.044     | < 0.0002 | < 0.005  | < 0.01  | 0.09   | NA       |
|                  | 12/24/98      | <sup>b</sup> 3,600 | 440      | 2,000   | 0.64                                        | 558                | 2.6       | 148       | 254                | 93                                       | < 0.004       | 0.0079  | < 0.002 | < 0.005  | < 0.002 | < 0.01 | < 0.025 | 0.0042    | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/25/99      | <sup>b</sup> 3,590 | 440      | 1,900   | 0.66                                        | 535                | 3.0       | 152       | 240                | 91                                       | < 0.004       | 0.0077  | < 0.002 | < 0.005  | < 0.002 | < 0.01 | < 0.025 | 0.0259    | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/28/00      | 3,690              | 470      | 2,100   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     | NA       |
|                  | 03/27/01      | 4,340              | 507      | 1,760   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     | NA       |
| 07/03/02         | 3,600         | 390                | 1,900    | NA      | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | NA     | NA      | NA        | NA       | NA       | NA      | NA     |          |
| MW-18            | 08/09/97      | <sup>b</sup> 4,240 | NA       | NA      | NA                                          | 471                | 57        | 164       | 291                | NA                                       | 0.02          | 0.02    | < 0.005 | 0.02     | < 0.01  | 1.09   | < 0.003 | NA        | < 0.002  | < 0.01   | < 0.01  | 0.03   | NA       |
|                  | 11/01/97      | <sup>b</sup> 3,850 | 390      | 2,020   | 0.69                                        | 760 <sup>(d)</sup> | 6.4       | 210       | 330 <sup>(d)</sup> | 78                                       | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03  | < 0.01    | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/28/98      | <sup>c</sup> 3,100 | 424      | 1,900   | 0.8                                         | 641                | 7         | 225       | 166                | 55                                       | < 0.1         | 0.017   | < 0.006 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | < 0.005   | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/27/98      | <sup>b</sup> 2,800 | 430      | 1,800   | 0.8                                         | NA                 | NA        | NA        | NA                 | 69                                       | < 0.005       | 0.015   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | < 0.005   | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/13/98      | <sup>b</sup> 3,900 | 479      | 2,000   | 0.7                                         | 586                | 7         | 209       | 169                | 82                                       | 0.008         | 0.015   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.005 | 0.007     | < 0.0002 | < 0.005  | < 0.01  | 0.08   | NA       |
|                  | 12/24/98      | <sup>b</sup> 3,610 | 400      | 2,100   | 0.72                                        | 559                | 5.51      | 192       | 174                | 80                                       | < 0.004       | 0.0184  | < 0.002 | 0.0052   | < 0.002 | 0.030  | < 0.025 | < 0.001   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/24/99      | <sup>b</sup> 3,700 | 400      | 2,000   | 0.66                                        | 544                | 5.77      | 203       | 163                | 84                                       | < 0.004       | 0.0177  | < 0.002 | 0.0094   | < 0.002 | < 0.01 | < 0.025 | < 0.001   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |

**Table 5. Summary of Groundwater Analyses - Inorganics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date |              | Major Ions (mg/L) |          |         |                                             |                    |           |           |                    |                                          | Metals (mg/L) |         |         |          |         |        |         |           |          |          |         |        |          |
|------------------|---------------|--------------|-------------------|----------|---------|---------------------------------------------|--------------------|-----------|-----------|--------------------|------------------------------------------|---------------|---------|---------|----------|---------|--------|---------|-----------|----------|----------|---------|--------|----------|
|                  |               |              | TDS               | Chloride | Sulfate | NO <sub>2</sub> /NO <sub>3</sub> - N, total | Calcium            | Potassium | Magnesium | Sodium             | Total alkalinity (as CaCO <sub>3</sub> ) | Arsenic       | Barium  | Cadmium | Chromium | Copper  | Iron   | Lead    | Manganese | Mercury  | Selenium | Silver  | Zinc   | Aluminum |
| NMWQCC Standard: |               |              | 1,000             | 250      | 600     | 10                                          | none               | none      | none      | none               | none                                     | 0.1           | 1.0     | 0.01    | 0.05     | 1.0     | 1.0    | 0.05    | 0.20      | 0.002    | 0.05     | 0.05    | 10     | 5        |
| MW-19            | 09/27/96      | <sup>b</sup> | 3,850             | 459      | 2,100   | 0.82                                        | 981                | 5         | 226       | 240                | 196                                      | < 0.05        | 0.01    | < 0.005 | < 0.01   | < 0.01  | NA     | 0.004   | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.04   | NA       |
|                  | 08/08/97      | <sup>b</sup> | 3,990             | 536      | 2,030   | 0.88                                        | 622                | 11        | 170       | 252                | 122                                      | 0.01          | 0.01    | < 0.005 | < 0.01   | < 0.01  | 0.08   | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | < 0.01 | NA       |
|                  | 11/01/97      | <sup>b</sup> | 3,920             | 430      | 1,880   | 0.82                                        | 710 <sup>(d)</sup> | 3.4       | 210       | 320 <sup>(d)</sup> | 100                                      | < 0.03        | < 0.01  | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03  | < 0.01    | < 0.0002 | < 0.04   | < 0.01  | 0.02   | NA       |
|                  | 01/27/98      | <sup>c</sup> | 3,330             | 469      | 1,900   | 0.9                                         | 620                | 5         | 196       | 285                | 97                                       | < 0.1         | 0.009   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | < 0.005   | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/27/98      | <sup>b</sup> | 3,400             | 480      | 1,600   | 1.0                                         | NA                 | NA        | NA        | NA                 | 96                                       | < 0.005       | < 0.005 | < 0.005 | < 0.01   | < 0.01  | 0.14   | < 0.05  | < 0.005   | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/13/98      | <sup>b</sup> | 4,000             | 443      | 2,000   | 0.8                                         | 589                | 4         | 161       | 252                | 113                                      | 0.007         | 0.009   | < 0.005 | < 0.01   | 0.01    | 0.05   | < 0.005 | < 0.005   | < 0.0002 | < 0.005  | < 0.01  | 0.08   | NA       |
|                  | 12/23/98      | <sup>b</sup> | 3,740             | 460      | 2,100   | 0.84                                        | 582                | 3.3       | 169       | 261                | 104                                      | < 0.004       | 0.0122  | < 0.002 | < 0.005  | < 0.002 | 0.030  | < 0.025 | < 0.005   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/24/99      | <sup>b</sup> | 3,810             | 450      | 2,000   | 0.84                                        | 540                | 3.7       | 169       | 268                | 105                                      | < 0.004       | 0.0122  | < 0.002 | < 0.005  | < 0.002 | 0.036  | < 0.025 | < 0.001   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
| MW-20            | 08/07/97      | <sup>b</sup> | 3,710             | 385      | 1,820   | 1.65                                        | 617                | < 5       | 135       | 239                | 200                                      | < 0.01        | 0.04    | < 0.005 | < 0.01   | 0.02    | 1.85   | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.05   | NA       |
|                  | 11/03/97      | <sup>b</sup> | 3,710             | 290      | 1,950   | 0.23                                        | 670 <sup>(d)</sup> | 2.6       | 140       | 270 <sup>(d)</sup> | 208                                      | < 0.03        | < 0.01  | < 0.01  | < 0.01   | 0.02    | 0.39   | < 0.03  | < 0.01    | < 0.0002 | < 0.04   | < 0.01  | 0.22   | NA       |
|                  | 01/30/98      | <sup>c</sup> | 3,090             | 306      | 1,700   | 2.8                                         | 680                | 3         | 137       | 238                | 155                                      | < 0.1         | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | < 0.005   | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/29/98      | <sup>b</sup> | 3,000             | 310      | 2,400   | 3.0                                         | NA                 | NA        | NA        | NA                 | 208                                      | < 0.005       | < 0.005 | < 0.005 | < 0.01   | < 0.01  | 0.03   | < 0.05  | < 0.005   | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/15/98      | <sup>b</sup> | 3,700             | 301      | 2,200   | 2.2                                         | 673                | 4         | 130       | 214                | 242                                      | 0.007         | 0.006   | < 0.005 | < 0.01   | < 0.01  | 0.26   | < 0.005 | < 0.005   | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 12/28/98      | <sup>b</sup> | 3,620             | 310      | 2,100   | 2.5                                         | 597                | 3.4       | 123       | 257                | 209                                      | < 0.004       | 0.0107  | < 0.002 | < 0.005  | < 0.002 | 0.238  | < 0.025 | 0.0012    | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/26/99      | <sup>b</sup> | 3,670             | 290      | 2,000   | 2.5                                         | 582                | 3.7       | 125       | 236                | 213                                      | < 0.004       | 0.0090  | < 0.002 | < 0.005  | < 0.002 | 0.044  | < 0.025 | < 0.001   | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/29/00      | <sup>b</sup> | 3,780             | 310      | 2,200   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | < 0.01 | NA      | < 0.001   | NA       | NA       | NA      | NA     | NA       |
|                  | 03/29/01      | <sup>b</sup> | 4,250             | 300      | 1,880   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | < 0.05 | NA      | < 0.01    | NA       | NA       | NA      | NA     | NA       |
|                  | 07/01/02      | <sup>b</sup> | 3,600             | 220      | 1,600   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 0.043  | NA      | < 0.0020  | NA       | NA       | NA      | NA     | NA       |
| MW-21            | 08/07/97      | <sup>b</sup> | 3,960             | 436      | 1,790   | 0.71                                        | 621                | < 5       | 137       | 192                | 120                                      | < 0.01        | 0.06    | < 0.005 | < 0.01   | < 0.01  | 0.54   | < 0.003 | NA        | < 0.0002 | < 0.1    | < 0.01  | 0.03   | NA       |
|                  | 11/04/97      | <sup>b</sup> | 3,700             | 410      | 1,760   | 0.36                                        | 810 <sup>(d)</sup> | 4.0       | 190       | 260 <sup>(d)</sup> | 118                                      | < 0.03        | 0.03    | < 0.01  | < 0.01   | < 0.01  | < 0.01 | < 0.03  | 0.40      | < 0.0002 | < 0.04   | < 0.01  | < 0.03 | NA       |
|                  | 01/30/98      | <sup>c</sup> | 3,020             | 440      | 1,700   | < 0.1                                       | 654                | 4         | 153       | 199                | 88                                       | < 0.1         | 0.029   | < 0.005 | < 0.01   | < 0.01  | 0.21   | < 0.05  | 0.835     | < 0.0002 | < 0.1    | < 0.01  | < 0.02 | NA       |
|                  | 05/28/98      | <sup>b</sup> | 3,000             | 450      | 2,100   | < 0.1                                       | NA                 | NA        | NA        | NA                 | 124                                      | < 0.005       | 0.026   | < 0.005 | < 0.01   | < 0.01  | 0.63   | < 0.05  | 1.51      | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 08/15/98      | <sup>b</sup> | 3,400             | 408      | 1,900   | < 0.1                                       | 647                | 3         | 144       | 196                | 146                                      | 0.006         | 0.020   | < 0.005 | < 0.01   | < 0.01  | 0.66   | < 0.005 | 1.34      | < 0.0002 | < 0.005  | < 0.01  | < 0.02 | NA       |
|                  | 12/28/98      | <sup>b</sup> | 3,390             | 430      | 1,800   | 0.03                                        | 566                | 3.3       | 134       | 209                | 138                                      | < 0.004       | 0.0245  | < 0.002 | < 0.005  | 0.0024  | 0.704  | < 0.025 | 1.47      | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/26/99      | <sup>b</sup> | 3,360             | 410      | 1,800   | < 0.01                                      | 548                | 3.4       | 138       | 192                | 139                                      | < 0.004       | 0.0225  | < 0.002 | < 0.005  | < 0.002 | 0.933  | < 0.025 | 1.32      | < 0.0002 | < 0.010  | < 0.003 | < 0.01 | NA       |
|                  | 03/29/00      | <sup>b</sup> | 3,440             | 470      | 1,900   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 1.98   | NA      | 1.52      | NA       | NA       | NA      | NA     | NA       |
|                  | 03/29/01      | <sup>b</sup> | 4,090             | 475      | 1,570   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 2.17   | NA      | 1.62      | NA       | NA       | NA      | NA     | NA       |
|                  | 07/01/02      | <sup>b</sup> | 3,400             | 390      | 1,400   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 1.5    | NA      | 1.8       | NA       | NA       | NA      | NA     | NA       |

**Table 5. Summary of Groundwater Analyses - Inorganics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date |              | Major Ions (mg/L) |          |         |                                             |                    |           |           |                    |                                          | Metals (mg/L) |         |         |          |         |        |         |           |          |          |         |         |          |
|------------------|---------------|--------------|-------------------|----------|---------|---------------------------------------------|--------------------|-----------|-----------|--------------------|------------------------------------------|---------------|---------|---------|----------|---------|--------|---------|-----------|----------|----------|---------|---------|----------|
|                  |               |              | TDS               | Chloride | Sulfate | NO <sub>2</sub> /NO <sub>3</sub> - N, total | Calcium            | Potassium | Magnesium | Sodium             | Total alkalinity (as CaCO <sub>3</sub> ) | Arsenic       | Barium  | Cadmium | Chromium | Copper  | Iron   | Lead    | Manganese | Mercury  | Selenium | Silver  | Zinc    | Aluminum |
|                  |               |              |                   |          |         |                                             |                    |           |           |                    |                                          |               |         |         |          |         |        |         |           |          |          |         |         |          |
| NMWQCC Standard: |               |              | 1,000             | 250      | 600     | 10                                          | none               | none      | none      | none               | none                                     | 0.1           | 1.0     | 0.01    | 0.05     | 1.0     | 1.0    | 0.05    | 0.20      | 0.002    | 0.05     | 0.05    | 10      | 5        |
| MW-22            | 08/07/97      | <sup>b</sup> | 3,630             | 377      | 1,780   | 0.76                                        | 727                | 6         | 143       | 233                | 302                                      | < 0.01        | 0.21    | < 0.005 | < 0.01   | 0.05    | 16.5   | 0.008   | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.08    | NA       |
|                  | 11/03/97      | <sup>b</sup> | 3,570             | 380      | 1,840   | 0.85                                        | 780 <sup>(d)</sup> | 3.6       | 160       | 290 <sup>(d)</sup> | 132                                      | < 0.03        | 0.04    | < 0.01  | < 0.01   | < 0.01  | 3.3    | < 0.03  | 0.07      | < 0.0002 | < 0.04   | < 0.01  | < 0.03  | NA       |
|                  | 01/29/98      | <sup>c</sup> | 2,690             | 394      | 1,700   | 0.9                                         | 660                | 4         | 130       | 218                | 85                                       | < 0.1         | 0.007   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | < 0.005   | < 0.0002 | < 0.1    | < 0.01  | < 0.02  | NA       |
|                  | 05/28/98      | <sup>b</sup> | 2,700             | 410      | 2,200   | 0.9                                         | NA                 | NA        | NA        | NA                 | 107                                      | < 0.005       | 0.009   | < 0.005 | < 0.01   | < 0.01  | 0.96   | < 0.05  | 0.015     | < 0.0002 | < 0.005  | < 0.01  | < 0.02  | NA       |
|                  | 08/14/98      | <sup>b</sup> | NA                | NA       | NA      | NA                                          | 573                | 3         | 109       | 206                | NA                                       | 0.006         | 0.036   | < 0.005 | < 0.01   | < 0.01  | 0.41   | < 0.005 | 0.025     | 0.0008   | < 0.005  | < 0.01  | 0.09    | NA       |
|                  | 08/14/98      | <sup>c</sup> | 3,600             | 355      | 1,800   | 0.6                                         | 642                | 2         | 129       | 236                | 125                                      | < 0.1         | < 0.005 | < 0.005 | < 0.01   | < 0.01  | 0.08   | < 0.05  | < 0.005   | < 0.0002 | < 0.1    | < 0.01  | < 0.02  | NA       |
|                  | 12/27/98      | <sup>b</sup> | 3,390             | 390      | 1,900   | 0.85                                        | 577                | 2.9       | 111       | 234                | 114                                      | < 0.004       | 0.0118  | < 0.002 | < 0.005  | < 0.002 | 0.305  | < 0.025 | 0.0068    | < 0.0002 | < 0.010  | < 0.003 | < 0.01  | NA       |
|                  | 03/25/99      | <sup>b</sup> | 3,380             | 380      | 1,800   | 0.82                                        | 556                | 3.2       | 120       | 220                | 113                                      | < 0.004       | 0.0087  | < 0.002 | < 0.005  | < 0.002 | 0.043  | < 0.025 | < 0.001   | < 0.0002 | < 0.010  | < 0.003 | < 0.01  | NA       |
|                  | 03/28/00      | <sup>b</sup> | 3,500             | 420      | 2,000   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 0.028  | NA      | < 0.001   | NA       | NA       | NA      | NA      | NA       |
|                  | 03/29/01      | <sup>b</sup> | 3,880             | 433      | 1,670   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 0.146  | NA      | < 0.01    | NA       | NA       | NA      | NA      | NA       |
|                  | 07/01/02      | <sup>b</sup> | 3,500             | 330      | 1,300   | NA                                          | NA                 | NA        | NA        | NA                 | NA                                       | NA            | NA      | NA      | NA       | NA      | 1.3    | NA      | 0.023     | NA       | NA       | NA      | NA      | NA       |
| MW-23D           | 08/06/97      | <sup>b</sup> | 3,800             | 344      | 1,980   | < 0.05                                      | 624                | 8         | 178       | 231                | 124                                      | < 0.01        | 0.02    | < 0.005 | 0.02     | < 0.01  | 0.11   | < 0.003 | NA        | < 0.0002 | < 0.01   | < 0.01  | 0.02    | NA       |
|                  | 11/05/97      | <sup>b</sup> | 3,880             | 330      | 1,900   | < 0.05                                      | 600 <sup>(d)</sup> | 3.5       | 215       | 300 <sup>(d)</sup> | 128                                      | < 0.03        | 0.02    | < 0.01  | < 0.01   | < 0.01  | 0.38   | < 0.03  | 0.11      | < 0.0002 | < 0.04   | < 0.01  | 0.07    | NA       |
|                  | 01/28/98      | <sup>c</sup> | 3,180             | 354      | 1,800   | < 0.1                                       | 612                | 7         | 183       | 246                | 88                                       | < 0.1         | 0.020   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | 0.141     | < 0.0002 | < 0.1    | < 0.01  | < 0.02  | NA       |
|                  | 05/27/98      | <sup>c</sup> | 3,000             | 350      | 1,800   | < 0.1                                       | NA                 | NA        | NA        | NA                 | 90                                       | 0.005         | 0.013   | < 0.005 | < 0.01   | < 0.01  | < 0.02 | < 0.05  | 0.094     | < 0.0002 | < 0.1    | < 0.01  | < 0.02  | NA       |
|                  | 08/11/98      | <sup>b</sup> | 3,800             | 337      | 2,200   | < 0.1                                       | 584                | 6         | 165       | 240                | 128                                      | 0.009         | 0.011   | < 0.005 | < 0.01   | 0.02    | 0.23   | < 0.005 | 0.068     | < 0.0002 | < 0.005  | < 0.01  | < 0.02  | NA       |
|                  | 12/23/98      | <sup>b</sup> | 3,650             | 330      | 2,100   | 0.03                                        | 581                | 3.6       | 177       | 240                | 127                                      | < 0.004       | 0.0144  | < 0.002 | < 0.005  | < 0.002 | 0.216  | < 0.025 | 0.0783    | < 0.0002 | < 0.010  | < 0.003 | 0.030   | NA       |
|                  | 04/05/99      | <sup>b</sup> | 3,700             | 300      | 2,000   | 0.04                                        | 551                | 3.8       | 162       | 208                | 128                                      | 0.0049        | 0.0162  | < 0.002 | < 0.005  | < 0.002 | 0.29   | < 0.025 | 0.0641    | < 0.0002 | < 0.020  | < 0.003 | < 0.01  | NA       |
| MW-24D           | 10/29/98      | <sup>c</sup> | 3,300             | 350      | 1,880   | < 0.1                                       | NA                 | NA        | NA        | NA                 | 157                                      | 0.009         | 0.015   | < 0.005 | < 0.01   | NA      | NA     | < 0.005 | NA        | < 0.0002 | < 0.005  | < 0.01  | NA      | NA       |
|                  | 10/29/98      | <sup>b</sup> | NA                | NA       | NA      | NA                                          | 622                | 5         | 99.5      | 208                | NA                                       | < 0.005       | 0.026   | < 0.005 | < 0.01   | 0.01    | 1.43   | < 0.005 | 0.220     | < 0.0002 | < 0.005  | < 0.01  | 0.05    | NA       |
|                  | 12/23/98      | <sup>c</sup> | 3,220             | 330      | 1,800   | 0.02                                        | 508                | 2.5       | 82.1      | 179                | 279                                      | < 0.004       | 0.0172  | < 0.002 | < 0.005  | 0.0065  | < 0.01 | < 0.025 | 0.176     | < 0.0002 | < 0.010  | < 0.003 | < 0.01  | NA       |
|                  | 03/30/99      | <sup>b</sup> | 3,360             | 330      | 1,800   | < 0.01                                      | 630                | 3.3       | 110       | 213                | 155                                      | < 0.002       | 0.0183  | < 0.002 | < 0.005  | < 0.002 | 0.698  | < 0.025 | 0.261     | < 0.0002 | < 0.010  | < 0.003 | < 0.01  | NA       |
| MW-25D           | 10/29/98      | <sup>c</sup> | 3,000             | 340      | 2,470   | < 0.1                                       | NA                 | NA        | NA        | NA                 | 121                                      | 0.006         | 0.007   | < 0.005 | < 0.01   | NA      | NA     | < 0.005 | NA        | < 0.0002 | < 0.005  | < 0.01  | NA      | NA       |
|                  | 10/29/98      | <sup>b</sup> | NA                | NA       | NA      | NA                                          | 596                | 4         | 162       | 161                | NA                                       | < 0.005       | 0.011   | < 0.005 | < 0.01   | < 0.01  | 0.58   | < 0.005 | 0.109     | < 0.0002 | < 0.005  | < 0.01  | 0.03    | NA       |
|                  | 12/23/98      | <sup>b</sup> | 3,450             | 320      | 2,000   | 0.01                                        | 584                | 4.00      | 168       | 160                | 122                                      | < 0.004       | 0.0133  | < 0.002 | < 0.005  | < 0.002 | 0.327  | < 0.025 | 0.108     | < 0.0002 | < 0.010  | < 0.003 | 0.011   | NA       |
|                  | 03/30/99      | <sup>b</sup> | 3,510             | 310      | 2,000   | < 0.01                                      | 589                | 4.38      | 167       | 158                | 121                                      | < 0.002       | 0.0131  | < 0.002 | < 0.005  | < 0.002 | 0.510  | < 0.025 | 0.104     | < 0.0002 | < 0.010  | < 0.003 | < 0.010 | NA       |

**Table 5. Summary of Groundwater Analyses - Inorganics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date | Major Ions (mg/L) |          |         |                                             |         |           |           |        |                                          | Metals (mg/L) |         |         |          |         |         |        |           |         |          |         |         |          |    |
|------------------|---------------|-------------------|----------|---------|---------------------------------------------|---------|-----------|-----------|--------|------------------------------------------|---------------|---------|---------|----------|---------|---------|--------|-----------|---------|----------|---------|---------|----------|----|
|                  |               | TDS               | Chloride | Sulfate | NO <sub>2</sub> /NO <sub>3</sub> - N, total | Calcium | Potassium | Magnesium | Sodium | Total alkalinity (as CaCO <sub>3</sub> ) | Arsenic       | Barium  | Cadmium | Chromium | Copper  | Iron    | Lead   | Manganese | Mercury | Selenium | Silver  | Zinc    | Aluminum |    |
|                  |               |                   |          |         |                                             |         |           |           |        |                                          |               |         |         |          |         |         |        |           |         |          |         |         |          |    |
| NMWQCC Standard: |               | 1,000             | 250      | 600     | 10                                          | none    | none      | none      | none   | none                                     | 0.1           | 1.0     | 0.01    | 0.05     | 1.0     | 1.0     | 0.05   | 0.20      | 0.002   | 0.05     | 0.05    | 10      | 5        |    |
| MW-26            | 10/29/98      | <sup>c</sup>      | 3,500    | 320     | 2,080                                       | 5.1     | NA        | NA        | NA     | NA                                       | 134           | < 0.005 | 0.009   | < 0.005  | < 0.01  | NA      | NA     | < 0.005   | NA      | < 0.0002 | 0.007   | < 0.01  | NA       | NA |
|                  | 10/29/98      | <sup>b</sup>      | NA       | NA      | NA                                          | NA      | 650       | 5         | 132    | 215                                      | NA            | < 0.005 | 0.016   | < 0.005  | < 0.01  | < 0.01  | 0.82   | < 0.005   | 0.082   | < 0.0002 | < 0.005 | < 0.01  | < 0.02   | NA |
|                  | 12/27/98      | <sup>b</sup>      | 3,780    | 300     | 2,200                                       | 4.4     | 607       | 4.06      | 128    | 237                                      | 159           | < 0.004 | 0.0213  | < 0.002  | < 0.005 | < 0.002 | 1.13   | < 0.025   | 0.0347  | < 0.0002 | < 0.010 | < 0.003 | < 0.01   | NA |
|                  | 03/25/99      | <sup>b</sup>      | 3,770    | 290     | 2,100                                       | 4.6     | 578       | 4.22      | 135    | 213                                      | 130           | < 0.004 | 0.0137  | < 0.002  | < 0.005 | < 0.002 | 0.394  | < 0.025   | 0.0165  | < 0.0002 | < 0.010 | < 0.003 | < 0.01   | NA |
|                  | 07/25/99      | <sup>b</sup>      | 3,800    | 280     | 2,100                                       | 4.7     | 642       | 4.73      | 134    | 221                                      | 150           | < 0.010 | 0.0322  | < 0.002  | < 0.005 | < 0.002 | 2.55   | < 0.025   | 0.0464  | < 0.0002 | < 0.010 | < 0.003 | 0.013    | NA |
|                  | 03/28/00      | <sup>b</sup>      | 3,810    | 330     | 2,300                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 0.558  | NA        | 0.0104  | NA       | NA      | NA      | NA       | NA |
|                  | 03/28/01      | <sup>b</sup>      | 4,180    | 344     | 1,840                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 0.342  | NA        | < 0.01  | NA       | NA      | NA      | NA       | NA |
|                  | 07/01/02      | <sup>b</sup>      | 3,800    | 270     | 1,600                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 1.2    | NA        | 0.020   | NA       | NA      | NA      | NA       | NA |
| MW-28            | 11/18/00      | <sup>b</sup>      | 2,500    | 383     | 2,030                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 49.7   | NA        | 1.40    | NA       | NA      | NA      | NA       | NA |
|                  | 03/28/01      | <sup>b</sup>      | 4,030    | 386     | 1,560                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 1.06   | NA        | 0.0469  | NA       | NA      | NA      | NA       | NA |
|                  | 07/03/02      | <sup>b</sup>      | 3,400    | 310     | 1,800                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 3.7    | NA        | 0.080   | NA       | NA      | NA      | NA       | NA |
| MW-29            | 11/19/00      | <sup>b</sup>      | 1,810    | 405     | 735                                         | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 129    | NA        | 3.63    | NA       | NA      | NA      | NA       | NA |
|                  | 03/28/01      | <sup>b</sup>      | 2,300    | 480     | 589                                         | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 0.275  | NA        | 0.262   | NA       | NA      | NA      | NA       | NA |
|                  | 07/03/02      | <sup>b</sup>      | 1,600    | 350     | 480                                         | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 3.3    | NA        | 0.72    | NA       | NA      | NA      | NA       | NA |
| MW-30            | 11/18/00      | <sup>b</sup>      | 3,260    | 385     | 1,970                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 49.7   | NA        | 1.38    | NA       | NA      | NA      | NA       | NA |
|                  | 03/28/01      | <sup>b</sup>      | 3,920    | 401     | 1,610                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 1.05   | NA        | 0.0378  | NA       | NA      | NA      | NA       | NA |
|                  | 07/03/02      | <sup>b</sup>      | 3,400    | 320     | 1,800                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | 0.21   | NA        | 0.0091  | NA       | NA      | NA      | NA       | NA |
| MW-31            | 10/04/01      | <sup>b</sup>      | 3,930    | 478     | 1,550                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | < 0.05 | NA        | 0.0217  | NA       | NA      | NA      | NA       | NA |
| MW-32            | 10/04/01      | <sup>b</sup>      | 3,490    | 510     | 1,180                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | < 0.05 | NA        | 0.173   | NA       | NA      | NA      | NA       | NA |
| MW-33            | 10/04/01      | <sup>b</sup>      | 3,890    | 483     | 1,610                                       | NA      | NA        | NA        | NA     | NA                                       | NA            | NA      | NA      | NA       | NA      | NA      | < 0.05 | NA        | 0.0259  | NA       | NA      | NA      | NA       | NA |

**Table 5. Summary of Groundwater Analyses - Inorganics  
Compressor Station No. 9 - Roswell, NM**

| Well             | Sampling Date | Major Ions (mg/L) |          |         |                                             |         |           |           |        |                                          | Metals (mg/L) |        |         |          |        |      |        |           |         |          |        |      |          |
|------------------|---------------|-------------------|----------|---------|---------------------------------------------|---------|-----------|-----------|--------|------------------------------------------|---------------|--------|---------|----------|--------|------|--------|-----------|---------|----------|--------|------|----------|
|                  |               | TDS               | Chloride | Sulfate | NO <sub>2</sub> /NO <sub>3</sub> - N, total | Calcium | Potassium | Magnesium | Sodium | Total alkalinity (as CaCO <sub>3</sub> ) | Arsenic       | Barium | Cadmium | Chromium | Copper | Iron | Lead   | Manganese | Mercury | Selenium | Silver | Zinc | Aluminum |
| NMWQCC Standard: |               | 1,000             | 250      | 600     | 10                                          | none    | none      | none      | none   | none                                     | 0.1           | 1.0    | 0.01    | 0.05     | 1.0    | 1.0  | 0.05   | 0.20      | 0.002   | 0.05     | 0.05   | 10   | 5        |
| MW-36            | 11/11/03      | 3,200             | 380      | 2,000   | 0.27                                        | NA      | NA        | NA        | NA     | NA                                       | NA            | NA     | NA      | NA       | < 0.02 | NA   | 0.1100 | NA        | NA      | NA       | NA     | NA   | NA       |
| MW-37            | 11/11/03      | 3,200             | 420      | 1,800   | 0.53                                        | NA      | NA        | NA        | NA     | NA                                       | NA            | NA     | NA      | NA       | < 0.02 | NA   | 1.40   | NA        | NA      | NA       | NA     | NA   | NA       |
| MW-38            | 11/11/03      | 3,500             | 480      | 2,000   | 1.3                                         | NA      | NA        | NA        | NA     | NA                                       | NA            | NA     | NA      | NA       | < 0.02 | NA   | 0.0130 | NA        | NA      | NA       | NA     | NA   | NA       |

**NOTES:**

All results reported above the NMWQCC Standards are shown in bold type.

<sup>(a)</sup> NA - A result for this constituent is not available

<sup>(b)</sup> Results represent total metals analysis

<sup>(c)</sup> Results represent dissolved metals analysis on samples filtered in the lab

<sup>(d)</sup> Analyte present in method blank



**Table 6. Summary of Completion Details for Soil Borings Completed as Wells  
Compressor Station No. 9 - Roswell, NM**

| Well  | Source <sup>a</sup>   | Date of Completion | Measuring Point Elevation (ft) <sup>b</sup> | 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) |
|-------|-----------------------|--------------------|---------------------------------------------|---------------|--------------|--------------------------------|--------------------------------------|-------------------------|-----------------------|--------------------------|---------------------------|
| MW-1  | SH&B/Halliburton NUS  | 07/21/92           | na                                          | 2,001.40      | 217.60       | 68                             | na                                   | Flush Mount             | 4                     | 28-68                    | 25.2                      |
| MW-1B | Layne/Halliburton NUS | 04/21/93           | 3,609.96                                    | 1,854.00      | 265.50       | 65.5                           | 64.65                                | Flush Mount             | 2                     | 55-65                    | 53                        |
| MW-2  | Layne/Halliburton NUS | 04/21/93           | 3,611.76                                    | 2,034.30      | 102.40       | 65                             | 61.61                                | Flush Mount             | 2                     | 55-65                    | 53                        |
| MW-3  | Layne/Halliburton NUS | 04/26/93           | 3,614.87                                    | 1,629.77      | 265.23       | 72.5                           | na                                   | Flush Mount             | 2                     | 60-70                    | 58                        |
| MW-5  | Layne/Halliburton NUS | 04/28/93           | 3,612.77                                    | 2,049.70      | -150.96      | 70                             | 69.35                                | Flush Mount             | 2                     | 60-70                    | 58                        |
| RW-1  | NA/Halliburton NUS    | 06/13/93           | na                                          | na            | na           | 42.5                           | 49.65                                | Flush Mount             | na                    | na                       | na                        |
| MW-6  | Pool/DBS              | 12/01/94           | 3,618.62                                    | 1,607.40      | -266.20      | 79                             | na                                   | Flush Mount             | 2                     | 59.9-74.9                | 57.1                      |
| MW-7  | Harrison/DBS          | 08/22/95           | 3,599.20                                    | 2,118.00      | 328.40       | 70.5                           | na                                   | Flush Mount             | 2                     | 50-70                    | 48.1                      |
| MW-8  | Harrison/DBS          | 08/16/95           | 3,595.80                                    | 2,178.00      | 414.70       | 76.8                           | 73.80                                | Flush Mount             | 2                     | 59-74                    | 57.2                      |
| MW-9  | Harrison/DBS          | 08/18/95           | 3,599.35                                    | 2,071.40      | 512.90       | 70                             | 69.75                                | Flush Mount             | 2                     | 50-70                    | 47.9                      |
| MW-10 | Layne/DBS             | 09/10/96           | 3,617.85                                    | 1,804.76      | 0.14         | 74.5                           | 72.15                                | Flush Mount             | 2                     | 57-72                    | 55.3                      |
| MW-11 | Layne/DBS             | 09/16/96           | 3,613.31                                    | 2,046.04      | -27.10       | 72                             | 68.30                                | Flush Mount             | 2                     | 54-69                    | 51.5                      |
| MW-12 | Layne/DBS             | 09/11/96           | 3,606.38                                    | 2,149.13      | 152.94       | 64                             | na                                   | Flush Mount             | 2                     | 44-64                    | 42                        |
| MW-13 | Layne/DBS             | 09/13/96           | 3,612.46                                    | 1,749.33      | 265.05       | 72                             | na                                   | Flush Mount             | 2                     | 57-72                    | 55                        |
| MW-14 | Layne/DBS             | 09/10/96           | 3,604.83                                    | 1,918.87      | 365.40       | 64.5                           | na                                   | Flush Mount             | 2                     | 49.5-64.5                | 48                        |
| MW-15 | Layne/DBS             | 09/20/96           | 3,610.43                                    | 1,803.83      | 516.97       | 68.5                           | na                                   | Flush Mount             | 2                     | 38.5-68.5                | 37                        |
| MW-16 | Layne/DBS             | 09/19/96           | 3,612.41                                    | 1,718.88      | 387.35       | 71.4                           | 71.46                                | Flush Mount             | 2                     | 46.4-71.4                | 45.5                      |
| MW-17 | Layne/DBS             | 09/21/96           | 3,608.43                                    | 1,598.72      | 516.35       | 70                             | na                                   | Flush Mount             | 2                     | 53-68                    | 50.9                      |
| MW-18 | Layne/DBS             | 09/25/96           | 3,609.73                                    | 1,701.47      | 613.38       | 71                             | na                                   | Flush Mount             | 2                     | 54-69                    | 51.6                      |
| MW-19 | Layne/DBS             | 09/26/96           | 3,608.17                                    | 1,806.45      | 717.41       | 69.5                           | na                                   | Flush Mount             | 2                     | 54.5-69.5                | 51                        |
| MW-20 | Layne/DBS             | 08/04/97           | 3,600.65                                    | 2,283.22      | 148.03       | 64                             | na                                   | Flush Mount             | 2                     | 46.8-61.8                | 43.9                      |
| MW-21 | Layne/DBS             | 08/06/97           | 3,611.99                                    | 1,511.01      | 408.66       | 75                             | na                                   | Flush Mount             | 2                     | 54-74                    | 51.7                      |
| MW-22 | Layne/DBS             | 08/04/97           | 3,606.04                                    | 2,187.66      | 26.69        | 68                             | na                                   | Flush Mount             | 2                     | 50-65                    | 49                        |
| MW-26 | GPI/CES               | 09/01/98           | 3,597.75                                    | 2,416.94      | 142.26       | 65                             | na                                   | Flush Mount             | 2                     | 43-63                    | 41                        |
| MW-27 | GPI/CES               | 09/02/98           | 3,615.11                                    | 1,332.63      | 433.96       | 75                             | na                                   | Flush Mount             | 2                     | 55-75                    | 53                        |
| MW-28 | GPI/CES               | 11/14/00           | 3,615.90                                    | 1,228.94      | 390.72       | 75                             | 74.81                                | Flush Mount             | 2                     | 60-75                    | 58                        |
| MW-29 | GPI/CES               | 11/18/00           | 3,613.54                                    | 1,237.26      | 542.28       | 75                             | 74.45                                | Flush Mount             | 2                     | 60-75                    | 58                        |
| MW-30 | GPI/CES               | 11/16/00           | 3,612.63                                    | 1,133.59      | 440.96       | 75                             | 74.70                                | Flush Mount             | 2                     | 60-75                    | 58                        |
| MW-31 | GPI/CES               | 09/21/01           | 3,611.59                                    | 1,341.87      | 649.76       | 75                             | 74.55                                | Flush Mount             | 2                     | 60-75                    | 58                        |
| MW-32 | GPI/CES               | 09/23/01           | 3,608.73                                    | 1,088.91      | 563.93       | 75                             | 74.20                                | Flush Mount             | 2                     | 60-75                    | 58                        |
| MW-33 | GPI/CES               | 09/22/01           | 3,610.55                                    | 1,180.19      | 683.32       | 75                             | 74.60                                | Flush Mount             | 2                     | 60-75                    | 58                        |
| MW-34 | Atkins/CES            | 01/06/03           | 3605.05 (c)                                 | 933.24        | 536.25       | 79                             | 75.75                                | Flush Mount             | 2                     | 49-79                    | 46                        |
| MW-35 | Atkins/CES            | 01/07/03           | 3601.87 (c)                                 | 947.76        | 635.18       | 79                             | 76.71                                | Flush Mount             | 2                     | 49-79                    | 46                        |

**Table 6. Summary of Completion Details for Soil Borings Completed as Wells  
Compressor Station No. 9 - Roswell, NM**

| Well   | Source <sup>a</sup> | Date of Completion | Measuring Point Elevation (ft) <sup>b</sup> | 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) |
|--------|---------------------|--------------------|---------------------------------------------|---------------|--------------|--------------------------------|--------------------------------------|-------------------------|-----------------------|--------------------------|---------------------------|
| MW-36  | Atkins/CES          | 09/29/03           | 3601.97 (d)                                 | 813.34        | 447.57       | 75                             | 74.35                                | Flush Mount             | 2                     | 55-75                    | 53                        |
| MW-37  | Atkins/CES          | 09/29/03           | 3599.86 (d)                                 | 785.35        | 517.40       | 70                             | 69.61                                | Flush Mount             | 2                     | 50-70                    | 48                        |
| MW-38  | Atkins/CES          | 09/30/03           | 3598.11 (d)                                 | 792.32        | 590.85       | 68                             | 67.76                                | Flush Mount             | 2                     | 48-68                    | 46                        |
| MW-23D | GPI/CES             | 07/29/97           | 3,605.00                                    | 1,914.95      | 393.65       | 194                            | na                                   | Flush Mount             | 4                     | 167-187                  | 164                       |
| MW-24D | GPI/CES             | 09/10/98           | 3,595.95                                    | 2,139.77      | 807.92       | 180                            | na                                   | Flush Mount             | 4                     | 146-176                  | 143                       |
| MW-25D | GPI/CES             | 09/09/98           | 3,592.99                                    | 2,422.12      | 314.82       | 150                            | na                                   | Flush Mount             | 4                     | 119-149                  | 117                       |
| SVE-1A | Layne/DBS           | 09/21/96           | 3,616.50                                    | 1,793.70      | 114.40       | 30                             | 29.65                                | Flush Mount             | 2                     | 20-30                    | 19                        |
| SVE-2A | Layne/DBS           | 09/20/96           | 3,615.70                                    | 1,735.90      | 178.90       | 30                             | 29.83                                | Flush Mount             | 2                     | 20-30                    | 17.5                      |
| SVE-3  | Layne/DBS           | 09/16/96           | 3,614.51                                    | 1,881.00      | 176.60       | 62.3                           | 61.90                                | Flush Mount             | 2                     | 32.0-62.3                | 29.5                      |
| SVE-22 | Atkins/CES          | 11/07/02           | na                                          | 1746.89       | 226.73       | 35                             | 33.20                                | Flush Mount             | 2                     | 25-35                    | 23                        |
| SVE-23 | Atkins/CES          | 11/07/02           | na                                          | 1832.49       | 254.54       | 39                             | 36.70                                | Flush Mount             | 2                     | 25-35                    | 22                        |
| SVE-24 | Atkins/CES          | 11/13/02           | na                                          | 1918.08       | 282.35       | 30                             | 28.85                                | Flush Mount             | 2                     | 20-30                    | 18                        |
| SVE-25 | Atkins/CES          | 11/04/02           | na                                          | 1813.77       | 166.51       | 34                             | 53.30                                | Flush Mount             | 2                     | 24-34                    | 21.6                      |
| SVE-26 | Atkins/CES          | 11/05/02           | na                                          | 1884.06       | 191.23       | 35                             | 32.45                                | Flush Mount             | 2                     | 24-34                    | 22                        |
| SVE-27 | Atkins/CES          | 11/01/02           | na                                          | 1965.96       | 206.14       | 35                             | 33.90                                | Flush Mount             | 2                     | 20-35                    | 18                        |
| SVE-28 | Atkins/CES          | 10/29/02           | na                                          | 2052.33       | 231.44       | 35                             | 36.00                                | Flush Mount             | 2                     | 25-35                    | 23                        |
| SVE-30 | Atkins/CES          | 10/25/02           | na                                          | 1946.05       | 114.40       | 45                             | 44.00                                | Flush Mount             | 2                     | 20-45                    | 18                        |
| SVE-31 | Atkins/CES          | 10/28/02           | na                                          | 2031.05       | 143.99       | 35                             | 33.95                                | Flush Mount             | 2                     | 25-35                    | 23                        |
| MPE-1  | Atkins/CES          | 12/06/02           | na                                          | 1099.58       | 600.30       | 79                             | 75.60                                | Flush Mount             | 4                     | 54-74                    | 49                        |
| MPE-2  | Atkins/CES          | 12/24/02           | na                                          | 1039.89       | 532.94       | 79                             | 71.75                                | Flush Mount             | 4                     | 54-79                    | 51                        |
| MPE-3  | Atkins/CES          | 12/21/02           | na                                          | 1128.06       | 514.93       | 79                             | 75.95                                | Flush Mount             | 4                     | 54-79                    | 51                        |
| MPE-4  | Atkins/CES          | 12/19/12           | na                                          | 1187.75       | 582.28       | 79                             | 78.30                                | Flush Mount             | 4                     | 54-79                    | 51                        |
| MPE-5  | Atkins/CES          | 12/16/02           | na                                          | 1277.20       | 572.35       | 79                             | 77.70                                | Flush Mount             | 4                     | 59-79                    | 56                        |
| MPE-6  | Atkins/CES          | 12/17/02           | na                                          | 1216.24       | 496.91       | 79                             | 75.00                                | Flush Mount             | 4                     | 54-79                    | 51                        |
| MPE-7  | Atkins/CES          | 12/13/02           | na                                          | 1305.69       | 486.98       | 79                             | 78.41                                | Flush Mount             | 4                     | 54-74                    | 51                        |
| MPE-8  | Atkins/CES          | 12/14/02           | na                                          | 1405.38       | 500.61       | 79                             | 77.55                                | Flush Mount             | 4                     | 59-79                    | 50                        |
| MPE-9  | Atkins/CES          | 12/18/02           | na                                          | 1334.63       | 413.06       | 79                             | 73.60                                | Flush Mount             | 4                     | 54-74                    | 51                        |
| MPE-10 | Atkins/CES          | 12/09/02           | na                                          | 1432.19       | 416.74       | 79                             | 75.30                                | Flush Mount             | 4                     | 54-74                    | 50                        |
| MPE-11 | Atkins/CES          | 12/07/02           | na                                          | 1492.97       | 479.94       | 79                             | 79.05                                | Flush Mount             | 4                     | 54-74                    | 50                        |
| MPE-12 | Atkins/CES          | 12/06/02           | na                                          | 1522.61       | 383.57       | 79                             | 75.40                                | Flush Mount             | 4                     | 54-74                    | 51                        |
| MPE-13 | Atkins/CES          | 12/03/02           | na                                          | 1570.20       | 436.35       | 79                             | 77.60                                | Flush Mount             | 4                     | 54-74                    | 50.7                      |
| MPE-14 | Atkins/CES          | 11/25/02           | na                                          | 1631.84       | 435.21       | 79                             | 76.80                                | Flush Mount             | 4                     | 54-74                    | 51                        |
| MPE-15 | Atkins/CES          | 11/22/02           | na                                          | 1714.06       | 455.52       | 79                             | 79.25                                | Flush Mount             | 4                     | 59-74                    | 54                        |

**Table 6. Summary of Completion Details for Soil Borings Completed as Wells  
Compressor Station No. 9 - Roswell, NM**

| Well                                                                                                                                                                                                                     | Source <sup>a</sup> | Date of Completion | Measuring Point Elevation (ft) <sup>b</sup> | 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) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|---------------------------------------------|---------------|--------------|--------------------------------|--------------------------------------|-------------------------|-----------------------|--------------------------|---------------------------|
| MPE-16                                                                                                                                                                                                                   | Atkins/CES          | 11/27/02           | na                                          | 1613.13       | 347.18       | 79                             | 78.20                                | Flush Mount             | 4                     | 54-74                    | 49                        |
| MPE-17                                                                                                                                                                                                                   | Atkins/CES          | 11/20/02           | na                                          | 1698.72       | 374.99       | 75                             | 76.10                                | Flush Mount             | 4                     | 55-70                    | 49                        |
| MPE-18                                                                                                                                                                                                                   | Atkins/CES          | 11/21/02           | na                                          | 1784.32       | 402.80       | 79                             | 78.68                                | Flush Mount             | 4                     | 58-73                    | 55                        |
| MPE-19                                                                                                                                                                                                                   | Atkins/CES          | 11/26/02           | na                                          | 1680.01       | 286.96       | 79                             | 74.12                                | Flush Mount             | 4                     | 49-74                    | 46                        |
| MPE-20                                                                                                                                                                                                                   | Atkins/CES          | 11/20/02           | na                                          | 1765.60       | 314.77       | 78                             | 77.60                                | Flush Mount             | 4                     | 48-73                    | 42                        |
| MPE-21                                                                                                                                                                                                                   | Atkins/CES          | 11/19/02           | na                                          | 1852.27       | 337.91       | 69                             | 68.90                                | Flush Mount             | 4                     | 44-64                    | 41.9                      |
| MPE-22                                                                                                                                                                                                                   | Atkins/CES          | 11/07/02           | na                                          | 1746.89       | 226.73       | 80                             | 77.52                                | Flush Mount             | 4                     | 55-80                    | 52                        |
| MPE-23                                                                                                                                                                                                                   | Atkins/CES          | 11/06/02           | na                                          | 1832.49       | 254.54       | 80                             | 78.41                                | Flush Mount             | 4                     | 55-80                    | 52                        |
| MPE-24                                                                                                                                                                                                                   | Atkins/CES          | 11/13/02           | na                                          | 1918.08       | 282.35       | 74                             | 73.77                                | Flush Mount             | 4                     | 49-74                    | 46                        |
| MPE-25                                                                                                                                                                                                                   | Atkins/CES          | 11/04/02           | na                                          | 1813.77       | 166.51       | 80                             | 77.45                                | Flush Mount             | 4                     | 54-79                    | 51                        |
| MPE-26                                                                                                                                                                                                                   | Atkins/CES          | 11/06/02           | na                                          | 1884.06       | 191.23       | 84                             | 77.35                                | Flush Mount             | 4                     | 54-84                    | 49                        |
| MPE-27                                                                                                                                                                                                                   | Atkins/CES          | 10/31/02           | na                                          | 1965.96       | 206.14       | 79                             | 79.40                                | Flush Mount             | 4                     | 54-79                    | 48                        |
| MPE-28                                                                                                                                                                                                                   | Atkins/CES          | 10/31/02           | na                                          | 2052.33       | 231.44       | 82                             | 77.67                                | Flush Mount             | 4                     | 46-76                    | 43                        |
| MPE-29                                                                                                                                                                                                                   | Atkins/CES          | 11/02/02           | na                                          | 1859.68       | 89.10        | 79                             | 78.35                                | Flush Mount             | 4                     | 54-79                    | 51                        |
| MPE-30                                                                                                                                                                                                                   | Atkins/CES          | 10/25/02           | na                                          | 1946.05       | 114.40       | 80                             | 77.96                                | Flush Mount             | 4                     | 59-79                    | 56                        |
| MPE-31                                                                                                                                                                                                                   | Atkins/CES          | 10/28/02           | na                                          | 2031.05       | 143.99       | 80                             | 78.80                                | Flush Mount             | 4                     | 59-79                    | 58                        |
| MPE-32                                                                                                                                                                                                                   | Atkins/CES          | 11/19/02           | na                                          | 2117.42       | 169.29       | 79                             | 78.30                                | Flush Mount             | 4                     | 44-74                    | 39.2                      |
| MPE-33                                                                                                                                                                                                                   | Atkins/CES          | 11/18/02           | na                                          | 2202.42       | 198.88       | 79                             | 78.00                                | Flush Mount             | 4                     | 44-79                    | 41.6                      |
| MPE-34                                                                                                                                                                                                                   | Atkins/CES          | 10/24/02           | na                                          | 2014.18       | 55.59        | 80                             | 77.52                                | Flush Mount             | 4                     | 59-79                    | 56                        |
| MPE-35                                                                                                                                                                                                                   | Atkins/CES          | 11/15/02           | na                                          | 2099.18       | 85.18        | 79                             | 79.21                                | Flush Mount             | 4                     | 54-74                    | 51                        |
| MPE-36                                                                                                                                                                                                                   | Atkins/CES          | 11/14/02           | na                                          | 2185.55       | 110.48       | 74                             | 71.31                                | Flush Mount             | 4                     | 44-74                    | 41                        |
| MPE-37                                                                                                                                                                                                                   | Atkins/CES          | 11/15/02           | na                                          | 2270.54       | 140.07       | 74                             | 73.60                                | Flush Mount             | 4                     | 44-74                    | 41                        |
| NOTES:<br>(a) Driller/Consultant<br>(b) Survey by Wagener Engineering dated 5/6/98, 9/17/98, 11/29/00 and 10/03/01<br>(c) Survey by Cypress Engineering dated 3/14/03<br>(d) Survey by Cypress Engineering dated 6/23/07 |                     |                    |                                             |               |              |                                |                                      |                         |                       |                          |                           |

**Table 7. Monitor Well Sampling Locations, Frequency, and Sample Analysis Plan  
Compressor Station No. 9 - Roswell, NM**

| Well ID | Analytical Requirements |                      | Date of Most Recent Sample | Benzene (ppb) Most Recent Sample | Consecutive Events < NMWQCC Standard | Comments                              |
|---------|-------------------------|----------------------|----------------------------|----------------------------------|--------------------------------------|---------------------------------------|
|         | 1st Semiannual Event    | 2nd Semiannual Event |                            |                                  |                                      |                                       |
| MW-1    | ---                     | ---                  | na                         | na                               | na                                   | well pugged and abandoned             |
| MW-1B   | ---                     | ---                  | na                         | na                               | na                                   | PSH in well                           |
| MW-2    | ---                     | ---                  | na                         | na                               | na                                   | Insufficient water to sample          |
| MW-3    | ---                     | ---                  | 09/16/08                   | <1                               | 20                                   | clean perimeter well                  |
| MW-5    | ---                     | ---                  | 03/23/99                   | <1                               | 10                                   | clean upgradient well                 |
| MW-6    | ---                     | ---                  | 03/23/99                   | <1                               | 10                                   | clean upgradient well                 |
| MW-7    | ---                     | ---                  | 09/11/08                   | <1                               | 21                                   | clean perimeter well                  |
| MW-8    | ---                     | ---                  | 03/25/99                   | <1                               | 9                                    | clean perimeter well                  |
| MW-9    | ---                     | ---                  | 03/24/99                   | <1                               | 9                                    | clean perimeter well                  |
| MW-10   | ---                     | ---                  | 09/16/08                   | <1                               | 18                                   | clean perimeter well                  |
| MW-11   | ---                     | ---                  | 09/11/08                   | <1                               | 18                                   | clean perimeter well                  |
| MW-12   | ---                     | ---                  | na                         | na                               | na                                   | PSH in well                           |
| MW-13   | ---                     | BTEX                 | 10/19/12                   | <1                               | 16                                   | Previously contained elevated benzene |
| MW-14   | ---                     | BTEX                 | 10/19/12                   | <1                               | 5                                    | Previously contained elevated benzene |
| MW-15   | ---                     | ---                  | 09/11/08                   | <1                               | 18                                   | clean perimeter well                  |
| MW-16   | BTEX                    | BTEX                 | na                         | na                               | na                                   | Previously contained PSH in well      |
| MW-17   | ---                     | ---                  | 09/11/08                   | <1                               | 18                                   | clean perimeter well                  |
| MW-18   | ---                     | ---                  | 03/24/99                   | <1                               | 7                                    | clean perimeter well                  |
| MW-19   | ---                     | ---                  | 03/24/99                   | <1                               | 8                                    | clean perimeter well                  |
| MW-20   | VOCs                    | VOCs                 | 10/19/12                   | 8.1 (DCE)                        | 0                                    | COCs: DCA, DCE, TCA                   |
| MW-21   | ---                     | BTEX                 | 10/25/12                   | <1                               | 15                                   | Previously contained elevated benzene |
| MW-22   | VOCs                    | VOCs                 | 10/21/12                   | <1 (DCE)                         | 20                                   | COCs: DCA, DCE, TCA                   |
| MW-23D  | ---                     | BTEX                 | 12/14/12                   | <1                               | 22                                   | clean deep well                       |
| MW-24D  | ---                     | BTEX                 | 12/14/12                   | 9.6                              | 18                                   | clean deep well                       |
| MW-25D  | ---                     | BTEX                 | 12/14/12                   | <1                               | 18                                   | clean deep well                       |
| MW-26   | VOCs                    | VOCs                 | 10/19/12                   | 54 (DCE)                         | 0                                    | COCs: DCA, DCE, TCA                   |
| MW-27   | ---                     | ---                  | na                         | na                               | na                                   | PSH in well                           |
| MW-28   | ---                     | ---                  | 09/10/08                   | <1                               | 12                                   | clean perimeter well                  |
| MW-29   | BTEX                    | BTEX                 | 10/21/12                   | <1                               | 6                                    | Previously contained elevated benzene |
| MW-30   | ---                     | ---                  | 09/16/08                   | <1                               | 12                                   | clean perimeter well                  |
| MW-31   | ---                     | ---                  | 09/10/08                   | <1                               | 9                                    | clean perimeter well                  |
| MW-32   | BTEX                    | BTEX                 | 10/19/12                   | <1                               | 12                                   | Previously contained elevated benzene |
| MW-33   | ---                     | ---                  | 09/10/08                   | <1                               | 9                                    | clean perimeter well                  |
| MW-34   | BTEX                    | BTEX                 | 10/19/12                   | 140                              | 0                                    | Elevated benzene                      |
| MW-35   | BTEX                    | BTEX                 | 10/21/12                   | <1                               | 21                                   | clean downgradient well               |
| MW-36   | ---                     | ---                  | 03/11/09                   | <1                               | 12                                   | clean downgradient well               |
| MW-37   | ---                     | ---                  | 03/11/09                   | <1                               | 12                                   | clean downgradient well               |
| MW-38   | ---                     | ---                  | 03/11/09                   | <1                               | 12                                   | clean downgradient well               |

Notes:  
1) nd - non-detect  
2) na - not available; sample not collected or analysis not requested  
3) VOCs - Volatile Organic Compounds by EPA Method 8260  
4) BTEX - by EPA Method 8260

**Table 8. Summary of Vapor Sample Analyses for the SVE System  
Compressor Station No. 9 - Roswell, NM**

| Sample ID          | Date     | Gasoline<br>Range VOCs |                       | Estimated<br>Process Flow | Potential<br>Emissions | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|--------------------|----------|------------------------|-----------------------|---------------------------|------------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|                    |          | (ug/L)                 | (ppmv) <sup>(a)</sup> | (scfm)                    | (lb/hr)                | (%)  |       |       |       |       |        |         |         |         |      |
| West Baker Furnace | 05/21/03 | 3,220                  | 980                   | 128                       | 1.5                    | 1.0  | 19.7  | 40.0  | 28.8  | 7.5   | 2.4    | 0.5     | 0.1     | 0.0     | 0.0  |
| Duplicate (SVE-1)  | 05/21/03 | 3,680                  | 1,120                 | 128                       | 1.8                    | 0.0  | 20.6  | 39.8  | 29.3  | 7.6   | 2.2    | 0.4     | 0.1     | 0.0     | 0.0  |
| West Baker Furnace | 06/04/03 | 3,660                  | 1,114                 | 127                       | 1.7                    | 0.7  | 36.1  | 23.0  | 32.6  | 4.6   | 2.3    | 0.5     | 0.0     | 0.0     | 0.2  |
| Duplicate (SVE-1)  | 06/04/03 | 3,180                  | 968                   | 127                       | 1.5                    | 0.4  | 37.4  | 34.7  | 20.8  | 4.5   | 2.0    | 0.2     | 0.0     | 0.0     | 0.0  |
| West Baker Furnace | 12/15/04 | 979                    | 298                   | 157                       | 0.6                    | 10.0 | 36.1  | 40.2  | 7.1   | 5.2   | 0.8    | 0.5     | 0.0     | 0.1     | 0.0  |
| West Baker Furnace | 12/22/04 | 320                    | 97                    | 168                       | 0.2                    | 8.8  | 31.5  | 33.8  | 15.3  | 6.7   | 3.0    | 0.3     | 0.5     | 0.1     | 0.0  |
| West Baker Furnace | 07/15/05 | 2,120                  | 645                   | 153                       | 1.2                    | 8.1  | 41.2  | 29.3  | 15.8  | 4.2   | 1.2    | 0.2     | 0.0     | 0.0     | 0.0  |
| West Baker Furnace | 05/01/06 | 2,200                  | 669                   | 160                       | 1.3                    | 23.7 | 26.6  | 27.6  | 16.1  | 3.9   | 1.5    | 0.6     | 0.0     | 0.0     | 0.0  |
| West Baker Furnace | 09/13/06 | 990                    | 301                   | 165                       | 0.6                    | 26.4 | 25.9  | 26.1  | 18.7  | 2.0   | 0.6    | 0.3     | 0.0     | 0.0     | 0.0  |
| West Baker Furnace | 06/22/07 | 826                    | 251                   | 161                       | 0.5                    | 5.8  | 22.3  | 31.4  | 27.8  | 9.9   | 2.5    | 0.3     | 0.0     | 0.0     | 0.0  |
| West Baker Furnace | 07/02/08 | 728                    | 222                   | 150                       | 0.4                    | 6.7  | 27.4  | 35.4  | 26.1  | 2.6   | 0.4    | 1.4     | 0.0     | 0.0     | 0.0  |
| West Baker Furnace | 11/05/08 | 5,840                  | 1,777                 | 140                       | 3.1                    | 6.4  | 33.0  | 35.3  | 21.5  | 3.6   | 0.1    | 0.1     | 0.0     | 0.0     | 0.0  |
| West Baker Furnace | 10/06/09 | 1,770                  | 539                   | 142                       | 0.9                    | --   | 10.5  | 46.2  | 38.1  | 4.0   | 1.2    | 0.0     | 0.0     | 0.0     | 0.0  |
| West Baker Furnace | 08/10/11 | 3,200                  | 974                   | 147                       | 1.8                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| West Baker         | 07/03/12 | 3,700                  | 1,126                 | 162                       | 2.2                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| West Baker Furnace | 10/05/12 | 1,400                  | 426                   | 162                       | 0.8                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| West Baker Furnace | 10/22/12 | 1,670                  | 508                   | 162                       | 1.0                    | --   | 17.1  | 44.2  | 28.6  | 4.2   | 5.0    | 0.5     | 0.2     | 0.1     | 0.1  |
|                    |          |                        |                       |                           |                        |      |       |       |       |       |        |         |         |         |      |
| East Baker Furnace | 05/21/03 | 1,850                  | 563                   | 175                       | 1.2                    | 0.0  | 16.5  | 29.1  | 26.2  | 14.2  | 8.0    | 2.2     | 0.7     | 2.4     | 0.7  |
| Duplicate (SVE-2)  | 05/21/03 | 2,070                  | 630                   | 175                       | 1.4                    | 0.0  | 16.6  | 29.8  | 27.2  | 15.1  | 8.6    | 1.8     | 0.6     | 0.1     | 0.2  |
| East Baker Furnace | 06/04/03 | 3,450                  | 1,050                 | 142                       | 1.8                    | 0.4  | 39.8  | 30.3  | 19.0  | 7.1   | 2.5    | 0.8     | 0.1     | 0.0     | 0.0  |
| Duplicate (SVE-2)  | 06/04/03 | 3,370                  | 1,025                 | 142                       | 1.8                    | 0.3  | 40.2  | 29.9  | 19.0  | 7.2   | 2.6    | 0.7     | 0.1     | 0.0     | 0.0  |
| East Baker Furnace | 12/15/04 | 2,800                  | 852                   | 215                       | 2.3                    | 1.4  | 38.5  | 39.9  | 15.8  | 3.5   | 0.5    | 0.2     | 0.0     | 0.1     | 0.1  |
| East Baker Furnace | 12/22/04 | 1,520                  | 463                   | 174                       | 1.0                    | 4.7  | 32.0  | 33.9  | 24.6  | 3.6   | 1.0    | 0.1     | 0.1     | 0.0     | 0.0  |
| East Baker Furnace | 07/15/05 | 4,140                  | 1,260                 | 184                       | 2.9                    | 8.2  | 41.4  | 29.6  | 16.3  | 3.8   | 0.7    | 0.0     | 0.0     | 0.0     | 0.0  |
| East Baker Furnace | 05/10/06 | 4,470                  | 1,360                 | 198                       | 3.3                    | 25.1 | 28.4  | 27.5  | 14.6  | 2.7   | 0.5    | 1.2     | 0.0     | 0.0     | 0.0  |
| East Baker Furnace | 09/13/06 | 3,140                  | 956                   | 210                       | 2.5                    | 23.0 | 27.4  | 29.0  | 16.9  | 3.3   | 0.4    | 0.0     | 0.0     | 0.0     | 0.0  |
| East Baker Furnace | 06/22/07 | 1,300                  | 396                   | 206                       | 1.0                    | 6.1  | 23.5  | 31.5  | 29.5  | 7.8   | 1.6    | 0.0     | 0.0     | 0.0     | 0.0  |
| East Baker Furnace | 07/02/08 | 1,420                  | 432                   | 193                       | 1.0                    | 4.8  | 19.9  | 28.4  | 34.5  | 5.9   | 1.4    | 4.2     | 0.0     | 0.2     | 0.7  |
| East Baker Furnace | 11/05/08 | 4,580                  | 1,394                 | 177                       | 3.0                    | 9.0  | 30.1  | 32.9  | 22.5  | 4.6   | 0.2    | 0.7     | 0.0     | 0.0     | 0.0  |
| East Baker Furnace | 10/06/09 | 2,010                  | 612                   | 216                       | 1.6                    | --   | 15.4  | 49.3  | 31.4  | 2.9   | 1.0    | 0.0     | 0.0     | 0.0     | 0.0  |
| East Baker Furnace | 08/10/11 | 2,200                  | 669                   | 147                       | 1.2                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| East Baker         | 07/03/12 | 2,100                  | 639                   | 159                       | 1.3                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| East Baker Furnace | 10/05/12 | 1,200                  | 365                   | 159                       | 0.7                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| East Baker Furnace | 10/22/12 | 1,780                  | 542                   | 160                       | 1.1                    | --   | 15.3  | 41.0  | 29.6  | 5.8   | 7.1    | 0.9     | 0.1     | 0.1     | 0.1  |
|                    |          |                        |                       |                           |                        |      |       |       |       |       |        |         |         |         |      |

**Table 8. Summary of Vapor Sample Analyses for the SVE System  
Compressor Station No. 9 - Roswell, NM**

| Sample ID               | Date     | Gasoline<br>Range VOCs |                       | Estimated<br>Process Flow | Potential<br>Emissions | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-------------------------|----------|------------------------|-----------------------|---------------------------|------------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|                         |          | (ug/L)                 | (ppmv) <sup>(a)</sup> | (scfm)                    | (lb/hr)                | (%)  |       |       |       |       |        |         |         |         |      |
| A Circuit               | 07/22/03 | 2,540                  | 773                   | 132                       | 1.3                    | 0.0  | 17.2  | 38.5  | 31.1  | 7.6   | 3.1    | 0.5     | 0.5     | 1.5     | 0.0  |
| Duplicate (SVE-1)       | 07/22/03 | 2,140                  | 651                   | 132                       | 1.1                    | 0.0  | 17.8  | 39.0  | 30.1  | 9.8   | 2.8    | 0.4     | 0.0     | 0.1     | 0.0  |
| A Circuit               | 03/02/04 | 1,050                  | 320                   | 24                        | 0.1                    | 0.1  | 36.2  | 44.4  | 17.5  | 1.5   | 0.3    | 0.0     | 0.0     | 0.0     | 0.0  |
| A Circuit               | 12/15/04 | 3,680                  | 1,120                 | 34                        | 0.5                    | 0.2  | 35.0  | 42.3  | 17.6  | 4.4   | 0.4    | 0.1     | 0.0     | 0.0     | 0.0  |
| A Circuit               | 12/22/04 | 660                    | 201                   | 81                        | 0.2                    | 18.6 | 43.0  | 31.1  | 6.3   | 0.5   | 0.2    | 0.0     | 0.3     | 0.0     | 0.0  |
| A Circuit               | 07/15/05 | 4,850                  | 1,476                 | 37                        | 0.7                    | 6.0  | 35.4  | 31.7  | 20.5  | 5.3   | 1.0    | 0.1     | 0.0     | 0.0     | 0.0  |
| A Circuit               | 05/10/06 | 8,800                  | 2,678                 | 40                        | 1.3                    | 21.2 | 31.1  | 30.0  | 14.4  | 2.6   | 0.4    | 0.3     | 0.0     | 0.0     | 0.0  |
| A Circuit               | 09/13/06 | 9,340                  | 2,842                 | 52                        | 1.8                    | 31.5 | 30.5  | 26.5  | 10.4  | 1.1   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
| A Circuit               | 06/22/07 | 1,020                  | 310                   | 90                        | 0.3                    | 3.2  | 15.7  | 26.6  | 34.4  | 12.1  | 3.7    | 4.3     | 0.0     | 0.0     | 0.0  |
| A Circuit               | 07/02/08 | 344                    | 105                   | 86                        | 0.1                    | 5.9  | 28.8  | 35.7  | 24.5  | 2.1   | 0.4    | 2.6     | 0.0     | 0.0     | 0.0  |
| Duplicate (Circuit A-D) | 07/02/08 | 388                    | 118                   | 86                        | 0.1                    | 5.4  | 27.2  | 45.7  | 17.3  | 1.7   | 0.2    | 2.4     | 0.0     | 0.0     | 0.1  |
| A Circuit               | 10/06/09 | 1,460                  | 444                   | 86                        | 0.5                    | --   | 12.0  | 41.5  | 37.2  | 3.4   | 5.0    | 0.1     | 0.1     | 0.1     | 0.6  |
| A Circuit               | 08/10/11 | 2,000                  | 609                   | 47                        | 0.4                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| A Circuit               | 07/03/12 | 610                    | 186                   |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit A               | 10/05/12 | 530                    | 161                   |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit A Outside Bldg  | 10/05/12 | 620                    | 189                   |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit A               | 10/21/12 | 704                    | 214                   |                           | 0.0                    | --   | 10.8  | 41.5  | 30.0  | 13.1  | 3.2    | 1.0     | 0.3     | 0.1     | 0.0  |
|                         |          |                        |                       |                           |                        |      |       |       |       |       |        |         |         |         |      |
| B Circuit               | 07/27/03 | 7,640                  | 2,325                 | 110                       | 3.1                    | 0.2  | 34.6  | 20.4  | 33.3  | 8.0   | 2.5    | 0.7     | 0.3     | 0.0     | 0.0  |
| B Circuit               | 03/02/04 | 9,420                  | 2,867                 | 80                        | 2.8                    | 0.1  | 40.2  | 40.4  | 18.1  | 1.2   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
| B Circuit               | 12/15/04 | 6,380                  | 1,941                 | 90                        | 2.2                    | 0.1  | 33.1  | 50.3  | 14.2  | 2.2   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
| B Circuit               | 12/22/04 | 4,990                  | 1,518                 | 73                        | 1.4                    | 0.3  | 40.8  | 39.7  | 18.1  | 1.1   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
| B Circuit               | 07/15/05 | 28,900                 | 8,794                 | 94                        | 10.2                   | 16.9 | 48.5  | 22.4  | 10.8  | 1.3   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
| B Circuit               | 05/10/06 | 8,470                  | 2,577                 | 99                        | 3.2                    | 12.2 | 33.7  | 39.0  | 12.2  | 2.2   | 0.1    | 0.6     | 0.0     | 0.0     | 0.0  |
| B Circuit               | 09/13/06 | 6,320                  | 1,923                 | 104                       | 2.5                    | 34.2 | 29.1  | 23.9  | 11.5  | 1.3   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
| B Circuit               | 06/22/07 | 6,690                  | 2,036                 | 73                        | 1.8                    | 8.2  | 29.0  | 34.2  | 22.1  | 5.1   | 0.7    | 0.7     | 0.0     | 0.0     | 0.0  |
| B Circuit               | 07/02/08 | 21.8                   | 7                     | 78                        | 0.0                    | 3.2  | 6.1   | 32.5  | 38.3  | 11.1  | 3.1    | 5.6     | 0.1     | 0.0     | 0.0  |
| B Circuit               | 10/06/09 | 3,390                  | 1,032                 | 78                        | 1.0                    | --   | 19.6  | 49.7  | 27.0  | 3.2   | 0.5    | 0.0     | 0.0     | 0.0     | 0.0  |
| B Circuit               | 08/10/11 | 8,100                  | 2,465                 | 53                        | 1.6                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| B Circuit               | 07/03/12 | 5,700                  | 1,735                 |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit B               | 10/05/12 | 4,100                  | 1,248                 |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit B Outside Bldg  | 10/05/12 | 5,000                  | 1,522                 |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit B               | 10/22/12 | 5,080                  | 1,546                 |                           | 0.0                    | --   | 16.4  | 41.6  | 31.6  | 6.6   | 2.9    | 0.7     | 0.2     | 0.0     | 0.0  |
|                         |          |                        |                       |                           |                        |      |       |       |       |       |        |         |         |         |      |

**Table 8. Summary of Vapor Sample Analyses for the SVE System  
Compressor Station No. 9 - Roswell, NM**

| Sample ID            | Date     | Gasoline<br>Range VOCs |                       | Estimated<br>Process Flow | Potential<br>Emissions | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|----------------------|----------|------------------------|-----------------------|---------------------------|------------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|                      |          | (ug/L)                 | (ppmv) <sup>(a)</sup> | (scfm)                    | (lb/hr)                | (%)  |       |       |       |       |        |         |         |         |      |
| C Circuit            | 08/18/03 | 1,250                  | 380                   | 130                       | 0.6                    | 0.0  | 37.5  | 35.6  | 22.5  | 3.9   | 0.5    | 0.0     | 0.0     | 0.0     | 0.0  |
| C Circuit            | 03/02/04 | 7,890                  | 2,401                 | 64                        | 1.9                    | 0.1  | 25.4  | 39.2  | 30.1  | 4.7   | 0.5    | 0.0     | 0.0     | 0.0     | 0.0  |
| C Circuit            | 12/15/04 | 857                    | 261                   | 90                        | 0.3                    | 5.7  | 49.5  | 41.5  | 2.1   | 0.4   | 0.2    | 0.5     | 0.0     | 0.1     | 0.0  |
| C Circuit            | 12/22/04 | 2,770                  | 843                   | 59                        | 0.6                    | 3    | 22.5  | 37.1  | 32.2  | 4.6   | 0.3    | 0.0     | 0.1     | 0.0     | 0.0  |
| C Circuit            | 07/15/05 | 1,390                  | 423                   | 75                        | 0.4                    | 11   | 40.1  | 26.0  | 19.4  | 1.6   | 0.2    | 1.6     | 0.0     | 0.0     | 0.0  |
| C Circuit            | 05/10/06 | 1,400                  | 426                   | 80                        | 0.4                    | 20   | 14.1  | 43.9  | 17.5  | 1.3   | 0.0    | 3.1     | 0.0     | 0.0     | 0.0  |
| C Circuit            | 09/13/06 | 180                    | 55                    | 73                        | 0.0                    | 27   | 34.0  | 25.2  | 13.7  | 0.3   | 0.1    | 0.1     | 0.0     | 0.0     | 0.0  |
| C Circuit            | 06/22/07 | 1,600                  | 487                   | 65                        | 0.4                    | 9.4  | 31.8  | 34.9  | 20.3  | 3.3   | 0.3    | 0.0     | 0.0     | 0.0     | 0.0  |
| C Circuit            | 07/02/08 | 2,070                  | 630                   | 62                        | 0.5                    | 5.6  | 24.6  | 38.2  | 28.4  | 2.6   | 0.1    | 0.5     | 0.0     | 0.0     | 0.0  |
| C Circuit            | 10/06/09 | 9,140                  | 2,781                 | 62                        | 2.1                    | --   | 20.3  | 53.4  | 24.2  | 1.2   | 0.9    | 0.0     | 0.0     | 0.0     | 0.0  |
| Duplicate (MPE30-37) | 10/06/09 | 9,910                  | 3,016                 | 62                        | 2.3                    | --   | 20.5  | 56.4  | 20.0  | 1.5   | 1.6    | 0.0     | 0.0     | 0.0     | 0.0  |
| C Circuit            | 08/10/11 | 20,000                 | 6,086                 | 47                        | 3.5                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| C Circuit            | 07/03/12 | 6,900                  | 2,100                 |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit C            | 10/05/12 | 3,100                  | 943                   |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit C            | 10/22/12 | 1,210                  | 368                   |                           | 0.0                    | --   | 15.7  | 45.6  | 24.6  | 5.5   | 8.5    | 0.1     | 0.0     | 0.0     | 0.0  |
| D Circuit            | 08/25/03 | 2,380                  | 724                   | 119                       | 1.1                    | 0.0  | 49.6  | 35.7  | 13.4  | 1.0   | 0.1    | 0.0     | 0.0     | 0.1     | 0.1  |
| D Circuit            | 03/02/04 | 52,600                 | 16,006                | 64                        | 12.7                   | 0.0  | 32.1  | 47.8  | 18.8  | 1.2   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
| D Circuit            | 12/15/04 | 14,400                 | 4,382                 | 90                        | 4.9                    | 0.1  | 34.3  | 53.7  | 11.0  | 0.9   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
| D Circuit            | 12/22/04 | 13,600                 | 4,138                 | 59                        | 3.0                    | 0.1  | 35.7  | 45.3  | 17.9  | 1.0   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
| D Circuit            | 07/15/05 | 10,900                 | 3,317                 | 75                        | 3.1                    | 11.3 | 39.9  | 26.6  | 19.4  | 2.4   | 0.2    | 0.1     | 0.0     | 0.1     | 0.0  |
| D Circuit            | 05/10/06 | 28,100                 | 8,551                 | 80                        | 8.4                    | 22.3 | 33.9  | 22.3  | 18.7  | 2.5   | 0.0    | 0.3     | 0.0     | 0.0     | 0.0  |
| D Circuit            | 09/13/06 | 17,600                 | 5,356                 | 83                        | 5.5                    | 31.9 | 38.0  | 24.7  | 5.4   | 0.0   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
| D Circuit            | 06/22/07 | 13,100                 | 3,986                 | 65                        | 3.2                    | 6.8  | 25.0  | 33.5  | 26.3  | 6.8   | 0.8    | 0.8     | 0.0     | 0.0     | 0.0  |
| D Circuit            | 07/02/08 | 6,460                  | 1,966                 | 70                        | 1.7                    | 10.6 | 37.8  | 38.1  | 11.1  | 0.6   | 0.1    | 1.6     | 0.0     | 0.0     | 0.1  |
| D Circuit            | 10/06/09 | 11,000                 | 3,347                 | 62                        | 2.6                    | --   | 23.7  | 53.2  | 21.3  | 1.1   | 0.7    | 0.0     | 0.0     | 0.0     | 0.0  |
| D Circuit            | 08/10/11 | 24,000                 | 7,303                 | 47                        | 4.2                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| D Circuit            | 07/03/12 | 5,800                  | 1,765                 |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit D            | 10/05/12 | 3,600                  | 1,095                 |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit D            | 10/22/12 | 4,800                  | 1,461                 |                           | 0.0                    | --   | 19.7  | 51.3  | 20.9  | 5.2   | 2.8    | 0.1     | 0.0     | 0.0     | 0.0  |

**Table 8. Summary of Vapor Sample Analyses for the SVE System  
Compressor Station No. 9 - Roswell, NM**

| Sample ID       | Date     | Gasoline<br>Range VOCs |                       | Estimated<br>Process Flow | Potential<br>Emissions | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------------|----------|------------------------|-----------------------|---------------------------|------------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|                 |          | (ug/L)                 | (ppmv) <sup>(a)</sup> | (scfm)                    | (lb/hr)                | (%)  |       |       |       |       |        |         |         |         |      |
| Shallow Circuit | 03/02/04 | 1,200                  | 365                   | 48                        | 0.2                    | 0.3  | 13.5  | 32.7  | 40.9  | 11.3  | 1.3    | 0.0     | 0.0     | 0.0     | 0.0  |
| Shallow Circuit | 12/15/04 | 3,630                  | 1,105                 | 68                        | 0.9                    | 0.7  | 17.1  | 44.2  | 28.2  | 6.8   | 0.8    | 1.3     | 0.7     | 0.2     | 0.0  |
| Shallow Circuit | 12/22/04 | 584                    | 178                   | 66                        | 0.1                    | 2.3  | 14.2  | 35.9  | 36.7  | 7.7   | 0.7    | 0.4     | 0.8     | 0.6     | 0.7  |
| Shallow Circuit | 07/15/05 | 336                    | 102                   | 56                        | 0.1                    | 1.5  | 20.0  | 20.8  | 39.1  | 13.7  | 4.2    | 0.6     | 0.0     | 0.0     | 0.1  |
| Shallow Circuit | 05/10/06 | 1,260                  | 383                   | 60                        | 0.3                    | 4.6  | 6.3   | 28.5  | 48.1  | 9.7   | 1.4    | 1.4     | 0.0     | 0.0     | 0.0  |
| Shallow Circuit | 09/13/06 | 4,450                  | 1,354                 | 63                        | 1.0                    | 6.9  | 23.3  | 43.2  | 24.4  | 2.2   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
| Shallow Circuit | 06/22/07 | 1,030                  | 313                   | 73                        | 0.3                    | 0.9  | 7.3   | 22.6  | 39.7  | 18.2  | 5.6    | 5.2     | 0.5     | 0.0     | 0.0  |
| Shallow Circuit | 07/02/08 | 31.2                   | 9                     | 47                        | 0.0                    | 1.3  | 10.9  | 35.3  | 34.2  | 11.0  | 3.1    | 4.0     | 0.2     | 0.0     | 0.0  |
| Shallow Circuit | 10/06/09 | 1,100                  | 335                   | 70                        | 0.3                    | --   | 8.8   | 40.9  | 41.4  | 4.9   | 3.7    | 0.1     | 0.1     | 0.0     | 0.1  |
| Shallow Circuit | 08/10/11 | 15                     | 5                     | 53                        | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Shallow Circuit | 07/03/12 | 37                     | 11                    |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit Shallow | 10/05/12 | 36                     | 11                    |                           | 0.0                    | --   | --    | --    | --    | --    | --     | --      | --      | --      | --   |
| Circuit Shallow | 10/22/12 | 25                     | 7                     |                           | 0.0                    | --   | 4.7   | 27.5  | 33.8  | 19.3  | 12.3   | 1.5     | 0.5     | 0.4     | 0.0  |
|                 |          |                        |                       |                           |                        |      |       |       |       |       |        |         |         |         |      |

(a) Conversion Factor:  
P = 1.00 atm, MW = 79 g/mole, R = 0.08205 L\*atm/(K\*mole), T = 293°K  
C ppmv = C ug/L \* ((R \* T)/(MW\*P))  
C ppmv = C ug/L \* 0.3043



**Table 8b. SVE System Potential Emissions Estimate for  
Total Non-Methane Hydrocarbons  
Roswell Station Remediation Site**

|          | West Unit                |                      |                                    |                                | East Unit                |                      |                                    |                                | Total                |                                    |                                |                               |
|----------|--------------------------|----------------------|------------------------------------|--------------------------------|--------------------------|----------------------|------------------------------------|--------------------------------|----------------------|------------------------------------|--------------------------------|-------------------------------|
| Date     | Total<br>NMHC<br>C(ug/L) | Flow Rate<br>Q(scfm) | Potential<br>Emissions<br>M(lb/hr) | Projected<br>TPY<br>M(tons/yr) | Total<br>NMHC<br>C(ug/L) | Flow Rate<br>Q(scfm) | Potential<br>Emissions<br>M(lb/hr) | Projected<br>TPY<br>M(tons/yr) | Flow Rate<br>Q(scfm) | Potential<br>Emissions<br>M(lb/hr) | Projected<br>TPY<br>M(tons/yr) | Projected<br>GPY<br>M(gal/yr) |
| 05/21/03 | 3220                     | 128                  | 1.5                                | 6.8                            | 1850                     | 175                  | 1.2                                | 5.3                            | 303                  | 2.8                                | 12.1                           | 3810                          |
| 06/04/03 | 3660                     | 127                  | 1.7                                | 7.6                            | 3450                     | 142                  | 1.8                                | 8.0                            | 269                  | 3.6                                | 15.7                           | 4942                          |
| 12/15/04 | 979                      | 157                  | 0.6                                | 2.5                            | 2800                     | 215                  | 2.3                                | 9.9                            | 372                  | 2.8                                | 12.4                           | 3912                          |
| 07/15/05 | 2120                     | 153                  | 1.2                                | 5.3                            | 4140                     | 184                  | 2.9                                | 12.5                           | 337                  | 4.1                                | 17.8                           | 5622                          |
| 05/01/06 | 2200                     | 160                  | 1.3                                | 5.8                            | 4470                     | 198                  | 3.3                                | 14.5                           | 358                  | 4.6                                | 20.3                           | 6404                          |
| 09/13/06 | 990                      | 165                  | 0.6                                | 2.7                            | 3140                     | 210                  | 2.5                                | 10.8                           | 375                  | 3.1                                | 13.5                           | 4259                          |
| 06/22/07 | 826                      | 161                  | 0.5                                | 2.2                            | 1300                     | 206                  | 1.0                                | 4.4                            | 367                  | 1.5                                | 6.6                            | 2075                          |
| 07/02/08 | 728                      | 150                  | 0.4                                | 1.8                            | 1420                     | 193                  | 1.0                                | 4.5                            | 343                  | 1.4                                | 6.3                            | 1984                          |
| 11/05/08 | 5840                     | 140                  | 3.1                                | 13.4                           | 4580                     | 177                  | 3.0                                | 13.3                           | 317                  | 6.1                                | 26.7                           | 8429                          |
| 10/06/09 | 1770                     | 142                  | 0.9                                | 4.1                            | 2010                     | 216                  | 1.6                                | 7.1                            | 358                  | 2.6                                | 11.2                           | 3549                          |
| 08/10/11 | 3200                     | 147                  | 1.8                                | 7.7                            | 2200                     | 147                  | 1.2                                | 5.3                            | 294                  | 3.0                                | 13.0                           | 4109                          |
| 07/03/12 | 3700                     | 162                  | 2.2                                | 9.8                            | 2100                     | 159                  | 1.3                                | 5.5                            | 321                  | 3.5                                | 15.3                           | 4831                          |
| 10/05/12 | 1400                     | 162                  | 0.8                                | 3.7                            | 1200                     | 159                  | 0.7                                | 3.1                            | 321                  | 1.6                                | 6.9                            | 2162                          |
| 10/22/12 | 1670                     | 162                  | 1.0                                | 4.4                            | 1780                     | 160                  | 1.1                                | 4.7                            | 322                  | 2.1                                | 9.1                            | 2875                          |

Notes:

1) Concentrations based on Hall Lab analysis of SVE system samples

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-1     | 08/03/03 | 3.3          | 5                      | 2                     | 0.0  | 0.0   | 0.9   | 5.4   | 23.4  | 36.1   | 26.5    | 6.4     | 1.3     | 0.0  |
|           | 12/22/04 | --           | 461                    | 140                   | 0.3  | 7.9   | 25.3  | 45.6  | 16.0  | 4.0    | 0.0     | 0.7     | 0.2     | 0.0  |
|           | 05/10/06 | --           | 265                    | 81                    | 4.3  | 11.1  | 27.4  | 31.4  | 15.3  | 7.3    | 3.0     | 0.1     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 193                    | 59                    | 0.7  | 5.8   | 21.4  | 40.7  | 23.5  | 7.3    | 0.6     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 192                    | 58                    | 2.7  | 5.8   | 32.0  | 36.3  | 13.5  | 4.4    | 5.3     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 137                    | 42                    | --   | 6.6   | 35.2  | 41.7  | 10.4  | 5.5    | 0.5     | 0.1     | 0.0     | 0.0  |
|           | 10/21/12 | --           | 13.4                   | 4                     | --   | 1.7   | 15.4  | 33.6  | 16.2  | 24.4   | 5.8     | 1.7     | 1.2     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-2     | 08/03/03 | 3.1          | 9                      | 3                     | 0.0  | 0.0   | 0.7   | 5.1   | 20.1  | 29.0   | 19.6    | 4.9     | 17.8    | 2.8  |
|           | 12/22/04 | --           | 506                    | 154                   | 0.4  | 7.7   | 25.3  | 46.1  | 16.2  | 3.8    | 0.0     | 0.5     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 351                    | 107                   | 4.6  | 12.0  | 28.2  | 31.3  | 15.0  | 6.2    | 2.6     | 0.0     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 163                    | 50                    | 0.8  | 6.9   | 23.4  | 40.8  | 20.8  | 6.8    | 0.5     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 192                    | 58                    | 1.1  | 7.3   | 32.3  | 33.7  | 13.8  | 8.1    | 3.7     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 0                      | 0                     | --   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 10/21/12 | --           | 35.5                   | 11                    | --   | 1.2   | 14.2  | 27.7  | 20.7  | 20.8   | 10.0    | 4.2     | 1.2     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-3     | 08/03/03 | 3.4          | 7                      | 2                     | 0.0  | 1.7   | 9.1   | 16.4  | 23.9  | 32.4   | 15.9    | 0.6     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 564                    | 172                   | 0.5  | 7.9   | 25.7  | 45.8  | 16.0  | 3.6    | 0.0     | 0.4     | 0.1     | 0.0  |
|           | 05/10/06 | --           | 341                    | 104                   | 3.4  | 9.3   | 22.7  | 25.4  | 12.0  | 5.6    | 21.5    | 0.0     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 178                    | 54                    | 0.9  | 7.0   | 23.2  | 39.8  | 21.0  | 7.4    | 0.7     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 241                    | 73                    | 1.1  | 7.7   | 33.8  | 33.8  | 12.9  | 7.2    | 2.8     | 0.3     | 0.4     | 0.0  |
|           | 10/06/09 | --           | 197                    | 60                    | --   | 21.1  | 52.0  | 22.8  | 3.0   | 1.0    | 0.1     | 0.0     | 0.0     | 0.0  |
|           | 10/21/12 | --           | 15.0                   | 5                     | --   | 3.2   | 21.2  | 38.9  | 14.9  | 13.7   | 4.6     | 2.6     | 0.9     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-4     | 08/03/03 | 3.2          | 16                     | 5                     | 0.0  | 2.6   | 17.7  | 21.3  | 26.7  | 21.3   | 9.9     | 0.3     | 0.2     | 0.0  |
|           | 12/22/04 | --           | 620                    | 189                   | 0.5  | 8.4   | 26.3  | 41.7  | 18.9  | 3.5    | 0.3     | 0.4     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 412                    | 125                   | 5.1  | 11.2  | 26.9  | 31.7  | 14.8  | 6.8    | 3.4     | 0.0     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 190                    | 58                    | 0.8  | 7.2   | 23.8  | 40.1  | 20.7  | 6.8    | 0.6     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 245                    | 75                    | 1.1  | 7.9   | 34.3  | 33.6  | 13.7  | 6.7    | 2.7     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 29.5                   | 9                     | --   | 9.2   | 39.3  | 39.4  | 7.4   | 4.1    | 0.5     | 0.1     | 0.0     | 0.0  |
|           | 10/21/12 | --           | 16.7                   | 5                     | --   | 2.6   | 17.9  | 35.3  | 14.1  | 18.6   | 6.0     | 3.6     | 1.9     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-5     | 08/03/03 | 3.6          | 9                      | 3                     | 0.0  | 0.6   | 5.8   | 17.9  | 33.1  | 30.5   | 11.9    | 0.2     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 536                    | 163                   | 0.8  | 8.2   | 26.0  | 49.4  | 12.2  | 2.6    | 0.0     | 0.7     | 0.1     | 0.0  |
|           | 05/10/06 | --           | 438                    | 133                   | 6.0  | 11.5  | 27.3  | 31.1  | 13.9  | 6.4    | 3.6     | 0.0     | 0.2     | 0.0  |
|           | 06/22/07 | --           | 226                    | 69                    | 0.8  | 7.2   | 23.7  | 39.8  | 20.9  | 6.9    | 0.7     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 287                    | 87                    | 1.3  | 8.8   | 27.0  | 36.7  | 15.2  | 7.8    | 2.7     | 0.0     | 0.5     | 0.0  |
|           | 10/06/09 | --           | 17.1                   | 5                     | --   | 7.4   | 33.3  | 43.7  | 7.7   | 6.9    | 0.7     | 0.2     | 0.1     | 0.0  |
|           | 10/21/12 | --           | 18.5                   | 6                     | --   | 3.4   | 22.0  | 42.0  | 15.7  | 10.7   | 4.0     | 1.7     | 0.4     | 0.1  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-6     | 08/03/03 | 3.9          | 8                      | 3                     | 0.0  | 0.0   | 2.1   | 12.8  | 29.7  | 35.3   | 19.8    | 0.3     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 639                    | 194                   | 1.0  | 9.1   | 26.9  | 48.2  | 12.0  | 2.1    | 0.0     | 0.6     | 0.1     | 0.0  |
|           | 05/10/06 | --           | 482                    | 147                   | 4.9  | 11.9  | 28.1  | 31.8  | 14.4  | 6.2    | 2.6     | 0.0     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 249                    | 76                    | 1.0  | 7.8   | 24.9  | 40.5  | 20.3  | 5.1    | 0.4     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 321                    | 98                    | 1.0  | 7.1   | 36.4  | 38.2  | 11.7  | 3.7    | 1.9     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 12.4                   | 4                     | --   | 7.5   | 30.3  | 44.4  | 8.0   | 8.3    | 1.0     | 0.2     | 0.1     | 0.2  |
|           | 10/21/12 | --           | 14.9                   | 5                     | --   | 3.0   | 20.0  | 41.5  | 15.1  | 14.2   | 4.5     | 1.0     | 0.6     | 0.1  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-7     | 08/03/03 | 7.2          | 107                    | 33                    | 0.0  | 47.4  | 22.0  | 17.8  | 5.6   | 2.8    | 1.7     | 0.7     | 2.0     | 0.0  |
|           | 12/22/04 | --           | 727                    | 221                   | 0.9  | 8.6   | 25.5  | 44.2  | 11.2  | 9.1    | 0.0     | 0.5     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 646                    | 197                   | 4.6  | 12.4  | 28.8  | 31.6  | 14.5  | 6.0    | 2.0     | 0.0     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 348                    | 106                   | 1.0  | 7.7   | 24.6  | 41.5  | 20.2  | 4.7    | 0.3     | 0.0     | 0.0     | 0    |
|           | 07/02/08 | --           | 904                    | 275                   | 1.2  | 10.1  | 36.1  | 36.1  | 10.9  | 4.4    | 1.2     | 0.0     | 0.0     | 0    |
|           | 10/06/09 | --           | 26.4                   | 8                     | --   | 20.2  | 34.3  | 34.4  | 5.4   | 4.9    | 0.6     | 0.1     | 0.1     | 0    |
|           | 10/21/12 | --           | 27.8                   | 8                     | --   | 2.9   | 18.7  | 40.6  | 13.8  | 18.2   | 3.8     | 1.5     | 0.5     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-8     | 08/03/03 | 5.1          | 34                     | 10                    | 0.0  | 9.5   | 17.4  | 34.1  | 19.5  | 9.4    | 4.8     | 1.6     | 3.7     | 0.0  |
|           | 12/22/04 | --           | 811                    | 247                   | 1.3  | 10.6  | 29.2  | 46.1  | 10.8  | 1.5    | 0.0     | 0.5     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 880                    | 268                   | 6.2  | 14.4  | 30.2  | 30.4  | 12.8  | 4.4    | 1.5     | 0.0     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 532                    | 162                   | 1.0  | 8.5   | 26.2  | 41.7  | 19.0  | 3.5    | 0.1     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 644                    | 196                   | 1.1  | 9.9   | 44.3  | 33.2  | 8.6   | 1.5    | 1.4     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 18.2                   | 6                     | --   | 12.2  | 39.3  | 36.2  | 5.8   | 5.8    | 0.6     | 0.1     | 0.0     | 0.0  |
|           | 10/21/12 | --           | 34.9                   | 11                    | --   | 2.4   | 18.9  | 42.2  | 16.8  | 14.3   | 4.3     | 0.8     | 0.3     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-9     | 08/03/03 | 23.9         | 260                    | 79                    | 0.0  | 55.0  | 26.1  | 14.5  | 2.8   | 1.1    | 0.5     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 1,590                  | 484                   | 2.8  | 24.3  | 31.9  | 32.2  | 7.3   | 1.1    | 0.0     | 0.3     | 0.1     | 0.0  |
|           | 05/10/06 | --           | 3,830                  | 1,165                 | 14.1 | 26.3  | 32.4  | 20.0  | 5.3   | 1.1    | 0.8     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 1,490                  | 453                   | 2.1  | 13.6  | 30.2  | 40.5  | 12.2  | 1.4    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 1,550                  | 472                   | 1.6  | 10.4  | 42.4  | 35.3  | 6.3   | 0.7    | 3.3     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 7.4                    | 2                     | --   | 8.3   | 20.8  | 43.2  | 10.7  | 14.5   | 2.0     | 0.3     | 0.2     | 0.0  |
|           | 10/21/12 | --           | 861                    | 262                   | --   | 9.6   | 32.0  | 34.8  | 12.6  | 8.7    | 1.9     | 0.3     | 0.1     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID    | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|--------------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|              |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-10       | 08/03/03 | 8.6          | 68                     | 21                    | 0.0  | 28.4  | 29.8  | 24.3  | 10.0  | 5.3    | 2.2     | 0.0     | 0.0     | 0.0  |
|              | 12/22/04 | --           | 1,140                  | 347                   | 0.1  | 10.5  | 30.4  | 43.5  | 13.4  | 2.0    | 0.0     | 0.1     | 0.0     | 0.0  |
|              | 05/10/06 | --           | 7,560                  | 2,301                 | 30.3 | 33.0  | 24.6  | 9.6   | 1.6   | 0.2    | 0.7     | 0.0     | 0.0     | 0.0  |
|              | 06/22/07 | --           | 7,840                  | 2,386                 | 8.3  | 31.4  | 34.4  | 22.7  | 3.1   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|              | 07/02/08 | --           | 9,370                  | 2,851                 | 7.6  | 36.2  | 41.6  | 12.8  | 1.2   | 0.0    | 0.6     | 0.0     | 0.0     | 0.0  |
|              | 10/06/09 | --           | 1,650                  | 502                   | --   | 18.6  | 56.5  | 22.0  | 2.0   | 0.9    | 0.0     | 0.0     | 0.0     | 0.0  |
|              | 10/21/12 | --           | 9,660                  | 2,940                 | --   | 10.4  | 43.0  | 39.3  | 5.0   | 2.1    | 0.2     | 0.0     | 0.0     | 0.0  |
|              |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-11       | 08/03/03 | 5.3          | 29                     | 9                     | 0.0  | 15.4  | 26.5  | 27.1  | 14.8  | 10.7   | 5.1     | 0.1     | 0.3     | 0.0  |
|              | 12/22/04 | --           | 1,400                  | 426                   | 0.3  | 9.8   | 30.7  | 46.1  | 11.2  | 1.6    | 0.0     | 0.2     | 0.1     | 0.0  |
|              | 05/10/06 | --           | 1,000                  | 304                   | 5.6  | 12.3  | 29.3  | 32.6  | 13.0  | 4.5    | 2.6     | 0.0     | 0.1     | 0.0  |
|              | 06/22/07 | --           | 508                    | 155                   | 1.0  | 8.4   | 27.2  | 42.9  | 17.3  | 3.2    | 0.0     | 0.0     | 0.0     | 0.0  |
|              | 07/02/08 | --           | 650                    | 198                   | 8.5  | 25.1  | 32.3  | 25.5  | 6.0   | 0.9    | 1.6     | 0.0     | 0.0     | 0.1  |
|              | 10/06/09 | --           | 150                    | 46                    | --   | 9.5   | 36.4  | 43.8  | 5.8   | 4.2    | 0.3     | 0.0     | 0.0     | 0.0  |
|              | 10/21/12 | --           | 1,020                  | 310                   | --   | 21.8  | 51.0  | 22.6  | 2.6   | 1.8    | 0.2     | 0.0     | 0.0     | 0.0  |
|              |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-12       | 08/03/03 | 130.6        | 5,600                  | 1,704                 | 0.0  | 35.0  | 38.7  | 22.4  | 3.5   | 0.4    | 0.0     | 0.0     | 0.0     | 0.0  |
|              | 12/22/04 | --           | 1,940                  | 590                   | 0.3  | 12.1  | 35.1  | 43.2  | 8.1   | 1.0    | 0.0     | 0.2     | 0.0     | 0.0  |
|              | 05/10/06 | --           | 18,800                 | 5,721                 | 7.9  | 29.2  | 36.8  | 23.1  | 2.2   | 0.2    | 0.6     | 0.0     | 0.0     | 0.0  |
|              | 06/22/07 | --           | 13,800                 | 4,199                 | 4.4  | 19.9  | 35.2  | 32.0  | 7.8   | 0.7    | 0.0     | 0.0     | 0.0     | 0.0  |
|              | 07/02/08 | --           | 11,300                 | 3,439                 | 4.9  | 13.7  | 41.4  | 32.0  | 5.6   | 0.4    | 2.0     | 0.0     | 0.0     | 0.0  |
| (Dup MPE-66) | 07/02/08 | --           | 11,600                 | 3,530                 | 5.1  | 22.0  | 38.0  | 28.1  | 5.5   | 0.4    | 0.9     | 0.0     | 0.0     | 0.0  |
|              | 10/06/09 | --           | 1,660                  | 505                   | --   | 18.7  | 52.1  | 24.9  | 3.7   | 0.6    | 0.0     | 0.0     | 0.0     | 0.0  |
|              | 10/22/12 | --           | 2,270                  | 691                   | --   | 13.4  | 43.7  | 26.9  | 11.5  | 4.2    | 0.3     | 0.0     | 0.0     | 0.0  |
|              |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-13       | 08/03/03 | 156.9        | 7,290                  | 2,218                 | 0.0  | 16.6  | 61.3  | 18.9  | 2.9   | 0.3    | 0.0     | 0.0     | 0.0     | 0.0  |
|              | 12/22/04 | --           | 4,930                  | 1,500                 | 0.0  | 24.9  | 42.5  | 27.9  | 4.1   | 0.5    | 0.0     | 0.1     | 0.0     | 0.0  |
|              | 05/10/06 | --           | 10,800                 | 3,286                 | 21.4 | 26.6  | 31.3  | 16.6  | 2.9   | 0.7    | 0.5     | 0.0     | 0.0     | 0.0  |
|              | 07/02/08 | --           | 1,500                  | 456                   | 5.5  | 14.9  | 34.5  | 33.1  | 8.0   | 1.1    | 2.9     | 0.0     | 0.0     | 0.0  |
|              | 10/06/09 | --           | 2,990                  | 910                   | --   | 16.6  | 50.0  | 29.2  | 3.3   | 0.9    | 0.0     | 0.0     | 0.0     | 0.0  |
|              | 10/22/12 | --           | 2,470                  | 752                   | --   | 11.6  | 33.1  | 34.4  | 13.7  | 6.8    | 0.4     | 0.0     | 0.0     | 0.0  |
|              |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-14    | 08/03/03 | 162.7        | 8,480                  | 2,580                 | 0.0  | 48.6  | 29.0  | 19.2  | 2.7   | 0.3    | 0.1     | 0.0     | 0.1     | 0.0  |
|           | 12/22/04 | --           | 4,770                  | 1,452                 | 0.1  | 28.5  | 41.7  | 25.4  | 3.8   | 0.4    | 0.0     | 0.1     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 14,200                 | 4,321                 | 35.8 | 25.5  | 22.8  | 12.5  | 2.5   | 0.5    | 0.4     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 12,800                 | 3,895                 | 7.2  | 31.0  | 37.2  | 20.4  | 3.8   | 0.4    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 7,240                  | 2,203                 | 5.7  | 26.5  | 42.0  | 21.3  | 2.7   | 0.4    | 1.4     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 18,500                 | 5,630                 | --   | 23.3  | 56.6  | 18.3  | 1.2   | 0.6    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 10/22/12 | --           | 12,700                 | 3,865                 | --   | 15.4  | 47.2  | 28.2  | 7.5   | 1.6    | 0.1     | 0.0     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-15    | 08/03/03 | 106.3        | 1,700                  | 517                   | 0.0  | 21.6  | 32.9  | 34.0  | 9.7   | 1.8    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 1,920                  | 584                   | 0.4  | 11.7  | 33.9  | 43.5  | 9.3   | 1.1    | 0.0     | 0.1     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 1,570                  | 478                   | 5.9  | 13.3  | 29.4  | 31.7  | 13.3  | 4.5    | 1.9     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 1,850                  | 563                   | 3.1  | 14.8  | 29.4  | 34.3  | 15.2  | 3.2    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 1,000                  | 304                   | 1.2  | 8.5   | 39.7  | 33.6  | 12.7  | 3.3    | 1.0     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 2,360                  | 718                   | --   | 16.1  | 48.5  | 28.0  | 3.4   | 3.4    | 0.0     | 0.0     | 0.0     | 0.6  |
|           | 10/22/12 | --           | 156                    | 47                    | --   | 2.8   | 20.1  | 39.1  | 24.7  | 10.3   | 2.1     | 0.6     | 0.3     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-16    | 08/03/03 | 134.2        | 3,430                  | 1,044                 | 0.0  | 32.6  | 35.2  | 25.9  | 5.4   | 0.8    | 0.1     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 4,410                  | 1,342                 | 0.0  | 24.5  | 40.8  | 29.2  | 4.9   | 0.5    | 0.0     | 0.1     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 6,960                  | 2,118                 | 32.0 | 24.9  | 23.0  | 14.6  | 3.5   | 1.2    | 0.8     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 13,900                 | 4,230                 | 19.6 | 40.1  | 24.2  | 12.8  | 3.0   | 0.3    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 3,900                  | 1,187                 | 10.9 | 27.1  | 30.9  | 23.5  | 4.3   | 0.6    | 2.7     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 6,230                  | 1,896                 | --   | 25.2  | 53.5  | 18.4  | 1.5   | 1.4    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 10/22/12 | --           | 45,200                 | 13,754                | --   | 27.0  | 48.8  | 16.0  | 5.3   | 2.7    | 0.2     | 0.0     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-17    | 08/03/03 | 95.7         | 1,960                  | 596                   | 0.0  | 15.0  | 30.1  | 37.8  | 14.2  | 2.8    | 0.1     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 3,140                  | 956                   | 0.2  | 20.1  | 34.9  | 36.8  | 7.3   | 0.7    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 19,800                 | 6,025                 | 26.8 | 28.1  | 26.8  | 14.3  | 2.3   | 0.5    | 1.2     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 9,720                  | 2,958                 | 7.2  | 27.9  | 35.1  | 24.6  | 4.8   | 0.4    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 3,740                  | 1,138                 | 5.2  | 22.5  | 38.1  | 26.6  | 4.3   | 0.5    | 2.8     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 7,060                  | 2,148                 | --   | 15.5  | 47.8  | 30.0  | 5.3   | 1.4    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 10/22/12 | --           | 2,120                  | 645                   | --   | 15.0  | 41.4  | 26.1  | 10.1  | 6.9    | 0.5     | 0.0     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-18    | 08/03/03 | 65.7         | 971                    | 295                   | 0.0  | 10.2  | 25.6  | 37.7  | 20.5  | 5.6    | 0.4     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 4,380                  | 1,333                 | 0.1  | 13.8  | 37.7  | 41.2  | 6.7   | 0.5    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 1,930                  | 587                   | 6.4  | 14.1  | 31.3  | 32.0  | 9.4   | 4.0    | 2.7     | 0.0     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 2,350                  | 715                   | 1.6  | 12.1  | 31.6  | 37.9  | 14.6  | 2.2    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 1,620                  | 493                   | 1.6  | 8.3   | 41.0  | 36.4  | 8.2   | 1.4    | 3.1     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 1,750                  | 533                   | --   | 8.7   | 39.7  | 37.6  | 8.4   | 5.0    | 0.0     | 0.1     | 0.1     | 0.4  |
|           | 10/22/12 | --           | 132                    | 40                    | --   | 6.2   | 20.5  | 29.4  | 22.4  | 14.6   | 5.5     | 1.1     | 0.3     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-19    | 08/03/03 | 88.2         | 2,430                  | 739                   | 0.0  | 35.0  | 28.7  | 24.3  | 8.9   | 2.8    | 0.3     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 7,820                  | 2,380                 | 0.0  | 14.5  | 43.5  | 37.5  | 4.2   | 0.3    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 4,550                  | 1,385                 | 5.8  | 16.5  | 35.2  | 30.9  | 9.0   | 1.4    | 1.2     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 5,480                  | 1,668                 | 4.2  | 19.5  | 34.7  | 31.2  | 9.4   | 1.0    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 5,280                  | 1,607                 | 3.1  | 18.3  | 42.5  | 26.8  | 7.0   | 1.2    | 1.1     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 1,550                  | 472                   | --   | 11.3  | 41.1  | 34.7  | 7.6   | 5.0    | 0.0     | 0.1     | 0.1     | 0.1  |
|           | 10/22/12 | --           | 1,050                  | 320                   | --   | 10.9  | 35.8  | 38.9  | 10.3  | 3.3    | 0.6     | 0.2     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-20    | 08/03/03 | 132.8        | 19,800                 | 6,025                 | 0.0  | 55.2  | 27.5  | 14.6  | 2.2   | 0.3    | 0.2     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 23,300                 | 7,090                 | 0.0  | 34.8  | 43.9  | 20.1  | 1.2   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 33,300                 | 10,133                | 36.7 | 20.9  | 28.6  | 11.0  | 0.7   | 0.2    | 1.8     | 0.0     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 56,300                 | 17,132                | 9.8  | 34.5  | 35.9  | 17.2  | 2.5   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 49,600                 | 15,093                | 8.7  | 32.6  | 37.6  | 19.6  | 1.1   | 0.0    | 0.4     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 1,820                  | 554                   | --   | 15.3  | 44.1  | 29.3  | 5.8   | 4.6    | 0.0     | 0.1     | 0.1     | 0.7  |
|           | 10/22/12 | --           | 67,400                 | 20,510                | --   | 20.1  | 47.8  | 26.9  | 3.2   | 1.7    | 0.2     | 0.1     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-21    | 08/03/03 | 131.7        | 27,900                 | 8,490                 | 0.0  | 27.0  | 53.2  | 17.3  | 2.2   | 0.2    | 0.1     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 18,600                 | 5,660                 | 0.0  | 35.7  | 45.0  | 18.3  | 0.9   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 1,220                  | 371                   | 6.3  | 13.7  | 29.4  | 32.0  | 12.2  | 4.0    | 2.3     | 0.0     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 22,300                 | 6,786                 | 9.7  | 32.8  | 34.7  | 19.6  | 3.1   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 14,400                 | 4,382                 | 9.6  | 35.7  | 39.6  | 12.9  | 1.4   | 0.1    | 0.7     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 17,200                 | 5,234                 | --   | 21.2  | 53.3  | 22.1  | 2.3   | 1.0    | 0.0     | 0.0     | 0.0     | 0.1  |
|           | 10/22/12 | --           | 71,800                 | 21,849                | --   | 17.3  | 44.8  | 30.7  | 5.5   | 1.3    | 0.4     | 0.0     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-22    | 08/03/03 | 123.3        | 4,070                  | 1,239                 | 0.0  | 47.2  | 28.4  | 19.5  | 3.5   | 0.6    | 0.3     | 0.2     | 0.3     | 0.0  |
|           | 12/22/04 | --           | 3,770                  | 1,147                 | 30.9 | 49.0  | 18.8  | 1.2   | 0.1   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 3,100                  | 943                   | 23.6 | 27.4  | 21.7  | 23.3  | 2.6   | 0.6    | 0.8     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 3,990                  | 1,214                 | 11.1 | 33.4  | 32.5  | 20.3  | 2.6   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 5,530                  | 1,683                 | 5.8  | 23.2  | 43.3  | 21.7  | 4.6   | 0.5    | 0.9     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 4,430                  | 1,348                 | --   | 14.7  | 44.9  | 35.4  | 3.2   | 1.8    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 10/21/12 | --           | 5,790                  | 1,762                 | --   | 29.4  | 39.8  | 23.7  | 4.4   | 2.0    | 0.5     | 0.2     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-23    | 08/03/03 | 136.0        | 6,660                  | 2,027                 | 0.0  | 30.4  | 51.3  | 15.4  | 2.5   | 0.4    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 6,520                  | 1,984                 | 0.0  | 27.6  | 47.6  | 23.4  | 1.3   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 33,400                 | 10,164                | 15.3 | 39.4  | 30.1  | 13.1  | 1.7   | 0.1    | 0.3     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 1,000                  | 304                   | 11.7 | 34.8  | 31.4  | 19.4  | 2.6   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 14,000                 | 4,260                 | 16.4 | 43.8  | 26.9  | 11.0  | 1.1   | 0.0    | 0.8     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 6,320                  | 1,923                 | --   | 11.5  | 45.2  | 35.8  | 5.9   | 1.4    | 0.0     | 0.0     | 0.0     | 0.2  |
|           | 10/21/12 | --           | 7,000                  | 2,130                 | --   | 24.5  | 47.9  | 22.6  | 3.1   | 1.6    | 0.3     | 0.0     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-24    | 08/03/03 | 139.9        | 26,200                 | 7,973                 | 0.0  | 31.9  | 53.5  | 12.8  | 1.7   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 33,300                 | 10,133                | 0.0  | 33.1  | 45.7  | 20.4  | 0.8   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 47,200                 | 14,363                | 33.0 | 33.7  | 23.6  | 8.2   | 0.4   | 0.0    | 1.1     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 68,500                 | 20,845                | 8.3  | 31.4  | 37.2  | 20.0  | 3.0   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 42,200                 | 12,841                | 9.0  | 35.1  | 40.8  | 13.6  | 1.0   | 0.0    | 0.5     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 68,600                 | 20,875                | --   | 21.6  | 52.6  | 23.7  | 1.8   | 0.3    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 10/21/12 | --           | 70,300                 | 21,392                | --   | 16.4  | 49.4  | 25.4  | 7.3   | 1.3    | 0.2     | 0.0     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |



**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-25    | 08/03/03 | 136.4        | 3,730                  | 1,135                 | 0.0  | 26.6  | 39.8  | 26.3  | 6.3   | 1.0    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 5,410                  | 1,646                 | 0.0  | 11.4  | 38.4  | 44.3  | 5.6   | 0.3    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 1,510                  | 459                   | 5.7  | 14.5  | 32.1  | 24.0  | 18.2  | 3.9    | 1.6     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 6,760                  | 2,057                 | 1.6  | 11.6  | 32.5  | 38.7  | 14.3  | 1.3    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 7,050                  | 2,145                 | 2.0  | 15.0  | 41.9  | 33.6  | 6.3   | 0.3    | 0.8     | 0.1     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 6,340                  | 1,929                 | --   | 15.3  | 48.5  | 32.8  | 2.0   | 1.3    | 0.0     | 0.0     | 0.0     | 0.1  |
|           | 10/21/12 | --           | 664                    | 202                   | --   | 16.2  | 36.5  | 27.6  | 6.6   | 13.0   | 0.1     | 0.0     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-26    | 08/03/03 | 144.6        | 9,160                  | 2,787                 | 0.0  | 32.6  | 37.4  | 24.9  | 4.4   | 0.5    | 0.2     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 5,920                  | 1,801                 | 0.0  | 21.7  | 38.9  | 34.4  | 4.7   | 0.3    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 1,980                  | 603                   | 10.7 | 19.2  | 32.8  | 27.0  | 6.7   | 2.4    | 1.2     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 8,010                  | 2,437                 | 8.9  | 31.1  | 30.8  | 21.9  | 6.6   | 0.7    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 6,490                  | 1,975                 | 8.1  | 29.4  | 37.1  | 20.6  | 3.6   | 0.4    | 0.8     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 16,500                 | 5,021                 | --   | 21.9  | 52.5  | 22.0  | 1.4   | 1.9    | 0.0     | 0.0     | 0.0     | 0.3  |
|           | 10/21/12 | --           | 9,430                  | 2,870                 | --   | 22.0  | 50.3  | 20.3  | 4.9   | 2.0    | 0.4     | 0.1     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-27    | 08/03/03 | 142.5        | 77,400                 | 23,553                | 0.0  | 31.7  | 55.3  | 11.5  | 1.3   | 0.1    | 0.1     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 6,350                  | 1,932                 | 0.1  | 29.3  | 43.0  | 24.3  | 3.1   | 0.2    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 6,040                  | 1,838                 | 11.7 | 23.5  | 33.8  | 22.7  | 6.5   | 1.0    | 0.8     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 72,400                 | 22,031                | 12.2 | 41.3  | 37.6  | 8.1   | 0.5   | 0.0    | 0.3     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 81,500                 | 24,800                | --   | 30.4  | 56.9  | 11.5  | 0.7   | 0.5    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 10/21/12 | --           | 6,170                  | 1,878                 | --   | 21.9  | 54.1  | 17.9  | 3.9   | 2.1    | 0.1     | 0.0     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-28    | 08/03/03 | 162.1        | 25,900                 | 7,881                 | 0.0  | 27.4  | 52.3  | 17.2  | 2.9   | 0.2    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 15,300                 | 4,656                 | 0.0  | 26.6  | 50.9  | 20.9  | 1.4   | 0.1    | 0.0     | 0.1     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 34,500                 | 10,498                | 21.5 | 31.9  | 30.1  | 11.9  | 2.7   | 0.2    | 1.7     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 22,800                 | 6,938                 | 4.6  | 23.2  | 38.7  | 28.1  | 5.1   | 0.3    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 11,800                 | 3,591                 | 3.2  | 29.3  | 40.6  | 22.3  | 2.7   | 0.2    | 1.7     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 9,890                  | 3,010                 | --   | 18.6  | 50.5  | 25.4  | 1.3   | 3.6    | 0.0     | 0.0     | 0.0     | 0.6  |
|           | 10/21/12 | --           | 313                    | 95                    | --   | 12.3  | 44.7  | 29.0  | 10.4  | 2.6    | 0.7     | 0.2     | 0.1     | 0.0  |
| MPE-29    | 08/03/03 | 160.4        | 7,710                  | 2,346                 | 0.0  | 13.7  | 53.7  | 24.7  | 6.8   | 1.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 3,400                  | 1,035                 | 1.2  | 14.0  | 40.3  | 39.1  | 4.9   | 0.4    | 0.0     | 0.1     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 14,400                 | 4,382                 | 14.2 | 26.7  | 34.2  | 19.8  | 4.3   | 0.5    | 0.3     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 29,900                 | 9,099                 | 0.9  | 8.6   | 29.4  | 42.6  | 16.5  | 2.0    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 3,600                  | 1,095                 | 2.1  | 22.8  | 39.4  | 28.1  | 5.7   | 0.6    | 1.3     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 2,250                  | 685                   | --   | 9.4   | 38.7  | 39.9  | 8.6   | 3.3    | 0.0     | 0.0     | 0.0     | 0.1  |
|           | 10/21/12 | --           | 5.9                    | 2                     | --   | 0.7   | 2.4   | 17.4  | 6.1   | 26.8   | 29.1    | 12.6    | 4.9     | 0.0  |
| MPE-30    | 08/03/03 | 154.6        | 59,200                 | 18,015                | 0.0  | 29.0  | 54.8  | 14.6  | 1.5   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 26,400                 | 8,034                 | 0.0  | 30.9  | 44.9  | 22.8  | 1.3   | 0.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 37,600                 | 11,442                | 18.5 | 31.8  | 33.0  | 14.1  | 2.1   | 0.2    | 0.3     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 23,900                 | 7,273                 | 7.7  | 29.0  | 36.5  | 21.2  | 5.3   | 0.3    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 9,840                  | 2,994                 | 7.4  | 29.6  | 36.3  | 21.2  | 3.0   | 0.4    | 2.1     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 8,110                  | 2,468                 | --   | 17.3  | 49.6  | 27.7  | 3.0   | 2.1    | 0.0     | 0.0     | 0.0     | 0.3  |
|           | 10/21/12 | --           | 2,120                  | 645                   | --   | 4.8   | 16.8  | 28.9  | 24.2  | 16.5   | 5.9     | 2.3     | 0.6     | 0.0  |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-31    | 08/03/03 | 256.2        | 17,000                 | 5,173                 | 0.0  | 11.4  | 33.1  | 48.3  | 6.5   | 0.7    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 18,500                 | 5,630                 | 0.0  | 28.5  | 43.5  | 25.3  | 2.5   | 0.2    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 45,800                 | 13,937                | 38.6 | 33.7  | 19.6  | 6.6   | 0.3   | 0.0    | 1.2     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 15,300                 | 4,656                 | 8.4  | 31.7  | 34.3  | 20.3  | 4.7   | 0.6    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 5,020                  | 1,528                 | 2.9  | 12.9  | 46.7  | 27.7  | 6.2   | 1.3    | 2.3     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 11,000                 | 3,347                 | --   | 18.3  | 55.5  | 22.6  | 1.8   | 1.6    | 0.0     | 0.0     | 0.0     | 0.2  |
|           | 10/21/12 | --           | 119,000                | 36,212                | --   | 18.6  | 51.9  | 21.8  | 5.9   | 1.6    | 0.2     | 0.0     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-32    | 08/03/03 | 190.0        | 9,520                  | 2,897                 | 0.0  | 14.3  | 52.1  | 25.6  | 7.0   | 1.0    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 5,600                  | 1,704                 | 0.0  | 10.8  | 36.0  | 44.1  | 8.4   | 0.7    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 10,800                 | 3,286                 | 20.3 | 25.9  | 30.1  | 18.3  | 3.6   | 0.9    | 0.9     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 9,340                  | 2,842                 | 9.3  | 26.8  | 33.4  | 24.2  | 5.6   | 0.7    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 31,200                 | 9,494                 | 10.3 | 38.4  | 38.2  | 11.8  | 0.9   | 0.0    | 0.4     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 40,300                 | 12,263                | --   | 26.3  | 55.2  | 15.4  | 1.3   | 1.2    | 0.4     | 0.1     | 0.0     | 0.1  |
|           | 10/21/12 | --           | 18,200                 | 5,538                 | --   | 19.2  | 49.2  | 26.4  | 3.2   | 1.7    | 0.2     | 0.1     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-33    | 08/03/03 | 169.9        | 3,800                  | 1,156                 | 0.0  | 23.2  | 36.1  | 28.6  | 10.0  | 2.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 3,370                  | 1,025                 | 0.8  | 13.7  | 35.3  | 40.2  | 8.9   | 1.0    | 0.0     | 0.1     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 4,360                  | 1,327                 | 21.2 | 24.4  | 27.5  | 19.1  | 5.5   | 1.1    | 1.2     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 2,870                  | 873                   | 3.5  | 16.4  | 31.1  | 34.8  | 12.1  | 2.1    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 1,540                  | 469                   | 2.4  | 16.5  | 38.6  | 29.6  | 7.4   | 1.9    | 3.6     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 934                    | 284                   | --   | 12.4  | 43.8  | 32.1  | 6.1   | 4.3    | 0.3     | 0.2     | 0.3     | 0.5  |
|           | 10/21/12 | --           | 1,470                  | 447                   | --   | 13.4  | 46.1  | 34.0  | 3.7   | 2.4    | 0.3     | 0.1     | 0.0     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-34    | 08/03/03 | 143.3        | 5,040                  | 1,534                 | 0.0  | 10.0  | 28.2  | 46.0  | 14.0  | 1.8    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 2,290                  | 697                   | 0.0  | 10.4  | 34.9  | 42.0  | 11.3  | 1.4    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 1,800                  | 548                   | 6.4  | 15.9  | 31.4  | 29.8  | 11.2  | 3.8    | 1.5     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 2,420                  | 736                   | 1.5  | 12.0  | 33.8  | 37.2  | 13.1  | 2.4    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 1,120                  | 341                   | 1.8  | 9.5   | 37.1  | 34.1  | 9.4   | 2.9    | 5.2     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 1,460                  | 444                   | --   | 14.0  | 41.3  | 30.4  | 7.0   | 5.8    | 0.2     | 0.1     | 0.4     | 0.8  |
|           | 10/21/12 | --           | 395                    | 120                   | --   | 8.2   | 34.2  | 37.8  | 8.8   | 8.3    | 2.0     | 0.5     | 0.2     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-35    | 08/03/03 | 105.8        | 3,100                  | 943                   | 0.0  | 9.9   | 27.7  | 47.5  | 11.7  | 2.9    | 0.3     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 1,840                  | 560                   | 0.7  | 11.5  | 33.4  | 42.7  | 10.3  | 1.3    | 0.0     | 0.1     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 1,040                  | 316                   | 6.2  | 13.5  | 28.9  | 30.9  | 12.7  | 5.1    | 2.6     | 0.0     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 1,190                  | 362                   | 1.1  | 8.9   | 27.9  | 40.0  | 17.9  | 4.1    | 0.1     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 1,040                  | 316                   | 1.7  | 9.1   | 41.2  | 35.2  | 9.2   | 2.6    | 1.0     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 2,780                  | 846                   | --   | 7.7   | 42.3  | 40.8  | 5.1   | 3.4    | 0.1     | 0.1     | 0.2     | 0.3  |
|           | 10/21/12 | --           | 308                    | 94                    | --   | 20.3  | 43.6  | 26.2  | 5.6   | 2.6    | 1.3     | 0.3     | 0.1     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| MPE-36    | 08/03/03 | 113.1        | 2,500                  | 761                   | 0.0  | 22.3  | 33.5  | 29.3  | 11.7  | 2.9    | 0.3     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 1,600                  | 487                   | 0.8  | 11.2  | 31.7  | 43.1  | 11.3  | 1.7    | 0.0     | 0.2     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 850                    | 259                   | 6.2  | 13.5  | 28.9  | 23.3  | 17.8  | 6.7    | 3.5     | 0.0     | 0.1     | 0.0  |
|           | 06/22/07 | --           | 1,530                  | 466                   | 5.1  | 20.7  | 30.2  | 29.6  | 11.9  | 2.5    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 886                    | 270                   | 2.6  | 24.0  | 41.5  | 20.9  | 7.4   | 2.6    | 1.0     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 671                    | 204                   | --   | 9.1   | 37.3  | 41.6  | 9.4   | 2.3    | 0.1     | 0.0     | 0.1     | 0.1  |
|           | 10/21/12 | --           | 159                    | 48                    | --   | 13.5  | 39.5  | 28.8  | 9.6   | 5.7    | 1.9     | 0.7     | 0.3     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| MPE-37    | 08/03/03 | 90.7         | 2,050                  | 624                   | 0.0  | 16.9  | 32.1  | 30.7  | 9.7   | 3.7    | 3.3     | 1.9     | 1.5     | 0.2  |
|           | 12/22/04 | --           | 1,480                  | 450                   | 0.2  | 10.3  | 31.7  | 42.1  | 12.8  | 2.3    | 0.3     | 0.3     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 660                    | 201                   | 5.0  | 13.5  | 29.7  | 22.6  | 19.3  | 8.0    | 1.9     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 770                    | 234                   | 1.1  | 9.0   | 27.2  | 38.4  | 18.8  | 5.2    | 0.3     | 0.0     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 558                    | 170                   | 5.0  | 17.3  | 34.7  | 31.2  | 8.3   | 1.8    | 1.7     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 727                    | 221                   | --   | 8.6   | 41.6  | 35.2  | 11.3  | 2.6    | 0.1     | 0.2     | 0.2     | 0.2  |
|           | 10/21/12 | --           | 266                    | 81                    | --   | 1.3   | 10.6  | 23.6  | 27.2  | 21.9   | 10.2    | 4.1     | 1.1     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| SVE-22    | 08/03/03 | 8.7          | 336                    | 102                   | 0.0  | 3.3   | 21.2  | 48.2  | 22.3  | 3.8    | 1.2     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 118                    | 36                    | 0.7  | 5.6   | 18.8  | 32.7  | 24.6  | 13.3   | 4.1     | 0.2     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 1,420                  | 432                   | --   | 9.4   | 39.1  | 41.3  | 4.2   | 5.1    | 0.0     | 0.0     | 0.0     | 0.9  |
|           | 10/22/12 | --           | 5                      | 2                     | --   | 3.6   | 13.9  | 32.6  | 14.6  | 30.2   | 2.7     | 1.8     | 0.6     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| SVE-23    | 08/03/03 | 8.4          | 53                     | 16                    | 0.0  | 4.2   | 25.2  | 41.5  | 19.0  | 7.3    | 2.5     | 0.1     | 0.2     | 0.0  |
|           | 12/22/04 | --           | 433                    | 132                   | 1.9  | 13.7  | 39.3  | 30.7  | 11.9  | 1.4    | 0.0     | 0.9     | 0.2     | 0.0  |
|           | 05/10/06 | --           | 716                    | 218                   | 4.1  | 8.7   | 26.8  | 37.8  | 16.3  | 3.9    | 2.4     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 5.6                    | 2                     | 0.0  | 1.1   | 4.3   | 10.0  | 27.7  | 35.6   | 14.5    | 5.9     | 0.8     | 0.1  |
|           | 10/06/09 | --           | 1,100                  | 335                   | --   | 7.1   | 34.8  | 41.9  | 9.2   | 6.1    | 0.1     | 0.1     | 0.0     | 0.7  |
|           | 10/21/12 | --           | 17                     | 5                     | --   | 3.9   | 20.4  | 29.1  | 16.5  | 20.7   | 6.5     | 2.6     | 0.3     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| SVE-24    | 08/03/03 | 4.7          | 17                     | 5                     | 0.0  | 1.0   | 8.8   | 32.6  | 30.1  | 20.0   | 7.5     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 780                    | 237                   | 1.4  | 11.2  | 32.0  | 43.9  | 10.0  | 1.2    | 0.0     | 0.2     | 0.1     | 0.0  |
|           | 05/10/06 | --           | 812                    | 247                   | 5.6  | 1.6   | 21.0  | 44.6  | 23.6  | 2.4    | 1.2     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 5.8                    | 2                     | 0.0  | 0.0   | 3.2   | 10.8  | 24.9  | 39.0   | 16.6    | 4.6     | 0.9     | 0.0  |
|           | 10/06/09 | --           | 962                    | 293                   | --   | 8.3   | 39.3  | 37.8  | 5.4   | 7.9    | 0.1     | 0.1     | 0.1     | 1.0  |
|           | 10/21/12 | --           | 14                     | 4                     | --   | 4.3   | 20.3  | 34.3  | 15.5  | 15.7   | 6.5     | 1.8     | 1.4     | 0.2  |
| SVE-25    | 08/03/03 | 62.1         | 1,270                  | 386                   | 0.0  | 12.7  | 31.2  | 36.7  | 15.0  | 4.0    | 0.4     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 309                    | 94                    | 0.8  | 9.5   | 29.5  | 45.0  | 12.7  | 2.2    | 0.0     | 0.2     | 0.1     | 0.0  |
|           | 05/10/06 | --           | 161                    | 49                    | 5.5  | 10.7  | 14.4  | 35.4  | 20.0  | 11.0   | 2.9     | 0.1     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 5.6                    | 2                     | 1.5  | 3.7   | 3.9   | 31.9  | 16.3  | 19.0   | 21.1    | 2.2     | 0.4     | 0.0  |
|           | 07/02/08 | --           | 157                    | 48                    | 1.3  | 10.1  | 30.5  | 46.8  | 9.4   | 1.3    | 0.6     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 1,440                  | 438                   | --   | 9.1   | 41.8  | 39.7  | 8.3   | 1.0    | 0.1     | 0.0     | 0.0     | 0.0  |
|           | 10/22/12 | --           | < 5                    | 2                     | --   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0  |
| SVE-26    | 08/03/03 | 51.5         | 880                    | 268                   | 0.0  | 12.6  | 31.1  | 36.9  | 15.0  | 4.0    | 0.4     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 85.8                   | 26                    | 0.7  | 5.7   | 18.8  | 32.7  | 23.5  | 13.7   | 4.7     | 0.2     | 0.0     | 0.0  |
|           | 07/02/08 | --           | 1,340                  | 408                   | 1.0  | 8.4   | 31.3  | 37.2  | 16.3  | 4.8    | 1.0     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 1,420                  | 432                   | --   | 10.1  | 46.2  | 34.4  | 5.9   | 3.0    | 0.1     | 0.0     | 0.1     | 0.2  |
|           | 10/22/12 | --           | 16                     | 5                     | --   | 7.5   | 33.3  | 29.4  | 11.1  | 15.1   | 1.4     | 1.6     | 0.6     | 0.0  |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|-----------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|           |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| SVE-27    | 08/03/03 | 73.0         | 1,800                  | 548                   | 0.0  | 13.5  | 29.2  | 37.5  | 13.3  | 3.3    | 0.9     | 0.8     | 1.4     | 0.1  |
|           | 12/22/04 | --           | 215                    | 65                    | 1.1  | 10.8  | 33.0  | 31.5  | 17.7  | 4.9    | 0.0     | 0.7     | 0.3     | 0.0  |
|           | 05/10/06 | --           | 128                    | 39                    | 6.5  | 10.5  | 14.2  | 36.0  | 19.0  | 10.0   | 3.8     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 5.2                    | 2                     | 0.0  | 0.4   | 4.2   | 16.6  | 25.6  | 31.4   | 16.6    | 4.3     | 0.7     | 0.2  |
|           | 07/02/08 | --           | 97.8                   | 30                    | 1.1  | 9.3   | 28.7  | 47.5  | 10.3  | 1.9    | 1.2     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 1,970                  | 599                   | --   | 9.4   | 42.3  | 41.6  | 4.4   | 2.3    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 10/21/12 | --           | 50                     | 15                    | --   | 4.7   | 28.2  | 32.0  | 17.1  | 12.2   | 4.1     | 1.5     | 0.2     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| SVE-28    | 08/03/03 | 78.8         | 1,690                  | 514                   | 0.0  | 17.3  | 34.7  | 34.0  | 10.9  | 2.7    | 0.4     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 132                    | 40                    | 0.2  | 9.0   | 26.1  | 45.9  | 13.7  | 4.1    | 0.0     | 0.9     | 0.1     | 0.0  |
|           | 05/10/06 | --           | 88                     | 27                    | 7.8  | 10.0  | 23.7  | 32.2  | 14.1  | 6.5    | 5.7     | 0.0     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 5.6                    | 2                     | 0.0  | 0.7   | 7.0   | 19.0  | 24.3  | 26.1   | 17.6    | 4.4     | 0.7     | 0.2  |
|           | 07/02/08 | --           | 631                    | 192                   | 0.7  | 5.7   | 21.9  | 40.8  | 27.1  | 3.4    | 0.4     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 2,780                  | 846                   | --   | 10.5  | 45.1  | 38.6  | 4.9   | 0.9    | 0.0     | 0.0     | 0.0     | 0.0  |
|           | 10/21/12 | --           | 154                    | 47                    | --   | 6.0   | 41.5  | 30.1  | 12.0  | 6.8    | 2.3     | 0.9     | 0.4     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| SVE-30    | 08/03/03 | 75.9         | 734                    | 223                   | 0.0  | 13.9  | 26.2  | 35.4  | 18.2  | 5.7    | 0.6     | 0.0     | 0.0     | 0.0  |
|           | 12/22/04 | --           | 239                    | 73                    | 1.5  | 11.3  | 34.4  | 30.8  | 17.2  | 4.2    | 0.0     | 0.6     | 0.0     | 0.0  |
|           | 05/10/06 | --           | 141                    | 43                    | 6.0  | 10.5  | 25.3  | 32.2  | 15.3  | 7.1    | 3.5     | 0.1     | 0.0     | 0.0  |
|           | 06/22/07 | --           | 6.6                    | 2                     | 0.0  | 4.1   | 12.8  | 23.4  | 19.5  | 22.1   | 15.3    | 2.4     | 0.4     | 0.0  |
|           | 07/02/08 | --           | 117                    | 36                    | 1.2  | 9.7   | 29.5  | 47.3  | 10.0  | 1.5    | 0.8     | 0.0     | 0.0     | 0.0  |
|           | 10/06/09 | --           | 1,770                  | 539                   | --   | 8.1   | 37.4  | 40.9  | 9.1   | 4.3    | 0.1     | 0.0     | 0.0     | 0.1  |
|           | 10/21/12 | --           | 26                     | 8                     | --   | 4.1   | 23.6  | 31.2  | 18.4  | 15.8   | 4.6     | 1.4     | 0.9     | 0.0  |
|           |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |

**Table 9. Summary of Vapor Sample Analyses for Individual SVE Wells  
Compressor Station No. 9 - Roswell, NM**

| Sample ID                                                                                                                                                                                                                                            | Date     | PID Readings | Gasoline<br>Range VOCs |                       | < C5 | C5-C6 | C6-C7 | C7-C8 | C8-C9 | C9-C10 | C10-C11 | C11-C12 | C12-C14 | C14+ |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|------------------------|-----------------------|------|-------|-------|-------|-------|--------|---------|---------|---------|------|
|                                                                                                                                                                                                                                                      |          | (ppm)        | (ug/L)                 | (ppmv) <sup>(a)</sup> | (%)  |       |       |       |       |        |         |         |         |      |
| SVE-31                                                                                                                                                                                                                                               | 08/03/03 | 78.8         | 1,470                  | 447                   | 0.0  | 18.0  | 32.6  | 33.3  | 12.1  | 3.5    | 0.5     | 0.0     | 0.0     | 0.0  |
|                                                                                                                                                                                                                                                      | 06/22/07 | --           | 6.0                    | 2                     | 0.0  | 1.4   | 9.3   | 37.0  | 16.4  | 14.4   | 18.4    | 2.4     | 0.7     | 0.0  |
|                                                                                                                                                                                                                                                      | 07/02/08 | --           | 796                    | 242                   | 0.9  | 8.0   | 30.2  | 37.0  | 16.7  | 5.4    | 1.8     | 0.0     | 0.0     | 0.0  |
|                                                                                                                                                                                                                                                      | 10/06/09 | --           | 2,240                  | 682                   | --   | 9.5   | 43.4  | 39.9  | 5.8   | 1.3    | 0.0     | 0.0     | 0.0     | 0.1  |
|                                                                                                                                                                                                                                                      | 10/21/12 | --           | 39                     | 12                    | --   | 3.9   | 23.3  | 27.8  | 17.0  | 16.5   | 7.3     | 3.3     | 0.9     | 0.0  |
|                                                                                                                                                                                                                                                      |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |
| (a) Conversion Factor:<br>$P = 1.00 \text{ atm}$ , $MW = 79 \text{ g/mole}$ , $R = 0.08205 \text{ L*atm/(K*mole)}$ , $T = 293^{\circ}\text{K}$<br>$C \text{ ppmv} = C \text{ ug/L} * ((R * T)/(MW*P))$<br>$C \text{ ppmv} = C \text{ ug/L} * 0.3043$ |          |              |                        |                       |      |       |       |       |       |        |         |         |         |      |



**Table 10. Summary of Water Treatment System Analyses  
Compressor Station No. 9 - Roswell, NM**

| Sample Point     | Sampling Date | BTEX (ug/L) |         |              |                 | TPH (mg/L)           | Other VOCs (ug/L) |            |            | Major Ions (mg/L) |          |         |                    |          |         |           |           |        |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------|-------------------|------------|------------|-------------------|----------|---------|--------------------|----------|---------|-----------|-----------|--------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | GRO (Gasoline Range) | Acetone           | 2-Butanone | All Others | Phosphorus (As P) | Chloride | Sulfate | Nitrate (NO3 as N) | Fluoride | Calcium | Magnesium | Potassium | Sodium |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                 | none              | none       | NA         | none              | 250      | 600     | 10.0               | 1.6      | none    | none      | none      | none   |
| Post-Treatment   | 09/29/03      | 2,600       | 8,200   | 450          | 3,500           | ---                  | < 2500            | < 2500     | ND         | ---               | 430      | 780     | < 0.1              | 1.2      | 520     | 140       | 4.3       | 340    |
|                  | 11/21/03      | 810         | 310     | 41           | 290             | ---                  | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 12/08/03      | < 0.5       | < 0.5   | < 0.5        | < 0.5           | ---                  | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 12/16/03      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | ---                  | < 25              | < 25       | ND         | < 0.5             | 450      | 880     | < 0.1              | 1.5      | 310     | 99        | 2.6       | 190    |
|                  | 03/02/04      | 2.6         | < 1.0   | < 1.0        | < 1.0           | ---                  | 200               | 59         | ND         | < 2.5             | 410      | 760     | < 0.5              | 1.7      | 320     | 110       | 2.3       | 190    |
|                  | 04/19/04      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 0.05               | 140               | 32         | ND         | < 0.5             | 410      | 1,000   | < 0.1              | 1.7      | 470     | 130       | 2.7       | 200    |
|                  | 05/20/04      | 2.1         | < 1.0   | < 1.0        | < 1.0           | 0.06                 | 50                | 20         | ---        | < 0.5             | 410      | 1,000   | < 0.1              | 1.7      | 370     | 120       | 2.5       | 190    |
|                  | 07/13/04      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | ---                  | 13                | < 10       | ND         | < 0.5             | 400      | 1,100   | 1.1                | 2.1      | 410     | 110       | 2.1       | 180    |
|                  | 08/17/04      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | ---                  | 72                | < 10       | ND         | < 0.5             | 380      | 1,100   | < 0.1              | 2.6      | 430     | 130       | 2.7       | 200    |
|                  | 09/16/04      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | ---                  | 61                | < 10       | ND         | < 0.5             | 400      | 910     | < 0.1              | 1.9      | 380     | 120       | 2.2       | 190    |
|                  | 10/15/04      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | ---                  | < 10              | < 10       | ND         | < 0.5             | 390      | 770     | < 0.1              | 1.6      | 310     | 97        | 2.2       | 180    |
|                  | 11/15/04      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | ---                  | 36                | < 10       | ND         | < 0.5             | 420      | 870     | < 0.1              | 1.7      | 370     | 110       | 2.2       | 190    |
|                  | 04/22/05      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 0.05               | 70                | 62         | ND         | < 2.5             | 500      | 1,200   | < 0.5              | 2.1      | 500     | 150       | 2.8       | 190    |
|                  | 05/20/05      | 37          | 6.6     | < 1.0        | < 1.0           | 0.29                 | 100               | 99         | ND         | 1.4               | 400      | 430     | < 0.5              | 2.1      | 400     | 120       | 2.9       | 190    |
|                  | 07/15/05      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 0.05               | < 10              | < 10       | ND         | < 0.5             | 420      | 1,000   | < 0.1              | 1.8      | 400     | 120       | 2.3       | 190    |
|                  | 08/22/05      | < 1.0       | < 1.0   | < 1.0        | < 1.0           | < 0.05               | < 10              | < 10       | ND         | < 0.5             | 400      | 1,200   | < 0.1              | 1.8      | 410     | 110       | 2.4       | 180    |
|                  | 03/13/06      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | 0.072                | 93                | 82         | ND         | < 0.5             | 390      | 1,100   | < 0.1              | 1.6      | 470     | 130       | 2.5       | 200    |
|                  | 04/17/06      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | < 0.05               | 100               | < 10       | ND         | < 0.5             | 380      | 1,100   | < 0.1              | 1.4      | 400     | 140       | 2.5       | 220    |
|                  | 05/18/06      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | < 0.05               | 110               | 27         | ND         | < 0.5             | 370      | 1,200   | < 0.5              | 1.6      | 430     | 130       | 2.2       | 190    |
|                  | 06/21/06      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | < 0.05               | 79                | 30         | ND         | < 0.5             | 390      | 1,200   | < 0.1              | 1.7      | 420     | 140       | 2.6       | 210    |
|                  | 07/31/06      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | < 0.05               | < 10              | < 10       | ND         | < 2.5             | 410      | 1,100   | < 0.5              | 1.4      | 450     | 140       | 2.4       | 200    |
|                  | 08/31/06      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | < 0.05               | < 10              | < 10       | ND         | < 0.5             | 480      | 970     | < 0.5              | 1.6      | 380     | 130       | 2.2       | 210    |
|                  | 09/13/06      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | < 0.05               | < 10              | < 10       | ND         | < 0.5             | 380      | 1,300   | 0.35               | 1.3      | 470     | 150       | 2.4       | 210    |
|                  | 10/17/06      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | < 0.05               | < 10              | < 10       | ND         | < 0.5             | 410      | 1,400   | < 0.5              | 1.6      | 460     | 140       | 2.6       | 200    |
|                  | 11/09/06      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | < 0.05               | < 10              | < 10       | ND         | < 0.5             | 370      | 1,300   | < 1.0              | 1.4      | 440     | 150       | 4.5       | 210    |

**Table 10. Summary of Water Treatment System Analyses  
Compressor Station No. 9 - Roswell, NM**

| Sample Point     | Sampling Date | BTEX (ug/L) |         |              |                 | TPH (mg/L)           | Other VOCs (ug/L) |            |            | Major Ions (mg/L) |          |         |                    |          |         |           |           |        |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------|-------------------|------------|------------|-------------------|----------|---------|--------------------|----------|---------|-----------|-----------|--------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | GRO (Gasoline Range) | Acetone           | 2-Butanone | All Others | Phosphorus (As P) | Chloride | Sulfate | Nitrate (NO3 as N) | Fluoride | Calcium | Magnesium | Potassium | Sodium |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                 | none              | none       | NA         | none              | 250      | 600     | 10.0               | 1.6      | none    | none      | none      | none   |
|                  | 04/24/07      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 0.05               | < 10              | < 10       | ND         | < 0.5             | 440      | 1,100   | < 0.5              | 1.6      | 410     | 130       | 1.9       | 190    |
|                  | 05/30/07      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 0.05               | < 10              | < 10       | ND         | < 0.5             | 410      | 1,300   | < 0.2              | 1.6      | 460     | 130       | 2.7       | 200    |
|                  | 07/31/07      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 0.05               | < 10              | < 10       | ND         | < 2.5             | 420      | 1,000   | < 1.0              | 1.8      | 400     | 130       | 2.1       | 220    |
|                  | 08/21/07      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 0.05               | 110               | < 10       | ND         | 0.92              | 440      | 880     | < 2.0              | 1.4      | 380     | 140       | 2.4       | 230    |
|                  | 11/20/07      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 0.05               | < 10              | < 10       | ND         | < 0.5             | 450      | 1,400   | < 1.1              | 2.0      | 370     | 130       | 2.9       | 220    |
|                  | 06/15/08      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 0.05               | 39                | < 10       | ND         | < 0.5             | 430      | 1,400   | < 1.1              | 1.7      | 570     | 160       | 2.8       | 240    |
|                  | 07/28/08      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 0.05               | < 10              | < 10       | ND         | < 0.5             | 430      | 1,400   | < 1.1              | 1.8      | 500     | 150       | 2.7       | 220    |
|                  | 08/14/08      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 0.05               | < 10              | < 10       | ND         | < 0.5             | 450      | 1,200   | < 2.1              | 1.8      | 420     | 140       | 3.6       | 220    |
|                  | 09/29/08      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | < 0.05               | 44                | < 10       | ND         | < 0.5             | 420      | 1,500   | 0.27               | 1.6      | 526     | 141       | 54.7      | 203    |
|                  | 11/05/08      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | < 0.05               | 46                | < 10       | ND         | < 0.5             | 410      | 1,200   | < 1.0              | 1.8      | 460     | 130       | < 10      | 210    |
|                  | 05/25/09      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | < 0.05               | 49                | < 10       | ND         | < 0.5             | 430      | 1,600   | < 1.0              | 1.3      | 490     | 130       | 2.7       | 200    |
|                  | 06/22/09      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 70                | < 10       | ND         | < 0.5             | 440      | 1,200   | < 5.0              | 1.5      | 430     | 130       | 2.6       | 200    |
|                  | 07/21/09      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 13                | < 10       | ND         | < 0.5             | 480      | 1,500   | < 2.0              | 1.7      | 470     | 140       | 3.1       | 210    |
|                  | 08/24/09      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 13                | 16         | ND         | < 0.5             | 74       | 110     | < 2.0              | 2.1      | 510     | 140       | 3.1       | 210    |
|                  | 09/28/09      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 19                | 14         | ND         | < 0.5             | 430      | 1,200   | < 1.0              | 1.6      | 370     | 120       | 2.8       | 210    |
|                  | 10/29/09      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 20                | 15         | ND         | < 0.5             | 440      | 1,500   | < 0.5              | 1.8      | 440     | 130       | 3.1       | 200    |
|                  | 11/18/09      | 4.8         | 1.3     | < 1.0        | < 1.5           | --                   | 24                | 18         | ND         | < 0.5             | 430      | 1,600   | < 2.0              | 2.1      | 490     | 140       | 3.4       | 200    |
|                  | 06/30/10      | 5.6         | < 1.0   | < 1.0        | < 1.5           | --                   | 110               | 17         | ND         | < 0.5             | 420      | 910     | < 1.0              | 1.7      | 330     | 120       | 2.8       | 210    |
|                  | 07/31/10      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | < 10              | < 10       | ND         | < 0.5             | 410      | 1,100   | < 1.0              | 1.1      | 420     | 130       | 5.3       | 200    |
|                  | 08/30/10      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 60                | < 10       | ND         | < 0.5             | 460      | 1,600   | < 2.0              | 1.2      | 500     | 150       | 2.8       | 210    |
|                  | 11/10/10      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | < 10              | < 10       | ND         | 1.1               | 480      | 1,300   | < 2.0              | 1.0      | 430     | 130       | 3.1       | 220    |
|                  | 08/10/11      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | < 10              | < 10       | ND         | < 10              | 490      | 1,600   | < 0.1              | 1.1      | 500     | 150       | 3.7       | 230    |
|                  | 10/09/11      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | < 10              | < 10       | ND         | < 0.5             | 430      | 1,400   | 1.4                | 1.5      | 490     | 160       | 2.8       | 220    |
|                  | 11/03/11      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 41                | < 10       | ND         | < 0.5             | 400      | 1,500   | < 0.1              | 1.4      | 520     | 140       | 2.6       | 210    |
|                  | 04/30/12      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 70                | 20         | ND         | < 10 (H)          | 390      | 1,300   | < 1.0              | 11 *     | 490     | 140       | 2.8       | 210    |
|                  | 06/05/12      | 1.2         | < 1.0   | < 1.0        | < 1.5           | --                   | 43                | 24         | ND         | < 10              | 370      | 1,300   | < 1.0              | 5.5 *    | 490     | 130       | 3.0       | 200    |
|                  | 06/28/12      | 1.7         | < 1.0   | < 1.0        | < 1.5           | --                   | 62                | 31         | ND         | < 10              | 440      | 1,500   | < 0.2              | 12 *     | 500     | 150       | 2.8       | 220    |
|                  | 07/25/12      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 28                | < 10       | ND         | < 10              | 430      | 1,200   | < 0.2              | 14 *     | 460     | 140       | 3.0       | 200    |
|                  | 08/15/12      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 37                | < 10       | ND         | < 0.5             | 370      | 700     | 0.20               | 1.4      | 350     | 120       | 2.7       | 210    |
|                  | 09/23/12      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 71                | < 10       | ND         | < 0.5             | 420      | 660     | < 0.1              | 1.4      | 330     | 120       | 3.3       | 210    |
|                  | 10/25/12      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 55                | < 10       | ND         | < 2.5             | 420      | 1,200   | < 0.5              | < 0.5    | 410     | 140       | 2.5       | 210    |
|                  | 11/28/12      | < 1.0       | < 1.0   | < 1.0        | < 1.5           | --                   | 44                | < 10       | ND         | < 0.5             | 440      | 1,200   | < 1.0              | < 0.5    | 360     | 130       | 3.2       | 200    |

**Table 10. Summary of Water Treatment System Analyses  
Compressor Station No. 9 - Roswell, NM**

| Sample Point     | Sampling Date | BTEX (ug/L) |         |              |                 | TPH (mg/L)           | Other VOCs (ug/L) |            |            | Major Ions (mg/L) |          |         |                    |          |         |           |           |        |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------|-------------------|------------|------------|-------------------|----------|---------|--------------------|----------|---------|-----------|-----------|--------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | GRO (Gasoline Range) | Acetone           | 2-Butanone | All Others | Phosphorus (As P) | Chloride | Sulfate | Nitrate (NO3 as N) | Fluoride | Calcium | Magnesium | Potassium | Sodium |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                 | none              | none       | NA         | none              | 250      | 600     | 10.0               | 1.6      | none    | none      | none      | none   |
| Between GACs     | 04/19/04      | 7.3         | < 1.0   | < 1.0        | < 1.0           | 0.11                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 05/20/04      | 28          | 1.6     | < 1.0        | < 1.0           | 0.32                 | 48                | 25         | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/13/04      | < 0.5       | < 0.5   | < 0.5        | < 0.5           | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/17/04      | < 0.5       | < 0.5   | < 0.5        | < 0.5           | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 09/16/04      | < 0.5       | < 0.5   | < 0.5        | < 0.5           | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 10/15/04      | < 0.5       | < 0.5   | < 0.5        | < 0.5           | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/15/04      | 0.51        | < 0.5   | < 0.5        | < 0.5           | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 04/22/05      | 37          | 8.2     | 0.54         | 2.4             | 0.27                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 05/20/05      | 22.00       | < 8.7   | < 0.5        | < 1.8           | 0.11                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/15/05      | < 0.5       | < 0.5   | < 0.5        | < 0.5           | < 0.5                | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/22/05      | 0.62        | < 0.5   | < 0.5        | < 0.5           | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 03/13/06      | 16          | 12      | < 1.0        | 4.1             | 0.51                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 04/17/06      | < 1         | < 1     | < 1          | < 1             | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 05/18/06      | < 1         | < 1     | < 1          | < 3             | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/21/06      | 1.1         | 1.3     | < 1          | < 3             | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/31/06      | 1.6         | < 1     | < 1          | < 3             | 0.076                | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/31/06      | < 1         | < 1     | < 1          | < 3             | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 09/13/06      | < 1         | < 1     | < 1          | < 3             | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 10/17/06      | 4.2         | 3.4     | < 1          | < 3             | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/09/06      | 3.2         | 1.3     | < 1          | < 3             | 0.076                | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 04/24/07      | 1.1         | < 1     | < 1          | < 2             | 0.120                | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 05/30/07      | < 1         | < 1     | < 1          | < 2             | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/31/07      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/21/07      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | 0.067                | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/20/07      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/15/08      | 26          | 76      | 1.8          | 74              | 0.47                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/28/08      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/14/08      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 09/29/08      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | < 0.05               | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/05/08      | 48          | 54      | 3.3          | 38              | 0.36                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 05/25/09      | 9.2         | 19      | < 1.0        | 22              | 0.19                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/22/09      | 350         | 570     | 16           | 210             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/21/09      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/24/09      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |

**Table 10. Summary of Water Treatment System Analyses  
Compressor Station No. 9 - Roswell, NM**

| Sample Point     | Sampling Date | BTEX (ug/L) |         |              |                 | TPH (mg/L)           | Other VOCs (ug/L) |            |            | Major Ions (mg/L) |          |         |                    |          |         |           |           |        |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------|-------------------|------------|------------|-------------------|----------|---------|--------------------|----------|---------|-----------|-----------|--------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | GRO (Gasoline Range) | Acetone           | 2-Butanone | All Others | Phosphorus (As P) | Chloride | Sulfate | Nitrate (NO3 as N) | Fluoride | Calcium | Magnesium | Potassium | Sodium |
|                  |               |             |         |              |                 |                      |                   |            |            |                   |          |         |                    |          |         |           |           |        |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                 | none              | none       | NA         | none              | 250      | 600     | 10.0               | 1.6      | none    | none      | none      | none   |
|                  | 09/28/09      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 10/29/09      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/18/09      | 9.3         | 3.3     | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/30/10      | 2.1         | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/31/10      | 200         | 200     | 12           | 150             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/30/10      | 300         | 440     | 22           | 280             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/10/10      | < 1.0       | < 1.0   | < 1.0        | < 3.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/10/11      | < 1.0       | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 10/09/11      | 3.2         | 1.6     | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/03/11      | 2.8         | 1.6     | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 04/30/12      | 3.6         | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/05/12      | 3.9         | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/28/12      | 4.7         | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/25/12      | 1.8         | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/15/12      | 1.7         | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 09/23/12      | 1.7         | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 10/25/12      | 1.5         | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/28/12      | 1.5         | < 1.0   | < 1.0        | < 2.0           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |

**Table 10. Summary of Water Treatment System Analyses  
Compressor Station No. 9 - Roswell, NM**

| Sample Point      | Sampling Date | BTEX (ug/L) |         |              |                 | TPH (mg/L)           | Other VOCs (ug/L) |            |            | Major Ions (mg/L) |          |         |                    |          |         |           |           |        |
|-------------------|---------------|-------------|---------|--------------|-----------------|----------------------|-------------------|------------|------------|-------------------|----------|---------|--------------------|----------|---------|-----------|-----------|--------|
|                   |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | GRO (Gasoline Range) | Acetone           | 2-Butanone | All Others | Phosphorus (As P) | Chloride | Sulfate | Nitrate (NO3 as N) | Fluoride | Calcium | Magnesium | Potassium | Sodium |
| NMWQCC Standard:  |               | 10          | 750     | 750          | 620             | none                 | none              | none       | NA         | none              | 250      | 600     | 10.0               | 1.6      | none    | none      | none      | none   |
| Post-Air Stripper | 04/19/04      | 180         | 220     | < 10         | 140             | 7.5                  | ---               | ---        | ND         | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 05/20/04      | 54          | 81      | 2.6          | 42              | 1.0                  | 34                | < 10       | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 07/13/04      | 9.4         | 13.0    | 2.1          | 7.6             | 0.82                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 08/17/04      | 3.9         | 7.7     | < 0.5        | 6.4             | 0.46                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 09/16/04      | 4.6         | 6.9     | < 1.0        | 4.3             | 0.23                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 10/15/04      | 760         | 760     | 26           | 250             | 0.23                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 11/15/04      | 86          | 100     | 5            | 57              | 1.7                  | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 04/22/05      | 850         | 710     | < 5.0        | 240             | 4.0                  | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 05/20/05      | 370         | 380     | 5            | 130             | 1.5                  | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 07/15/05      | 620         | 710     | 17           | 220             | 2.5                  | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 08/22/05      | 23          | 37      | 5.1          | 20              | 0.83                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 03/13/06      | 96          | 160     | 8.2          | 81              | 6.60                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 04/17/06      | 43          | 91      | 7.7          | 46              | 0.73                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 05/18/06      | 35          | 70      | < 5.0        | 35              | 0.83                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 06/21/06      | 15          | 19      | 1.1          | 11              | 0.24                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 07/31/06      | 38          | 55      | 2.9          | 29              | 0.78                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 08/31/06      | 63          | 79      | 3.3          | 43              | 1.30                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 09/13/06      | 71          | 120     | 2.8          | 54              | 1.10                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 10/17/06      | 37          | 70      | 2.4          | 32              | 0.42                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 11/09/06      | 38          | 88      | < 2.0        | 46              | 0.63                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 04/24/07      | 33          | 55      | < 2.0        | 30              | 0.60                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 05/30/07      | < 1.0       | 1.1     | < 1.0        | < 2.0           | 0.37                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 07/31/07      | 4.4         | 8.6     | < 1.0        | 5.1             | 0.15                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 08/21/07      | 3.6         | 3.8     | < 1.0        | 3.7             | 0.11                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 11/20/07      | 75          | 1.6     | 9.5          | 38              | 0.45                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 06/15/08      | 83          | 470     | 20           | 620             | 2.6                  | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 07/28/08      | 32          | 74      | 9.6          | 170             | 0.88                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 08/14/08      | 32          | < 5.0   | < 5.0        | 110             | 0.59                 | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 09/29/08      | 650         | 1,600   | 71           | 970             | 8.1                  | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 11/05/08      | 1,100       | 1,300   | 97           | 1,000           | 8.2                  | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 05/25/09      | 260         | 680     | 33           | 790             | 5.3                  | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 06/22/09      | 960         | 1,600   | 63           | 830             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 07/21/09      | 280         | 500     | < 20         | 280             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                   | 08/24/09      | 230         | 350     | 13           | 220             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |

**Table 10. Summary of Water Treatment System Analyses  
Compressor Station No. 9 - Roswell, NM**

| Sample Point     | Sampling Date | BTEX (ug/L) |         |              |                 | TPH (mg/L)           | Other VOCs (ug/L) |            |            | Major Ions (mg/L) |          |         |                    |          |         |           |           |        |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------|-------------------|------------|------------|-------------------|----------|---------|--------------------|----------|---------|-----------|-----------|--------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | GRO (Gasoline Range) | Acetone           | 2-Butanone | All Others | Phosphorus (As P) | Chloride | Sulfate | Nitrate (NO3 as N) | Fluoride | Calcium | Magnesium | Potassium | Sodium |
|                  |               |             |         |              |                 |                      |                   |            |            |                   |          |         |                    |          |         |           |           |        |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                 | none              | none       | NA         | none              | 250      | 600     | 10.0               | 1.6      | none    | none      | none      | none   |
|                  | 09/28/09      | 290         | 72      | 19           | 240             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 10/29/09      | 450         | 670     | 42           | 430             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/18/09      | 200         | 470     | 18           | 300             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/30/10      | 450         | 460     | 13           | 250             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/31/10      | 190         | 200     | 11           | 140             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/30/10      | 450         | 660     | 31           | 450             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/10/10      | 59          | 97      | < 10         | 65              | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/10/11      | 1.4         | 2.7     | < 1          | 3.0             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 10/09/11      | 21          | 37      | 2.0          | 22              | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/03/11      | 30          | 66      | 3.4          | 47              | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 04/30/12      | < 1         | 1.3     | < 1          | 2.2             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/05/12      | < 1         | 1.0     | < 1          | < 2             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/28/12      | < 1         | < 1     | < 1          | < 2             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/25/12      | 170         | 270     | 12           | 130             | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/15/12      | 13          | 16      | < 5          | 10              | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 09/23/12      | < 5         | < 5     | < 5          | < 10            | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 10/25/12      | < 5         | < 5     | < 5          | < 10            | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/28/12      | 5.1         | 8.4     | < 5          | < 10            | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |

**Table 10. Summary of Water Treatment System Analyses  
Compressor Station No. 9 - Roswell, NM**

| Sample Point     | Sampling Date | BTEX (ug/L) |         |              |                 | TPH (mg/L)           | Other VOCs (ug/L) |            |            | Major Ions (mg/L) |          |         |                    |          |         |           |           |        |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------|-------------------|------------|------------|-------------------|----------|---------|--------------------|----------|---------|-----------|-----------|--------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | GRO (Gasoline Range) | Acetone           | 2-Butanone | All Others | Phosphorus (As P) | Chloride | Sulfate | Nitrate (NO3 as N) | Fluoride | Calcium | Magnesium | Potassium | Sodium |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                 | none              | none       | NA         | none              | 250      | 600     | 10.0               | 1.6      | none    | none      | none      | none   |
| Pre-Treatment    | 07/13/04      | 6,900       | 8,500   | 280          | 2,600           | 37                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/17/04      | 6,000       | 7,600   | 240          | 2,400           | 37                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 09/16/04      | 6,200       | 8,100   | 360          | 2,600           | 37                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 10/15/04      | 4,000       | 4,400   | 220          | 1,700           | 26                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/15/04      | 6,600       | 7,800   | 300          | 2,600           | 37                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 04/22/05      | 4,200       | 4,100   | 81           | 2,200           | 25                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 05/20/05      | 3,400       | 2,700   | 160          | 2,000           | 29                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/15/05      | 4,800       | 5,900   | 260          | 2,300           | 25                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/22/05      | 6,200       | 7,700   | 250          | 2,600           | 35                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 03/13/06      | 4,300       | 6,500   | 270          | 2,600           | 38                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 04/17/06      | 4,900       | 8,800   | 310          | 2,900           | 30                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 05/18/06      | 4,700       | 8,000   | < 250        | 2,900           | 44                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/21/06      | 3,800       | 4,900   | 200          | 2,600           | 22                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/31/06      | 5,400       | 7,600   | 290          | 3,100           | 45                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/31/06      | 4,200       | 5,200   | 190          | 2,300           | 44                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 09/13/06      | 5,100       | 8,400   | 160          | 3,300           | 42                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 10/17/06      | 3,900       | 6,900   | 130          | 2,700           | 26                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/09/06      | 7,800       | 24,000  | 400          | 7,200           | 80                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 04/24/07      | 5,200       | 8,800   | 200          | 3,400           | 47                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 05/30/07      | 4,400       | 6,700   | < 100        | 3,800           | 46                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/31/07      | 3,800       | 7,000   | 340          | 3,000           | 39                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/21/07      | 3,500       | 3,400   | 340          | 2,800           | 30                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/20/07      | 1,700       | 81      | 260          | 900             | 14                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/15/08      | 440         | 2,200   | 150          | 2,900           | 15                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/28/08      | 490         | 990     | 140          | 2,300           | 12                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/14/08      | 370         | < 20    | 110          | 1,300           | 7                    | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 09/29/08      | 1,600       | 4,000   | 130          | 2,300           | 22                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 11/05/08      | 3,200       | 3,700   | 280          | 2,600           | 24                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 05/25/09      | 640         | 1,700   | 99           | 1,900           | 15                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 06/22/09      | 2,700       | 4,500   | 210          | 2,400           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 07/21/09      | 2,500       | 4,600   | 210          | 2,600           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 08/24/09      | 2,700       | 4,000   | 200          | 2,500           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 09/28/09      | 2,900       | 910     | 220          | 2,200           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |
|                  | 10/29/09      | 3,000       | 4,100   | 280          | 2,700           | --                   | ---               | ---        | ---        | ---               | ---      | ---     | ---                | ---      | ---     | ---       | ---       | ---    |

**Table 10. Summary of Water Treatment System Analyses  
Compressor Station No. 9 - Roswell, NM**

| Sample Point     | Sampling Date | BTEX (ug/L) |         |              |                 | TPH (mg/L)           | Other VOCs (ug/L) |            |            | Major Ions (mg/L) |          |         |                    |          |         |           |           |        |
|------------------|---------------|-------------|---------|--------------|-----------------|----------------------|-------------------|------------|------------|-------------------|----------|---------|--------------------|----------|---------|-----------|-----------|--------|
|                  |               | Benzene     | Toluene | Ethylbenzene | Xylenes (total) | GRO (Gasoline Range) | Acetone           | 2-Butanone | All Others | Phosphorus (As P) | Chloride | Sulfate | Nitrate (NO3 as N) | Fluoride | Calcium | Magnesium | Potassium | Sodium |
|                  |               |             |         |              |                 |                      |                   |            |            |                   |          |         |                    |          |         |           |           |        |
| NMWQCC Standard: |               | 10          | 750     | 750          | 620             | none                 | none              | none       | NA         | none              | 250      | 600     | 10.0               | 1.6      | none    | none      | none      | none   |
|                  | 11/18/09      | 1,400       | 3,300   | 140          | 2,000           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 06/30/10      | 2,700       | 2,800   | 120          | 1,500           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 07/31/10      | 1,900       | 2,000   | 140          | 1,300           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 08/30/10      | 1,800       | 2,600   | 150          | 1,800           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 11/10/10      | 2,400       | 3,900   | 220          | 2,100           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 08/10/11      | 970         | 1,900   | 130          | 1,400           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 10/09/11      | 3,000       | 4,800   | 240          | 2,500           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 11/03/11      | 2,400       | 4,900   | 260          | 2,800           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 04/30/12      | 3,100       | 3,400   | 200          | 2,100           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 06/05/12      | 2,600       | 3,900   | 220          | 2,200           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 06/28/12      | 3,000       | 4,500   | 250          | 2,300           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 07/25/12      | 2,900       | 4,600   | 260          | 2,700           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 08/15/12      | 2,900       | 3,500   | 270          | 2,300           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 09/23/12      | 2,600       | 3,600   | 270          | 2,400           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 10/25/12      | 3,200       | 4,400   | 280          | 2,600           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |
|                  | 11/28/12      | 2,300       | 3,700   | 230          | 2,300           | --                   | --                | --         | --         | --                | --       | --      | --                 | --       | --      | --        | --        | --     |

NOTES:

Only constituents detected in one or more groundwater samples are shown in this table

All results reported above the NMWQCC standard are shown in bold type

(---) A result for this constituent is not available

(a) Analyte present in method blank

(H) Holding times for preparation or analysis exceeded

\* Value exceeds Maximum Contaminant Level



**Table 11. Summary of Water Recovery and Water Irrigation Rates  
TWP Roswell Compressor Station Remediation Site**

| Date     | Time | Inspector | Meter reading<br>(gallons) | Irrigated<br>Volume<br>(gallons) | Cummulative<br>Irrigated<br>Volume<br>(gallons) | Elapsed<br>Time<br>(days) | Cummulative<br>Elapsed<br>Time<br>(days) | Average<br>Recovery Rate<br>(GPD) | Average<br>Recovery Rate<br>(GPM) | Reporting<br>Month | Monthly Irrigation<br>Volume<br>(gallons) | Average Irrigation Rate<br>for Reporting Month<br>(GPD) |
|----------|------|-----------|----------------------------|----------------------------------|-------------------------------------------------|---------------------------|------------------------------------------|-----------------------------------|-----------------------------------|--------------------|-------------------------------------------|---------------------------------------------------------|
| 12/31/03 | 1200 | NA        | 139500                     | 0                                | 0                                               | 0                         | 0                                        | --                                | --                                |                    |                                           |                                                         |
| 01/11/04 | 1200 | CB        | 139500                     | 0                                | 0                                               | 0                         | 0                                        | --                                | --                                |                    |                                           |                                                         |
| 01/12/04 | 1200 | CB        | 141300                     | 1,800                            | 1,800                                           | 1.0                       | 1.0                                      | 1800                              | 1.25                              |                    |                                           |                                                         |
| 01/14/04 | 1200 | CB        | 145900                     | 4,600                            | 6,400                                           | 2.0                       | 3.0                                      | 2300                              | 1.60                              |                    |                                           |                                                         |
| 01/31/04 | 1200 | NA        | 145900                     | 0                                | 6,400                                           | 17.0                      | 20.0                                     | 0                                 | 0.00                              | January            | 6400                                      | 206                                                     |
| 02/09/04 | 1200 | CB        | 147600                     | 1,700                            | 8,100                                           | 9.0                       | 29.0                                     | 189                               | 0.13                              |                    |                                           |                                                         |
| 02/17/04 | 1200 | CB        | 148600                     | 1,000                            | 9,100                                           | 8.0                       | 37.0                                     | 125                               | 0.09                              |                    |                                           |                                                         |
| 02/18/04 | 1200 | CB        | 150100                     | 1,500                            | 10,600                                          | 1.0                       | 38.0                                     | 1500                              | 1.04                              |                    |                                           |                                                         |
| 02/19/04 | 1200 | CB        | 153500                     | 3,400                            | 14,000                                          | 1.0                       | 39.0                                     | 3400                              | 2.36                              |                    |                                           |                                                         |
| 02/20/04 | 1200 | CB        | 153800                     | 300                              | 14,300                                          | 1.0                       | 40.0                                     | 300                               | 0.21                              |                    |                                           |                                                         |
| 02/21/04 | 1200 | CB        | 157100                     | 3,300                            | 17,600                                          | 1.0                       | 41.0                                     | 3300                              | 2.29                              |                    |                                           |                                                         |
| 02/23/04 | 1200 | CB        | 161100                     | 4,000                            | 21,600                                          | 2.0                       | 43.0                                     | 2000                              | 1.39                              |                    |                                           |                                                         |
| 02/26/04 | 1200 | CB        | 162000                     | 900                              | 22,500                                          | 3.0                       | 46.0                                     | 300                               | 0.21                              |                    |                                           |                                                         |
| 02/29/04 | 1200 | NA        | 162000                     | 0                                | 22,500                                          | 3.0                       | 49.0                                     | 0                                 | 0.00                              | February           | 16100                                     | 555                                                     |
| 03/02/04 | 1200 | CB        | 164800                     | 2,800                            | 25,300                                          | 2.0                       | 51.0                                     | 1400                              | 0.97                              |                    |                                           |                                                         |
| 03/04/04 | 1200 | CB        | 171700                     | 6,900                            | 32,200                                          | 2.0                       | 53.0                                     | 3450                              | 2.40                              |                    |                                           |                                                         |
| 03/31/04 | 1200 | NA        | 171700                     | 0                                | 32,200                                          | 27.0                      | 80.0                                     | 0                                 | 0.00                              | March              | 9700                                      | 313                                                     |
| 04/15/04 | 1200 | CB        | 174400                     | 2,700                            | 34,900                                          | 15.0                      | 95.0                                     | 180                               | 0.13                              |                    |                                           |                                                         |
| 04/16/04 | 1200 | CB        | 176100                     | 1,700                            | 36,600                                          | 1.0                       | 96.0                                     | 1700                              | 1.18                              |                    |                                           |                                                         |
| 04/17/04 | 1200 | CB        | 177900                     | 1,800                            | 38,400                                          | 1.0                       | 97.0                                     | 1800                              | 1.25                              |                    |                                           |                                                         |
| 04/18/04 | 1200 | CB        | 178900                     | 1,000                            | 39,400                                          | 1.0                       | 98.0                                     | 1000                              | 0.69                              |                    |                                           |                                                         |
| 04/19/04 | 1200 | CB        | 180400                     | 1,500                            | 40,900                                          | 1.0                       | 99.0                                     | 1500                              | 1.04                              |                    |                                           |                                                         |
| 04/20/04 | 1200 | CB        | 181700                     | 1,300                            | 42,200                                          | 1.0                       | 100.0                                    | 1300                              | 0.90                              |                    |                                           |                                                         |
| 04/21/04 | 1200 | CB        | 183400                     | 1,700                            | 43,900                                          | 1.0                       | 101.0                                    | 1700                              | 1.18                              |                    |                                           |                                                         |
| 04/24/04 | 1200 | CB        | 186000                     | 2,600                            | 46,500                                          | 3.0                       | 104.0                                    | 867                               | 0.60                              |                    |                                           |                                                         |
| 04/26/04 | 1200 | CB        | 189000                     | 3,000                            | 49,500                                          | 2.0                       | 106.0                                    | 1500                              | 1.04                              |                    |                                           |                                                         |
| 04/28/04 | 1200 | CB        | 193600                     | 4,600                            | 54,100                                          | 2.0                       | 108.0                                    | 2300                              | 1.60                              |                    |                                           |                                                         |
| 04/30/04 | 1200 | CB        | 199000                     | 5,400                            | 59,500                                          | 2.0                       | 110.0                                    | 2700                              | 1.88                              | April              | 27300                                     | 910                                                     |
| 05/01/04 | 1200 | CB        | 201400                     | 2,400                            | 61,900                                          | 1.0                       | 111.0                                    | 2400                              | 1.67                              |                    |                                           |                                                         |
| 05/04/04 | 1200 | CB        | 207000                     | 5,600                            | 67,500                                          | 3.0                       | 114.0                                    | 1867                              | 1.30                              |                    |                                           |                                                         |
| 05/05/04 | 1200 | CB        | 209900                     | 2,900                            | 70,400                                          | 1.0                       | 115.0                                    | 2900                              | 2.01                              |                    |                                           |                                                         |
| 05/07/04 | 1200 | CB        | 214100                     | 4,200                            | 74,600                                          | 2.0                       | 117.0                                    | 2100                              | 1.46                              |                    |                                           |                                                         |
| 05/08/04 | 1200 | CB        | 214200                     | 100                              | 74,700                                          | 1.0                       | 118.0                                    | 100                               | 0.07                              |                    |                                           |                                                         |
| 05/10/04 | 1200 | CB        | 214300                     | 100                              | 74,800                                          | 2.0                       | 120.0                                    | 50                                | 0.03                              |                    |                                           |                                                         |
| 05/12/04 | 1200 | CB        | 216300                     | 2,000                            | 76,800                                          | 2.0                       | 122.0                                    | 1000                              | 0.69                              |                    |                                           |                                                         |
| 05/15/04 | 1200 | CB        | 223500                     | 7,200                            | 84,000                                          | 3.0                       | 125.0                                    | 2400                              | 1.67                              |                    |                                           |                                                         |
| 05/18/04 | 1200 | CB        | 223800                     | 300                              | 84,300                                          | 3.0                       | 128.0                                    | 100                               | 0.07                              |                    |                                           |                                                         |
| 05/19/04 | 1200 | CB        | 226300                     | 2,500                            | 86,800                                          | 1.0                       | 129.0                                    | 2500                              | 1.74                              |                    |                                           |                                                         |
| 05/20/04 | 1200 | CB        | 227700                     | 1,400                            | 88,200                                          | 1.0                       | 130.0                                    | 1400                              | 0.97                              |                    |                                           |                                                         |
| 05/23/04 | 1200 | CB        | 227900                     | 200                              | 88,400                                          | 3.0                       | 133.0                                    | 67                                | 0.05                              |                    |                                           |                                                         |
| 05/24/04 | 1200 | CB        | 230300                     | 2,400                            | 90,800                                          | 1.0                       | 134.0                                    | 2400                              | 1.67                              | May                | 31300                                     | 1304                                                    |

**Table 11. Summary of Water Recovery and Water Irrigation Rates  
TWP Roswell Compressor Station Remediation Site**

| Date     | Time | Inspector | Meter reading<br>(gallons) | Irrigated<br>Volume<br>(gallons) | Cummulative<br>Irrigated<br>Volume<br>(gallons) | Elapsed<br>Time<br>(days) | Cummulative<br>Elapsed<br>Time<br>(days) | Average<br>Recovery Rate<br>(GPD) | Average<br>Recovery Rate<br>(GPM) | Reporting<br>Month | Monthly Irrigation<br>Volume<br>(gallons) | Average Irrigation Rate<br>for Reporting Month<br>(GPD) |
|----------|------|-----------|----------------------------|----------------------------------|-------------------------------------------------|---------------------------|------------------------------------------|-----------------------------------|-----------------------------------|--------------------|-------------------------------------------|---------------------------------------------------------|
| 06/01/04 | 1200 | CB        | 234900                     | 4,600                            | 95,400                                          | 8.0                       | 142.0                                    | 575                               | 0.40                              |                    |                                           |                                                         |
| 06/03/04 | 1200 | CB        | 237300                     | 2,400                            | 97,800                                          | 1.0                       | 143.0                                    | 2400                              | 1.67                              |                    |                                           |                                                         |
| 06/04/04 | 1200 | CB        | 238200                     | 900                              | 98,700                                          | 11.0                      | 154.0                                    | 82                                | 0.06                              |                    |                                           |                                                         |
| 06/23/04 | 1200 | CB        | 240600                     | 2,400                            | 101,100                                         | 19.0                      | 173.0                                    | 126                               | 0.09                              |                    |                                           |                                                         |
| 06/24/04 | 1200 | CB        | 242300                     | 1,700                            | 102,800                                         | 1.0                       | 174.0                                    | 1700                              | 1.18                              |                    |                                           |                                                         |
| 06/25/04 | 1200 | CB        | 245300                     | 3,000                            | 105,800                                         | 1.0                       | 175.0                                    | 3000                              | 2.08                              |                    |                                           |                                                         |
| 06/26/04 | 1200 | CB        | 247700                     | 2,400                            | 108,200                                         | 1.0                       | 176.0                                    | 2400                              | 1.67                              |                    |                                           |                                                         |
| 06/27/04 | 1200 | CB        | 250700                     | 3,000                            | 111,200                                         | 1.0                       | 177.0                                    | 3000                              | 2.08                              |                    |                                           |                                                         |
| 06/28/04 | 1200 | CB        | 250900                     | 200                              | 111,400                                         | 1.0                       | 178.0                                    | 200                               | 0.14                              | June               | 20600                                     | 589                                                     |
| 07/04/04 | 1200 | CB        | 253300                     | 2,400                            | 113,800                                         | 6.0                       | 184.0                                    | 400                               | 0.28                              |                    |                                           |                                                         |
| 07/06/04 | 1200 | CB        | 259600                     | 6,300                            | 120,100                                         | 2.0                       | 186.0                                    | 3150                              | 2.19                              |                    |                                           |                                                         |
| 07/11/04 | 1200 | CB        | 265900                     | 6,300                            | 126,400                                         | 5.0                       | 191.0                                    | 1260                              | 0.88                              |                    |                                           |                                                         |
| 07/13/04 | 1200 | CB        | 268600                     | 2,700                            | 129,100                                         | 2.0                       | 193.0                                    | 1350                              | 0.94                              |                    |                                           |                                                         |
| 07/16/04 | 1200 | CB        | 276400                     | 7,800                            | 136,900                                         | 3.0                       | 196.0                                    | 2600                              | 1.81                              |                    |                                           |                                                         |
| 07/21/04 | 1200 | CB        | 278100                     | 1,700                            | 138,600                                         | 5.0                       | 201.0                                    | 340                               | 0.24                              |                    |                                           |                                                         |
| 07/24/04 | 1200 | CB        | 286300                     | 8,200                            | 146,800                                         | 3.0                       | 204.0                                    | 2733                              | 1.90                              |                    |                                           |                                                         |
| 07/26/04 | 1200 | CB        | 289700                     | 3,400                            | 150,200                                         | 2.0                       | 206.0                                    | 1700                              | 1.18                              |                    |                                           |                                                         |
| 07/28/04 | 1200 | CB        | 292800                     | 3,100                            | 153,300                                         | 2.0                       | 208.0                                    | 1550                              | 1.08                              |                    |                                           |                                                         |
| 07/31/04 | 1200 | CB        | 301000                     | 8,200                            | 161,500                                         | 3.0                       | 211.0                                    | 2733                              | 1.90                              | July               | 50100                                     | 1518                                                    |
| 08/02/04 | 1200 | CB        | 304700                     | 3,700                            | 165,200                                         | 2.0                       | 213.0                                    | 1850                              | 1.28                              |                    |                                           |                                                         |
| 08/05/04 | 1200 | CB        | 309900                     | 5,200                            | 170,400                                         | 3.0                       | 216.0                                    | 1733                              | 1.20                              |                    |                                           |                                                         |
| 08/09/04 | 1200 | CB        | 314600                     | 4,700                            | 175,100                                         | 4.0                       | 220.0                                    | 1175                              | 0.82                              |                    |                                           |                                                         |
| 08/12/04 | 1200 | CB        | 316600                     | 2,000                            | 177,100                                         | 3.0                       | 223.0                                    | 667                               | 0.46                              |                    |                                           |                                                         |
| 08/14/04 | 1200 | CB        | 317700                     | 1,100                            | 178,200                                         | 2.0                       | 225.0                                    | 550                               | 0.38                              |                    |                                           |                                                         |
| 08/17/04 | 1200 | CB        | 319200                     | 1,500                            | 179,700                                         | 3.0                       | 228.0                                    | 500                               | 0.35                              | August             | 18200                                     | 1071                                                    |
| 09/13/04 | 1200 | CB        | 323900                     | 4,700                            | 184,400                                         | 27.0                      | 255.0                                    | 174                               | 0.12                              |                    |                                           |                                                         |
| 09/16/04 | 1200 | CB        | 327900                     | 4,000                            | 188,400                                         | 3.0                       | 258.0                                    | 1333                              | 0.93                              |                    |                                           |                                                         |
| 09/19/04 | 1200 | CB        | 334800                     | 6,900                            | 195,300                                         | 3.0                       | 261.0                                    | 2300                              | 1.60                              |                    |                                           |                                                         |
| 09/23/04 | 1200 | CB        | 340900                     | 6,100                            | 201,400                                         | 4.0                       | 265.0                                    | 1525                              | 1.06                              |                    |                                           |                                                         |
| 09/26/04 | 1200 | CB        | 346300                     | 5,400                            | 206,800                                         | 3.0                       | 268.0                                    | 1800                              | 1.25                              |                    |                                           |                                                         |
| 09/30/04 | 1200 | CB        | 354400                     | 8,100                            | 214,900                                         | 4.0                       | 272.0                                    | 2025                              | 1.41                              | September          | 35200                                     | 800                                                     |
| 10/03/04 | 1200 | CB        | 354700                     | 300                              | 215,200                                         | 3.0                       | 275.0                                    | 100                               | 0.07                              |                    |                                           |                                                         |
| 10/06/04 | 1200 | CB        | 357200                     | 2,500                            | 217,700                                         | 3.0                       | 278.0                                    | 833                               | 0.58                              |                    |                                           |                                                         |
| 10/09/04 | 1200 | CB        | 363900                     | 6,700                            | 224,400                                         | 3.0                       | 281.0                                    | 2233                              | 1.55                              |                    |                                           |                                                         |
| 10/13/04 | 1200 | CB        | 367100                     | 3,200                            | 227,600                                         | 4.0                       | 285.0                                    | 800                               | 0.56                              |                    |                                           |                                                         |
| 10/17/04 | 1200 | CB        | 367500                     | 400                              | 228,000                                         | 4.0                       | 289.0                                    | 100                               | 0.07                              |                    |                                           |                                                         |
| 10/20/04 | 1200 | CB        | 377600                     | 10,100                           | 238,100                                         | 3.0                       | 292.0                                    | 3367                              | 2.34                              |                    |                                           |                                                         |
| 10/27/04 | 1200 | CB        | 385000                     | 7,400                            | 245,500                                         | 7.0                       | 299.0                                    | 1057                              | 0.73                              |                    |                                           |                                                         |
| 11/07/04 | 1200 | CB        | 387500                     | 2,500                            | 248,000                                         | 11.0                      | 310.0                                    | 227                               | 0.16                              |                    |                                           |                                                         |
| 11/14/04 | 1200 | CB        | 390600                     | 3,100                            | 251,100                                         | 7.0                       | 317.0                                    | 443                               | 0.31                              |                    |                                           |                                                         |
| 11/16/04 | 1200 | CB        | 391000                     | 400                              | 251,500                                         | 2.0                       | 319.0                                    | 200                               | 0.14                              |                    |                                           |                                                         |
| 11/30/04 | 1200 | CB        | 391000                     | 0                                | 251,500                                         | 14.0                      | 333.0                                    | 0                                 | 0.00                              | November           | 36600                                     | 600                                                     |

**Table 11. Summary of Water Recovery and Water Irrigation Rates  
TWP Roswell Compressor Station Remediation Site**

| Date     | Time | Inspector | Meter reading<br>(gallons) | Irrigated<br>Volume<br>(gallons) | Cummulative<br>Irrigated<br>Volume<br>(gallons) | Elapsed<br>Time<br>(days) | Cummulative<br>Elapsed<br>Time<br>(days) | Average<br>Recovery Rate<br>(GPD) | Average<br>Recovery Rate<br>(GPM) | Reporting<br>Month | Monthly Irrigation<br>Volume<br>(gallons) | Average Irrigation Rate<br>for Reporting Month<br>(GPD) |
|----------|------|-----------|----------------------------|----------------------------------|-------------------------------------------------|---------------------------|------------------------------------------|-----------------------------------|-----------------------------------|--------------------|-------------------------------------------|---------------------------------------------------------|
| 03/08/05 | 1200 | CB        | 391700                     | 700                              | 252,200                                         | 98.0                      | 431.0                                    | 7                                 | 0.00                              |                    |                                           |                                                         |
| 03/14/05 | 1200 | CB        | 405200                     | 13,500                           | 265,700                                         | 6.0                       | 437.0                                    | 2250                              | 1.56                              |                    |                                           |                                                         |
| 03/22/05 | 1200 | CB        | 420600                     | 15,400                           | 281,100                                         | 8.0                       | 445.0                                    | 1925                              | 1.34                              |                    |                                           |                                                         |
| 03/24/05 | 1200 | CB        | 429600                     | 9,000                            | 290,100                                         | 2.0                       | 447.0                                    | 4500                              | 3.13                              | March              | 38600                                     | 339                                                     |
| 04/02/05 | 1200 | CB        | 432600                     | 3,000                            | 293,100                                         | 9.0                       | 456.0                                    | 333                               | 0.23                              |                    |                                           |                                                         |
| 04/07/05 | 1200 | CB        | 438800                     | 6,200                            | 299,300                                         | 5.0                       | 461.0                                    | 1240                              | 0.86                              |                    |                                           |                                                         |
| 04/07/05 | 1200 | CB        | 7460 (a)                   | 0                                | 299,300                                         | 0.0                       | 461.0                                    | 0                                 | 0.00                              |                    |                                           |                                                         |
| 04/10/05 | 1200 | CB        | 16690                      | 9,230                            | 308,530                                         | 3.0                       | 464.0                                    | 3077                              | 2.14                              |                    |                                           |                                                         |
| 04/14/05 | 1200 | CB        | 27580                      | 10,890                           | 319,420                                         | 4.0                       | 468.0                                    | 2723                              | 1.89                              |                    |                                           |                                                         |
| 04/27/05 | 1200 | CB        | 41470                      | 13,890                           | 333,310                                         | 13.0                      | 481.0                                    | 1068                              | 0.74                              | April              | 43210                                     | 1271                                                    |
| 05/02/05 | 1200 | CB        | 56380                      | 14,910                           | 348,220                                         | 5.0                       | 486.0                                    | 2982                              | 2.07                              |                    |                                           |                                                         |
| 05/08/05 | 1200 | CB        | 61640                      | 5,260                            | 353,480                                         | 6.0                       | 492.0                                    | 877                               | 0.61                              |                    |                                           |                                                         |
| 05/20/05 | 1200 | CB        | 69270                      | 7,630                            | 361,110                                         | 12.0                      | 504.0                                    | 636                               | 0.44                              |                    |                                           |                                                         |
| 05/25/05 | 1200 | CB        | 73550                      | 4,280                            | 365,390                                         | 5.0                       | 509.0                                    | 856                               | 0.59                              | May                | 32080                                     | 1146                                                    |
| 06/09/05 | 1200 | CB        | 75960                      | 2,410                            | 367,800                                         | 15.0                      | 524.0                                    | 161                               | 0.11                              |                    |                                           |                                                         |
| 06/14/05 | 1200 | CB        | 76960                      | 1,000                            | 368,800                                         | 5.0                       | 529.0                                    | 200                               | 0.14                              |                    |                                           |                                                         |
| 06/24/05 | 1200 | CB        | 78710                      | 1,750                            | 370,550                                         | 10.0                      | 539.0                                    | 175                               | 0.12                              |                    |                                           |                                                         |
| 06/27/05 | 1200 | CB        | 81800                      | 3,090                            | 373,640                                         | 3.0                       | 542.0                                    | 1030                              | 0.72                              | June               | 8250                                      | 250                                                     |
| 07/03/05 | 1200 | CB        | 84900                      | 3,100                            | 376,740                                         | 6.0                       | 548.0                                    | 517                               | 0.36                              |                    |                                           |                                                         |
| 07/10/05 | 1200 | CB        | 100830                     | 15,930                           | 392,670                                         | 7.0                       | 555.0                                    | 2276                              | 1.58                              |                    |                                           |                                                         |
| 07/15/05 | 1200 | CB        | 111240                     | 10,410                           | 403,080                                         | 5.0                       | 560.0                                    | 2082                              | 1.45                              |                    |                                           |                                                         |
| 07/19/05 | 1200 | CB        | 118110                     | 6,870                            | 409,950                                         | 4.0                       | 564.0                                    | 1718                              | 1.19                              |                    |                                           |                                                         |
| 07/26/05 | 1200 | CB        | 125200                     | 7,090                            | 417,040                                         | 7.0                       | 571.0                                    | 1013                              | 0.70                              |                    |                                           |                                                         |
| 07/31/05 | 1200 | CB        | 140340                     | 15,140                           | 432,180                                         | 5.0                       | 576.0                                    | 3028                              | 2.10                              | July               | 58540                                     | 1722                                                    |
| 08/03/05 | 1200 | CB        | 147630                     | 7,290                            | 439,470                                         | 3.0                       | 579.0                                    | 2430                              | 1.69                              |                    |                                           |                                                         |
| 08/09/05 | 1200 | CB        | 160960                     | 13,330                           | 452,800                                         | 6.0                       | 585.0                                    | 2222                              | 1.54                              |                    |                                           |                                                         |
| 08/15/05 | 1200 | CB        | 163940                     | 2,980                            | 455,780                                         | 6.0                       | 591.0                                    | 497                               | 0.34                              |                    |                                           |                                                         |
| 08/21/05 | 1200 | CB        | 183950                     | 20,010                           | 475,790                                         | 6.0                       | 597.0                                    | 3335                              | 2.32                              |                    |                                           |                                                         |
| 08/29/05 | 1200 | CB        | 198770                     | 14,820                           | 490,610                                         | 8.0                       | 605.0                                    | 1853                              | 1.29                              | August             | 58430                                     | 2015                                                    |
| 10/18/05 | 1200 | CB        | 200940                     | 2,170                            | 492,780                                         | 50.0                      | 655.0                                    | 43                                | 0.03                              |                    |                                           |                                                         |
| 10/24/05 | 1200 | CB        | 207450                     | 6,510                            | 499,290                                         | 6.0                       | 661.0                                    | 1085                              | 0.75                              |                    |                                           |                                                         |
| 10/29/05 | 1200 | CB        | 207920                     | 470                              | 499,760                                         | 5.0                       | 666.0                                    | 94                                | 0.07                              | October            | 9150                                      | 150                                                     |
| 11/01/05 | 1200 | CB        | 215990                     | 8,070                            | 507,830                                         | 3.0                       | 669.0                                    | 2690                              | 1.87                              |                    |                                           |                                                         |
| 11/05/05 | 1200 | CB        | 224300                     | 8,310                            | 516,140                                         | 4.0                       | 673.0                                    | 2078                              | 1.44                              |                    |                                           |                                                         |
| 11/15/05 | 1200 | CB        | 238950                     | 14,650                           | 530,790                                         | 10.0                      | 683.0                                    | 1465                              | 1.02                              | November           | 31030                                     | 1825                                                    |

**Table 11. Summary of Water Recovery and Water Irrigation Rates  
TWP Roswell Compressor Station Remediation Site**

| Date     | Time | Inspector | Meter reading<br>(gallons) | Irrigated<br>Volume<br>(gallons) | Cummulative<br>Irrigated<br>Volume<br>(gallons) | Elapsed<br>Time<br>(days) | Cummulative<br>Elapsed<br>Time<br>(days) | Average<br>Recovery Rate<br>(GPD) | Average<br>Recovery Rate<br>(GPM) | Reporting<br>Month | Monthly Irrigation<br>Volume<br>(gallons) | Average Irrigation Rate<br>for Reporting Month<br>(GPD) |
|----------|------|-----------|----------------------------|----------------------------------|-------------------------------------------------|---------------------------|------------------------------------------|-----------------------------------|-----------------------------------|--------------------|-------------------------------------------|---------------------------------------------------------|
| 03/08/06 | 1200 | CB        | 242550                     | 3,600                            | 534,390                                         | 113.0                     | 796.0                                    | 32                                | 0.02                              |                    |                                           |                                                         |
| 03/13/06 | 1200 | CB        | 258110                     | 15,560                           | 549,950                                         | 5.0                       | 801.0                                    | 3112                              | 2.16                              |                    |                                           |                                                         |
| 03/19/06 | 1200 | CB        | 272360                     | 14,250                           | 564,200                                         | 6.0                       | 807.0                                    | 2375                              | 1.65                              | March              | 33410                                     | 269                                                     |
| 04/03/06 | 1200 | CB        | 286630                     | 14,270                           | 578,470                                         | 15.0                      | 822.0                                    | 951                               | 0.66                              |                    |                                           |                                                         |
| 04/10/06 | 1200 | CB        | 300710                     | 14,080                           | 592,550                                         | 7.0                       | 829.0                                    | 2011                              | 1.40                              |                    |                                           |                                                         |
| 04/17/06 | 1200 | CB        | 320170                     | 19,460                           | 612,010                                         | 7.0                       | 836.0                                    | 2780                              | 1.93                              |                    |                                           |                                                         |
| 04/25/06 | 1200 | CB        | 342280                     | 22,110                           | 634,120                                         | 8.0                       | 844.0                                    | 2764                              | 1.92                              |                    |                                           |                                                         |
| 04/27/06 | 1200 | CB        | 343730                     | 1,450                            | 635,570                                         | 2.0                       | 846.0                                    | 725                               | 0.50                              | April              | 71370                                     | 1830                                                    |
| 05/10/06 | 1200 | CB        | 344770                     | 1,040                            | 636,610                                         | 13.0                      | 859.0                                    | 80                                | 0.06                              |                    |                                           |                                                         |
| 05/15/06 | 1200 | CB        | 356320                     | 11,550                           | 648,160                                         | 5.0                       | 864.0                                    | 2310                              | 1.60                              |                    |                                           |                                                         |
| 05/23/06 | 1200 | CB        | 378110                     | 21,790                           | 669,950                                         | 8.0                       | 872.0                                    | 2724                              | 1.89                              |                    |                                           |                                                         |
| 05/29/06 | 1200 | CB        | 385470                     | 7,360                            | 677,310                                         | 6.0                       | 878.0                                    | 1227                              | 0.85                              |                    |                                           |                                                         |
| 05/31/06 | 1200 | CB        | 390720                     | 5,250                            | 682,560                                         | 2.0                       | 880.0                                    | 2625                              | 1.82                              | May                | 46990                                     | 1382                                                    |
| 06/04/06 | 1200 | CB        | 401580                     | 10,860                           | 693,420                                         | 4.0                       | 884.0                                    | 2715                              | 1.89                              |                    |                                           |                                                         |
| 06/08/06 | 1200 | CB        | 410940                     | 9,360                            | 702,780                                         | 4.0                       | 888.0                                    | 2340                              | 1.63                              |                    |                                           |                                                         |
| 06/13/06 | 1200 | CB        | 422890                     | 11,950                           | 714,730                                         | 5.0                       | 893.0                                    | 2390                              | 1.66                              |                    |                                           |                                                         |
| 06/19/06 | 1200 | CB        | 434390                     | 11,500                           | 726,230                                         | 6.0                       | 899.0                                    | 1917                              | 1.33                              |                    |                                           |                                                         |
| 06/23/06 | 1200 | CB        | 440610                     | 6,220                            | 732,450                                         | 4.0                       | 903.0                                    | 1555                              | 1.08                              |                    |                                           |                                                         |
| 06/30/06 | 1200 | CB        | 453340                     | 12,730                           | 745,180                                         | 7.0                       | 910.0                                    | 1819                              | 1.26                              | June               | 62620                                     | 2087                                                    |
| 07/03/06 | 1200 | CB        | 455180                     | 1,840                            | 747,020                                         | 3.0                       | 913.0                                    | 613                               | 0.43                              |                    |                                           |                                                         |
| 07/10/06 | 1200 | CB        | 455400                     | 220                              | 747,240                                         | 7.0                       | 920.0                                    | 31                                | 0.02                              |                    |                                           |                                                         |
| 07/17/06 | 1200 | CB        | 459060                     | 3,660                            | 750,900                                         | 7.0                       | 927.0                                    | 523                               | 0.36                              |                    |                                           |                                                         |
| 07/20/06 | 1200 | CB        | 464470                     | 5,410                            | 756,310                                         | 3.0                       | 930.0                                    | 1803                              | 1.25                              |                    |                                           |                                                         |
| 07/26/06 | 1200 | CB        | 475010                     | 10,540                           | 766,850                                         | 6.0                       | 936.0                                    | 1757                              | 1.22                              |                    |                                           |                                                         |
| 07/31/06 | 1200 | CB        | 483090                     | 8,080                            | 774,930                                         | 5.0                       | 941.0                                    | 1616                              | 1.12                              | July               | 29750                                     | 960                                                     |
| 08/03/06 | 1200 | CB        | 487910                     | 4,820                            | 779,750                                         | 3.0                       | 944.0                                    | 1607                              | 1.12                              |                    |                                           |                                                         |
| 08/08/06 | 1200 | CB        | 495280                     | 7,370                            | 787,120                                         | 5.0                       | 949.0                                    | 1474                              | 1.02                              |                    |                                           |                                                         |
| 08/14/06 | 1200 | CB        | 503030                     | 7,750                            | 794,870                                         | 6.0                       | 955.0                                    | 1292                              | 0.90                              |                    |                                           |                                                         |
| 08/22/06 | 1200 | CB        | 504340                     | 1,310                            | 796,180                                         | 8.0                       | 963.0                                    | 164                               | 0.11                              |                    |                                           |                                                         |
| 08/31/06 | 1200 | CB        | 506140                     | 1,800                            | 797,980                                         | 9.0                       | 972.0                                    | 200                               | 0.14                              | August             | 23050                                     | 744                                                     |
| 09/05/06 | 1200 | CB        | 512200                     | 6,060                            | 804,040                                         | 5.0                       | 977.0                                    | 1212                              | 0.84                              |                    |                                           |                                                         |
| 09/08/06 | 1200 | CB        | 519420                     | 7,220                            | 811,260                                         | 3.0                       | 980.0                                    | 2407                              | 1.67                              |                    |                                           |                                                         |
| 09/13/06 | 1200 | CB        | 530990                     | 11,570                           | 822,830                                         | 5.0                       | 985.0                                    | 2314                              | 1.61                              |                    |                                           |                                                         |
| 09/24/06 | 1200 | CB        | 536610                     | 5,620                            | 828,450                                         | 11.0                      | 996.0                                    | 511                               | 0.35                              |                    |                                           |                                                         |
| 10/01/06 | 1200 | CB        | 551070                     | 14,460                           | 842,910                                         | 7.0                       | 1003.0                                   | 2066                              | 1.43                              | September          | 44930                                     | 1449                                                    |
| 10/11/06 | 1200 | CB        | 566080                     | 15,010                           | 857,920                                         | 10.0                      | 1013.0                                   | 1501                              | 1.04                              |                    |                                           |                                                         |
| 10/17/06 | 1200 | CB        | 570470                     | 4,390                            | 862,310                                         | 6.0                       | 1019.0                                   | 732                               | 0.51                              |                    |                                           |                                                         |
| 10/23/06 | 1200 | CB        | 581710                     | 11,240                           | 873,550                                         | 6.0                       | 1025.0                                   | 1873                              | 1.30                              |                    |                                           |                                                         |
| 10/30/06 | 1200 | CB        | 594160                     | 12,450                           | 886,000                                         | 7.0                       | 1032.0                                   | 1779                              | 1.24                              | October            | 43090                                     | 1486                                                    |
| 11/03/06 | 1200 | CB        | 601330                     | 7,170                            | 893,170                                         | 4.0                       | 1036.0                                   | 1793                              | 1.24                              |                    |                                           |                                                         |
| 11/08/06 | 1200 | CB        | 611850                     | 10,520                           | 903,690                                         | 5.0                       | 1041.0                                   | 2104                              | 1.46                              |                    |                                           |                                                         |
| 11/15/06 | 1200 | CB        | 622970                     | 11,120                           | 914,810                                         | 7.0                       | 1048.0                                   | 1589                              | 1.10                              | November           | 28810                                     | 1801                                                    |

**Table 11. Summary of Water Recovery and Water Irrigation Rates  
TWP Roswell Compressor Station Remediation Site**

| Date     | Time | Inspector | Meter reading<br>(gallons) | Irrigated<br>Volume<br>(gallons) | Cummulative<br>Irrigated<br>Volume<br>(gallons) | Elapsed<br>Time<br>(days) | Cummulative<br>Elapsed<br>Time<br>(days) | Average<br>Recovery Rate<br>(GPD) | Average<br>Recovery Rate<br>(GPM) | Reporting<br>Month | Monthly Irrigation<br>Volume<br>(gallons) | Average Irrigation Rate<br>for Reporting Month<br>(GPD) |
|----------|------|-----------|----------------------------|----------------------------------|-------------------------------------------------|---------------------------|------------------------------------------|-----------------------------------|-----------------------------------|--------------------|-------------------------------------------|---------------------------------------------------------|
| 04/12/07 | 1200 | CB        | 623030                     | 60                               | 914,870                                         | 148.0                     | 1196.0                                   | 0                                 | 0.00                              |                    |                                           |                                                         |
| 04/15/07 | 1200 | CB        | 623890                     | 860                              | 915,730                                         | 3.0                       | 1199.0                                   | 287                               | 0.20                              |                    |                                           |                                                         |
| 04/20/07 | 1200 | CB        | 629130                     | 5,240                            | 920,970                                         | 5.0                       | 1204.0                                   | 1048                              | 0.73                              |                    |                                           |                                                         |
| 04/24/07 | 1200 | CB        | 632590                     | 3,460                            | 924,430                                         | 4.0                       | 1208.0                                   | 865                               | 0.60                              |                    |                                           |                                                         |
| 05/02/07 | 1200 | CB        | 639700                     | 7,110                            | 931,540                                         | 8.0                       | 1216.0                                   | 889                               | 0.62                              | April              | 16730                                     | 100                                                     |
| 05/05/07 | 1200 | CB        | 641220                     | 1,520                            | 933,060                                         | 3.0                       | 1219.0                                   | 507                               | 0.35                              |                    |                                           |                                                         |
| 05/07/07 | 1200 | CB        | 641370                     | 150                              | 933,210                                         | 2.0                       | 1221.0                                   | 75                                | 0.05                              |                    |                                           |                                                         |
| 05/09/07 | 1200 | CB        | 641390                     | 20                               | 933,230                                         | 2.0                       | 1223.0                                   | 10                                | 0.01                              |                    |                                           |                                                         |
| 05/29/07 | 1200 | CB        | 648620                     | 7,230                            | 940,460                                         | 20.0                      | 1243.0                                   | 362                               | 0.25                              |                    |                                           |                                                         |
| 05/30/07 | 1200 | CB        | 650280                     | 1,660                            | 942,120                                         | 1.0                       | 1244.0                                   | 1660                              | 1.15                              | May                | 10580                                     | 378                                                     |
| 06/05/07 | 1200 | CB        | 665000                     | 14,720                           | 956,840                                         | 6.0                       | 1250.0                                   | 2453                              | 1.70                              |                    |                                           |                                                         |
| 06/13/07 | 1200 | CB        | 674520                     | 9,520                            | 966,360                                         | 8.0                       | 1258.0                                   | 1190                              | 0.83                              |                    |                                           |                                                         |
| 06/18/07 | 1200 | CB        | 675100                     | 580                              | 966,940                                         | 5.0                       | 1263.0                                   | 116                               | 0.08                              |                    |                                           |                                                         |
| 06/21/07 | 1200 | CB        | 675110                     | 10                               | 966,950                                         | 3.0                       | 1266.0                                   | 3                                 | 0.00                              | June               | 24830                                     | 1129                                                    |
| 07/17/07 | 1200 | CB        | 675680                     | 570                              | 967,520                                         | 26.0                      | 1292.0                                   | 22                                | 0.02                              |                    |                                           |                                                         |
| 07/24/07 | 1200 | CB        | 682700                     | 7,020                            | 974,540                                         | 7.0                       | 1299.0                                   | 1003                              | 0.70                              |                    |                                           |                                                         |
| 07/31/07 | 1200 | CB        | 689370                     | 6,670                            | 981,210                                         | 7.0                       | 1306.0                                   | 953                               | 0.66                              | July               | 14260                                     | 357                                                     |
| 08/06/07 | 1200 | CB        | 693540                     | 4,170                            | 985,380                                         | 6.0                       | 1312.0                                   | 695                               | 0.48                              |                    |                                           |                                                         |
| 08/11/07 | 1200 | CB        | 697230                     | 3,690                            | 989,070                                         | 5.0                       | 1317.0                                   | 738                               | 0.51                              |                    |                                           |                                                         |
| 08/16/07 | 1200 | CB        | 700660                     | 3,430                            | 992,500                                         | 5.0                       | 1322.0                                   | 686                               | 0.48                              |                    |                                           |                                                         |
| 08/21/07 | 1200 | CB        | 703520                     | 2,860                            | 995,360                                         | 5.0                       | 1327.0                                   | 572                               | 0.40                              |                    |                                           |                                                         |
| 08/27/07 | 1200 | CB        | 713170                     | 9,650                            | 1,005,010                                       | 6.0                       | 1333.0                                   | 1608                              | 1.12                              | August             | 23800                                     | 881                                                     |
| 05/14/08 | 1200 | CB        | 713470                     | 300                              | 1,005,310                                       | 261.0                     | 1594.0                                   | 1                                 | 0.00                              |                    |                                           |                                                         |
| 05/18/08 | 1200 | CB        | 719200                     | 5,730                            | 1,011,040                                       | 4.0                       | 1598.0                                   | 1433                              | 0.99                              |                    |                                           |                                                         |
| 05/19/08 | 1200 | CB        | 719230                     | 30                               | 1,011,070                                       | 1.0                       | 1599.0                                   | 30                                | 0.02                              | May                | 6060                                      | 23                                                      |
| 06/18/08 | 1200 | CB        | 750860                     | 31,630                           | 1,042,700                                       | 30.0                      | 1629.0                                   | 1054                              | 0.73                              |                    |                                           |                                                         |
| 06/24/08 | 1200 | CB        | 767470                     | 16,610                           | 1,059,310                                       | 6.0                       | 1635.0                                   | 2768                              | 1.92                              |                    |                                           |                                                         |
| 06/30/08 | 1200 | CB        | 777320                     | 9,850                            | 1,069,160                                       | 6.0                       | 1641.0                                   | 1642                              | 1.14                              | June               | 58090                                     | 1383                                                    |
| 07/01/08 | 1200 | CB        | 778860                     | 1,540                            | 1,070,700                                       | 1.0                       | 1642.0                                   | 1540                              | 1.07                              |                    |                                           |                                                         |
| 07/08/08 | 1200 | CB        | 787480                     | 8,620                            | 1,079,320                                       | 7.0                       | 1649.0                                   | 1231                              | 0.86                              |                    |                                           |                                                         |
| 07/24/08 | 1200 | CB        | 787500                     | 20                               | 1,079,340                                       | 16.0                      | 1665.0                                   | 1                                 | 0.00                              |                    |                                           |                                                         |
| 07/26/08 | 1200 | CB        | 812270                     | 24,770                           | 1,104,110                                       | 2.0                       | 1667.0                                   | 12385                             | 8.60                              |                    |                                           |                                                         |
| 07/31/08 | 1200 | CB        | 814810                     | 2,540                            | 1,106,650                                       | 5.0                       | 1672.0                                   | 508                               | 0.35                              | July               | 37490                                     | 1209                                                    |
| 08/04/08 | 1200 | CB        | 814810                     | 0                                | 1,106,650                                       | 4.0                       | 1676.0                                   | 0                                 | 0.00                              |                    |                                           |                                                         |
| 08/11/08 | 1200 | CB        | 815390                     | 580                              | 1,107,230                                       | 7.0                       | 1683.0                                   | 83                                | 0.06                              |                    |                                           |                                                         |
| 08/17/08 | 1200 | CB        | 817560                     | 2,170                            | 1,109,400                                       | 6.0                       | 1689.0                                   | 362                               | 0.25                              |                    |                                           |                                                         |
| 08/21/08 | 1200 | CB        | 823150                     | 5,590                            | 1,114,990                                       | 4.0                       | 1693.0                                   | 1398                              | 0.97                              |                    |                                           |                                                         |
| 08/25/08 | 1200 | CB        | 833290                     | 10,140                           | 1,125,130                                       | 4.0                       | 1697.0                                   | 2535                              | 1.76                              |                    |                                           |                                                         |
| 08/31/08 | 1200 | CB        | 852270                     | 18,980                           | 1,144,110                                       | 6.0                       | 1703.0                                   | 3163                              | 2.20                              | August             | 37460                                     | 1208                                                    |
| 09/04/08 | 1200 | CB        | 868960                     | 16,690                           | 1,160,800                                       | 4.0                       | 1707.0                                   | 4173                              | 2.90                              |                    |                                           |                                                         |
| 09/06/08 | 1200 | CB        | 877520                     | 8,560                            | 1,169,360                                       | 2.0                       | 1709.0                                   | 4280                              | 2.97                              |                    |                                           |                                                         |
| 09/19/08 | 1200 | CB        | 880450                     | 2,930                            | 1,172,290                                       | 13.0                      | 1722.0                                   | 225                               | 0.16                              |                    |                                           |                                                         |
| 09/26/08 | 1200 | CB        | 889370                     | 8,920                            | 1,181,210                                       | 7.0                       | 1729.0                                   | 1274                              | 0.88                              |                    |                                           |                                                         |
| 09/30/08 | 1200 | CB        | 906070                     | 16,700                           | 1,197,910                                       | 4.0                       | 1733.0                                   | 4175                              | 2.90                              | September          | 53800                                     | 1793                                                    |
| 10/06/08 | 1200 | CB        | 930320                     | 24,250                           | 1,222,160                                       | 6.0                       | 1739.0                                   | 4042                              | 2.81                              |                    |                                           |                                                         |
| 10/15/08 | 1200 | CB        | 939300                     | 8,980                            | 1,231,140                                       | 9.0                       | 1748.0                                   | 998                               | 0.69                              |                    |                                           |                                                         |
| 10/21/08 | 1200 | CB        | 941950                     | 2,650                            | 1,233,790                                       | 6.0                       | 1754.0                                   | 442                               | 0.31                              |                    |                                           |                                                         |
| 10/24/08 | 1200 | CB        | 943270                     | 1,320                            | 1,235,110                                       | 3.0                       | 1757.0                                   | 440                               | 0.31                              | October            | 37200                                     | 1550                                                    |
| 11/04/08 | 1200 | CB        | 943290                     | 20                               | 1,235,130                                       | 11.0                      | 1768.0                                   | 2                                 | 0.00                              |                    |                                           |                                                         |
| 11/07/08 | 1200 | CB        | 949020                     | 5,730                            | 1,240,860                                       | 3.0                       | 1771.0                                   | 1910                              | 1.33                              |                    |                                           |                                                         |
| 11/18/08 | 1200 | CB        | 949300                     | 280                              | 1,241,140                                       | 11.0                      | 1782.0                                   | 25                                | 0.02                              | November           | 6030                                      | 241                                                     |

**Table 11. Summary of Water Recovery and Water Irrigation Rates  
TWP Roswell Compressor Station Remediation Site**

| Date     | Time | Inspector | Meter reading<br>(gallons) | Irrigated<br>Volume<br>(gallons) | Cummulative<br>Irrigated<br>Volume<br>(gallons) | Elapsed<br>Time<br>(days) | Cummulative<br>Elapsed<br>Time<br>(days) | Average<br>Recovery Rate<br>(GPD) | Average<br>Recovery Rate<br>(GPM) | Reporting<br>Month | Monthly Irrigation<br>Volume<br>(gallons) | Average Irrigation Rate<br>for Reporting Month<br>(GPD) |
|----------|------|-----------|----------------------------|----------------------------------|-------------------------------------------------|---------------------------|------------------------------------------|-----------------------------------|-----------------------------------|--------------------|-------------------------------------------|---------------------------------------------------------|
| 05/01/09 | 1200 | CB        | 964480                     | 15,180                           | 1,256,320                                       | 164.0                     | 1946.0                                   | 93                                | 0.06                              | May                | 70520                                     | 364                                                     |
| 05/16/09 | 1200 | CB        | 976370                     | 11,890                           | 1,268,210                                       | 15.0                      | 1961.0                                   | 793                               | 0.55                              |                    |                                           |                                                         |
| 05/20/09 | 1200 | CB        | 985920                     | 9,550                            | 1,277,760                                       | 4.0                       | 1965.0                                   | 2388                              | 1.66                              |                    |                                           |                                                         |
| 05/25/09 | 1200 | CB        | 1003890                    | 17,970                           | 1,295,730                                       | 5.0                       | 1970.0                                   | 3594                              | 2.50                              |                    |                                           |                                                         |
| 05/29/09 | 1200 | CB        | 1014750                    | 10,860                           | 1,306,590                                       | 4.0                       | 1974.0                                   | 2715                              | 1.89                              |                    |                                           |                                                         |
| 05/31/09 | 1200 | CB        | 1019820                    | 5,070                            | 1,311,660                                       | 2.0                       | 1976.0                                   | 2535                              | 1.76                              | June               | 48620                                     | 1945                                                    |
| 06/04/09 | 1200 | CB        | 1030720                    | 10,900                           | 1,322,560                                       | 4.0                       | 1980.0                                   | 2725                              | 1.89                              |                    |                                           |                                                         |
| 06/08/09 | 1200 | CB        | 1040710                    | 9,990                            | 1,332,550                                       | 4.0                       | 1984.0                                   | 2498                              | 1.73                              |                    |                                           |                                                         |
| 06/15/09 | 1200 | CB        | 1055760                    | 15,050                           | 1,347,600                                       | 7.0                       | 1991.0                                   | 2150                              | 1.49                              |                    |                                           |                                                         |
| 06/20/09 | 1200 | CB        | 1064810                    | 9,050                            | 1,356,650                                       | 5.0                       | 1996.0                                   | 1810                              | 1.26                              |                    |                                           |                                                         |
| 06/25/09 | 1200 | CB        | 1068440                    | 3,630                            | 1,360,280                                       | 5.0                       | 2001.0                                   | 726                               | 0.50                              | July               | 42160                                     | 1171                                                    |
| 07/04/09 | 1200 | CB        | 1074550                    | 6,110                            | 1,366,390                                       | 9.0                       | 2010.0                                   | 679                               | 0.47                              |                    |                                           |                                                         |
| 07/07/09 | 1200 | CB        | 1082120                    | 7,570                            | 1,373,960                                       | 3.0                       | 2013.0                                   | 2523                              | 1.75                              |                    |                                           |                                                         |
| 07/13/09 | 1200 | CB        | 1094120                    | 12,000                           | 1,385,960                                       | 6.0                       | 2019.0                                   | 2000                              | 1.39                              |                    |                                           |                                                         |
| 07/17/09 | 1200 | CB        | 1098480                    | 4,360                            | 1,390,320                                       | 4.0                       | 2023.0                                   | 1090                              | 0.76                              |                    |                                           |                                                         |
| 07/21/09 | 1200 | CB        | 1105500                    | 7,020                            | 1,397,340                                       | 4.0                       | 2027.0                                   | 1755                              | 1.22                              | August             | 47870                                     | 1710                                                    |
| 07/27/09 | 1200 | CB        | 1107950                    | 2,450                            | 1,399,790                                       | 6.0                       | 2033.0                                   | 408                               | 0.28                              |                    |                                           |                                                         |
| 07/31/09 | 1200 | CB        | 1110600                    | 2,650                            | 1,402,440                                       | 4.0                       | 2037.0                                   | 663                               | 0.46                              |                    |                                           |                                                         |
| 08/04/09 | 1200 | CB        | 1112060                    | 1,460                            | 1,403,900                                       | 4.0                       | 2041.0                                   | 365                               | 0.25                              |                    |                                           |                                                         |
| 08/10/09 | 1200 | CB        | 1124810                    | 12,750                           | 1,416,650                                       | 6.0                       | 2047.0                                   | 2125                              | 1.48                              |                    |                                           |                                                         |
| 08/13/09 | 1200 | CB        | 1130140                    | 5,330                            | 1,421,980                                       | 3.0                       | 2050.0                                   | 1777                              | 1.23                              | September          | 7820                                      | 237                                                     |
| 08/17/09 | 1200 | CB        | 1137560                    | 7,420                            | 1,429,400                                       | 4.0                       | 2054.0                                   | 1855                              | 1.29                              |                    |                                           |                                                         |
| 08/21/09 | 1200 | CB        | 1145780                    | 8,220                            | 1,437,620                                       | 4.0                       | 2058.0                                   | 2055                              | 1.43                              |                    |                                           |                                                         |
| 08/28/09 | 1200 | CB        | 1158470                    | 12,690                           | 1,450,310                                       | 7.0                       | 2065.0                                   | 1813                              | 1.26                              |                    |                                           |                                                         |
| 09/01/09 | 1200 | CB        | 1158960                    | 490                              | 1,450,800                                       | 4.0                       | 2069.0                                   | 123                               | 0.09                              |                    |                                           |                                                         |
| 09/07/09 | 1200 | CB        | 1162130                    | 3,170                            | 1,453,970                                       | 6.0                       | 2075.0                                   | 528                               | 0.37                              | October            | 21330                                     | 688                                                     |
| 09/14/09 | 1200 | CB        | 1163840                    | 1,710                            | 1,455,680                                       | 7.0                       | 2082.0                                   | 244                               | 0.17                              |                    |                                           |                                                         |
| 09/21/09 | 1200 | CB        | 1165080                    | 1,240                            | 1,456,920                                       | 7.0                       | 2089.0                                   | 177                               | 0.12                              |                    |                                           |                                                         |
| 09/25/09 | 1200 | CB        | 1165680                    | 600                              | 1,457,520                                       | 4.0                       | 2093.0                                   | 150                               | 0.10                              |                    |                                           |                                                         |
| 09/30/09 | 1200 | CB        | 1166290                    | 610                              | 1,458,130                                       | 5.0                       | 2098.0                                   | 122                               | 0.08                              |                    |                                           |                                                         |
| 10/06/09 | 1200 | CB        | 1176620                    | 10,330                           | 1,468,460                                       | 6.0                       | 2104.0                                   | 1722                              | 1.20                              | November           | 35860                                     | 1559                                                    |
| 10/12/09 | 1200 | CB        | 1177250                    | 630                              | 1,469,090                                       | 6.0                       | 2110.0                                   | 105                               | 0.07                              |                    |                                           |                                                         |
| 10/22/09 | 1200 | CB        | 1180690                    | 3,440                            | 1,472,530                                       | 10.0                      | 2120.0                                   | 344                               | 0.24                              |                    |                                           |                                                         |
| 10/26/09 | 1200 | CB        | 1180920                    | 230                              | 1,472,760                                       | 4.0                       | 2124.0                                   | 58                                | 0.04                              |                    |                                           |                                                         |
| 10/31/09 | 1200 | CB        | 1187620                    | 6,700                            | 1,479,460                                       | 5.0                       | 2129.0                                   | 1340                              | 0.93                              |                    |                                           |                                                         |
| 11/05/09 | 1200 | CB        | 1196570                    | 8,950                            | 1,488,410                                       | 5.0                       | 2134.0                                   | 1790                              | 1.24                              |                    |                                           |                                                         |
| 11/16/09 | 1200 | CB        | 1214350                    | 17,780                           | 1,506,190                                       | 11.0                      | 2145.0                                   | 1616                              | 1.12                              |                    |                                           |                                                         |
| 11/23/09 | 1200 | CB        | 1223480                    | 9,130                            | 1,515,320                                       | 7.0                       | 2152.0                                   | 1304                              | 0.91                              |                    |                                           |                                                         |

**Table 11. Summary of Water Recovery and Water Irrigation Rates  
TWP Roswell Compressor Station Remediation Site**

| Date     | Time | Inspector | Meter reading<br>(gallons) | Irrigated<br>Volume<br>(gallons) | Cummulative<br>Irrigated<br>Volume<br>(gallons) | Elapsed<br>Time<br>(days) | Cummulative<br>Elapsed<br>Time<br>(days) | Average<br>Recovery Rate<br>(GPD) | Average<br>Recovery Rate<br>(GPM) | Reporting<br>Month | Monthly Irrigation<br>Volume<br>(gallons) | Average Irrigation Rate<br>for Reporting Month<br>(GPD) |
|----------|------|-----------|----------------------------|----------------------------------|-------------------------------------------------|---------------------------|------------------------------------------|-----------------------------------|-----------------------------------|--------------------|-------------------------------------------|---------------------------------------------------------|
| 06/20/10 | 1200 | CB        | 1223490                    | 10                               | 1,515,330                                       | 209.0                     | 2361.0                                   | 0                                 | 0.00                              | June               | 3710                                      | 17                                                      |
| 06/24/10 | 1200 | CB        | 1224100                    | 610                              | 1,515,940                                       | 4.0                       | 2365.0                                   | 153                               | 0.11                              |                    |                                           |                                                         |
| 06/30/10 | 1200 | CB        | 1227190                    | 3,090                            | 1,519,030                                       | 6.0                       | 2371.0                                   | 515                               | 0.36                              |                    |                                           |                                                         |
| 07/07/10 | 1200 | CB        | 1232290                    | 5,100                            | 1,524,130                                       | 7.0                       | 2378.0                                   | 729                               | 0.51                              |                    |                                           |                                                         |
| 07/14/10 | 1200 | CB        | 1235080                    | 2,790                            | 1,526,920                                       | 7.0                       | 2385.0                                   | 399                               | 0.28                              |                    |                                           |                                                         |
| 07/19/10 | 1200 | CB        | 1236340                    | 1,260                            | 1,528,180                                       | 5.0                       | 2390.0                                   | 252                               | 0.18                              | July               | 20950                                     | 698                                                     |
| 07/26/10 | 1200 | CB        | 1242910                    | 6,570                            | 1,534,750                                       | 7.0                       | 2397.0                                   | 939                               | 0.65                              |                    |                                           |                                                         |
| 07/30/10 | 1200 | CB        | 1248140                    | 5,230                            | 1,539,980                                       | 4.0                       | 2401.0                                   | 1308                              | 0.91                              |                    |                                           |                                                         |
| 08/05/10 | 1200 | CB        | 1248520                    | 380                              | 1,540,360                                       | 6.0                       | 2407.0                                   | 63                                | 0.04                              |                    |                                           |                                                         |
| 08/10/10 | 1200 | CB        | 1250320                    | 1,800                            | 1,542,160                                       | 5.0                       | 2412.0                                   | 360                               | 0.25                              |                    |                                           |                                                         |
| 08/19/10 | 1200 | CB        | 1252630                    | 2,310                            | 1,544,470                                       | 9.0                       | 2421.0                                   | 257                               | 0.18                              | August             | 17490                                     | 564                                                     |
| 08/23/10 | 1200 | CB        | 1258090                    | 5,460                            | 1,549,930                                       | 4.0                       | 2425.0                                   | 1365                              | 0.95                              |                    |                                           |                                                         |
| 08/30/10 | 1200 | CB        | 1265630                    | 7,540                            | 1,557,470                                       | 7.0                       | 2432.0                                   | 1077                              | 0.75                              |                    |                                           |                                                         |
| 09/06/10 | 1200 | CB        | 1274270                    | 8,640                            | 1,566,110                                       | 7.0                       | 2439.0                                   | 1234                              | 0.86                              |                    |                                           |                                                         |
| 09/14/10 | 1200 | CB        | 1279310                    | 5,040                            | 1,571,150                                       | 8.0                       | 2447.0                                   | 630                               | 0.44                              |                    |                                           |                                                         |
| 09/20/10 | 1200 | CB        | 1286040                    | 6,730                            | 1,577,880                                       | 6.0                       | 2453.0                                   | 1122                              | 0.78                              | September          | 22750                                     | 784                                                     |
| 09/21/10 | 1200 | CB        | 1287050                    | 1,010                            | 1,578,890                                       | 1.0                       | 2454.0                                   | 1010                              | 0.70                              |                    |                                           |                                                         |
| 09/28/10 | 1200 | CB        | 1288380                    | 1,330                            | 1,580,220                                       | 7.0                       | 2461.0                                   | 190                               | 0.13                              |                    |                                           |                                                         |
| 11/05/10 | 1200 | CB        | 1288390                    | 10                               | 1,580,230                                       | 38.0                      | 2499.0                                   | 0                                 | 0.00                              |                    |                                           |                                                         |
| 11/08/10 | 1200 | CB        | 1290290                    | 1,900                            | 1,582,130                                       | 3.0                       | 2502.0                                   | 633                               | 0.44                              |                    |                                           |                                                         |
| 11/10/10 | 1200 | CB        | 1292380                    | 2,090                            | 1,584,220                                       | 2.0                       | 2504.0                                   | 1045                              | 0.73                              | November           | 4000                                      | 93                                                      |

**Table 11. Summary of Water Recovery and Water Irrigation Rates  
TWP Roswell Compressor Station Remediation Site**

| Date     | Time | Inspector | Meter reading<br>(gallons) | Irrigated<br>Volume<br>(gallons) | Cummulative<br>Irrigated<br>Volume<br>(gallons) | Elapsed<br>Time<br>(days) | Cummulative<br>Elapsed<br>Time<br>(days) | Average<br>Recovery Rate<br>(GPD) | Average<br>Recovery Rate<br>(GPM) | Reporting<br>Month | Monthly Irrigation<br>Volume<br>(gallons) | Average Irrigation Rate<br>for Reporting Month<br>(GPD) |
|----------|------|-----------|----------------------------|----------------------------------|-------------------------------------------------|---------------------------|------------------------------------------|-----------------------------------|-----------------------------------|--------------------|-------------------------------------------|---------------------------------------------------------|
| 06/28/11 | 1200 | CB        | 1292590                    | 210                              | 1,584,430                                       | 230.0                     | 2734.0                                   | 1                                 | 0.00                              |                    |                                           |                                                         |
| 06/30/11 | 1200 | CB        | 1294730                    | 2,140                            | 1,586,570                                       | 2.0                       | 2736.0                                   | 1070                              | 0.74                              | June               | 2350                                      | 10                                                      |
| 07/13/11 | 1200 | CB        | 1297670                    | 2,940                            | 1,589,510                                       | 13.0                      | 2749.0                                   | 226                               | 0.16                              |                    |                                           |                                                         |
| 07/20/11 | 1200 | CB        | 1303020                    | 5,350                            | 1,594,860                                       | 7.0                       | 2756.0                                   | 764                               | 0.53                              | July               | 8290                                      | 415                                                     |
| 08/01/11 | 1200 | CB        | 1304610                    | 1,590                            | 1,596,450                                       | 12.0                      | 2768.0                                   | 133                               | 0.09                              |                    |                                           |                                                         |
| 08/12/11 | 1200 | CB        | 1312240                    | 7,630                            | 1,604,080                                       | 11.0                      | 2779.0                                   | 694                               | 0.48                              |                    |                                           |                                                         |
| 08/19/11 | 1200 | CB        | 1313260                    | 1,020                            | 1,605,100                                       | 7.0                       | 2786.0                                   | 146                               | 0.10                              |                    |                                           |                                                         |
| 08/23/11 | 1200 | CB        | 1315750                    | 2,490                            | 1,607,590                                       | 4.0                       | 2790.0                                   | 623                               | 0.43                              |                    |                                           |                                                         |
| 08/30/11 | 1200 | CB        | 1316650                    | 900                              | 1,608,490                                       | 7.0                       | 2797.0                                   | 129                               | 0.09                              | August             | 13630                                     | 332                                                     |
| 09/03/11 | 1200 | CB        | 1317270                    | 620                              | 1,609,110                                       | 4.0                       | 2801.0                                   | 155                               | 0.11                              |                    |                                           |                                                         |
| 09/09/11 | 1200 | CB        | 1319870                    | 2,600                            | 1,611,710                                       | 6.0                       | 2807.0                                   | 433                               | 0.30                              |                    |                                           |                                                         |
| 09/13/11 | 1200 | CB        | 1321030                    | 1,160                            | 1,612,870                                       | 4.0                       | 2811.0                                   | 290                               | 0.20                              |                    |                                           |                                                         |
| 09/22/11 | 1200 | CB        | 1321270                    | 240                              | 1,613,110                                       | 9.0                       | 2820.0                                   | 27                                | 0.02                              |                    |                                           |                                                         |
| 09/25/11 | 1200 | CB        | 1326090                    | 4,820                            | 1,617,930                                       | 3.0                       | 2823.0                                   | 1607                              | 1.12                              |                    |                                           |                                                         |
| 09/28/11 | 1200 | CB        | 1329140                    | 3,050                            | 1,620,980                                       | 3.0                       | 2826.0                                   | 1017                              | 0.71                              |                    |                                           |                                                         |
| 09/30/11 | 1200 | CB        | 1331610                    | 2,470                            | 1,623,450                                       | 2.0                       | 2828.0                                   | 1235                              | 0.86                              | September          | 14960                                     | 483                                                     |
| 10/04/11 | 1200 | CB        | 1336700                    | 5,090                            | 1,628,540                                       | 4.0                       | 2832.0                                   | 1273                              | 0.88                              |                    |                                           |                                                         |
| 10/10/11 | 1200 | CB        | 1344310                    | 7,610                            | 1,636,150                                       | 6.0                       | 2838.0                                   | 1268                              | 0.88                              |                    |                                           |                                                         |
| 10/14/11 | 1200 | CB        | 1348220                    | 3,910                            | 1,640,060                                       | 4.0                       | 2842.0                                   | 978                               | 0.68                              |                    |                                           |                                                         |
| 10/17/11 | 1200 | CB        | 1352830                    | 4,610                            | 1,644,670                                       | 3.0                       | 2845.0                                   | 1537                              | 1.07                              |                    |                                           |                                                         |
| 10/20/11 | 1200 | CB        | 1355140                    | 2,310                            | 1,646,980                                       | 3.0                       | 2848.0                                   | 770                               | 0.53                              |                    |                                           |                                                         |
| 10/25/11 | 1200 | CB        | 1356640                    | 1,500                            | 1,648,480                                       | 5.0                       | 2853.0                                   | 300                               | 0.21                              | October            | 25030                                     | 1001                                                    |
| 11/01/11 | 1200 | CB        | 1357820                    | 1,180                            | 1,649,660                                       | 7.0                       | 2860.0                                   | 169                               | 0.12                              |                    |                                           |                                                         |
| 11/06/11 | 1200 | CB        | 1370170                    | 12,350                           | 1,662,010                                       | 5.0                       | 2865.0                                   | 2470                              | 1.72                              |                    |                                           |                                                         |
| 11/14/11 | 1200 | CB        | 1378250                    | 8,080                            | 1,670,090                                       | 8.0                       | 2873.0                                   | 1010                              | 0.70                              |                    |                                           |                                                         |
| 11/19/11 | 1200 | CB        | 1383060                    | 4,810                            | 1,674,900                                       | 5.0                       | 2878.0                                   | 962                               | 0.67                              |                    |                                           |                                                         |
| 11/25/11 | 1200 | CB        | 1388650                    | 5,590                            | 1,680,490                                       | 6.0                       | 2884.0                                   | 932                               | 0.65                              |                    |                                           |                                                         |
| 11/30/11 | 1200 | CB        | 1390930                    | 2,280                            | 1,682,770                                       | 5.0                       | 2889.0                                   | 456                               | 0.32                              | November           | 34290                                     | 953                                                     |
| 04/26/12 | 1200 | CB        | 1408050                    | 17,120                           | 1,699,890                                       | 148.0                     | 3037.0                                   | 116                               | 0.08                              |                    |                                           |                                                         |
| 04/28/12 | 1200 | CB        | 1411210                    | 3,160                            | 1,703,050                                       | 2.0                       | 3039.0                                   | 1580                              | 1.10                              |                    |                                           |                                                         |
| 04/30/12 | 1200 | CB        | 1413930                    | 2,720                            | 1,705,770                                       | 2.0                       | 3041.0                                   | 1360                              | 0.94                              | April              | 23000                                     | 151                                                     |
| 05/04/12 | 1200 | CB        | 1416840                    | 2,910                            | 1,708,680                                       | 4.0                       | 3045.0                                   | 728                               | 0.51                              |                    |                                           |                                                         |
| 05/07/12 | 1200 | CB        | 1420770                    | 3,930                            | 1,712,610                                       | 3.0                       | 3048.0                                   | 1310                              | 0.91                              |                    |                                           |                                                         |
| 05/12/12 | 1200 | CB        | 1424710                    | 3,940                            | 1,716,550                                       | 5.0                       | 3053.0                                   | 788                               | 0.55                              |                    |                                           |                                                         |
| 05/17/12 | 1200 | CB        | 1430680                    | 5,970                            | 1,722,520                                       | 5.0                       | 3058.0                                   | 1194                              | 0.83                              |                    |                                           |                                                         |
| 05/22/12 | 1200 | CB        | 1436750                    | 6,070                            | 1,728,590                                       | 5.0                       | 3063.0                                   | 1214                              | 0.84                              |                    |                                           |                                                         |
| 05/27/12 | 1200 | CB        | 1442280                    | 5,530                            | 1,734,120                                       | 5.0                       | 3068.0                                   | 1106                              | 0.77                              |                    |                                           |                                                         |
| 05/31/12 | 1200 | CB        | 1444830                    | 2,550                            | 1,736,670                                       | 4.0                       | 3072.0                                   | 638                               | 0.44                              | May                | 30900                                     | 997                                                     |
| 06/06/12 | 1200 | CB        | 1450860                    | 6,030                            | 1,742,700                                       | 6.0                       | 3078.0                                   | 1005                              | 0.70                              |                    |                                           |                                                         |
| 06/14/12 | 1200 | CB        | 1452950                    | 2,090                            | 1,744,790                                       | 8.0                       | 3086.0                                   | 261                               | 0.18                              |                    |                                           |                                                         |
| 06/22/12 | 1200 | CB        | 1453470                    | 520                              | 1,745,310                                       | 8.0                       | 3094.0                                   | 65                                | 0.05                              |                    |                                           |                                                         |
| 06/27/12 | 1200 | CB        | 1459530                    | 6,060                            | 1,751,370                                       | 5.0                       | 3099.0                                   | 1212                              | 0.84                              | June               | 14700                                     | 544                                                     |
| 07/04/12 | 1200 | CB        | 1464990                    | 5,460                            | 1,756,830                                       | 7.0                       | 3106.0                                   | 780                               | 0.54                              |                    |                                           |                                                         |
| 07/11/12 | 1200 | CB        | 1470150                    | 5,160                            | 1,761,990                                       | 7.0                       | 3113.0                                   | 737                               | 0.51                              |                    |                                           |                                                         |
| 07/20/12 | 1200 | CB        | 1474920                    | 4,770                            | 1,766,760                                       | 9.0                       | 3122.0                                   | 530                               | 0.37                              |                    |                                           |                                                         |
| 07/25/12 | 1200 | CB        | 1479740                    | 4,820                            | 1,771,580                                       | 5.0                       | 3127.0                                   | 964                               | 0.67                              |                    |                                           |                                                         |
| 07/31/12 | 1200 | CB        | 1479740                    | 0                                | 1,771,580                                       | 6.0                       | 3133.0                                   | 0                                 | 0.00                              | July               | 20210                                     | 594                                                     |
| 08/06/12 | 1200 | CB        | 1482850                    | 3,110                            | 1,774,690                                       | 6.0                       | 3139.0                                   | 518                               | 0.36                              |                    |                                           |                                                         |
| 08/10/12 | 1200 | CB        | 1484650                    | 1,800                            | 1,776,490                                       | 4.0                       | 3143.0                                   | 450                               | 0.31                              |                    |                                           |                                                         |
| 08/15/12 | 1200 | CB        | 1486280                    | 1,630                            | 1,778,120                                       | 5.0                       | 3148.0                                   | 326                               | 0.23                              |                    |                                           |                                                         |
| 08/21/12 | 1200 | CB        | 1491810                    | 5,530                            | 1,783,650                                       | 6.0                       | 3154.0                                   | 922                               | 0.64                              |                    |                                           |                                                         |



**Table 11. Summary of Water Recovery and Water Irrigation Rates  
TWP Roswell Compressor Station Remediation Site**

| Date     | Time | Inspector | Meter reading<br>(gallons) | Irrigated<br>Volume<br>(gallons) | Cummulative<br>Irrigated<br>Volume<br>(gallons) | Elapsed<br>Time<br>(days) | Cummulative<br>Elapsed<br>Time<br>(days) | Average<br>Recovery Rate<br>(GPD) | Average<br>Recovery Rate<br>(GPM) | Reporting<br>Month | Monthly Irrigation<br>Volume<br>(gallons) | Average Irrigation Rate<br>for Reporting Month<br>(GPD) |
|----------|------|-----------|----------------------------|----------------------------------|-------------------------------------------------|---------------------------|------------------------------------------|-----------------------------------|-----------------------------------|--------------------|-------------------------------------------|---------------------------------------------------------|
| 08/25/12 | 1200 | CB        | 1496550                    | 4,740                            | 1,788,390                                       | 4.0                       | 3158.0                                   | 1185                              | 0.82                              | August             | 19090                                     | 636                                                     |
| 08/30/12 | 1200 | CB        | 1498830                    | 2,280                            | 1,790,670                                       | 5.0                       | 3163.0                                   | 456                               | 0.32                              |                    |                                           |                                                         |
| 09/05/12 | 1200 | CB        | 1502280                    | 3,450                            | 1,794,120                                       | 6.0                       | 3169.0                                   | 575                               | 0.40                              |                    |                                           |                                                         |
| 09/09/12 | 1200 | CB        | 1505820                    | 3,540                            | 1,797,660                                       | 4.0                       | 3173.0                                   | 885                               | 0.61                              |                    |                                           |                                                         |
| 09/13/12 | 1200 | CB        | 1509500                    | 3,680                            | 1,801,340                                       | 4.0                       | 3177.0                                   | 920                               | 0.64                              |                    |                                           |                                                         |
| 09/17/12 | 1200 | CB        | 1510800                    | 1,300                            | 1,802,640                                       | 4.0                       | 3181.0                                   | 325                               | 0.23                              |                    |                                           |                                                         |
| 09/25/12 | 1200 | CB        | 1513290                    | 2,490                            | 1,805,130                                       | 8.0                       | 3189.0                                   | 311                               | 0.22                              |                    |                                           |                                                         |
| 09/30/12 | 1200 | CB        | 1519120                    | 5,830                            | 1,810,960                                       | 5.0                       | 3194.0                                   | 1166                              | 0.81                              | September          | 20290                                     | 655                                                     |
| 10/03/12 | 1200 | CB        | 1520950                    | 1,830                            | 1,812,790                                       | 3.0                       | 3197.0                                   | 610                               | 0.42                              |                    |                                           |                                                         |
| 10/08/12 | 1200 | CB        | 1522170                    | 1,220                            | 1,814,010                                       | 5.0                       | 3202.0                                   | 244                               | 0.17                              |                    |                                           |                                                         |
| 10/23/12 | 1200 | CB        | 1522170                    | 0                                | 1,814,010                                       | 15.0                      | 3217.0                                   | 0                                 | 0.00                              |                    |                                           |                                                         |
| 10/25/12 | 1200 | CB        | 1524400                    | 2,230                            | 1,816,240                                       | 2.0                       | 3219.0                                   | 1115                              | 0.77                              | October            | 11980                                     | 386                                                     |
| 10/31/12 | 1200 | CB        | 1531100                    | 6,700                            | 1,822,940                                       | 6.0                       | 3225.0                                   | 1117                              | 0.78                              |                    |                                           |                                                         |
| 11/05/12 | 1200 | CB        | 1537050                    | 5,950                            | 1,828,890                                       | 5.0                       | 3230.0                                   | 1190                              | 0.83                              |                    |                                           |                                                         |
| 11/11/12 | 1200 | CB        | 1540910                    | 3,860                            | 1,832,750                                       | 6.0                       | 3236.0                                   | 643                               | 0.45                              |                    |                                           |                                                         |
| 11/28/12 | 1200 | CB        | 1541110                    | 200                              | 1,832,950                                       | 17.0                      | 3253.0                                   | 12                                | 0.01                              | November           | 10070                                     | 336                                                     |
| 11/30/12 | 1200 | CB        | 1541170                    | 60                               | 1,833,010                                       | 2.0                       | 3255.0                                   | 30                                | 0.02                              |                    |                                           |                                                         |

NOTES:

(a) Replaced meter on 040705 (initial reading = 7460 gallons)

Irrigated Volume (gallons) = Difference between prior meter reading and current meter reading (gallons)

Cummulative Irrigated Volume (gallons) = Cummulative sum of Irrigated Volume (gallons) calculated for all prior periods

Elapsed Time (days) = Calculated number of days from the prior date and time

Cummulative Elapsed Time (days) = Cummulative sum of Elapsed Time (days)

Average Recovery Rate (GPD) = Irrigated Volume (gallons) / Elapsed Time (days)

Average Recovery Rate (GPM) = Average Recovery Rate (GPD) / 24 (hours/day) / 60 (minutes/hour)

Reporting Month - Calender month for which the Average Irrigation Rate for Reporting Month (GPD) is calculated

Average Irrigation Rate for Reporting Month (GPD) = Cummulative Irrigated Volume (gallons) since prior Reporting Month / Cummulative Elapsed Time (days) since prior Reporting Month

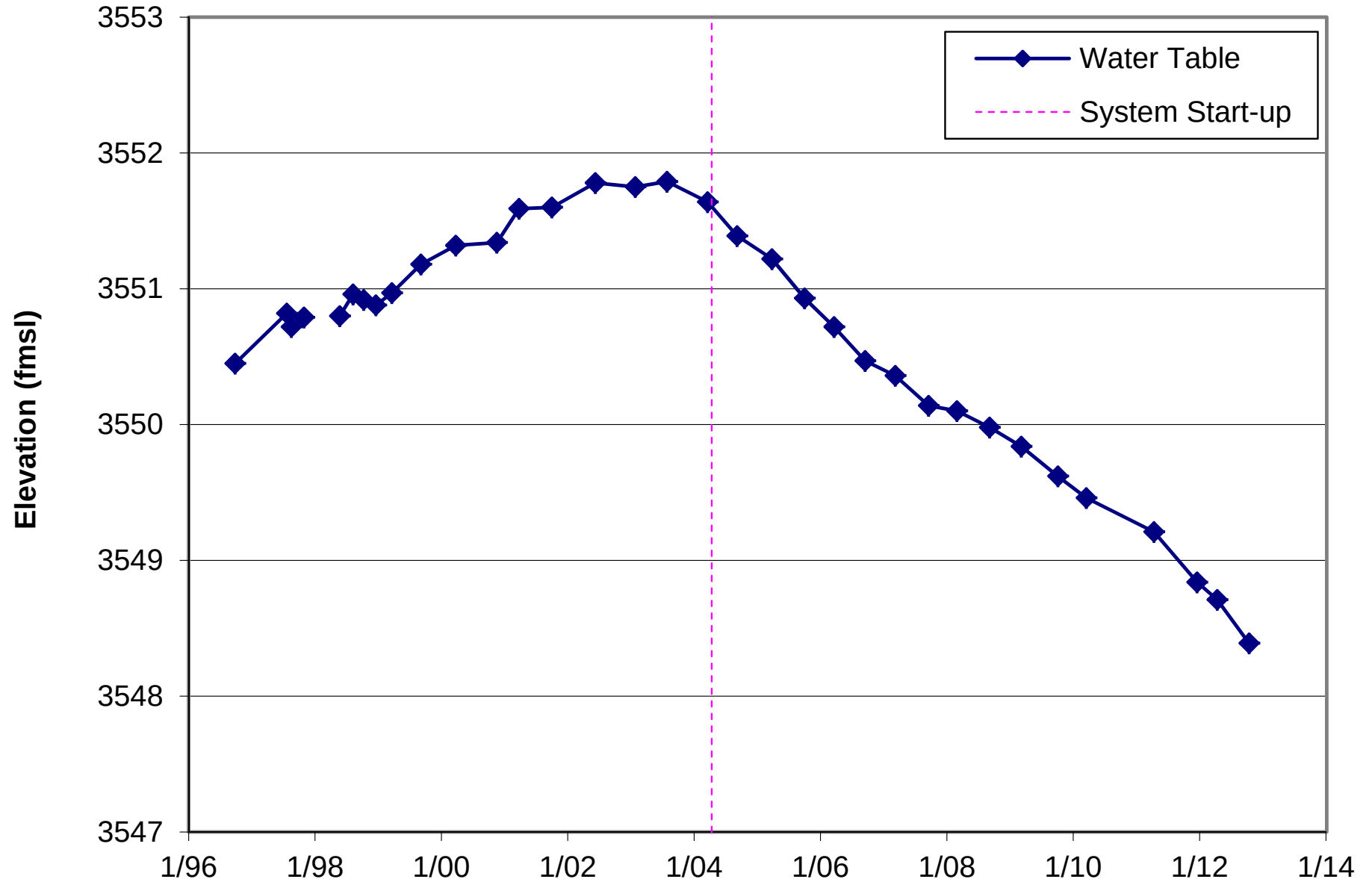
NA = Dummy entry for calculations of Monthly Irrigation Volume

# APPENDICES

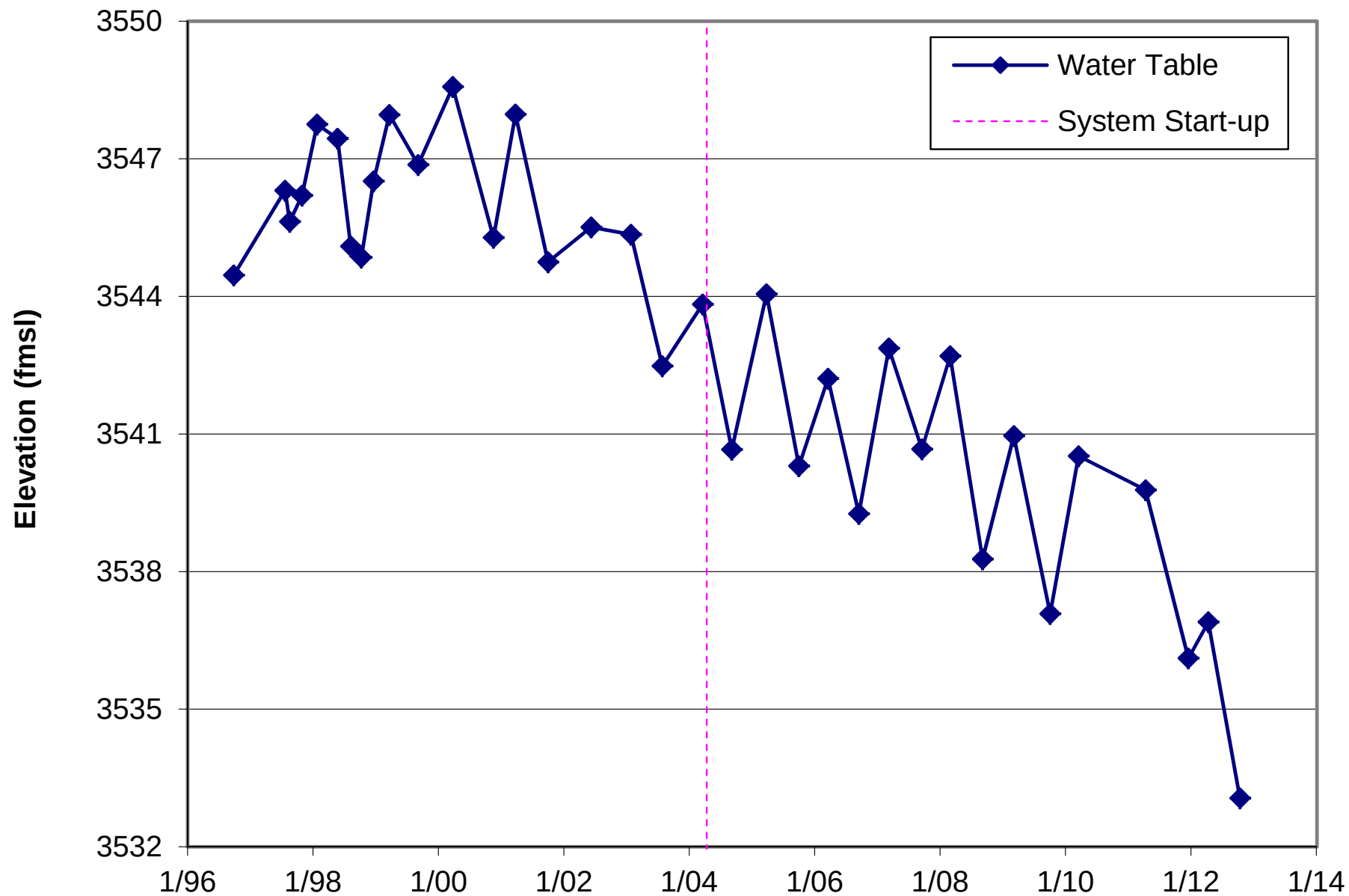
# APPENDIX A

## Hydrographs for Selected Monitoring Wells with No Accumulated PSH

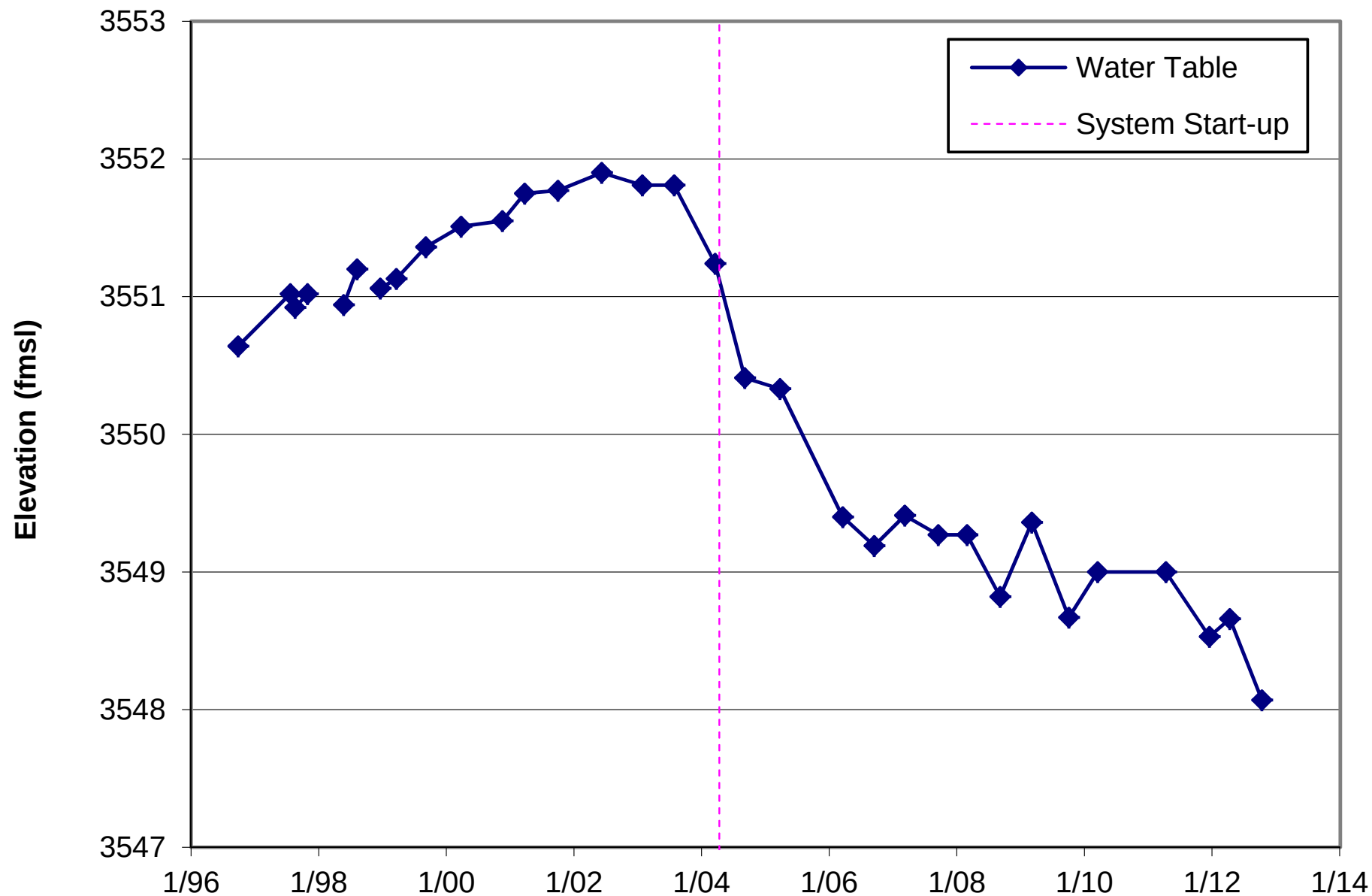
# Hydrograph for Well MW-5 Roswell Station Remediation Site



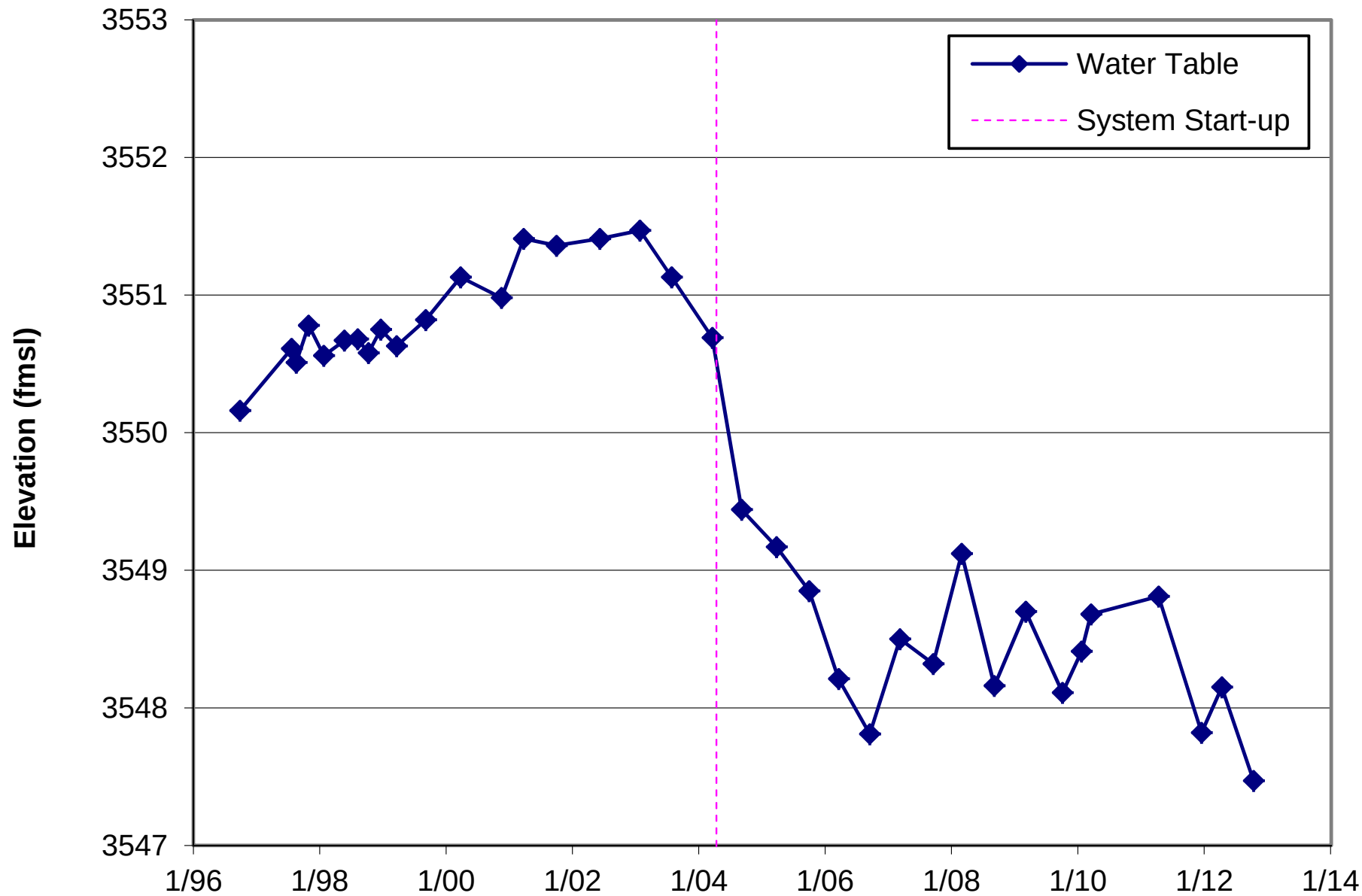
# Hydrograph for Well MW-7 Roswell Station Remediation Site



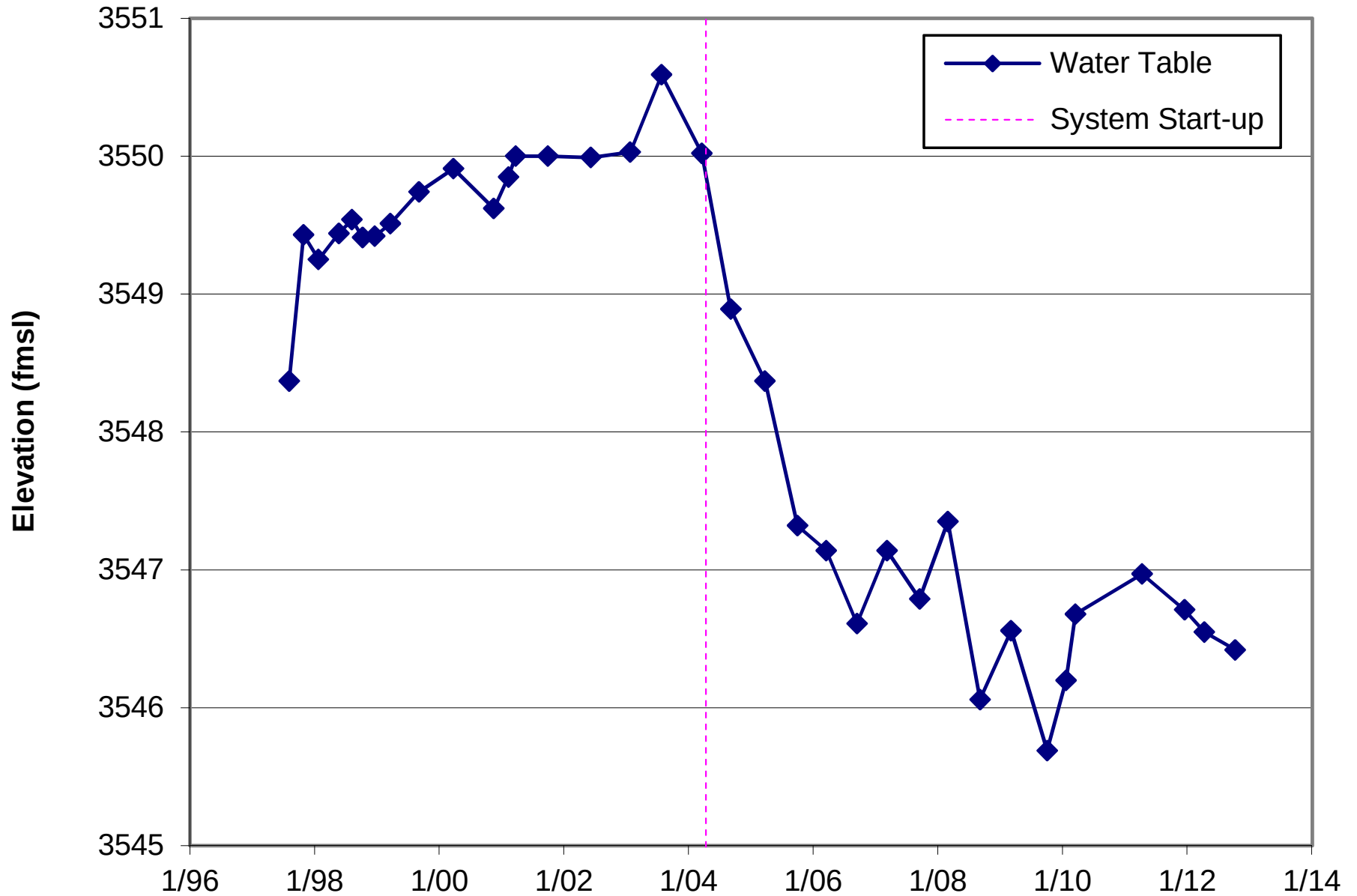
# Hydrograph for Well MW-10 Roswell Station Remediation Site



**Hydrograph for Well MW-13  
Roswell Station Remediation Site**

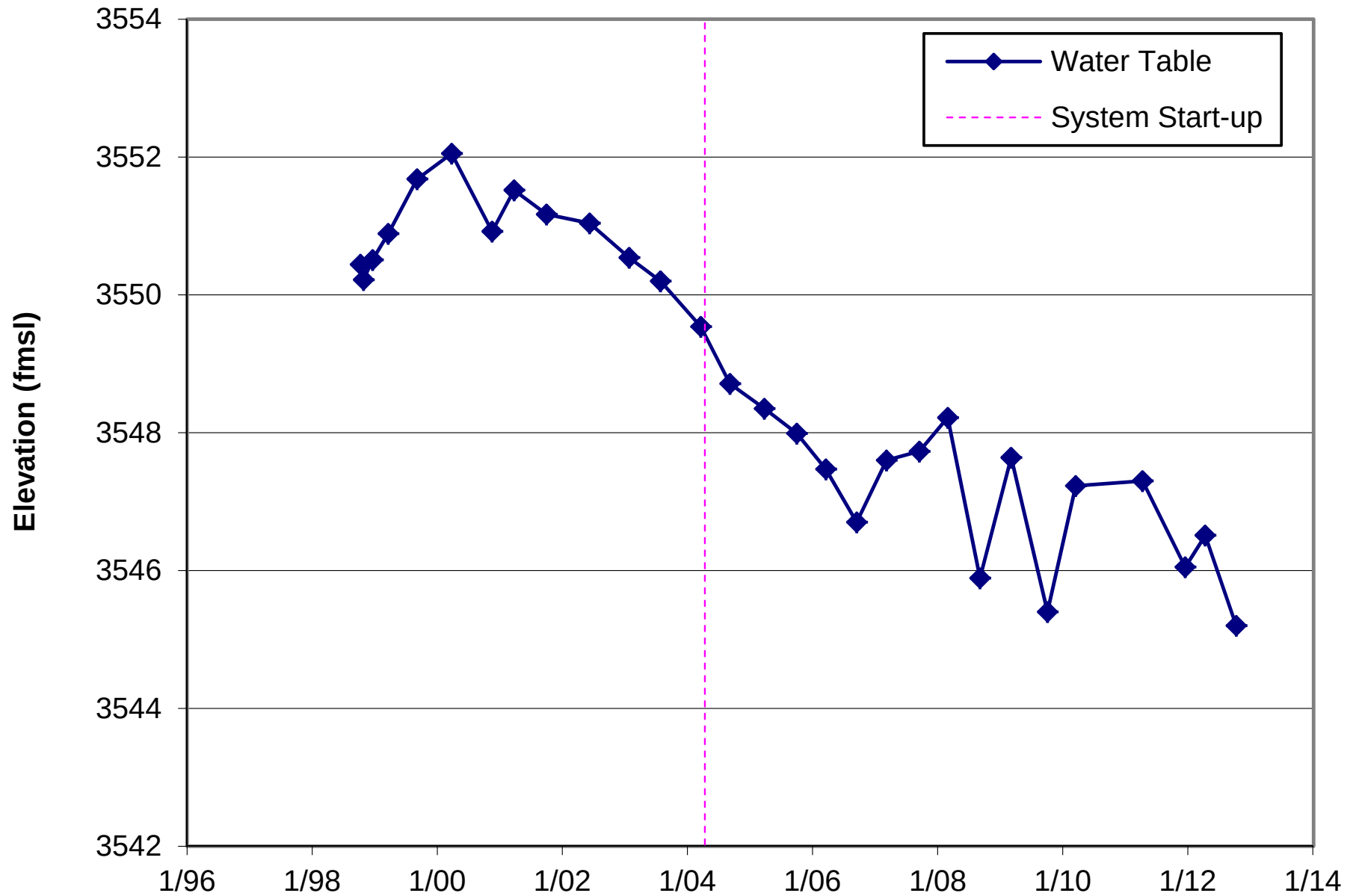


# Hydrograph for Well MW-21 Roswell Station Remediation Site

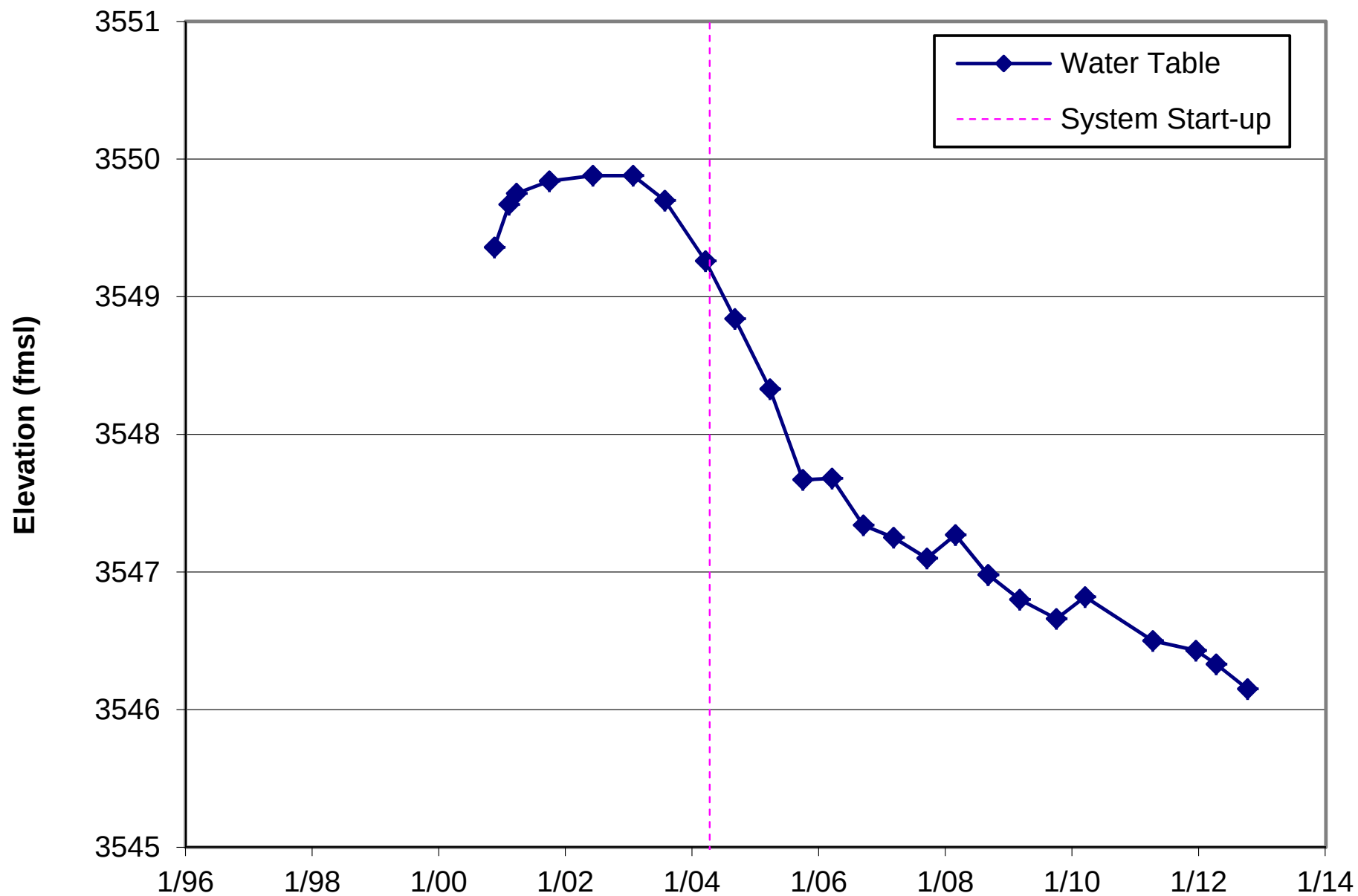




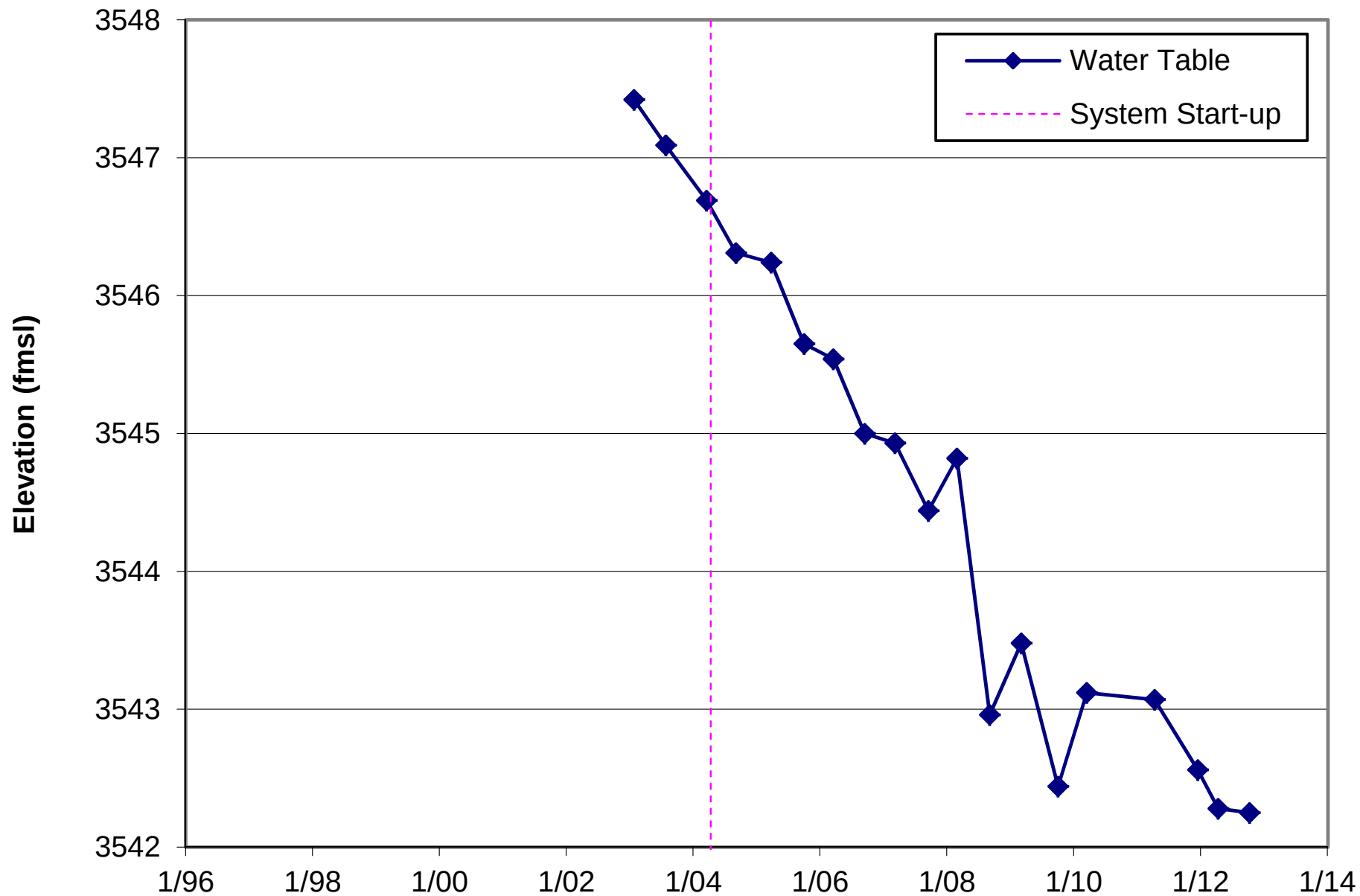
# Hydrograph for Well MW-26 Roswell Station Remediation Site



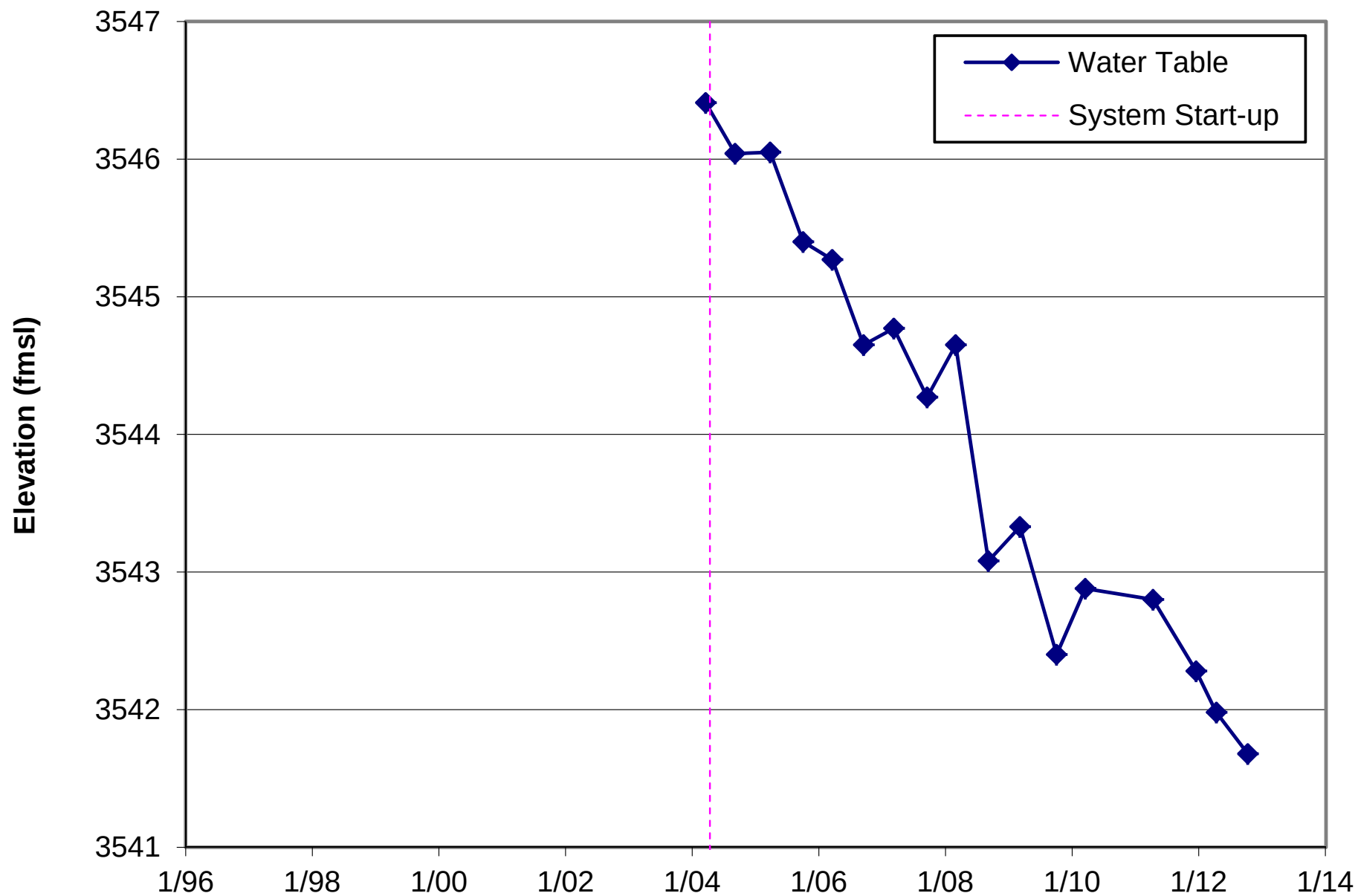
# Hydrograph for Well MW-30 Roswell Station Remediation Site



# Hydrograph for Well MW-34 Roswell Station Remediation Site



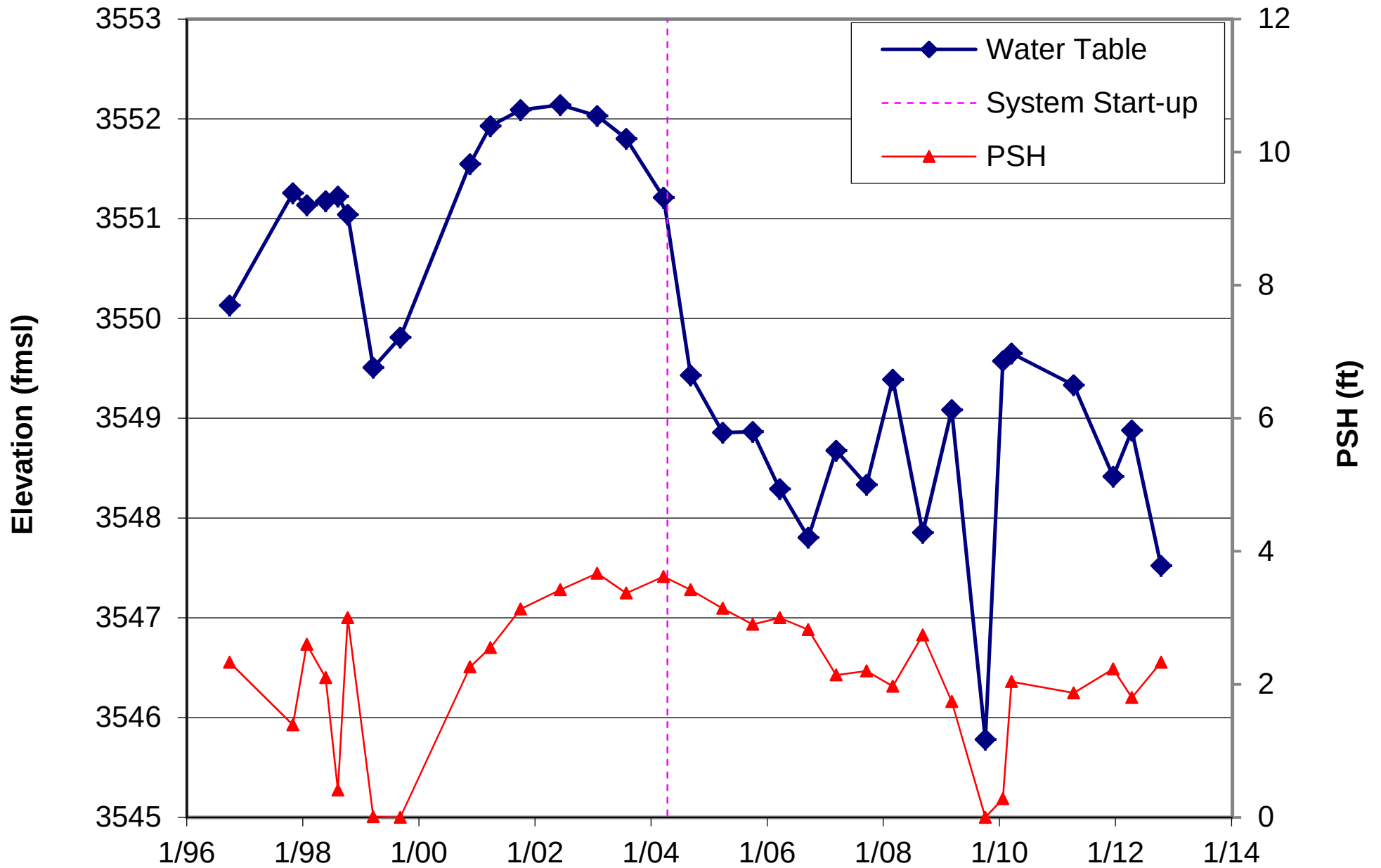
# Hydrograph for Well MW-37 Roswell Station Remediation Site



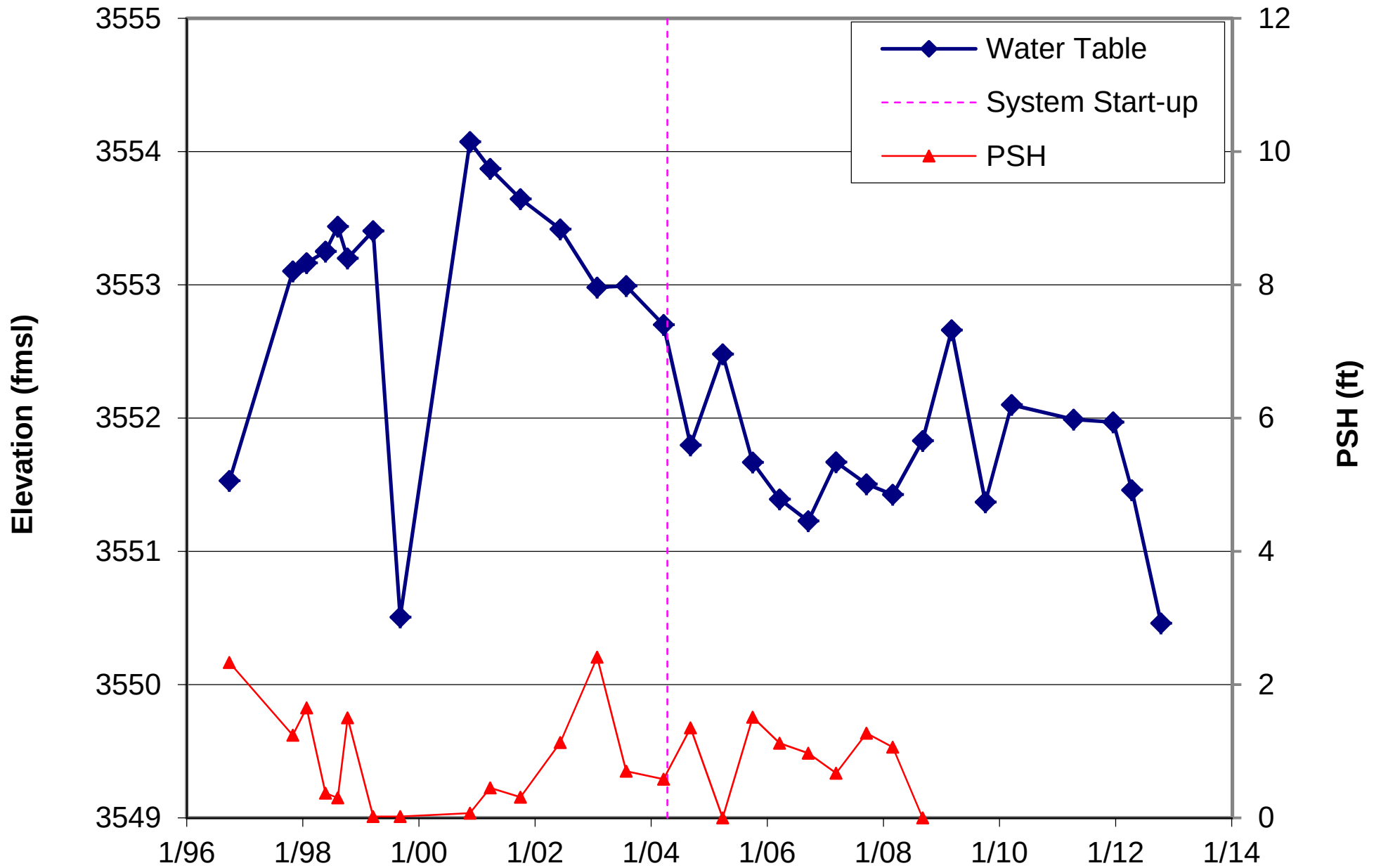
# APPENDIX B

## Hydrographs for Wells with Accumulated PSH

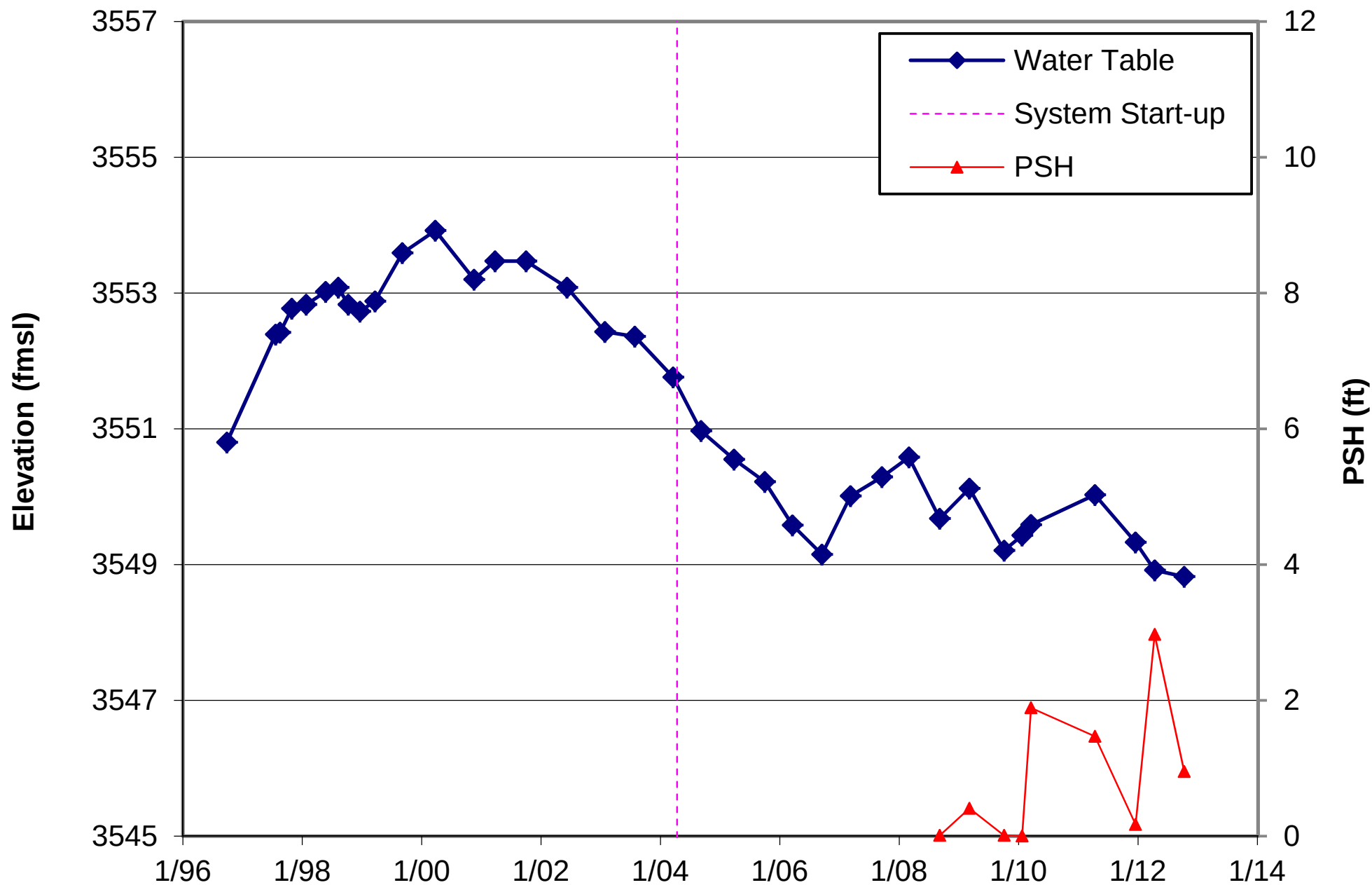
# Hydrograph for Well MW-1B Roswell Station Remediation Site



# Hydrograph for Well MW-2 Roswell Station Remediation Site

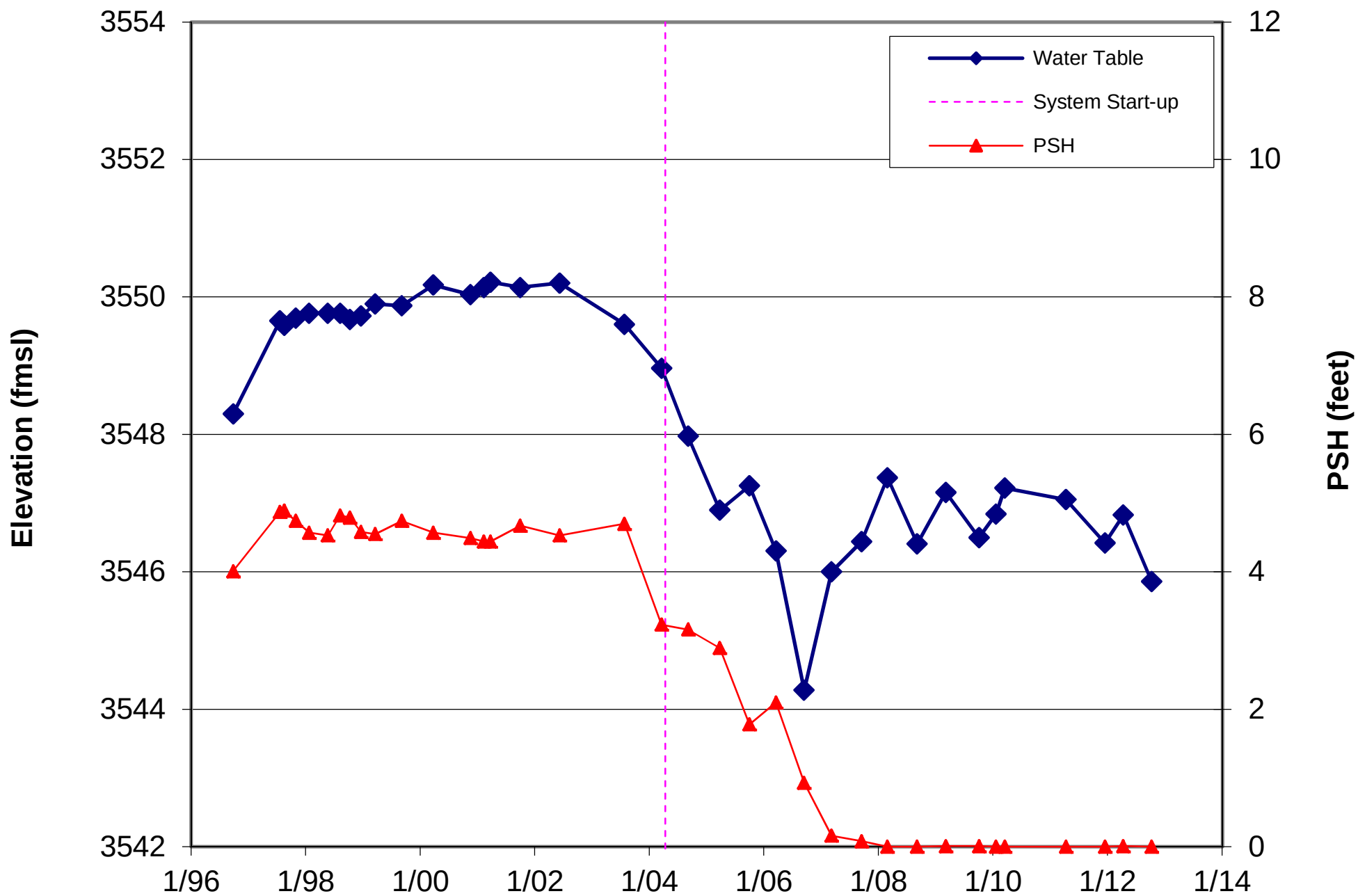


# Hydrograph for Well MW-12 Roswell Station Remediation Site

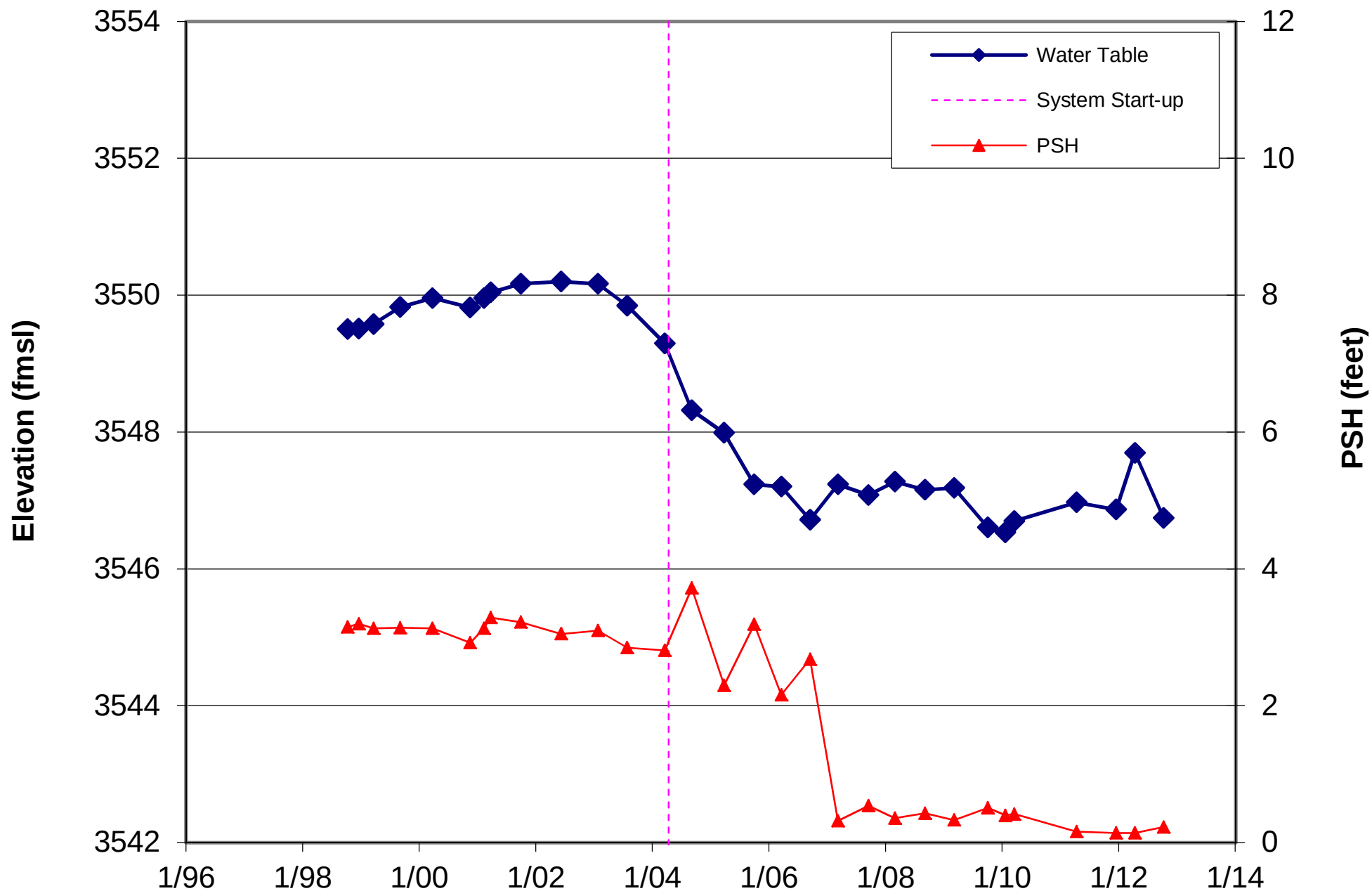




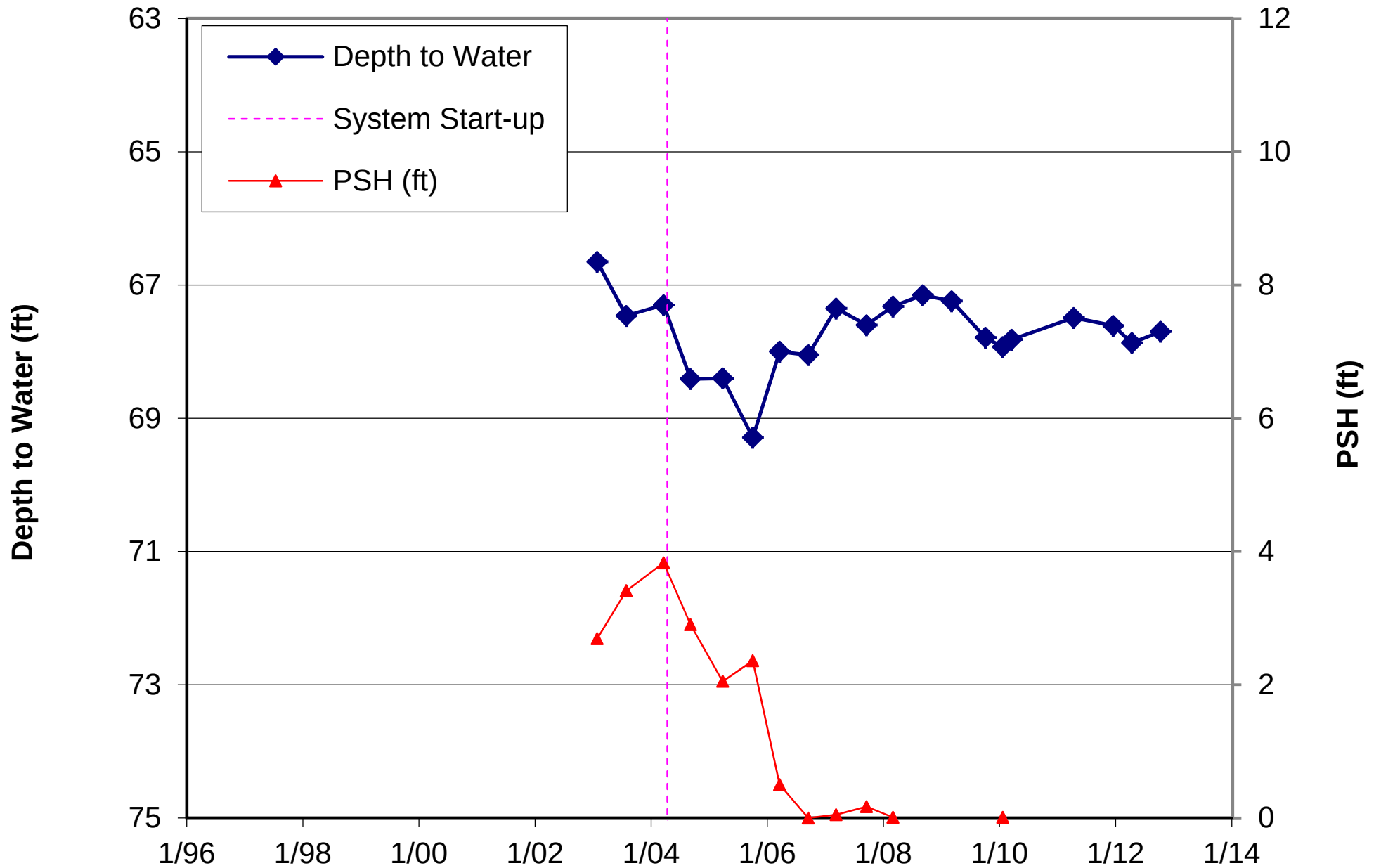
# Hydrograph for Well MW-16 TW Roswell Remediation Site



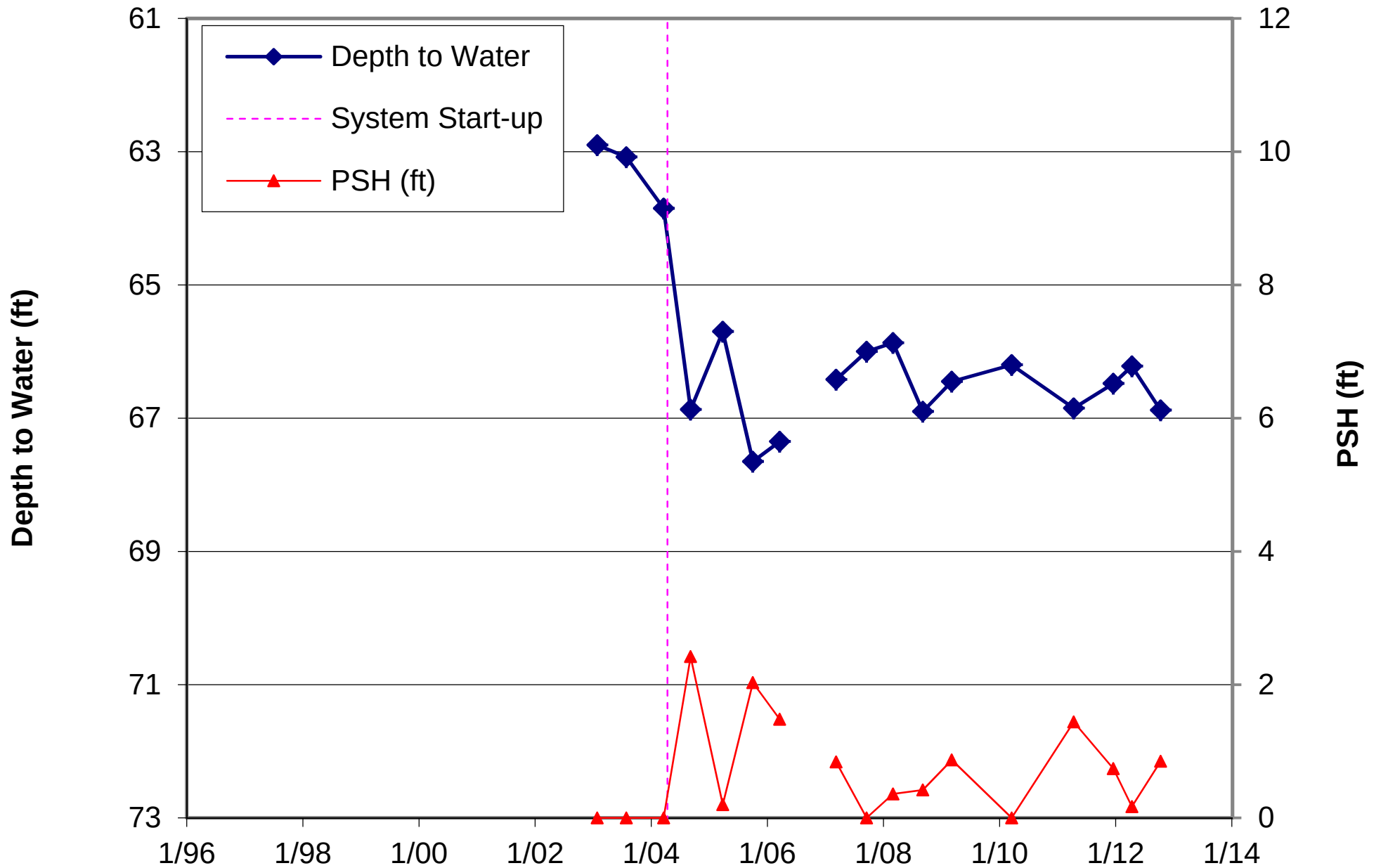
# Hydrograph for Well MW-27 Roswell Station Remediation Site



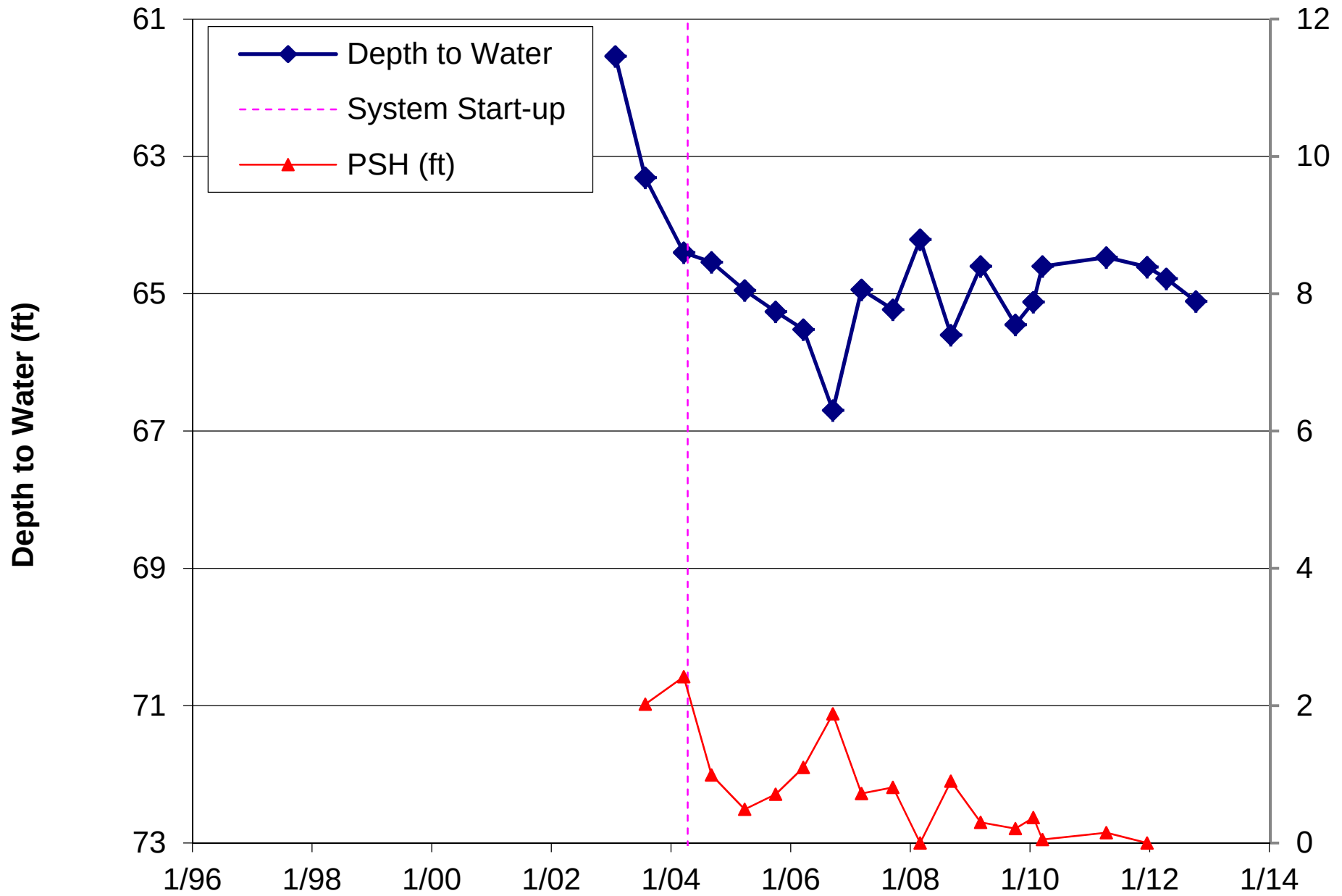
# Hydrograph for Well MPE-9 Roswell Station Remediation Site



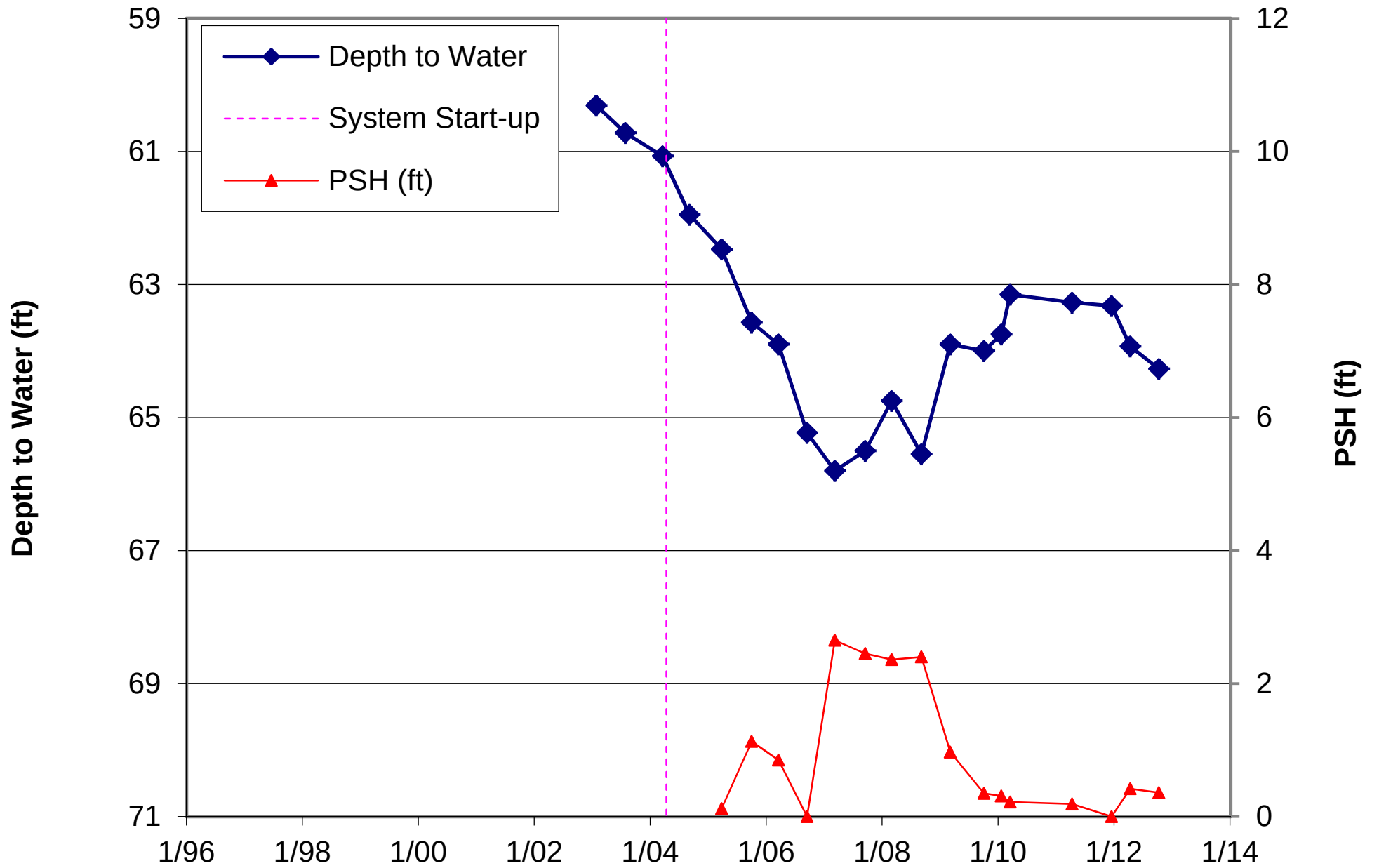
# Hydrograph for Well MPE-10 Roswell Station Remediation Site



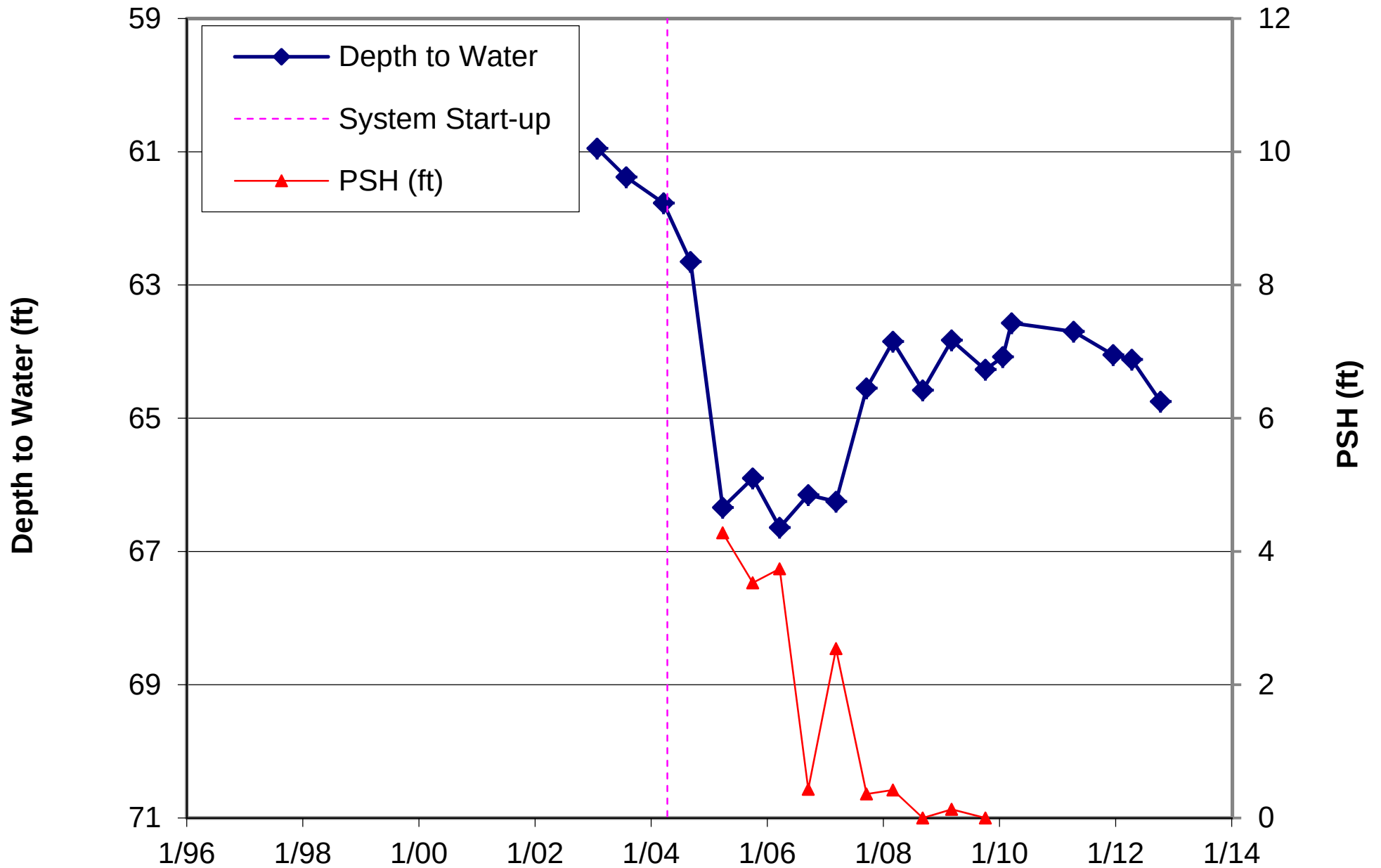
# Hydrograph for Well MPE-12 Roswell Station Remediation Site



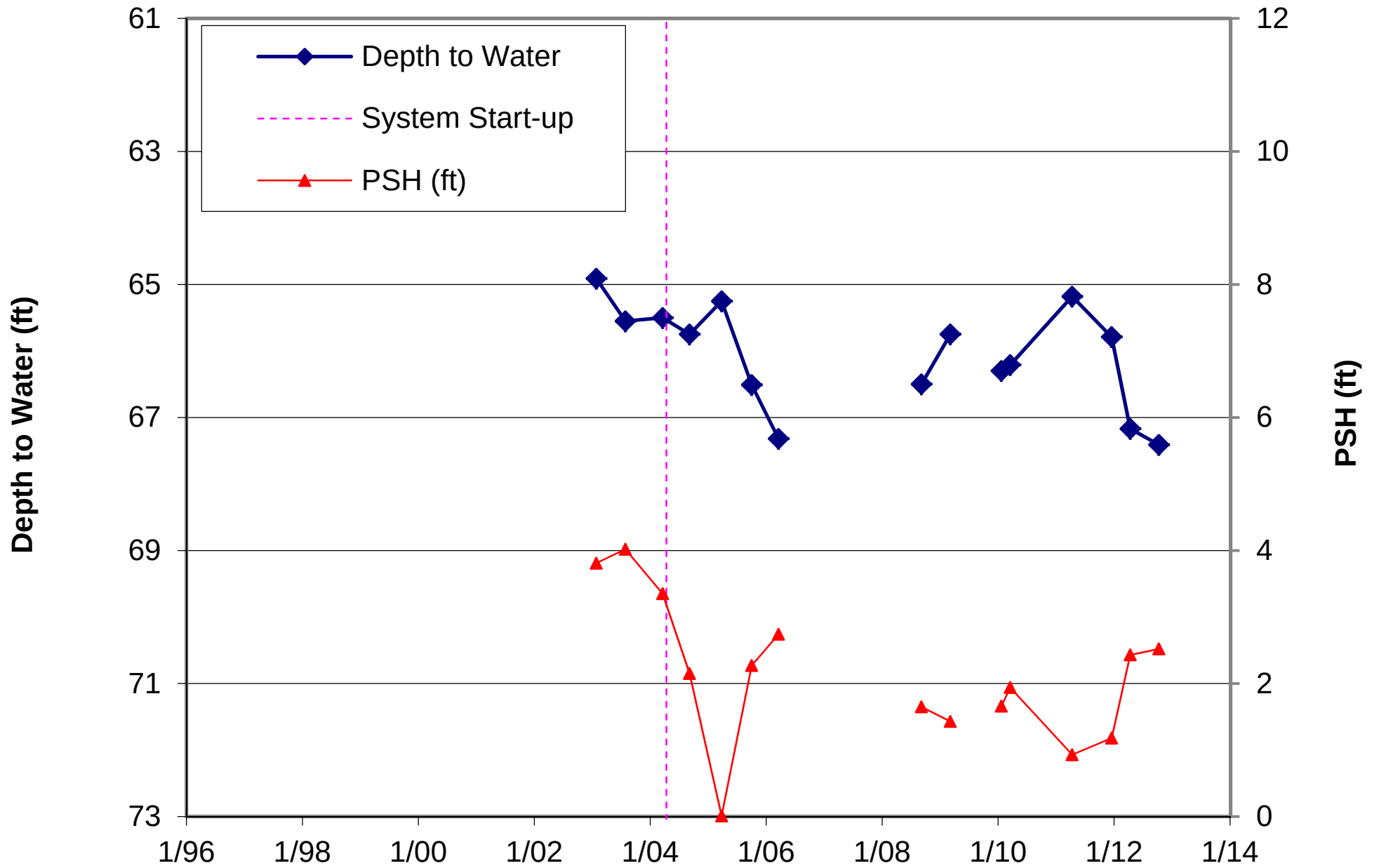
# Hydrograph for Well MPE-13 Roswell Station Remediation Site



# Hydrograph for Well MPE-14 Roswell Station Remediation Site

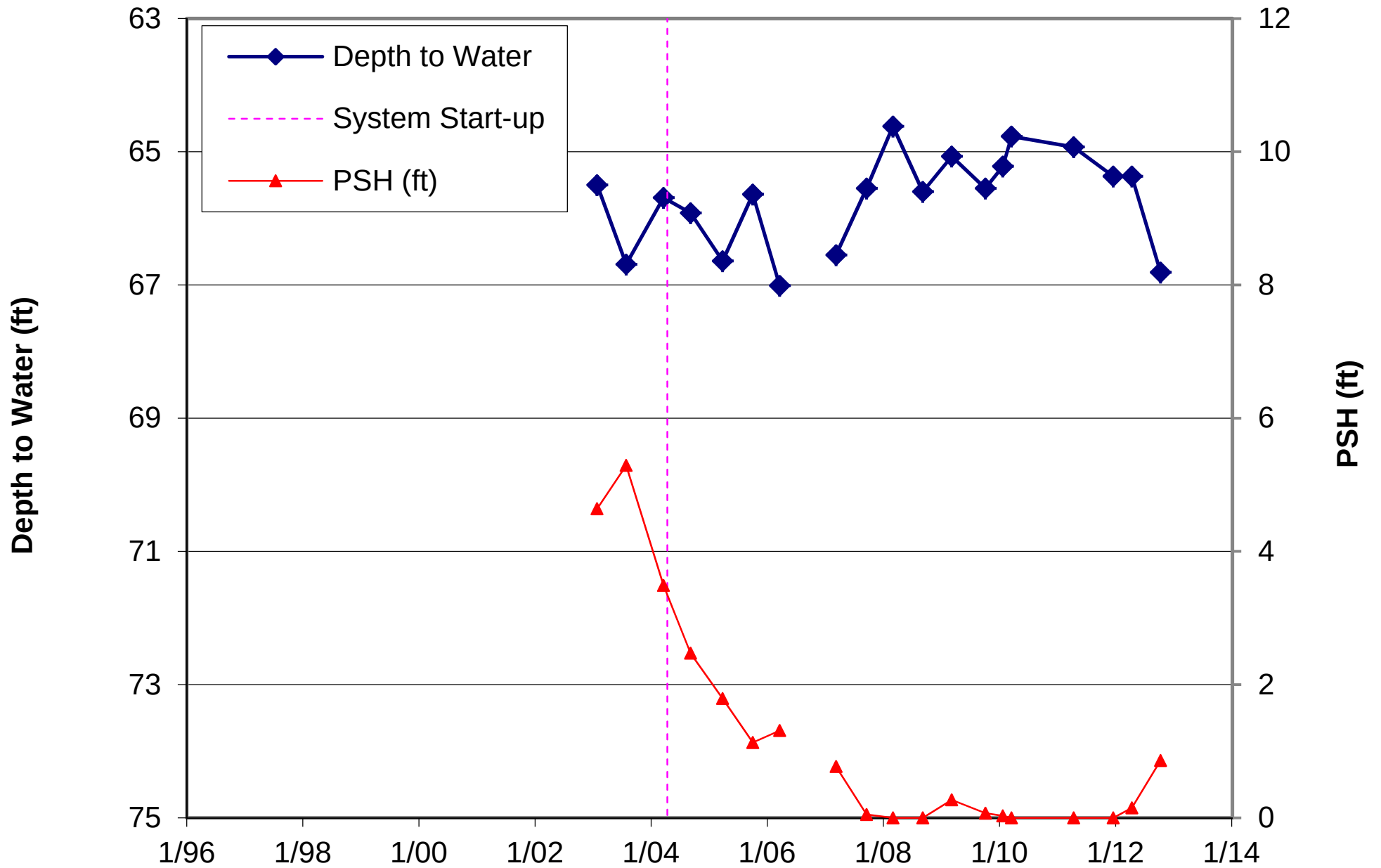


# Hydrograph for Well MPE-16 Roswell Station Remediation Site

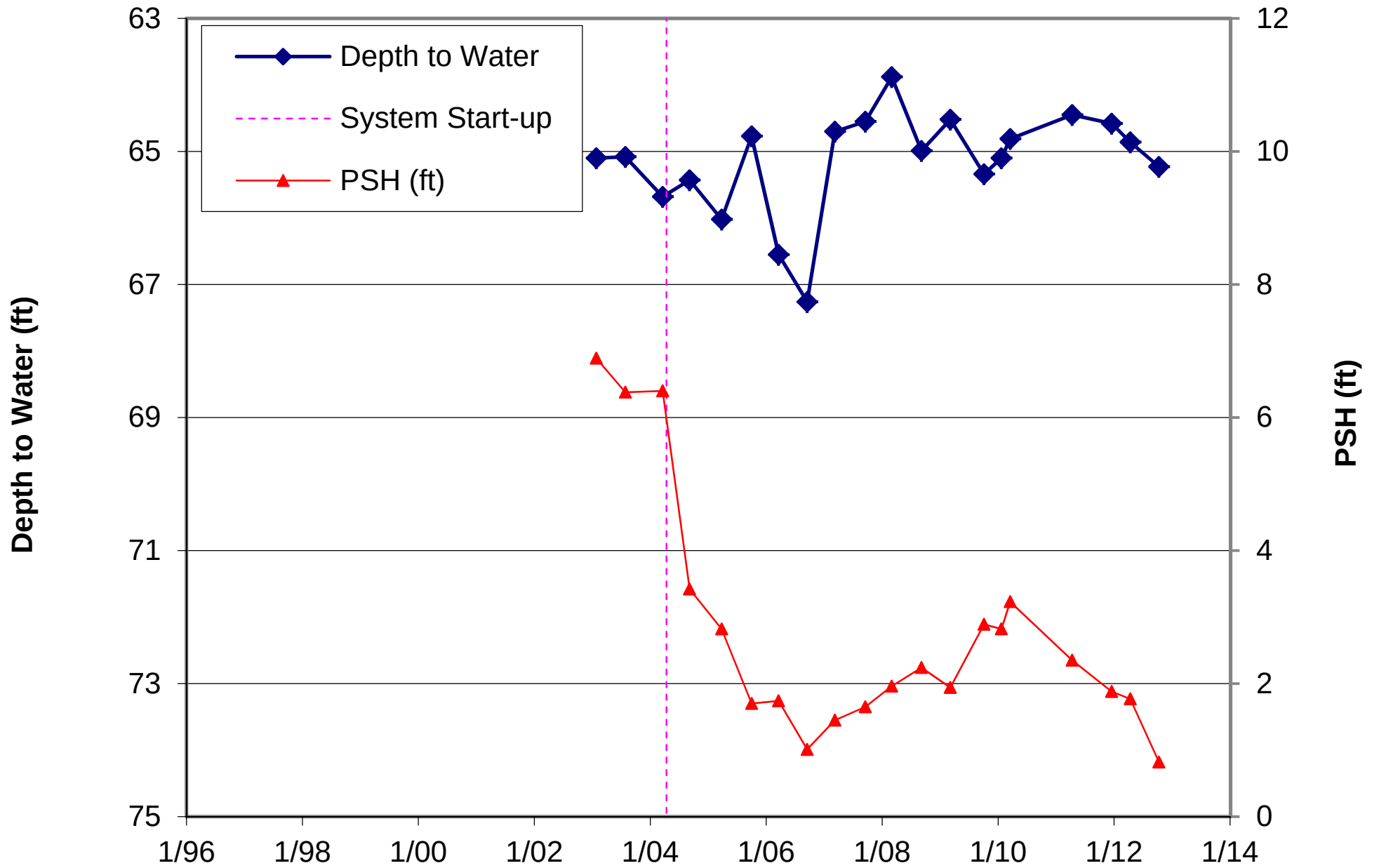




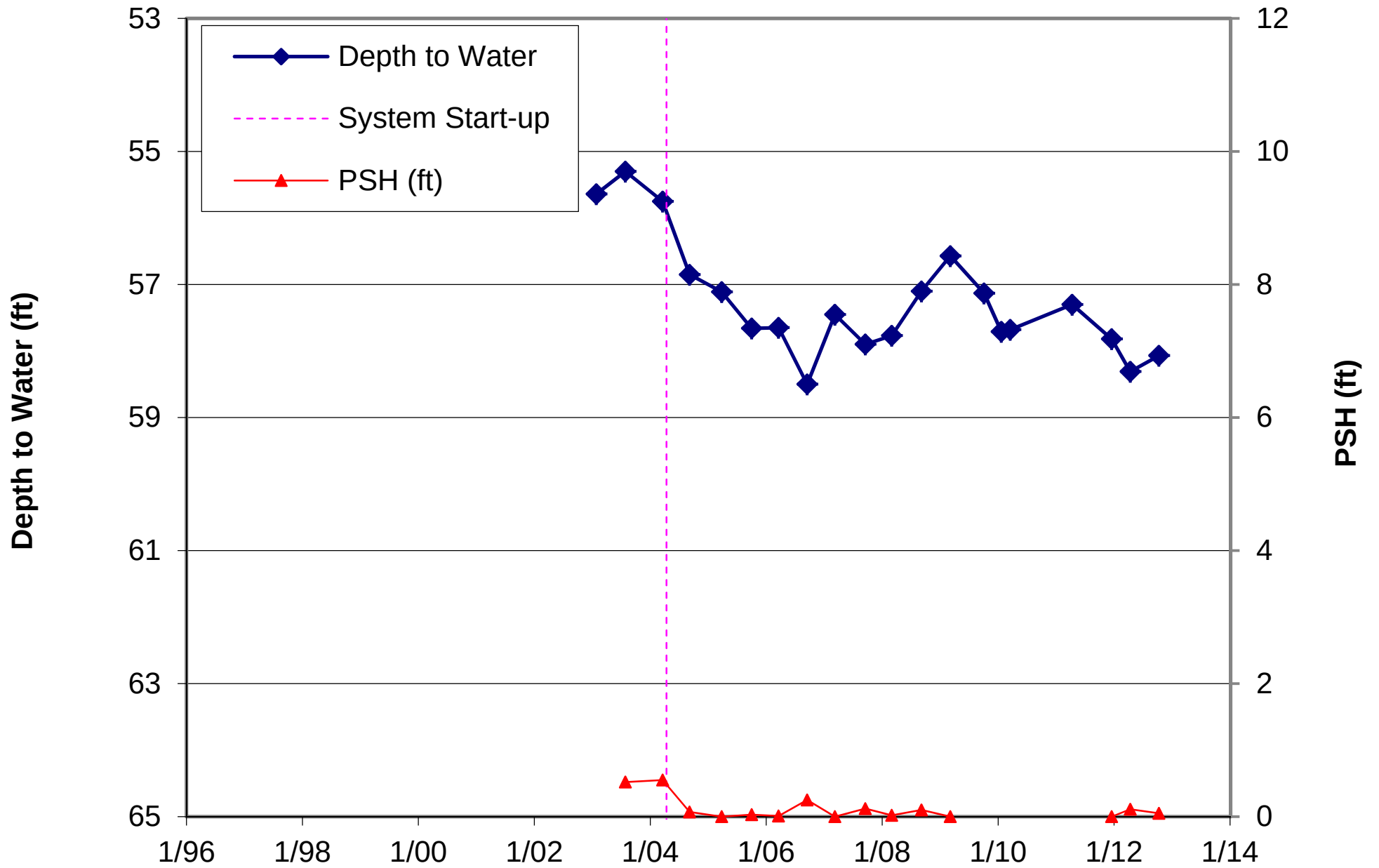
# Hydrograph for Well MPE-17 Roswell Station Remediation Site



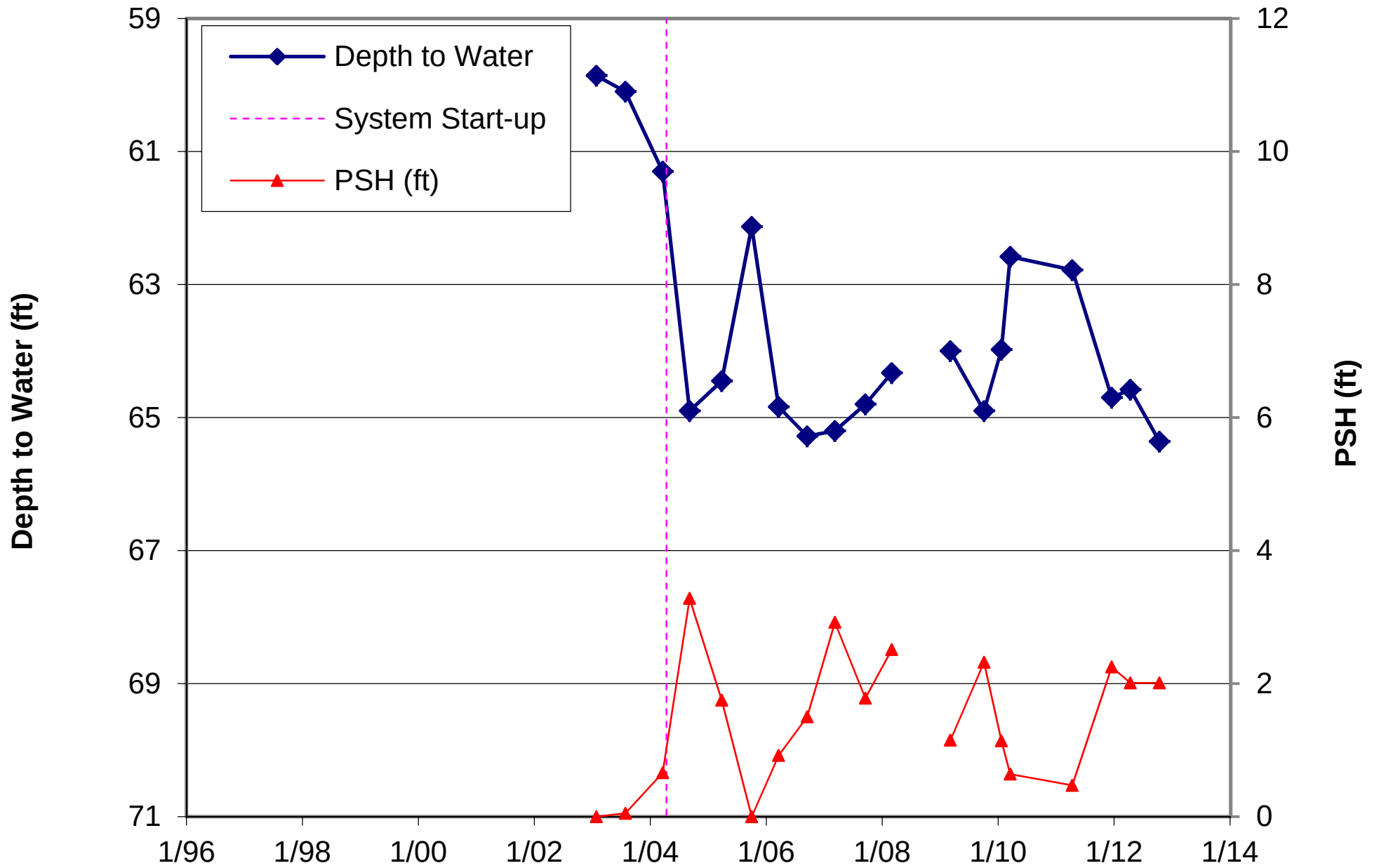
# Hydrograph for Well MPE-20 Roswell Station Remediation Site



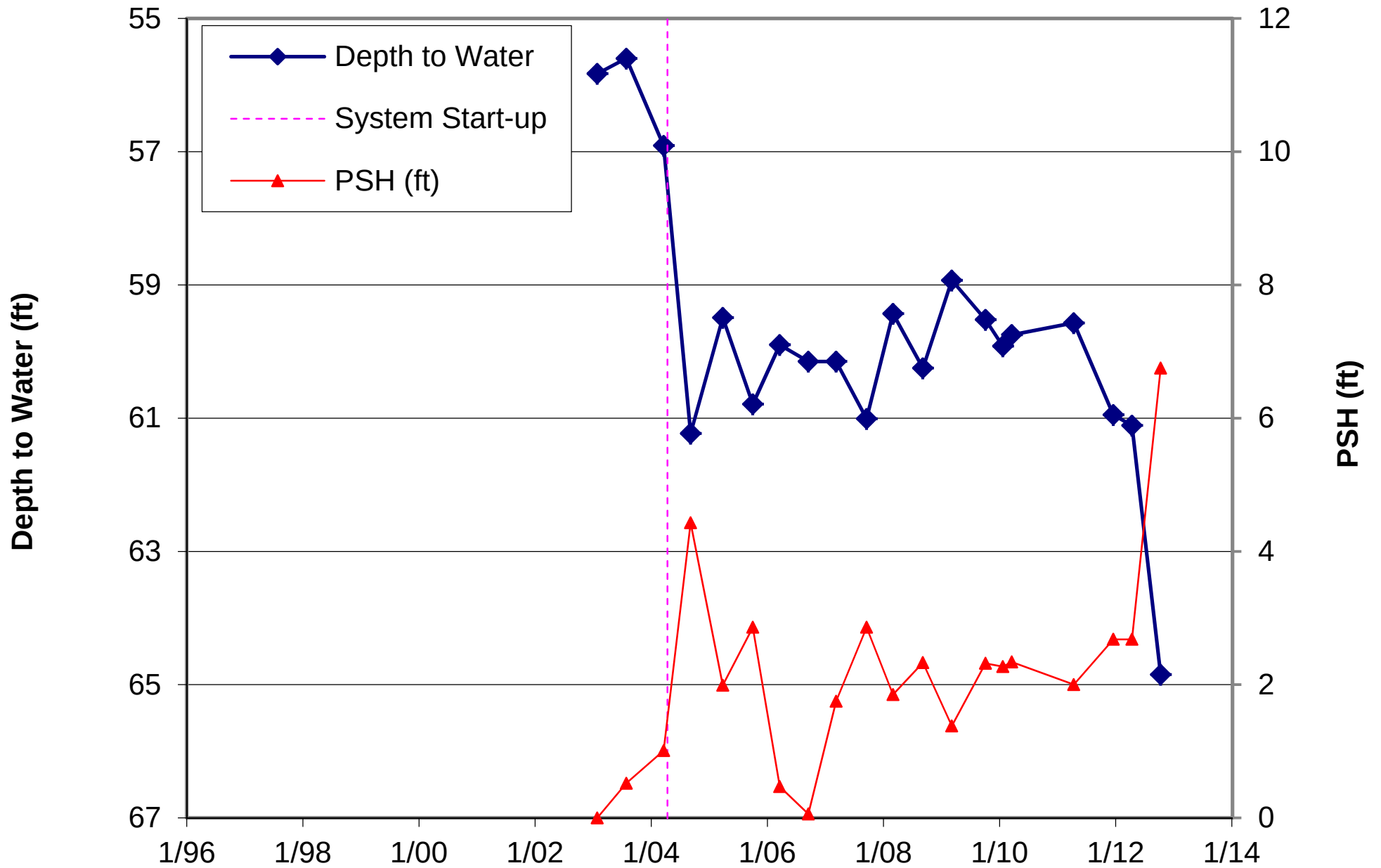
# Hydrograph for Well MPE-21 Roswell Station Remediation Site



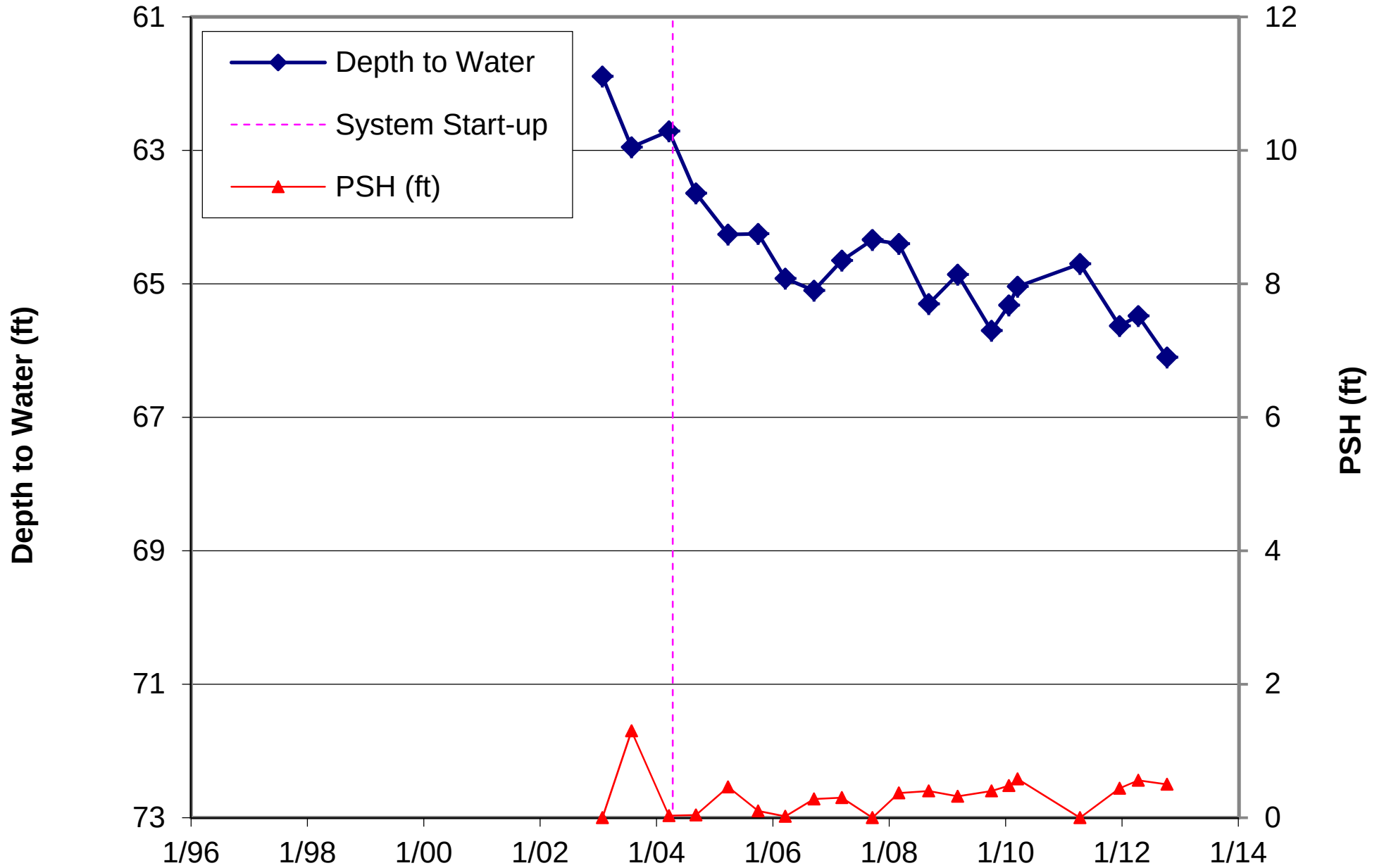
# Hydrograph for Well MPE-23 Roswell Station Remediation Site



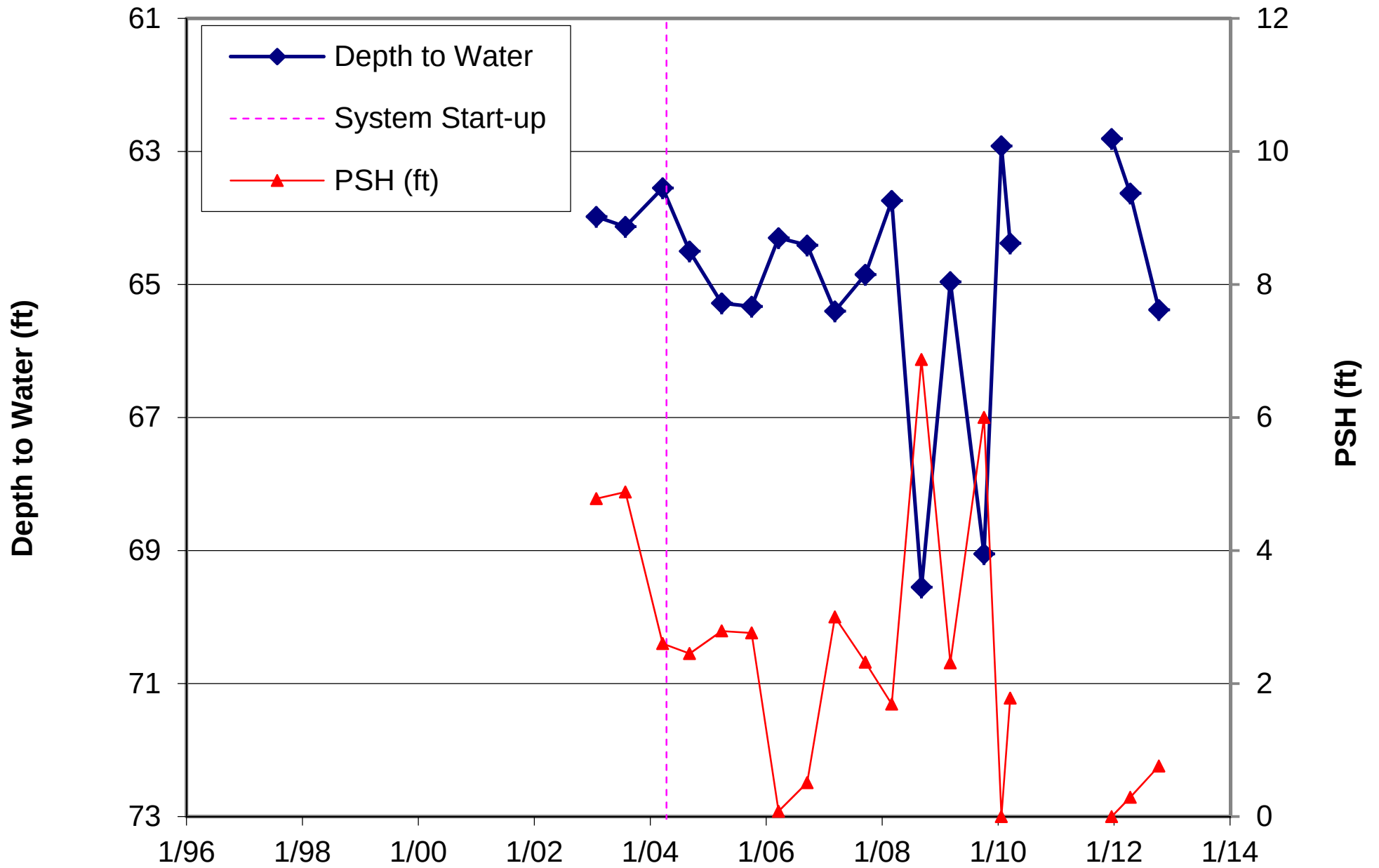
# Hydrograph for Well MPE-24 Roswell Station Remediation Site



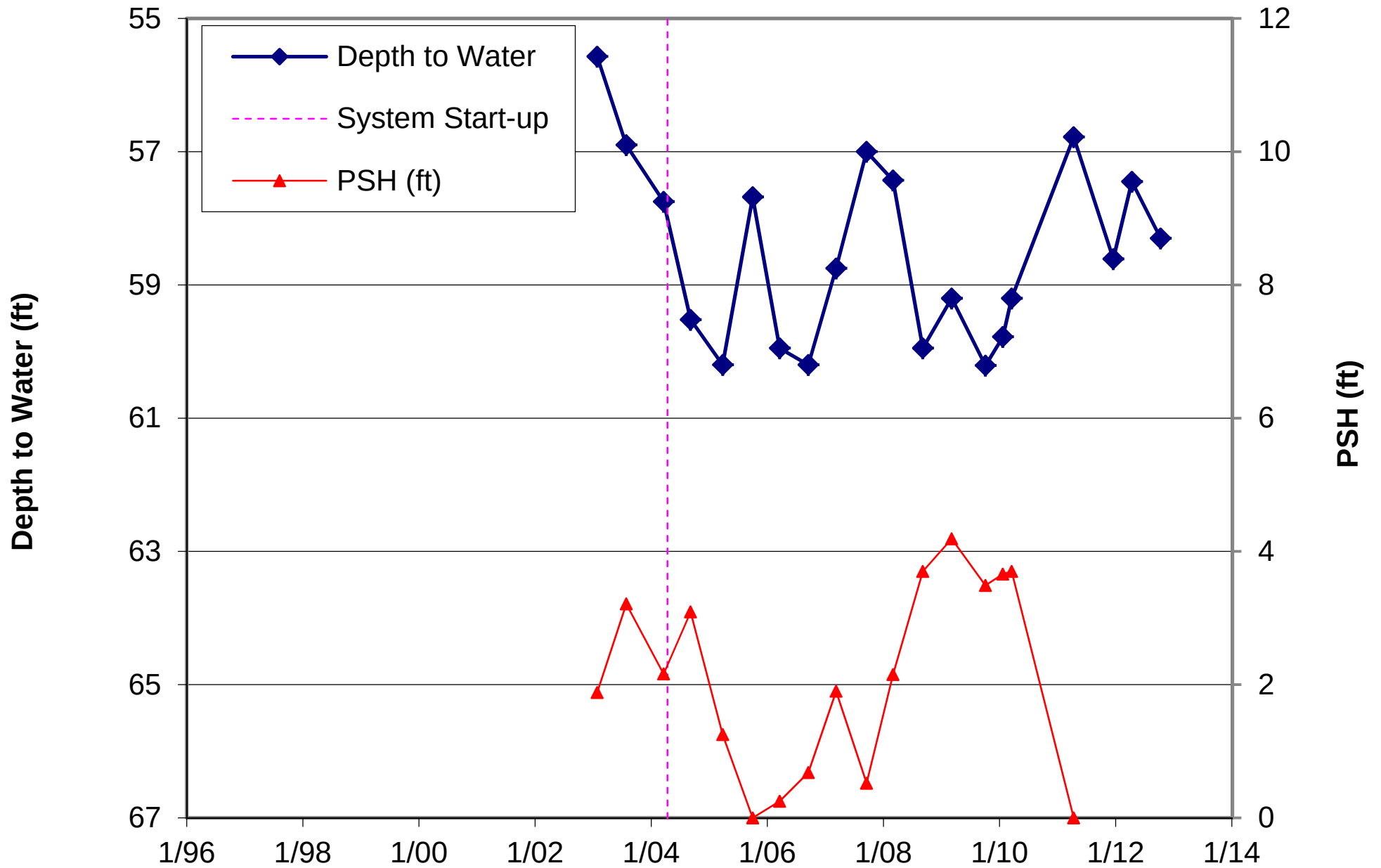
# Hydrograph for Well MPE-26 Roswell Station Remediation Site



# Hydrograph for Well MPE-27 Roswell Station Remediation Site

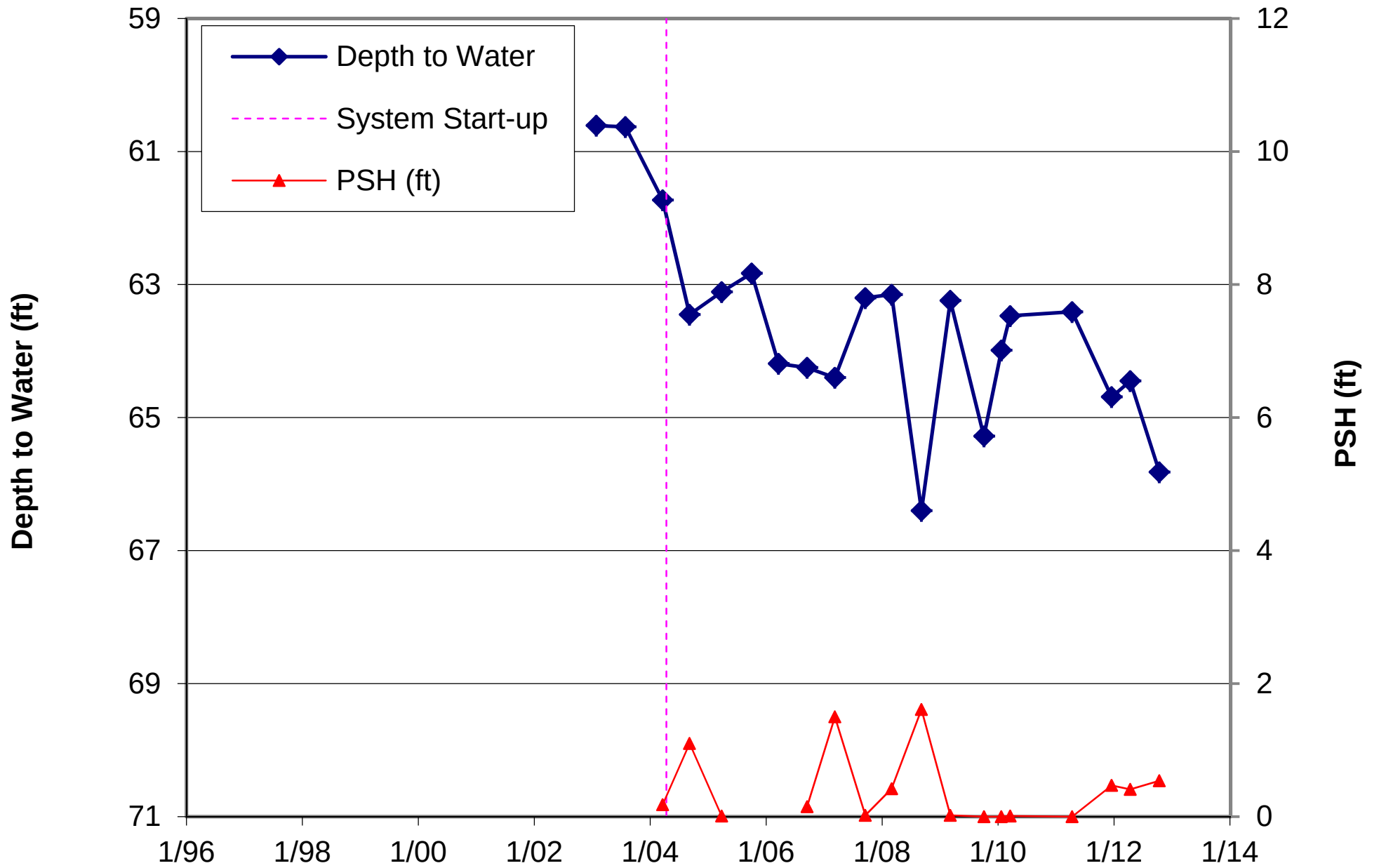


# Hydrograph for Well MPE-28 Roswell Station Remediation Site

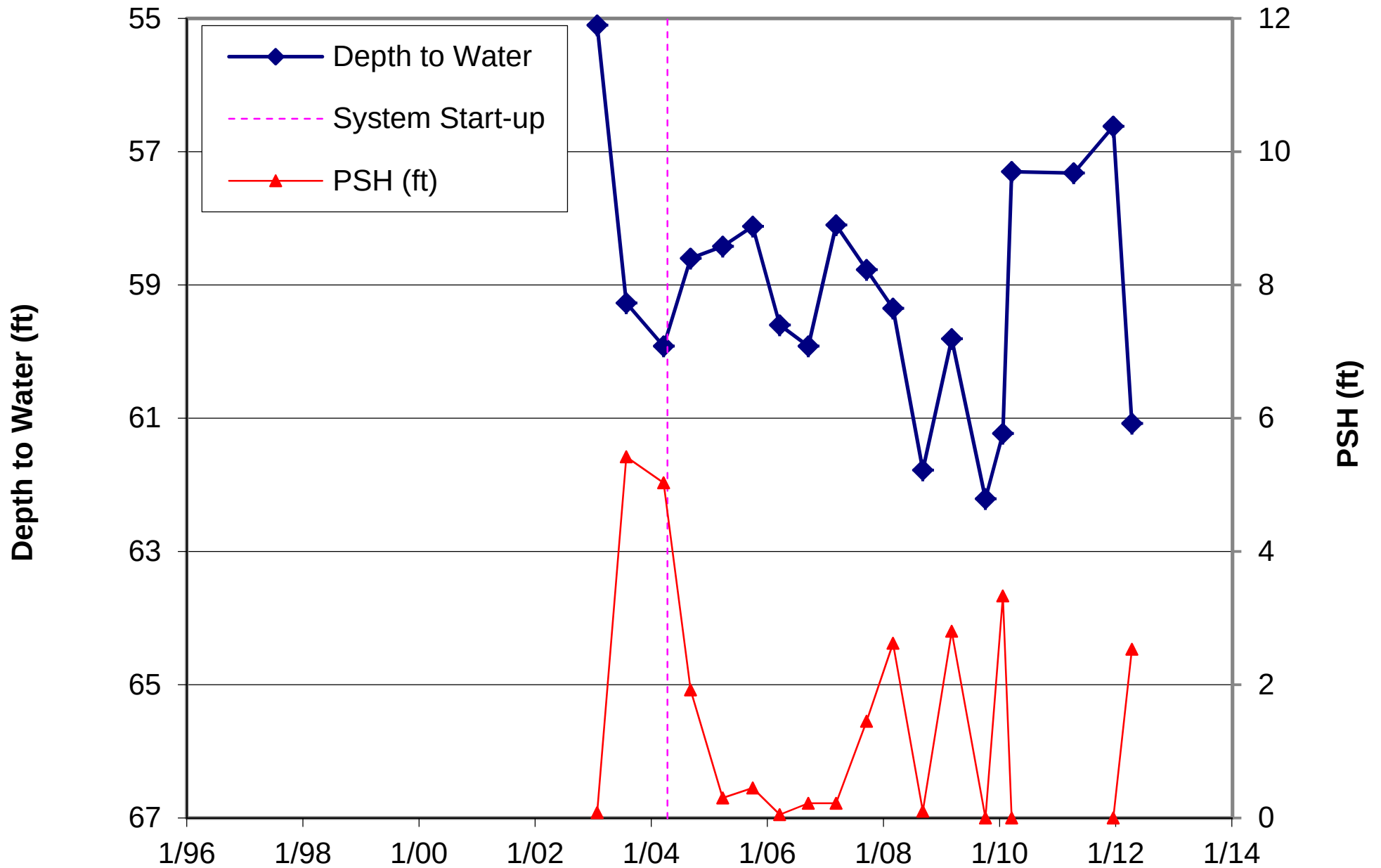




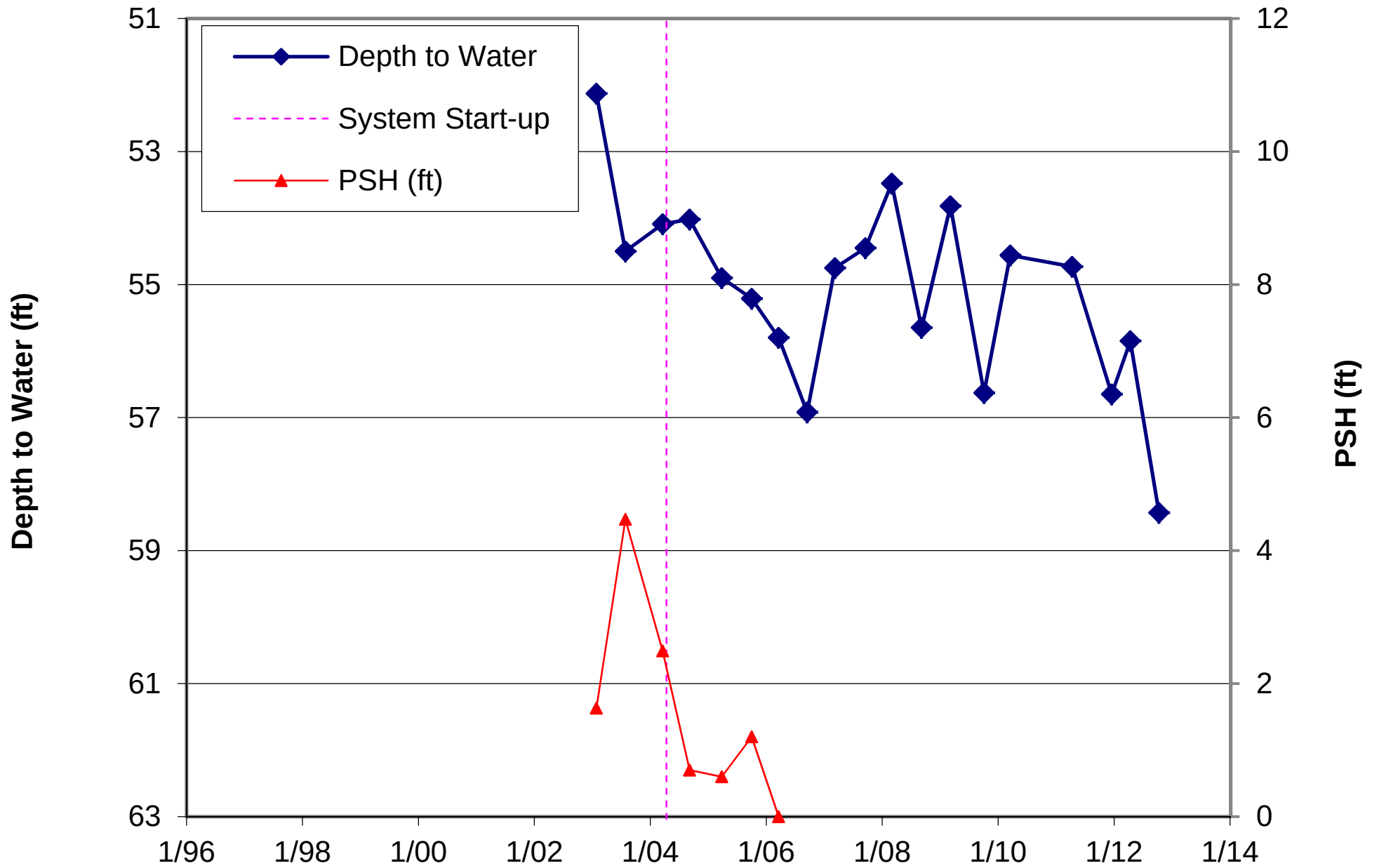
# Hydrograph for Well MPE-31 Roswell Station Remediation Site



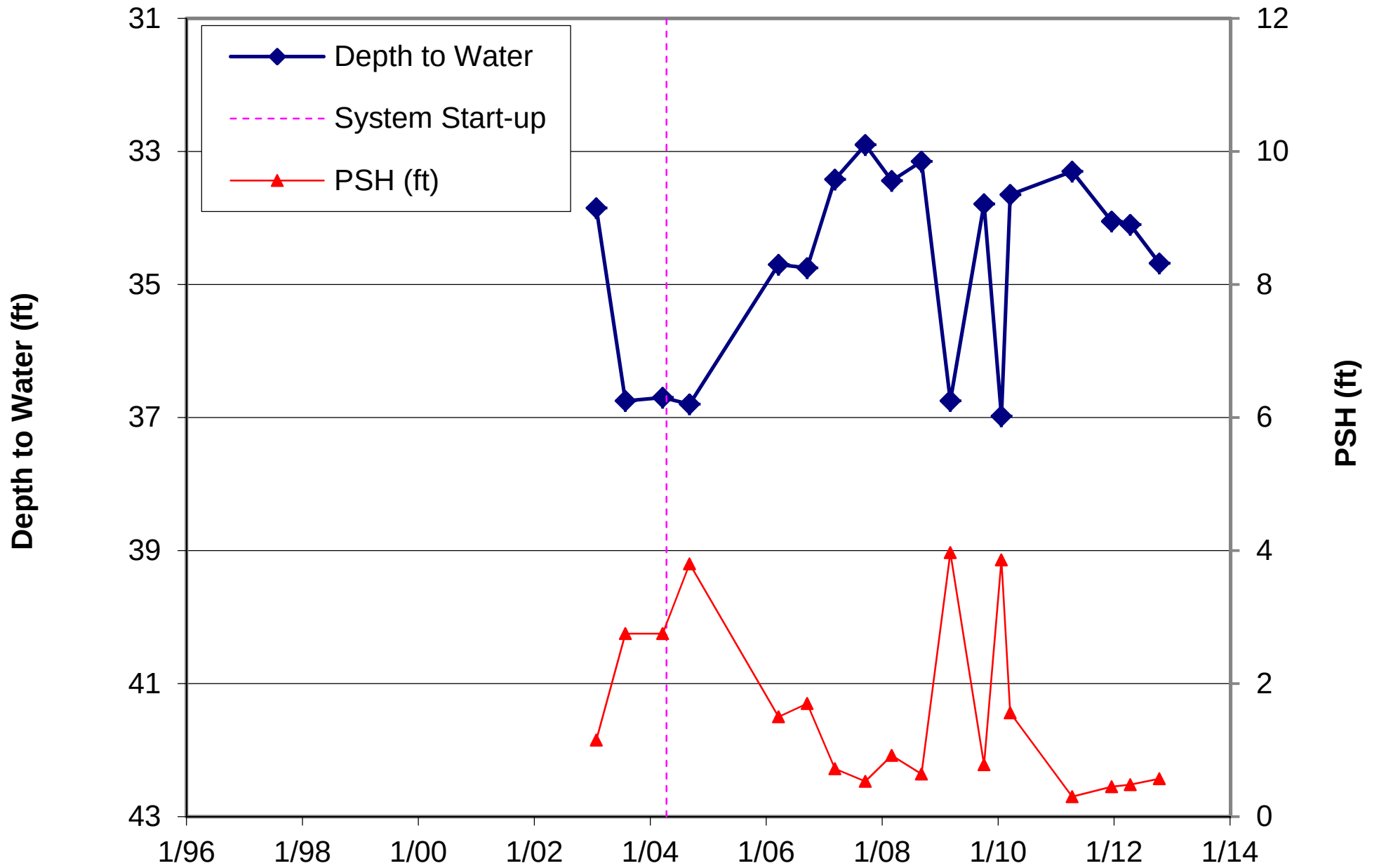
# Hydrograph for Well MPE-32 Roswell Station Remediation Site



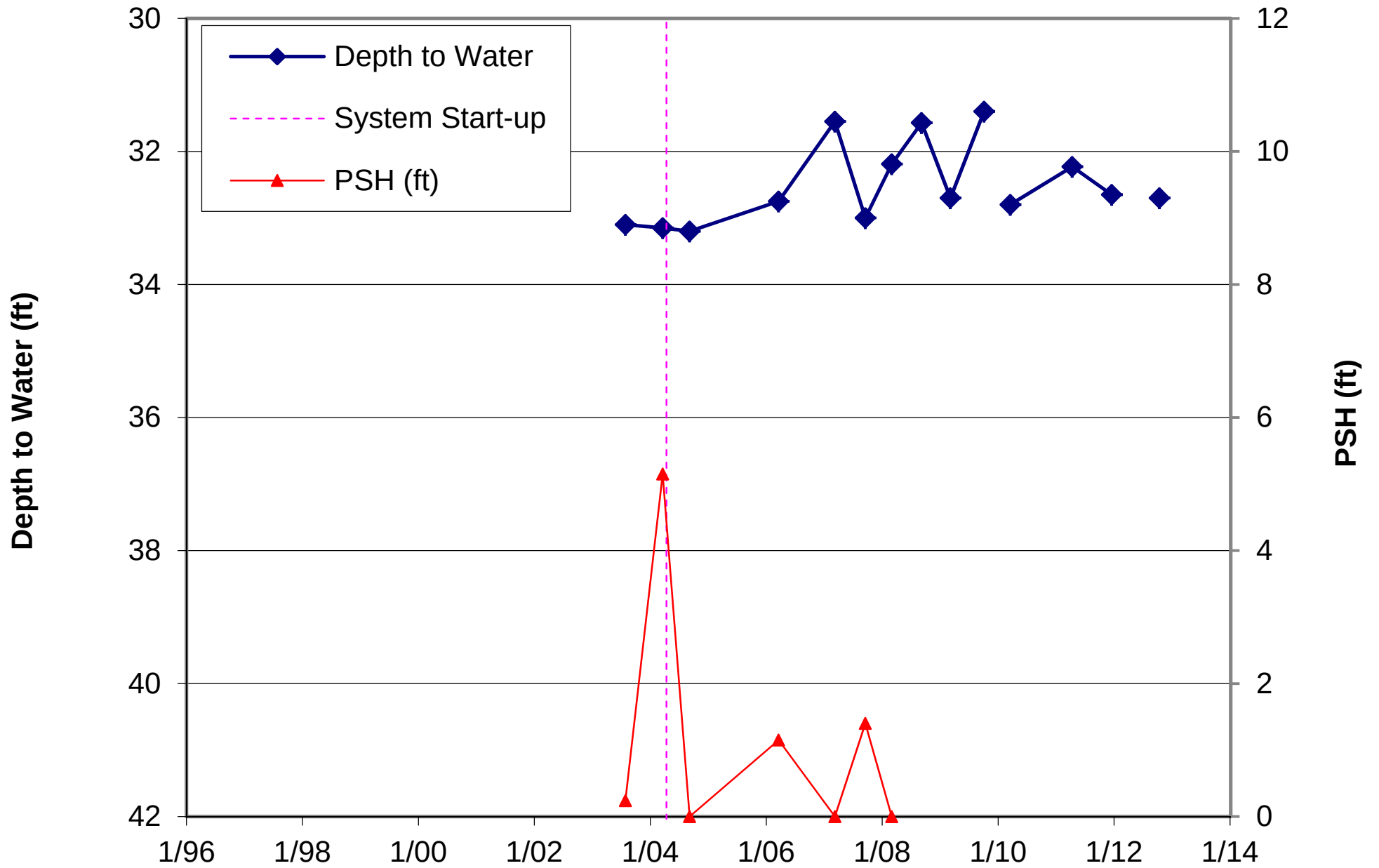
# Hydrograph for Well MPE-33 Roswell Station Remediation Site



# Hydrograph for Well SVE-23 Roswell Station Remediation Site



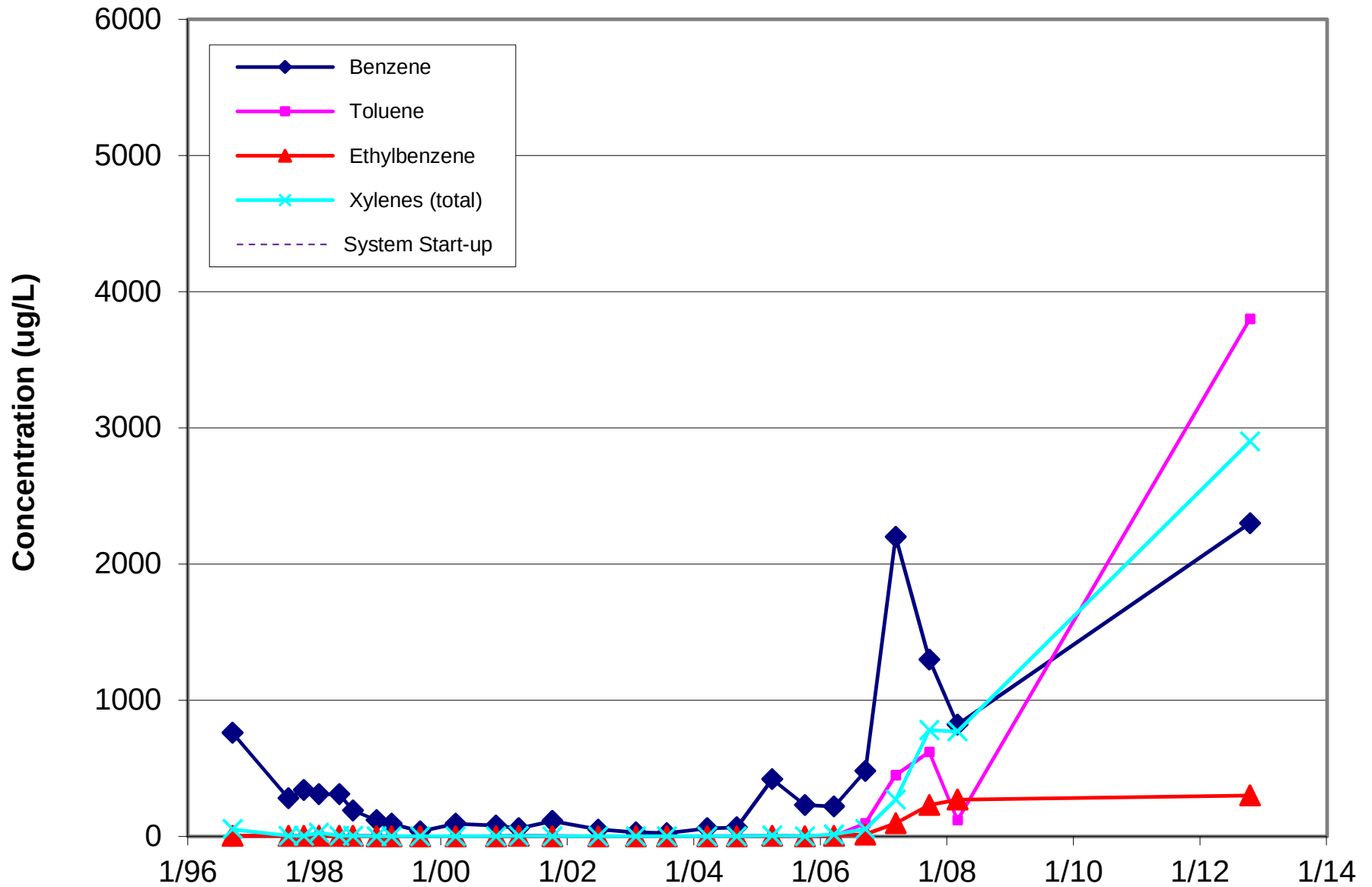
# Hydrograph for Well SVE-25 Roswell Station Remediation Site



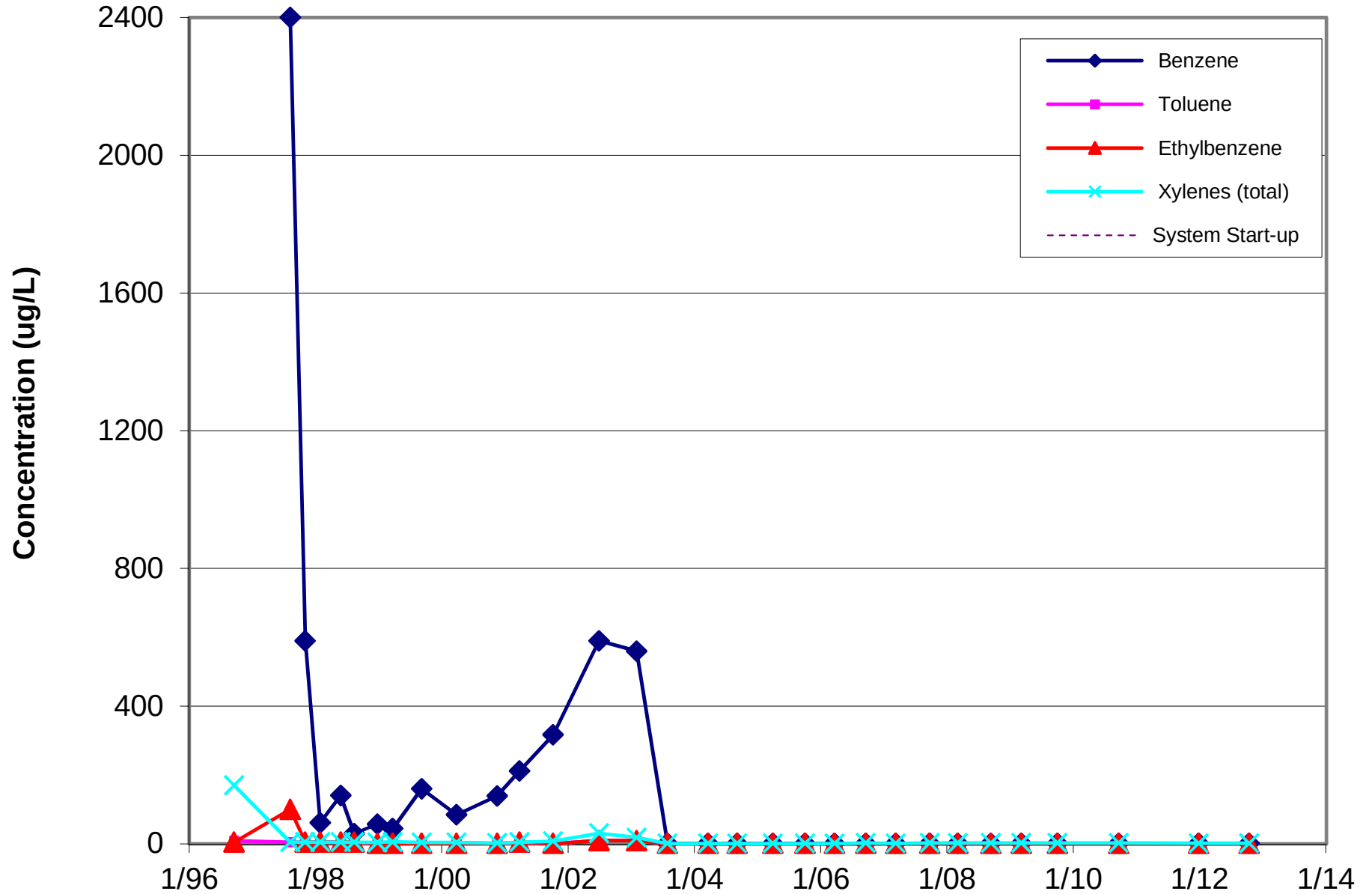
# APPENDIX C

## Concentration History Plots

# Concentration History at Well MW-12 Roswell Station Remediation Site

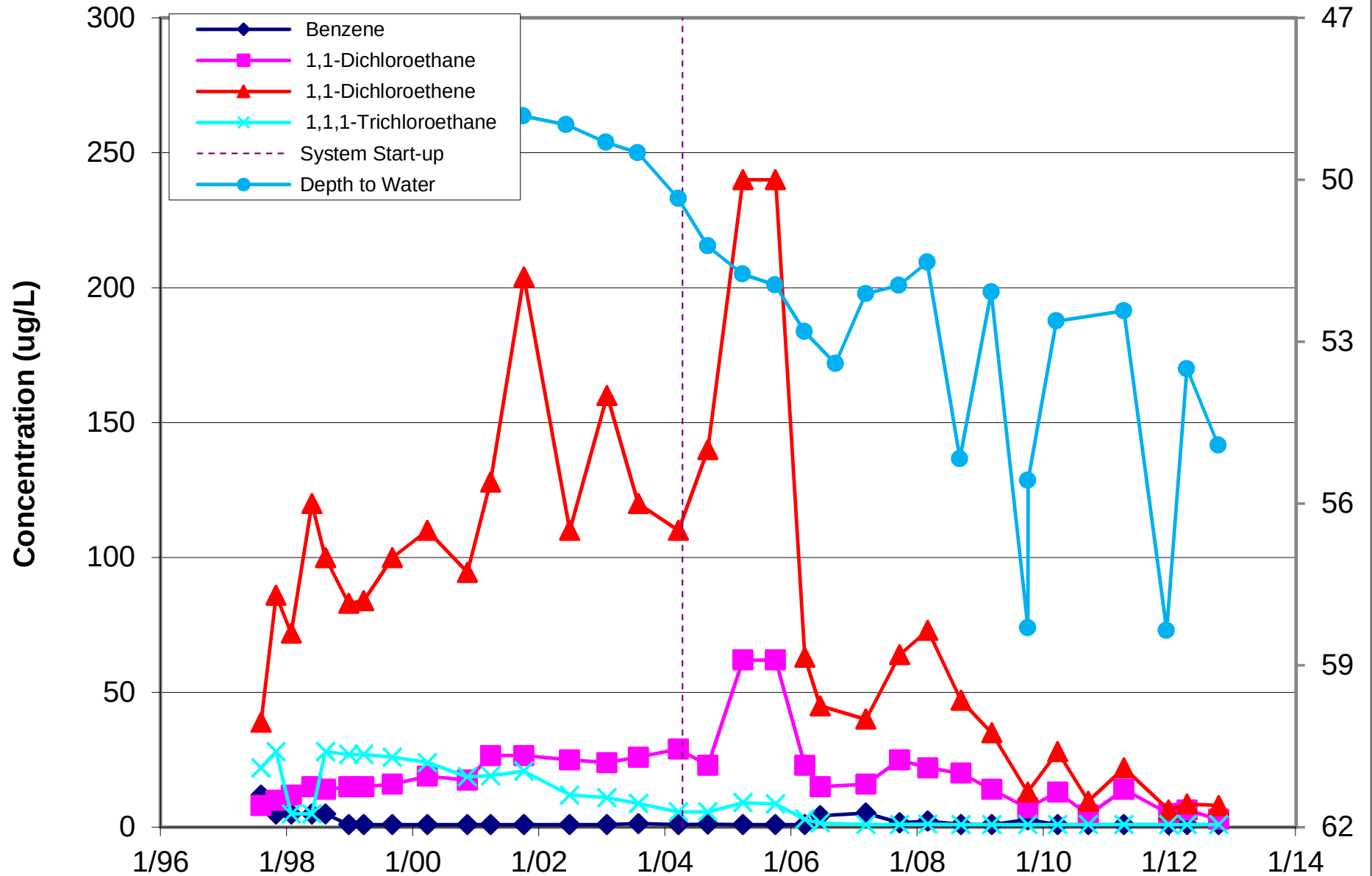


# Concentration History at Well MW-13 Roswell Station Remediation Site

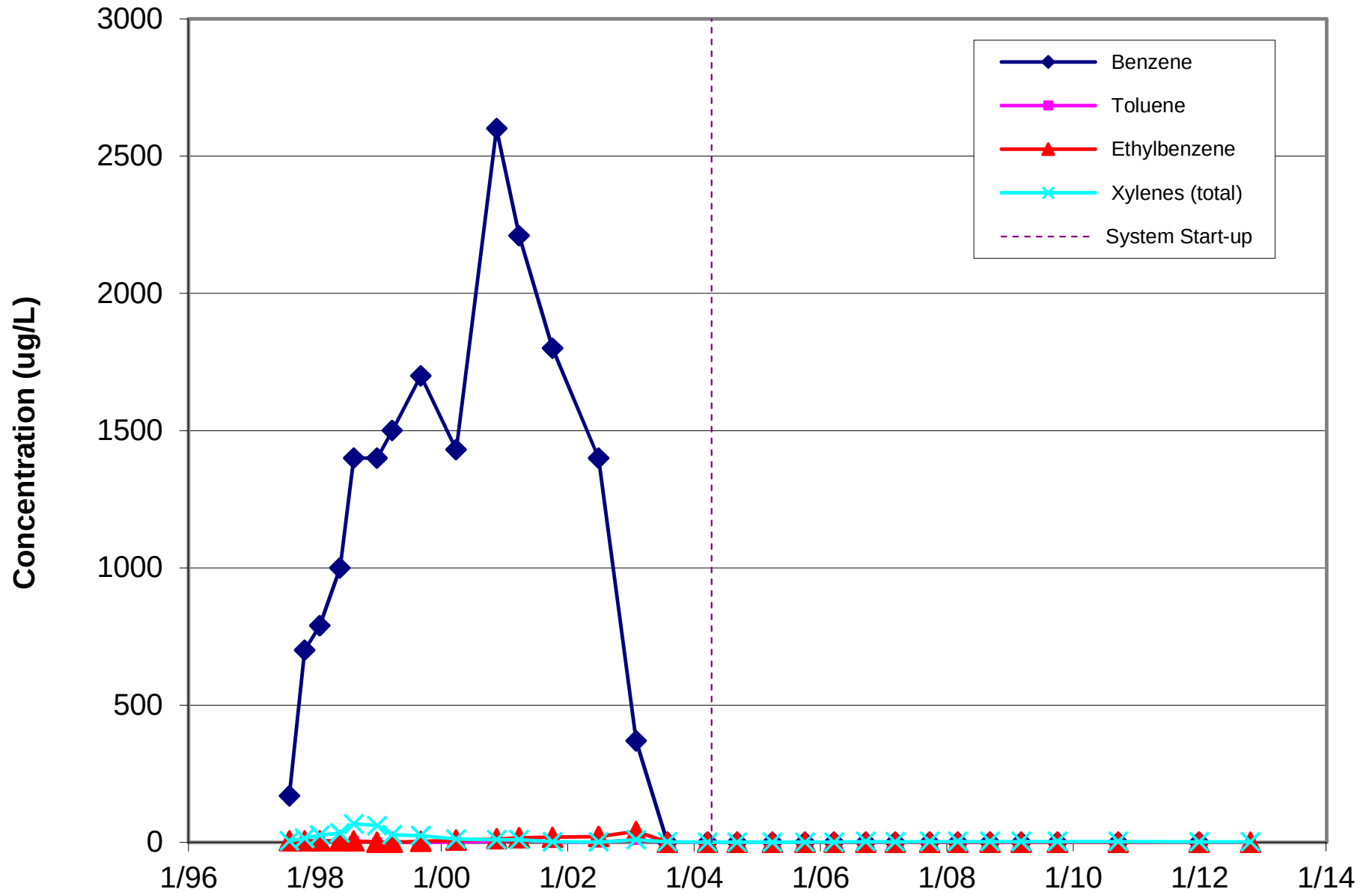




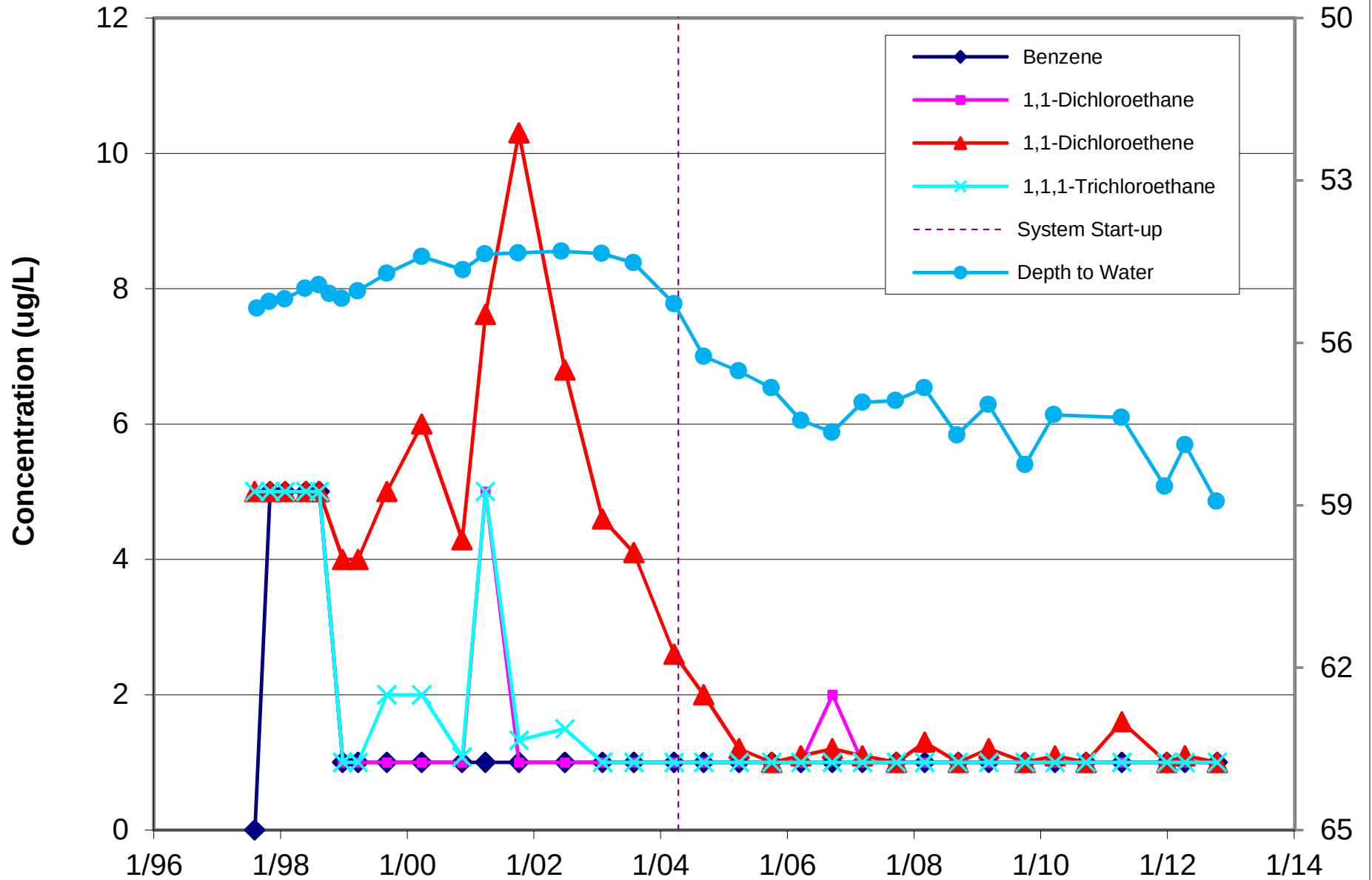
# Concentration History at Well MW-20 TW Roswell Remediation Site



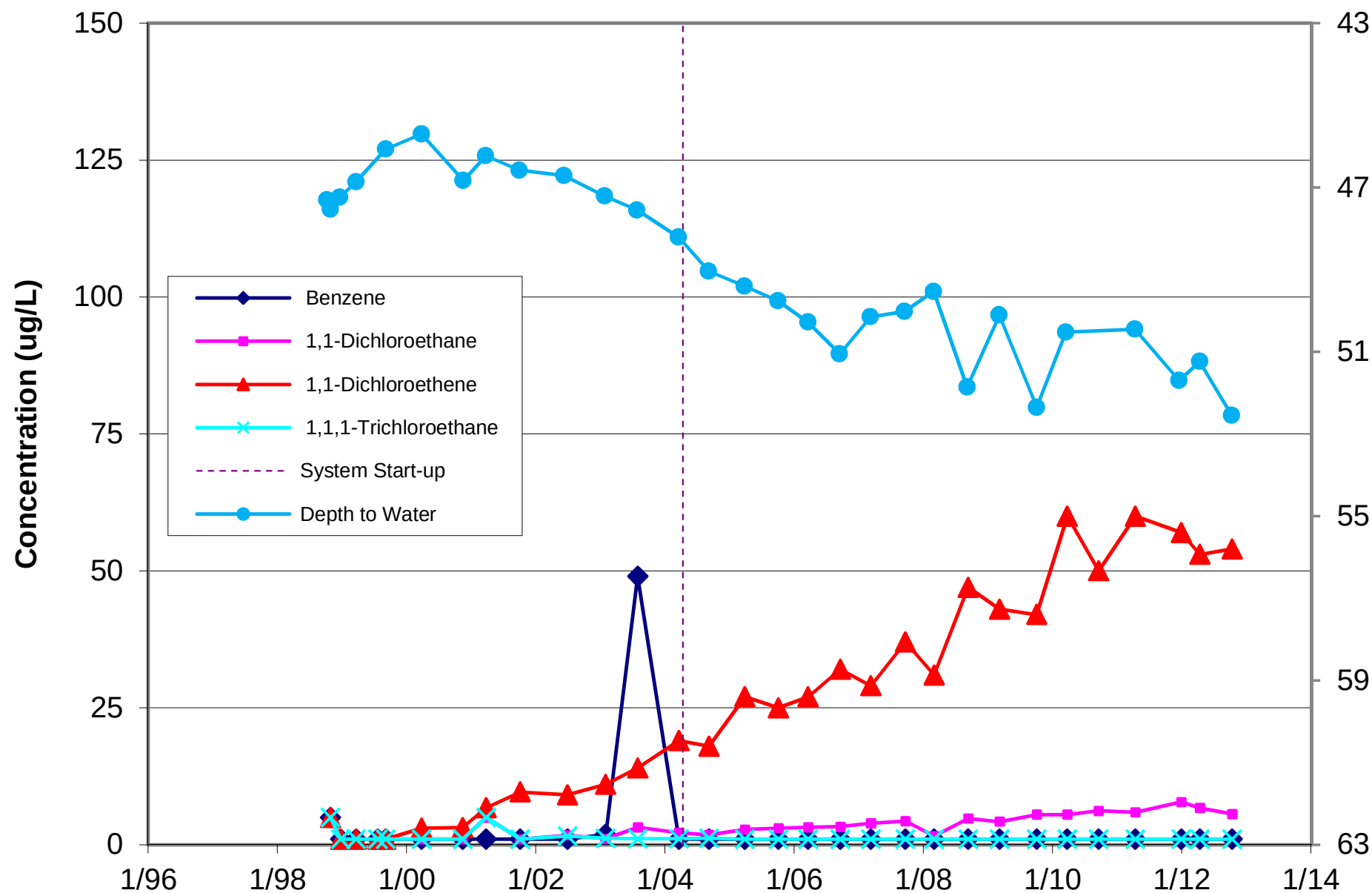
# Concentration History at Well MW-21 Roswell Station Remediation Site



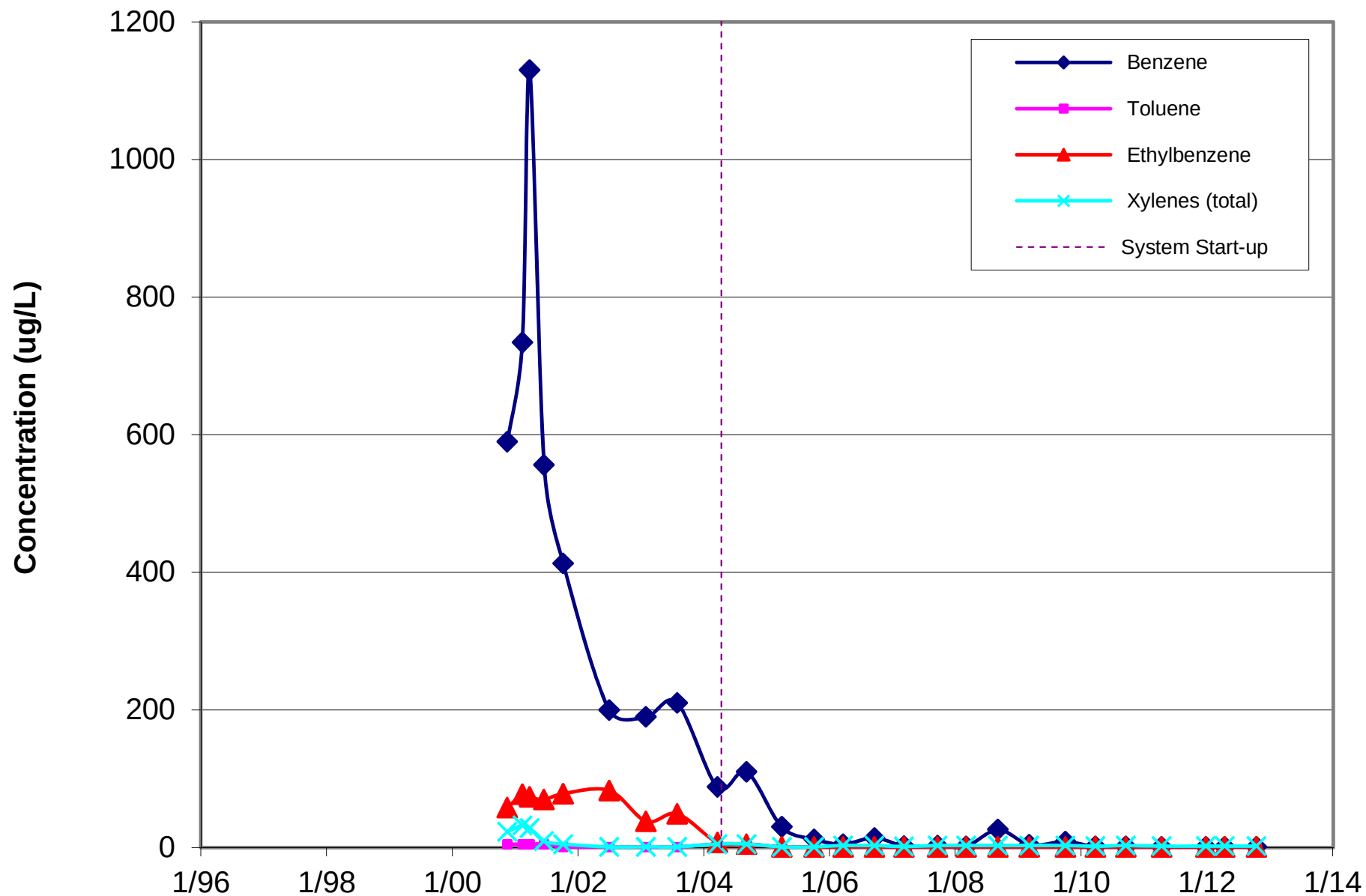
# Concentration History at Well MW-22 Roswell Station Remediation Site



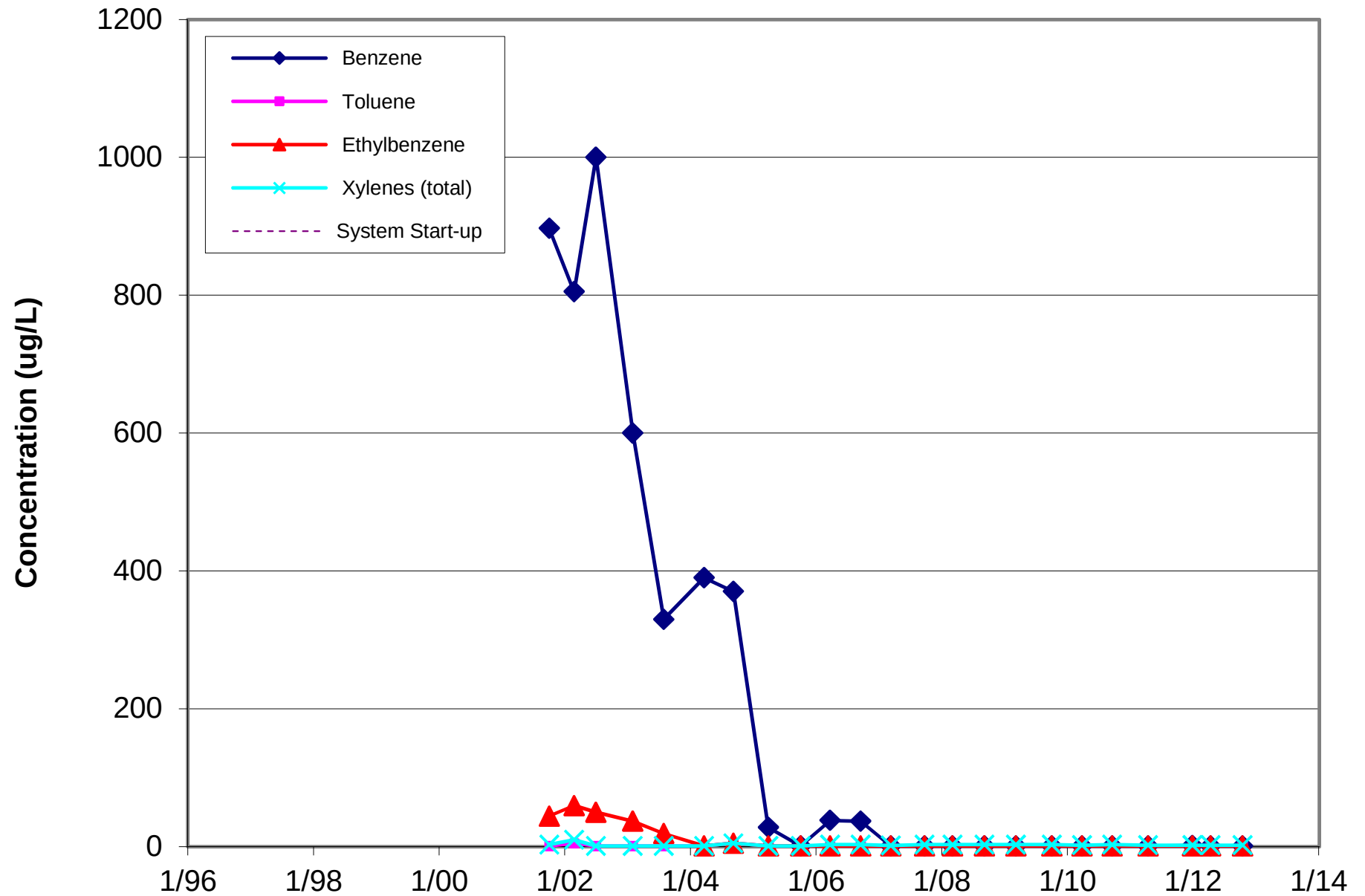
# Concentration History at Well MW-26 Roswell Station Remediation Site



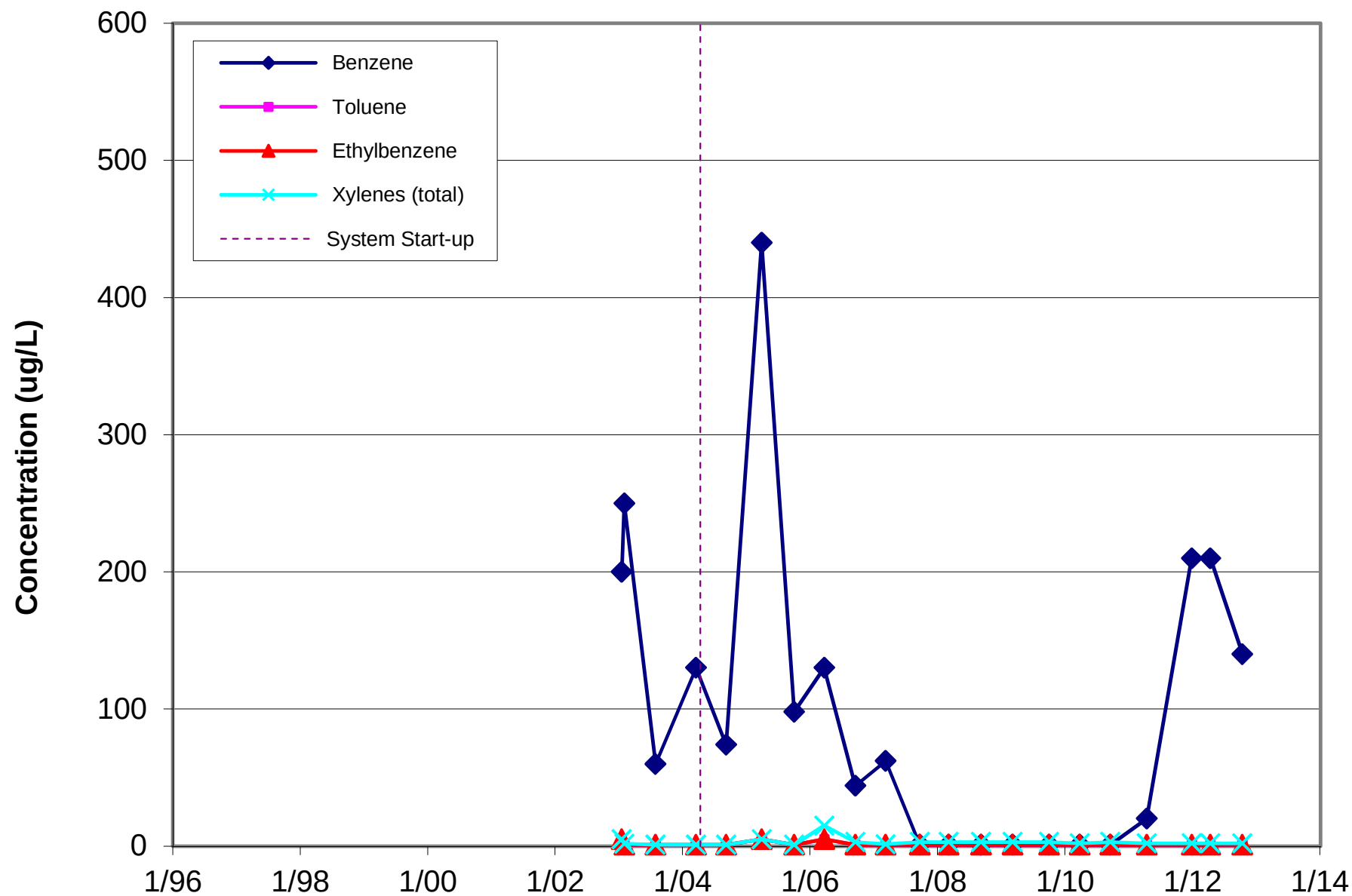
# Concentration History at Well MW-29 Roswell Station Remediation Site



# Concentration History at Well MW-32 Roswell Station Remediation Site



# Concentration History at Well MW-34 Roswell Station Remediation Site



# APPENDIX D

## Laboratory Reports



**LABORATORY REPORTS  
FOR SOIL VAPOR SAMPLES**



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

July 17, 2012

Sandra Sharp

Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3421  
FAX

RE: CES TWP Roswell Station 9

OrderNo.: 1207157

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 7 sample(s) on 7/5/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207157

Date Reported: 7/17/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit "A"

**Project:** CES TWP Roswell Station 9

**Collection Date:** 7/3/2012 2:15:00 PM

**Lab ID:** 1207157-001

**Matrix:** AIR

**Received Date:** 7/5/2012 1:20:00 PM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 610    | 250      |      | µg/L  | 50 | 7/11/2012 4:25:36 PM |
| Surr: BFB                               | 93.7   | 43.1-185 |      | %REC  | 50 | 7/11/2012 4:25:36 PM |

**Qualifiers:**

|       |                                                 |
|-------|-------------------------------------------------|
| * / X | Value exceeds Maximum Contaminant Level.        |
| E     | Value above quantitation range                  |
| J     | Analyte detected below quantitation limits      |
| R     | RPD outside accepted recovery limits            |
| S     | Spike Recovery outside accepted recovery limits |

|    |                                                    |
|----|----------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    |
| H  | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit                |
| RL | Reporting Detection Limit                          |
| U  | Samples with CalcVal < MDL                         |

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207157

Date Reported: 7/17/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit "B"

**Project:** CES TWP Roswell Station 9

**Collection Date:** 7/3/2012 2:25:00 PM

**Lab ID:** 1207157-002

**Matrix:** AIR

**Received Date:** 7/5/2012 1:20:00 PM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 5700   | 500      |      | µg/L  | 100 | 7/11/2012 4:53:11 PM |
| Surr: BFB                               | 98.7   | 43.1-185 |      | %REC  | 100 | 7/11/2012 4:53:11 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207157

Date Reported: 7/17/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit "Shallow"

**Project:** CES TWP Roswell Station 9

**Collection Date:** 7/3/2012 2:30:00 PM

**Lab ID:** 1207157-003

**Matrix:** AIR

**Received Date:** 7/5/2012 1:20:00 PM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 37     | 5.0      |      | µg/L  | 1  | 7/13/2012 2:26:07 PM |
| Surr: BFB                               | 105    | 43.1-185 |      | %REC  | 1  | 7/13/2012 2:26:07 PM |

**Qualifiers:**

|       |                                                 |
|-------|-------------------------------------------------|
| * / X | Value exceeds Maximum Contaminant Level.        |
| E     | Value above quantitation range                  |
| J     | Analyte detected below quantitation limits      |
| R     | RPD outside accepted recovery limits            |
| S     | Spike Recovery outside accepted recovery limits |

|    |                                                    |
|----|----------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    |
| H  | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit                |
| RL | Reporting Detection Limit                          |
| U  | Samples with CalcVal < MDL                         |

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207157

Date Reported: 7/17/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit "D"

**Project:** CES TWP Roswell Station 9

**Collection Date:** 7/3/2012 2:35:00 PM

**Lab ID:** 1207157-004

**Matrix:** AIR

**Received Date:** 7/5/2012 1:20:00 PM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 5800   | 500      |      | µg/L  | 100 | 7/13/2012 2:53:31 PM |
| Surr: BFB                               | 97.1   | 43.1-185 |      | %REC  | 100 | 7/13/2012 2:53:31 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207157

Date Reported: 7/17/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit "C"

**Project:** CES TWP Roswell Station 9

**Collection Date:** 7/3/2012 2:40:00 PM

**Lab ID:** 1207157-005

**Matrix:** AIR

**Received Date:** 7/5/2012 1:20:00 PM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 6900   | 500      |      | µg/L  | 100 | 7/13/2012 3:20:54 PM |
| Surr: BFB                               | 93.9   | 43.1-185 |      | %REC  | 100 | 7/13/2012 3:20:54 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207157

Date Reported: 7/17/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** East Baker

**Project:** CES TWP Roswell Station 9

**Collection Date:** 7/3/2012 2:50:00 PM

**Lab ID:** 1207157-006

**Matrix:** AIR

**Received Date:** 7/5/2012 1:20:00 PM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 2100   | 500      |      | µg/L  | 100 | 7/13/2012 3:48:17 PM |
| Surr: BFB                               | 80.6   | 43.1-185 |      | %REC  | 100 | 7/13/2012 3:48:17 PM |

**Qualifiers:**

|       |                                                 |
|-------|-------------------------------------------------|
| * / X | Value exceeds Maximum Contaminant Level.        |
| E     | Value above quantitation range                  |
| J     | Analyte detected below quantitation limits      |
| R     | RPD outside accepted recovery limits            |
| S     | Spike Recovery outside accepted recovery limits |

|    |                                                    |
|----|----------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    |
| H  | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit                |
| RL | Reporting Detection Limit                          |
| U  | Samples with CalcVal < MDL                         |



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207157

Date Reported: 7/17/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** West Baker

**Project:** CES TWP Roswell Station 9

**Collection Date:** 7/3/2012 2:55:00 PM

**Lab ID:** 1207157-007

**Matrix:** AIR

**Received Date:** 7/5/2012 1:20:00 PM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 3700   | 500      |      | µg/L  | 100 | 7/13/2012 4:15:41 PM |
| Surr: BFB                               | 94.7   | 43.1-185 |      | %REC  | 100 | 7/13/2012 4:15:41 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207157

17-Jul-12

**Client:** Cypress Engineering  
**Project:** CES TWP Roswell Station 9

|                               |                 |     |                          |             |                                            |          |             |      |          |      |
|-------------------------------|-----------------|-----|--------------------------|-------------|--------------------------------------------|----------|-------------|------|----------|------|
| Sample ID                     | 1207080-001ADUP |     | SampType: DUP            |             | TestCode: EPA Method 8015B: Gasoline Range |          |             |      |          |      |
| Client ID:                    | BatchQC         |     | Batch ID: R3991          |             | RunNo: 3991                                |          |             |      |          |      |
| Prep Date:                    |                 |     | Analysis Date: 7/11/2012 |             | SeqNo: 114091                              |          | Units: µg/L |      |          |      |
| Analyte                       | Result          | PQL | SPK value                | SPK Ref Val | %REC                                       | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 10000           | 250 |                          |             |                                            |          |             | 1.54 | 24.2     |      |
| Surr: BFB                     | 110000          |     | 100000                   |             | 111                                        | 43.1     | 185         | 0    | 0        |      |

|                               |                 |     |                          |             |                                            |          |             |      |          |      |
|-------------------------------|-----------------|-----|--------------------------|-------------|--------------------------------------------|----------|-------------|------|----------|------|
| Sample ID                     | 1207255-001ADUP |     | SampType: DUP            |             | TestCode: EPA Method 8015B: Gasoline Range |          |             |      |          |      |
| Client ID:                    | BatchQC         |     | Batch ID: R4044          |             | RunNo: 4044                                |          |             |      |          |      |
| Prep Date:                    |                 |     | Analysis Date: 7/13/2012 |             | SeqNo: 115492                              |          | Units: µg/L |      |          |      |
| Analyte                       | Result          | PQL | SPK value                | SPK Ref Val | %REC                                       | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND              | 5.0 |                          |             |                                            |          |             | 0    | 24.2     |      |
| Surr: BFB                     | 1900            |     | 2000                     |             | 97.1                                       | 43.1     | 185         | 0    | 0        |      |

### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

## Sample Log-In Check List

|                                                 |                     |                            |
|-------------------------------------------------|---------------------|----------------------------|
| Client Name: CYP                                |                     | Work Order Number: 1207157 |
| Received by/date: <u>AG 07/05/12</u>            |                     |                            |
| Logged By: Anne Thorne                          | 7/5/2012 1:20:00 PM | <i>Anne Thorne</i>         |
| Completed By: Anne Thorne                       | 7/6/2012            | <i>Anne Thorne</i>         |
| Reviewed By: <i>[Signature]</i> <u>07/06/12</u> |                     |                            |

### Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☐ No ☐ NA ☒
5. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☒
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☐ NA ☒
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☒ No ☐
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

|                            |                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Person Notified: _____     | Date: _____                                                                                                                        |
| By Whom: _____             | Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: _____           |                                                                                                                                    |
| Client Instructions: _____ |                                                                                                                                    |

18. Additional remarks:

### 19. Cooler Information

# Chain-of-Custody Record

Client: Cypress Engineering

ATTN: George Robinson

Mailing Address: Highway 6 North

Houston, TX 77085

Phone #: 281.797.3420

Email or Fax#: George.Robinson@CypressInc.com

QA/QC Package: Cypress Inc. 4.0

☐ Standard ☐ Level 4 (Full Validation)

Accreditation ☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: WTP Roswell Station 9

Project #: 2012

SVE Circuit Air Sampling

Project Manager: Sandy Sharp

Sampler: CM Barnhill, Jr.

On Ice: ☐ Yes ☒ No

Sample Temperature:

Container Type and #

Preservative Type

HEAL No.

1206157

-001

-002

-003

-004

-005

-006

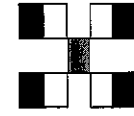
-007

Received by: [Signature] Date: 07/05/12 Time: 1320

Relinquished by: [Signature] Date: 07/05/12 Time: 1320

Date: 7/6/12 Time: 1600

Date: 7/6/12 Time: 1600



## 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 + TMBs (8021)

BTEX + MTBE + TPH (Gas only)

TPH 8015B (CRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

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)

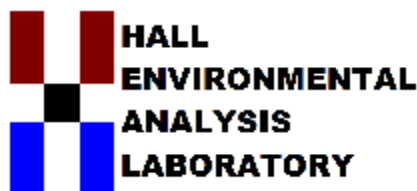
8270 (Semi-VOA)

Air Bubbles (Y or N)

Remarks:

Analysis: TPHT-MAP 8055-8  
Any Questions Call Sandy Sharp  
@ 281-797-3421

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

October 17, 2012

Sandra Sharp  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3421  
FAX (281) 859-1881

RE: TWP Roswell Station 9

OrderNo.: 1210444

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 9 sample(s) on 10/8/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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", with a stylized flourish at the end.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1210444**

Date Reported: **10/17/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit "A" Outside Bldg

**Project:** TWP Roswell Station 9

**Collection Date:** 10/5/2012 10:00:00 AM

**Lab ID:** 1210444-001

**Matrix:** AIR

**Received Date:** 10/8/2012 9:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)           | 620    | 120      |      | µg/L  | 25 | 10/9/2012 3:33:12 PM |
| Surr: BFB                               | 88.8   | 43.1-185 |      | %REC  | 25 | 10/9/2012 3:33:12 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order **1210444**

Date Reported: **10/17/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit "B" Outside Bldg

**Project:** TWP Roswell Station 9

**Collection Date:** 10/5/2012 10:15:00 AM

**Lab ID:** 1210444-002

**Matrix:** AIR

**Received Date:** 10/8/2012 9:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)           | 5000   | 120      |      | µg/L  | 25 | 10/9/2012 4:00:39 PM |
| Surr: BFB                               | 93.7   | 43.1-185 |      | %REC  | 25 | 10/9/2012 4:00:39 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order **1210444**

Date Reported: **10/17/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit "A"

**Project:** TWP Roswell Station 9

**Collection Date:** 10/5/2012 11:45:00 AM

**Lab ID:** 1210444-003

**Matrix:** AIR

**Received Date:** 10/8/2012 9:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)           | 530    | 100      |      | µg/L  | 20 | 10/9/2012 4:27:57 PM |
| Surr: BFB                               | 117    | 43.1-185 |      | %REC  | 20 | 10/9/2012 4:27:57 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order **1210444**

Date Reported: **10/17/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit "B"

**Project:** TWP Roswell Station 9

**Collection Date:** 10/5/2012 11:40:00 AM

**Lab ID:** 1210444-004

**Matrix:** AIR

**Received Date:** 10/8/2012 9:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)           | 4100   | 250      |      | µg/L  | 50 | 10/9/2012 4:55:18 PM |
| Surr: BFB                               | 100    | 43.1-185 |      | %REC  | 50 | 10/9/2012 4:55:18 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order **1210444**

Date Reported: **10/17/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit "C"

**Project:** TWP Roswell Station 9

**Collection Date:** 10/5/2012 10:45:00 AM

**Lab ID:** 1210444-005

**Matrix:** AIR

**Received Date:** 10/8/2012 9:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)           | 3100   | 250      |      | µg/L  | 50 | 10/9/2012 5:22:34 PM |
| Surr: BFB                               | 106    | 43.1-185 |      | %REC  | 50 | 10/9/2012 5:22:34 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order **1210444**

Date Reported: **10/17/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit "D"

**Project:** TWP Roswell Station 9

**Collection Date:** 10/5/2012 11:25:00 AM

**Lab ID:** 1210444-006

**Matrix:** AIR

**Received Date:** 10/8/2012 9:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Gasoline Range Organics (GRO)           | 3600   | 250      |      | µg/L  | 50 | 10/10/2012 12:52:57 PM |
| Surr: BFB                               | 77.2   | 43.1-185 |      | %REC  | 50 | 10/10/2012 12:52:57 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order **1210444**

Date Reported: **10/17/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit Shallow

**Project:** TWP Roswell Station 9

**Collection Date:** 10/5/2012 11:35:00 AM

**Lab ID:** 1210444-007

**Matrix:** AIR

**Received Date:** 10/8/2012 9:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)           | 36     | 5.0      |      | µg/L  | 1  | 10/10/2012 1:20:23 PM |
| Surr: BFB                               | 92.3   | 43.1-185 |      | %REC  | 1  | 10/10/2012 1:20:23 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order **1210444**

Date Reported: **10/17/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** West Baker Furnace

**Project:** TWP Roswell Station 9

**Collection Date:** 10/5/2012 11:55:00 AM

**Lab ID:** 1210444-008

**Matrix:** AIR

**Received Date:** 10/8/2012 9:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)           | 1400   | 250      |      | µg/L  | 50 | 10/10/2012 2:14:57 PM |
| Surr: BFB                               | 115    | 43.1-185 |      | %REC  | 50 | 10/10/2012 2:14:57 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order **1210444**

Date Reported: **10/17/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** East Baker Furnace

**Project:** TWP Roswell Station 9

**Collection Date:** 10/5/2012 12:00:00 PM

**Lab ID:** 1210444-009

**Matrix:** AIR

**Received Date:** 10/8/2012 9:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Gasoline Range Organics (GRO)           | 1200   | 250      |      | µg/L  | 50 | 10/11/2012 12:01:29 PM |
| Surr: BFB                               | 97.9   | 43.1-185 |      | %REC  | 50 | 10/11/2012 12:01:29 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210444

17-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                               |                 |                |           |             |                                  |          |           |       |          |      |
|-------------------------------|-----------------|----------------|-----------|-------------|----------------------------------|----------|-----------|-------|----------|------|
| Sample ID                     | 1210443-001ADUP | SampType:      | DUP       | TestCode:   | EPA Method 8015B: Gasoline Range |          |           |       |          |      |
| Client ID:                    | BatchQC         | Batch ID:      | R6119     | RunNo:      | 6119                             |          |           |       |          |      |
| Prep Date:                    |                 | Analysis Date: | 10/9/2012 | SeqNo:      | 176326                           | Units:   | µg/L      |       |          |      |
| Analyte                       | Result          | PQL            | SPK value | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 900             | 25             |           |             |                                  |          |           | 0.990 | 21       |      |
| Surr: BFB                     | 16000           |                | 10000     |             | 161                              | 43.1     | 185       | 0     | 0        |      |

|                               |                 |                |            |             |                                  |          |           |      |          |      |
|-------------------------------|-----------------|----------------|------------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | 1210444-006ADUP | SampType:      | DUP        | TestCode:   | EPA Method 8015B: Gasoline Range |          |           |      |          |      |
| Client ID:                    | Circuit "D"     | Batch ID:      | R6154      | RunNo:      | 6154                             |          |           |      |          |      |
| Prep Date:                    |                 | Analysis Date: | 10/10/2012 | SeqNo:      | 177296                           | Units:   | µg/L      |      |          |      |
| Analyte                       | Result          | PQL            | SPK value  | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 3400            | 250            |            |             |                                  |          |           | 4.82 | 21       |      |
| Surr: BFB                     | 81000           |                | 100000     |             | 80.9                             | 43.1     | 185       | 0    | 0        |      |

|                               |                    |                |            |             |                                  |          |           |      |          |      |
|-------------------------------|--------------------|----------------|------------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | 1210444-009ADUP    | SampType:      | DUP        | TestCode:   | EPA Method 8015B: Gasoline Range |          |           |      |          |      |
| Client ID:                    | East Baker Furnace | Batch ID:      | R6187      | RunNo:      | 6187                             |          |           |      |          |      |
| Prep Date:                    |                    | Analysis Date: | 10/11/2012 | SeqNo:      | 178254                           | Units:   | µg/L      |      |          |      |
| Analyte                       | Result             | PQL            | SPK value  | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 1300               | 250            |            |             |                                  |          |           | 7.81 | 21       |      |
| Surr: BFB                     | 120000             |                | 100000     |             | 124                              | 43.1     | 185       | 0    | 0        |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210444

17-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5ML RB</b>       | SampType: <b>MBLK</b>           |       | TestCode: <b>EPA Method 8015B: Gasoline Range</b> |             |                    |          |           |      |          |      |
|-------------------------------|---------------------------------|-------|---------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>         | Batch ID: <b>R6119</b>          |       | RunNo: <b>6119</b>                                |             |                    |          |           |      |          |      |
| Prep Date:                    | Analysis Date: <b>10/9/2012</b> |       | SeqNo: <b>176304</b>                              |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL   | SPK value                                         | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 0.050 |                                                   |             |                    |          |           |      |          |      |
| Surr: BFB                     | 18                              |       | 20.00                                             |             | 91.8               | 69.8     | 119       |      |          |      |

| Sample ID <b>2.5UG GRO LCS</b> | SampType: <b>LCS</b>            |       | TestCode: <b>EPA Method 8015B: Gasoline Range</b> |             |                    |          |           |      |          |      |
|--------------------------------|---------------------------------|-------|---------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>         | Batch ID: <b>R6119</b>          |       | RunNo: <b>6119</b>                                |             |                    |          |           |      |          |      |
| Prep Date:                     | Analysis Date: <b>10/9/2012</b> |       | SeqNo: <b>176305</b>                              |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                        | Result                          | PQL   | SPK value                                         | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)  | 0.47                            | 0.050 | 0.5000                                            | 0           | 94.6               | 75.9     | 119       |      |          |      |
| Surr: BFB                      | 17                              |       | 20.00                                             |             | 86.3               | 69.8     | 119       |      |          |      |

| Sample ID <b>5ML RB</b>       | SampType: <b>MBLK</b>            |       | TestCode: <b>EPA Method 8015B: Gasoline Range</b> |             |                    |          |           |      |          |      |
|-------------------------------|----------------------------------|-------|---------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>         | Batch ID: <b>R6154</b>           |       | RunNo: <b>6154</b>                                |             |                    |          |           |      |          |      |
| Prep Date:                    | Analysis Date: <b>10/10/2012</b> |       | SeqNo: <b>177292</b>                              |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                       | Result                           | PQL   | SPK value                                         | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                               | 0.050 |                                                   |             |                    |          |           |      |          |      |
| Surr: BFB                     | 22                               |       | 20.00                                             |             | 110                | 69.8     | 119       |      |          |      |

| Sample ID <b>2.5UG GRO LCS</b> | SampType: <b>LCS</b>             |       | TestCode: <b>EPA Method 8015B: Gasoline Range</b> |             |                    |          |           |      |          |      |
|--------------------------------|----------------------------------|-------|---------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>         | Batch ID: <b>R6154</b>           |       | RunNo: <b>6154</b>                                |             |                    |          |           |      |          |      |
| Prep Date:                     | Analysis Date: <b>10/10/2012</b> |       | SeqNo: <b>177314</b>                              |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                        | Result                           | PQL   | SPK value                                         | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)  | 0.48                             | 0.050 | 0.5000                                            | 0           | 95.6               | 75.9     | 119       |      |          |      |
| Surr: BFB                      | 24                               |       | 20.00                                             |             | 118                | 69.8     | 119       |      |          |      |

| Sample ID <b>5ML RB</b>       | SampType: <b>MBLK</b>            |       | TestCode: <b>EPA Method 8015B: Gasoline Range</b> |             |                    |          |           |      |          |      |
|-------------------------------|----------------------------------|-------|---------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>         | Batch ID: <b>R6187</b>           |       | RunNo: <b>6187</b>                                |             |                    |          |           |      |          |      |
| Prep Date:                    | Analysis Date: <b>10/11/2012</b> |       | SeqNo: <b>178251</b>                              |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                       | Result                           | PQL   | SPK value                                         | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                               | 0.050 |                                                   |             |                    |          |           |      |          |      |
| Surr: BFB                     | 17                               |       | 20.00                                             |             | 86.5               | 69.8     | 119       |      |          |      |

| Sample ID <b>2.5UG GRO LCS</b> | SampType: <b>LCS</b>             |       | TestCode: <b>EPA Method 8015B: Gasoline Range</b> |             |                    |          |           |      |          |      |
|--------------------------------|----------------------------------|-------|---------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>         | Batch ID: <b>R6187</b>           |       | RunNo: <b>6187</b>                                |             |                    |          |           |      |          |      |
| Prep Date:                     | Analysis Date: <b>10/11/2012</b> |       | SeqNo: <b>178252</b>                              |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                        | Result                           | PQL   | SPK value                                         | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)  | 0.46                             | 0.050 | 0.5000                                            | 0           | 91.8               | 75.9     | 119       |      |          |      |
| Surr: BFB                      | 20                               |       | 20.00                                             |             | 97.8               | 69.8     | 119       |      |          |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210444

17-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                            |                 |                |           |             |                             |          |           |      |          |      |
|----------------------------|-----------------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                  | 1210443-001ADUP | SampType:      | DUP       | TestCode:   | EPA Method 8021B: Volatiles |          |           |      |          |      |
| Client ID:                 | BatchQC         | Batch ID:      | R6119     | RunNo:      | 6119                        |          |           |      |          |      |
| Prep Date:                 |                 | Analysis Date: | 10/9/2012 | SeqNo:      | 176376                      | Units:   | %REC      |      |          |      |
| Analyte                    | Result          | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 12              |                | 10.00     |             | 116                         | 66.1     | 135       | 0    | 0        |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210444

17-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5ML RB</b>    | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                    |           |      |          |      |
|----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>R6119</b>          |     |           | RunNo: <b>6119</b>                           |      |                    |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>10/9/2012</b> |     |           | SeqNo: <b>176372</b>                         |      | Units: <b>%REC</b> |           |      |          |      |
| Analyte                    | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 19                              |     | 20.00     |                                              | 94.6 | 69.7               | 152       |      |          |      |

| Sample ID <b>100NG BTEX LCS</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                    |           |      |          |      |
|---------------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>          | Batch ID: <b>R6119</b>          |     |           | RunNo: <b>6119</b>                           |      |                    |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>10/9/2012</b> |     |           | SeqNo: <b>176373</b>                         |      | Units: <b>%REC</b> |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene      | 18                              |     | 20.00     |                                              | 91.4 | 69.7               | 152       |      |          |      |

| Sample ID <b>1210467-006AMS</b> | SampType: <b>MS</b>             |     |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                    |           |      |          |      |
|---------------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R6119</b>          |     |           | RunNo: <b>6119</b>                           |      |                    |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>10/9/2012</b> |     |           | SeqNo: <b>176378</b>                         |      | Units: <b>%REC</b> |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene      | 220                             |     | 200.0     |                                              | 108  | 69.7               | 152       |      |          |      |

| Sample ID <b>1210467-006AMSD</b> | SampType: <b>MSD</b>            |     |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                    |           |      |          |      |
|----------------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R6119</b>          |     |           | RunNo: <b>6119</b>                           |      |                    |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>10/9/2012</b> |     |           | SeqNo: <b>176379</b>                         |      | Units: <b>%REC</b> |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene       | 230                             |     | 200.0     |                                              | 113  | 69.7               | 152       | 0    | 0        |      |

| Sample ID <b>5ML RB</b>    | SampType: <b>MBLK</b>            |     |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                    |           |      |          |      |
|----------------------------|----------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>R6154</b>           |     |           | RunNo: <b>6154</b>                           |      |                    |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>10/10/2012</b> |     |           | SeqNo: <b>177320</b>                         |      | Units: <b>%REC</b> |           |      |          |      |
| Analyte                    | Result                           | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 23                               |     | 20.00     |                                              | 113  | 69.7               | 152       |      |          |      |

| Sample ID <b>100NG BTEX LCS</b> | SampType: <b>LCS</b>             |     |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                    |           |      |          |      |
|---------------------------------|----------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>          | Batch ID: <b>R6154</b>           |     |           | RunNo: <b>6154</b>                           |      |                    |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>10/10/2012</b> |     |           | SeqNo: <b>177321</b>                         |      | Units: <b>%REC</b> |           |      |          |      |
| Analyte                         | Result                           | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene      | 20                               |     | 20.00     |                                              | 102  | 69.7               | 152       |      |          |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

## Sample Log-In Check List

Client Name: CYP Work Order Number: 1210444

Received by/date: *ASG* 10/08/12

Logged By: Ashley Gallegos 10/8/2012 9:00:00 AM *ASG*

Completed By: Ashley Gallegos 10/8/2012 2:53:44 PM *ASG*

Reviewed By: *ASG* 10/08/12

### Chain of Custody

- |                                  |                                         |    |                                                 |
|----------------------------------|-----------------------------------------|----|-------------------------------------------------|
| 1. Were seals intact?            | Yes                                     | No | Not Present <input checked="" type="checkbox"/> |
| 2. Is Chain of Custody complete? | Yes <input checked="" type="checkbox"/> | No | Not Present                                     |
| 3. How was the sample delivered? | <u>Client</u>                           |    |                                                 |

### Log In

- |                                                                                           |                                         |                                        |                                                  |
|-------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|--------------------------------------------------|
| 4. Coolers are present? (see 19. for cooler specific information)                         | Yes <input checked="" type="checkbox"/> | No                                     | NA                                               |
| 5. Was an attempt made to cool the samples?                                               | Yes <input checked="" type="checkbox"/> | No                                     | NA                                               |
| 6. Were all samples received at a temperature of >0° C to 6.0°C                           | Yes <input checked="" type="checkbox"/> | No                                     | NA                                               |
| 7. Sample(s) in proper container(s)?                                                      | Yes <input checked="" type="checkbox"/> | No                                     |                                                  |
| 8. Sufficient sample volume for indicated test(s)?                                        | Yes <input checked="" type="checkbox"/> | No                                     |                                                  |
| 9. Are samples (except VOA and ONG) properly preserved?                                   | Yes <input checked="" type="checkbox"/> | No                                     |                                                  |
| 10. Was preservative added to bottles?                                                    | Yes                                     | No <input checked="" type="checkbox"/> | NA                                               |
| 11. VOA vials have zero headspace?                                                        | Yes                                     | No                                     | No VOA Vials <input checked="" type="checkbox"/> |
| 12. Were any sample containers received broken?                                           | Yes                                     | No <input checked="" type="checkbox"/> |                                                  |
| 13. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)       | Yes <input checked="" type="checkbox"/> | No                                     | # of preserved bottles checked for pH:           |
| 14. Are matrices correctly identified on Chain of Custody?                                | Yes <input checked="" type="checkbox"/> | No                                     | (<2 or >12 unless noted)                         |
| 15. Is it clear what analyses were requested?                                             | Yes <input checked="" type="checkbox"/> | No                                     | Adjusted?                                        |
| 16. Were all holding times able to be met?<br>(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No                                     | Checked by:                                      |

### Special Handling (if applicable)

- |                                                               |     |    |                                        |
|---------------------------------------------------------------|-----|----|----------------------------------------|
| 17. Was client notified of all discrepancies with this order? | Yes | No | NA <input checked="" type="checkbox"/> |
|---------------------------------------------------------------|-----|----|----------------------------------------|

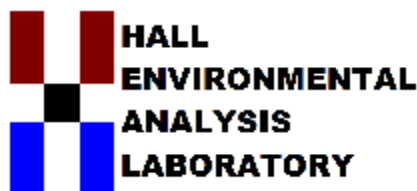
|                      |                      |       |                           |
|----------------------|----------------------|-------|---------------------------|
| Person Notified:     | <input type="text"/> | Date: | <input type="text"/>      |
| By Whom:             | <input type="text"/> | Via:  | eMail Phone Fax In Person |
| Regarding:           | <input type="text"/> |       |                           |
| Client Instructions: | <input type="text"/> |       |                           |

18. Additional remarks:

### 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         |         | Good      | Not Present |         |           |           |





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

November 05, 2012

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 Roswell

OrderNo.: 1210A37

Dear George Robinson:

Hall Environmental Analysis Laboratory received 55 sample(s) on 10/23/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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", with a stylized flourish at the end.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** SVE-24

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 5:15:00 PM

**Lab ID:** 1210A37-001

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB           |
| Gasoline Range Organics (GRO)           | 14.0   | 5.00     |      | µg/L  | 1  | 10/29/2012 11:36:43 AM |
| % GRO Hydrocarbons: C05-C6              | 4.30   | 0        |      | %     | 1  | 10/29/2012 11:36:43 AM |
| % GRO Hydrocarbons: C06-C7              | 20.3   | 0        |      | %     | 1  | 10/29/2012 11:36:43 AM |
| % GRO Hydrocarbons: C07-C8              | 34.3   | 0        |      | %     | 1  | 10/29/2012 11:36:43 AM |
| % GRO Hydrocarbons: C08-C9              | 15.5   | 0        |      | %     | 1  | 10/29/2012 11:36:43 AM |
| % GRO Hydrocarbons: C09-C10             | 15.7   | 0        |      | %     | 1  | 10/29/2012 11:36:43 AM |
| % GRO Hydrocarbons: C10-C11             | 6.50   | 0        |      | %     | 1  | 10/29/2012 11:36:43 AM |
| % GRO Hydrocarbons: C11-C12             | 1.80   | 0        |      | %     | 1  | 10/29/2012 11:36:43 AM |
| % GRO Hydrocarbons: C12-C14             | 1.40   | 0        |      | %     | 1  | 10/29/2012 11:36:43 AM |
| % GRO Hydrocarbons: C14+                | 0.200  | 0        |      | %     | 1  | 10/29/2012 11:36:43 AM |
| Surr: BFB                               | 98.2   | 43.1-185 |      | %REC  | 1  | 10/29/2012 11:36:43 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-11

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 5:25:00 PM

**Lab ID:** 1210A37-002

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB           |
| Gasoline Range Organics (GRO)           | 1020   | 50.0     |      | µg/L  | 10 | 10/30/2012 10:35:54 AM |
| % GRO Hydrocarbons: C05-C6              | 21.8   | 0        |      | %     | 10 | 10/30/2012 10:35:54 AM |
| % GRO Hydrocarbons: C06-C7              | 51.0   | 0        |      | %     | 10 | 10/30/2012 10:35:54 AM |
| % GRO Hydrocarbons: C07-C8              | 22.6   | 0        |      | %     | 10 | 10/30/2012 10:35:54 AM |
| % GRO Hydrocarbons: C08-C9              | 2.60   | 0        |      | %     | 10 | 10/30/2012 10:35:54 AM |
| % GRO Hydrocarbons: C09-C10             | 1.80   | 0        |      | %     | 10 | 10/30/2012 10:35:54 AM |
| % GRO Hydrocarbons: C10-C11             | 0.200  | 0        |      | %     | 10 | 10/30/2012 10:35:54 AM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 10 | 10/30/2012 10:35:54 AM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 10 | 10/30/2012 10:35:54 AM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 10 | 10/30/2012 10:35:54 AM |
| Surr: BFB                               | 99.5   | 43.1-185 |      | %REC  | 10 | 10/30/2012 10:35:54 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-10

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 5:30:00 PM

**Lab ID:** 1210A37-003

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 9660   | 125      |      | µg/L  | 25 | 10/29/2012 2:28:40 PM |
| % GRO Hydrocarbons: C05-C6              | 10.4   | 0        |      | %     | 25 | 10/29/2012 2:28:40 PM |
| % GRO Hydrocarbons: C06-C7              | 43.0   | 0        |      | %     | 25 | 10/29/2012 2:28:40 PM |
| % GRO Hydrocarbons: C07-C8              | 39.3   | 0        |      | %     | 25 | 10/29/2012 2:28:40 PM |
| % GRO Hydrocarbons: C08-C9              | 5.00   | 0        |      | %     | 25 | 10/29/2012 2:28:40 PM |
| % GRO Hydrocarbons: C09-C10             | 2.10   | 0        |      | %     | 25 | 10/29/2012 2:28:40 PM |
| % GRO Hydrocarbons: C10-C11             | 0.200  | 0        |      | %     | 25 | 10/29/2012 2:28:40 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 25 | 10/29/2012 2:28:40 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 25 | 10/29/2012 2:28:40 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 25 | 10/29/2012 2:28:40 PM |
| Surr: BFB                               | 119    | 43.1-185 |      | %REC  | 25 | 10/29/2012 2:28:40 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-9

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 5:35:00 PM

**Lab ID:** 1210A37-004

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 861    | 50.0     |      | µg/L  | 10 | 10/29/2012 2:55:09 PM |
| % GRO Hydrocarbons: C05-C6              | 9.60   | 0        |      | %     | 10 | 10/29/2012 2:55:09 PM |
| % GRO Hydrocarbons: C06-C7              | 32.0   | 0        |      | %     | 10 | 10/29/2012 2:55:09 PM |
| % GRO Hydrocarbons: C07-C8              | 34.8   | 0        |      | %     | 10 | 10/29/2012 2:55:09 PM |
| % GRO Hydrocarbons: C08-C9              | 12.6   | 0        |      | %     | 10 | 10/29/2012 2:55:09 PM |
| % GRO Hydrocarbons: C09-C10             | 8.70   | 0        |      | %     | 10 | 10/29/2012 2:55:09 PM |
| % GRO Hydrocarbons: C10-C11             | 1.90   | 0        |      | %     | 10 | 10/29/2012 2:55:09 PM |
| % GRO Hydrocarbons: C11-C12             | 0.300  | 0        |      | %     | 10 | 10/29/2012 2:55:09 PM |
| % GRO Hydrocarbons: C12-C14             | 0.100  | 0        |      | %     | 10 | 10/29/2012 2:55:09 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 10 | 10/29/2012 2:55:09 PM |
| Surr: BFB                               | 121    | 43.1-185 |      | %REC  | 10 | 10/29/2012 2:55:09 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-8

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 5:40:00 PM

**Lab ID:** 1210A37-005

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 34.9   | 5.00     |      | µg/L  | 1  | 10/29/2012 3:21:37 PM |
| % GRO Hydrocarbons: C05-C6              | 2.40   | 0        |      | %     | 1  | 10/29/2012 3:21:37 PM |
| % GRO Hydrocarbons: C06-C7              | 18.9   | 0        |      | %     | 1  | 10/29/2012 3:21:37 PM |
| % GRO Hydrocarbons: C07-C8              | 42.2   | 0        |      | %     | 1  | 10/29/2012 3:21:37 PM |
| % GRO Hydrocarbons: C08-C9              | 16.8   | 0        |      | %     | 1  | 10/29/2012 3:21:37 PM |
| % GRO Hydrocarbons: C09-C10             | 14.3   | 0        |      | %     | 1  | 10/29/2012 3:21:37 PM |
| % GRO Hydrocarbons: C10-C11             | 4.30   | 0        |      | %     | 1  | 10/29/2012 3:21:37 PM |
| % GRO Hydrocarbons: C11-C12             | 0.800  | 0        |      | %     | 1  | 10/29/2012 3:21:37 PM |
| % GRO Hydrocarbons: C12-C14             | 0.300  | 0        |      | %     | 1  | 10/29/2012 3:21:37 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/29/2012 3:21:37 PM |
| Surr: BFB                               | 98.4   | 43.1-185 |      | %REC  | 1  | 10/29/2012 3:21:37 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-7

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 5:45:00 PM

**Lab ID:** 1210A37-006

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 27.8   | 10.0     |      | µg/L  | 2  | 10/29/2012 3:48:23 PM |
| % GRO Hydrocarbons: C05-C6              | 2.90   | 0        |      | %     | 2  | 10/29/2012 3:48:23 PM |
| % GRO Hydrocarbons: C06-C7              | 18.7   | 0        |      | %     | 2  | 10/29/2012 3:48:23 PM |
| % GRO Hydrocarbons: C07-C8              | 40.6   | 0        |      | %     | 2  | 10/29/2012 3:48:23 PM |
| % GRO Hydrocarbons: C08-C9              | 13.8   | 0        |      | %     | 2  | 10/29/2012 3:48:23 PM |
| % GRO Hydrocarbons: C09-C10             | 18.2   | 0        |      | %     | 2  | 10/29/2012 3:48:23 PM |
| % GRO Hydrocarbons: C10-C11             | 3.80   | 0        |      | %     | 2  | 10/29/2012 3:48:23 PM |
| % GRO Hydrocarbons: C11-C12             | 1.50   | 0        |      | %     | 2  | 10/29/2012 3:48:23 PM |
| % GRO Hydrocarbons: C12-C14             | 0.500  | 0        |      | %     | 2  | 10/29/2012 3:48:23 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 2  | 10/29/2012 3:48:23 PM |
| Surr: BFB                               | 99.3   | 43.1-185 |      | %REC  | 2  | 10/29/2012 3:48:23 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-6

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 5:47:00 PM

**Lab ID:** 1210A37-007

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB           |
| Gasoline Range Organics (GRO)           | 14.9   | 5.00     |      | µg/L  | 1  | 10/30/2012 11:31:36 AM |
| % GRO Hydrocarbons: C05-C6              | 3.00   | 0        |      | %     | 1  | 10/30/2012 11:31:36 AM |
| % GRO Hydrocarbons: C06-C7              | 20.0   | 0        |      | %     | 1  | 10/30/2012 11:31:36 AM |
| % GRO Hydrocarbons: C07-C8              | 41.5   | 0        |      | %     | 1  | 10/30/2012 11:31:36 AM |
| % GRO Hydrocarbons: C08-C9              | 15.1   | 0        |      | %     | 1  | 10/30/2012 11:31:36 AM |
| % GRO Hydrocarbons: C09-C10             | 14.2   | 0        |      | %     | 1  | 10/30/2012 11:31:36 AM |
| % GRO Hydrocarbons: C10-C11             | 4.50   | 0        |      | %     | 1  | 10/30/2012 11:31:36 AM |
| % GRO Hydrocarbons: C11-C12             | 1.00   | 0        |      | %     | 1  | 10/30/2012 11:31:36 AM |
| % GRO Hydrocarbons: C12-C14             | 0.600  | 0        |      | %     | 1  | 10/30/2012 11:31:36 AM |
| % GRO Hydrocarbons: C14+                | 0.100  | 0        |      | %     | 1  | 10/30/2012 11:31:36 AM |
| Surr: BFB                               | 103    | 43.1-185 |      | %REC  | 1  | 10/30/2012 11:31:36 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-5

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 5:50:00 PM

**Lab ID:** 1210A37-008

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 18.5   | 5.00     |      | µg/L  | 1  | 10/29/2012 4:41:19 PM |
| % GRO Hydrocarbons: C05-C6              | 3.40   | 0        |      | %     | 1  | 10/29/2012 4:41:19 PM |
| % GRO Hydrocarbons: C06-C7              | 22.0   | 0        |      | %     | 1  | 10/29/2012 4:41:19 PM |
| % GRO Hydrocarbons: C07-C8              | 42.0   | 0        |      | %     | 1  | 10/29/2012 4:41:19 PM |
| % GRO Hydrocarbons: C08-C9              | 15.7   | 0        |      | %     | 1  | 10/29/2012 4:41:19 PM |
| % GRO Hydrocarbons: C09-C10             | 10.7   | 0        |      | %     | 1  | 10/29/2012 4:41:19 PM |
| % GRO Hydrocarbons: C10-C11             | 4.00   | 0        |      | %     | 1  | 10/29/2012 4:41:19 PM |
| % GRO Hydrocarbons: C11-C12             | 1.70   | 0        |      | %     | 1  | 10/29/2012 4:41:19 PM |
| % GRO Hydrocarbons: C12-C14             | 0.400  | 0        |      | %     | 1  | 10/29/2012 4:41:19 PM |
| % GRO Hydrocarbons: C14+                | 0.100  | 0        |      | %     | 1  | 10/29/2012 4:41:19 PM |
| Surr: BFB                               | 91.5   | 43.1-185 |      | %REC  | 1  | 10/29/2012 4:41:19 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-4

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 5:55:00 PM

**Lab ID:** 1210A37-009

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB           |
| Gasoline Range Organics (GRO)           | 16.7   | 5.00     |      | µg/L  | 1  | 10/30/2012 12:36:18 PM |
| % GRO Hydrocarbons: C05-C6              | 2.60   | 0        |      | %     | 1  | 10/30/2012 12:36:18 PM |
| % GRO Hydrocarbons: C06-C7              | 17.9   | 0        |      | %     | 1  | 10/30/2012 12:36:18 PM |
| % GRO Hydrocarbons: C07-C8              | 35.3   | 0        |      | %     | 1  | 10/30/2012 12:36:18 PM |
| % GRO Hydrocarbons: C08-C9              | 14.1   | 0        |      | %     | 1  | 10/30/2012 12:36:18 PM |
| % GRO Hydrocarbons: C09-C10             | 18.6   | 0        |      | %     | 1  | 10/30/2012 12:36:18 PM |
| % GRO Hydrocarbons: C10-C11             | 6.00   | 0        |      | %     | 1  | 10/30/2012 12:36:18 PM |
| % GRO Hydrocarbons: C11-C12             | 3.60   | 0        |      | %     | 1  | 10/30/2012 12:36:18 PM |
| % GRO Hydrocarbons: C12-C14             | 1.90   | 0        |      | %     | 1  | 10/30/2012 12:36:18 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 12:36:18 PM |
| Surr: BFB                               | 90.9   | 43.1-185 |      | %REC  | 1  | 10/30/2012 12:36:18 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-3

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 6:05:00 PM

**Lab ID:** 1210A37-010

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 15.0   | 5.00     |      | µg/L  | 1  | 10/30/2012 1:04:06 PM |
| % GRO Hydrocarbons: C05-C6              | 3.20   | 0        |      | %     | 1  | 10/30/2012 1:04:06 PM |
| % GRO Hydrocarbons: C06-C7              | 21.2   | 0        |      | %     | 1  | 10/30/2012 1:04:06 PM |
| % GRO Hydrocarbons: C07-C8              | 38.9   | 0        |      | %     | 1  | 10/30/2012 1:04:06 PM |
| % GRO Hydrocarbons: C08-C9              | 14.9   | 0        |      | %     | 1  | 10/30/2012 1:04:06 PM |
| % GRO Hydrocarbons: C09-C10             | 13.7   | 0        |      | %     | 1  | 10/30/2012 1:04:06 PM |
| % GRO Hydrocarbons: C10-C11             | 4.60   | 0        |      | %     | 1  | 10/30/2012 1:04:06 PM |
| % GRO Hydrocarbons: C11-C12             | 2.60   | 0        |      | %     | 1  | 10/30/2012 1:04:06 PM |
| % GRO Hydrocarbons: C12-C14             | 0.900  | 0        |      | %     | 1  | 10/30/2012 1:04:06 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 1:04:06 PM |
| Surr: BFB                               | 101    | 43.1-185 |      | %REC  | 1  | 10/30/2012 1:04:06 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-2

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 6:10:00 PM

**Lab ID:** 1210A37-011

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 35.5   | 5.00     |      | µg/L  | 1  | 10/29/2012 2:03:51 PM |
| % GRO Hydrocarbons: C05-C6              | 1.20   | 0        |      | %     | 1  | 10/29/2012 2:03:51 PM |
| % GRO Hydrocarbons: C06-C7              | 14.2   | 0        |      | %     | 1  | 10/29/2012 2:03:51 PM |
| % GRO Hydrocarbons: C07-C8              | 27.7   | 0        |      | %     | 1  | 10/29/2012 2:03:51 PM |
| % GRO Hydrocarbons: C08-C9              | 20.7   | 0        |      | %     | 1  | 10/29/2012 2:03:51 PM |
| % GRO Hydrocarbons: C09-C10             | 20.8   | 0        |      | %     | 1  | 10/29/2012 2:03:51 PM |
| % GRO Hydrocarbons: C10-C11             | 10.0   | 0        |      | %     | 1  | 10/29/2012 2:03:51 PM |
| % GRO Hydrocarbons: C11-C12             | 4.20   | 0        |      | %     | 1  | 10/29/2012 2:03:51 PM |
| % GRO Hydrocarbons: C12-C14             | 1.20   | 0        |      | %     | 1  | 10/29/2012 2:03:51 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/29/2012 2:03:51 PM |
| Surr: BFB                               | 133    | 43.1-185 |      | %REC  | 1  | 10/29/2012 2:03:51 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-1

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 6:15:00 PM

**Lab ID:** 1210A37-012

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 13.4   | 5.00     |      | µg/L  | 1  | 10/29/2012 2:31:12 PM |
| % GRO Hydrocarbons: C05-C6              | 1.70   | 0        |      | %     | 1  | 10/29/2012 2:31:12 PM |
| % GRO Hydrocarbons: C06-C7              | 15.4   | 0        |      | %     | 1  | 10/29/2012 2:31:12 PM |
| % GRO Hydrocarbons: C07-C8              | 33.6   | 0        |      | %     | 1  | 10/29/2012 2:31:12 PM |
| % GRO Hydrocarbons: C08-C9              | 16.2   | 0        |      | %     | 1  | 10/29/2012 2:31:12 PM |
| % GRO Hydrocarbons: C09-C10             | 24.4   | 0        |      | %     | 1  | 10/29/2012 2:31:12 PM |
| % GRO Hydrocarbons: C10-C11             | 5.80   | 0        |      | %     | 1  | 10/29/2012 2:31:12 PM |
| % GRO Hydrocarbons: C11-C12             | 1.70   | 0        |      | %     | 1  | 10/29/2012 2:31:12 PM |
| % GRO Hydrocarbons: C12-C14             | 1.20   | 0        |      | %     | 1  | 10/29/2012 2:31:12 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/29/2012 2:31:12 PM |
| Surr: BFB                               | 114    | 43.1-185 |      | %REC  | 1  | 10/29/2012 2:31:12 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-29

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 1:50:00 PM

**Lab ID:** 1210A37-013

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 5.88   | 5.00     |      | µg/L  | 1  | 10/29/2012 2:58:27 PM |
| % GRO Hydrocarbons: C05-C6              | 0.700  | 0        |      | %     | 1  | 10/29/2012 2:58:27 PM |
| % GRO Hydrocarbons: C06-C7              | 2.40   | 0        |      | %     | 1  | 10/29/2012 2:58:27 PM |
| % GRO Hydrocarbons: C07-C8              | 17.4   | 0        |      | %     | 1  | 10/29/2012 2:58:27 PM |
| % GRO Hydrocarbons: C08-C9              | 6.10   | 0        |      | %     | 1  | 10/29/2012 2:58:27 PM |
| % GRO Hydrocarbons: C09-C10             | 26.8   | 0        |      | %     | 1  | 10/29/2012 2:58:27 PM |
| % GRO Hydrocarbons: C10-C11             | 29.1   | 0        |      | %     | 1  | 10/29/2012 2:58:27 PM |
| % GRO Hydrocarbons: C11-C12             | 12.6   | 0        |      | %     | 1  | 10/29/2012 2:58:27 PM |
| % GRO Hydrocarbons: C12-C14             | 4.90   | 0        |      | %     | 1  | 10/29/2012 2:58:27 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/29/2012 2:58:27 PM |
| Surr: BFB                               | 110    | 43.1-185 |      | %REC  | 1  | 10/29/2012 2:58:27 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-28

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 2:45:00 PM

**Lab ID:** 1210A37-014

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 313    | 5.00     |      | µg/L  | 1  | 10/29/2012 3:25:52 PM |
| % GRO Hydrocarbons: C05-C6              | 12.3   | 0        |      | %     | 1  | 10/29/2012 3:25:52 PM |
| % GRO Hydrocarbons: C06-C7              | 44.7   | 0        |      | %     | 1  | 10/29/2012 3:25:52 PM |
| % GRO Hydrocarbons: C07-C8              | 29.0   | 0        |      | %     | 1  | 10/29/2012 3:25:52 PM |
| % GRO Hydrocarbons: C08-C9              | 10.4   | 0        |      | %     | 1  | 10/29/2012 3:25:52 PM |
| % GRO Hydrocarbons: C09-C10             | 2.60   | 0        |      | %     | 1  | 10/29/2012 3:25:52 PM |
| % GRO Hydrocarbons: C10-C11             | 0.700  | 0        |      | %     | 1  | 10/29/2012 3:25:52 PM |
| % GRO Hydrocarbons: C11-C12             | 0.200  | 0        |      | %     | 1  | 10/29/2012 3:25:52 PM |
| % GRO Hydrocarbons: C12-C14             | 0.100  | 0        |      | %     | 1  | 10/29/2012 3:25:52 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/29/2012 3:25:52 PM |
| Surr: BFB                               | 118    | 43.1-185 |      | %REC  | 1  | 10/29/2012 3:25:52 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-27

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 2:50:00 PM

**Lab ID:** 1210A37-015

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 6170   | 250      |      | µg/L  | 50 | 10/29/2012 3:53:15 PM |
| % GRO Hydrocarbons: C05-C6              | 21.9   | 0        |      | %     | 50 | 10/29/2012 3:53:15 PM |
| % GRO Hydrocarbons: C06-C7              | 54.1   | 0        |      | %     | 50 | 10/29/2012 3:53:15 PM |
| % GRO Hydrocarbons: C07-C8              | 17.9   | 0        |      | %     | 50 | 10/29/2012 3:53:15 PM |
| % GRO Hydrocarbons: C08-C9              | 3.90   | 0        |      | %     | 50 | 10/29/2012 3:53:15 PM |
| % GRO Hydrocarbons: C09-C10             | 2.10   | 0        |      | %     | 50 | 10/29/2012 3:53:15 PM |
| % GRO Hydrocarbons: C10-C11             | 0.100  | 0        |      | %     | 50 | 10/29/2012 3:53:15 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 50 | 10/29/2012 3:53:15 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 50 | 10/29/2012 3:53:15 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/29/2012 3:53:15 PM |
| Surr: BFB                               | 105    | 43.1-185 |      | %REC  | 50 | 10/29/2012 3:53:15 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-26

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 2:55:00 PM

**Lab ID:** 1210A37-016

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 9430   | 250      |      | µg/L  | 50 | 10/29/2012 4:20:32 PM |
| % GRO Hydrocarbons: C05-C6              | 22.0   | 0        |      | %     | 50 | 10/29/2012 4:20:32 PM |
| % GRO Hydrocarbons: C06-C7              | 50.3   | 0        |      | %     | 50 | 10/29/2012 4:20:32 PM |
| % GRO Hydrocarbons: C07-C8              | 20.3   | 0        |      | %     | 50 | 10/29/2012 4:20:32 PM |
| % GRO Hydrocarbons: C08-C9              | 4.90   | 0        |      | %     | 50 | 10/29/2012 4:20:32 PM |
| % GRO Hydrocarbons: C09-C10             | 2.00   | 0        |      | %     | 50 | 10/29/2012 4:20:32 PM |
| % GRO Hydrocarbons: C10-C11             | 0.400  | 0        |      | %     | 50 | 10/29/2012 4:20:32 PM |
| % GRO Hydrocarbons: C11-C12             | 0.100  | 0        |      | %     | 50 | 10/29/2012 4:20:32 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 50 | 10/29/2012 4:20:32 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/29/2012 4:20:32 PM |
| Surr: BFB                               | 129    | 43.1-185 |      | %REC  | 50 | 10/29/2012 4:20:32 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-25

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:05:00 PM

**Lab ID:** 1210A37-017

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 664    | 250      |      | µg/L  | 50 | 10/29/2012 4:47:59 PM |
| % GRO Hydrocarbons: C05-C6              | 16.2   | 0        |      | %     | 50 | 10/29/2012 4:47:59 PM |
| % GRO Hydrocarbons: C06-C7              | 36.5   | 0        |      | %     | 50 | 10/29/2012 4:47:59 PM |
| % GRO Hydrocarbons: C07-C8              | 27.6   | 0        |      | %     | 50 | 10/29/2012 4:47:59 PM |
| % GRO Hydrocarbons: C08-C9              | 6.60   | 0        |      | %     | 50 | 10/29/2012 4:47:59 PM |
| % GRO Hydrocarbons: C09-C10             | 13.0   | 0        |      | %     | 50 | 10/29/2012 4:47:59 PM |
| % GRO Hydrocarbons: C10-C11             | 0.100  | 0        |      | %     | 50 | 10/29/2012 4:47:59 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 50 | 10/29/2012 4:47:59 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 50 | 10/29/2012 4:47:59 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/29/2012 4:47:59 PM |
| Surr: BFB                               | 113    | 43.1-185 |      | %REC  | 50 | 10/29/2012 4:47:59 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-24

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:10:00 PM

**Lab ID:** 1210A37-018

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 70300  | 500      |      | µg/L  | 100 | 10/29/2012 5:15:31 PM |
| % GRO Hydrocarbons: C05-C6              | 16.4   | 0        |      | %     | 100 | 10/29/2012 5:15:31 PM |
| % GRO Hydrocarbons: C06-C7              | 49.4   | 0        |      | %     | 100 | 10/29/2012 5:15:31 PM |
| % GRO Hydrocarbons: C07-C8              | 25.4   | 0        |      | %     | 100 | 10/29/2012 5:15:31 PM |
| % GRO Hydrocarbons: C08-C9              | 7.30   | 0        |      | %     | 100 | 10/29/2012 5:15:31 PM |
| % GRO Hydrocarbons: C09-C10             | 1.30   | 0        |      | %     | 100 | 10/29/2012 5:15:31 PM |
| % GRO Hydrocarbons: C10-C11             | 0.200  | 0        |      | %     | 100 | 10/29/2012 5:15:31 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 100 | 10/29/2012 5:15:31 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 100 | 10/29/2012 5:15:31 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 100 | 10/29/2012 5:15:31 PM |
| Surr: BFB                               | 146    | 43.1-185 |      | %REC  | 100 | 10/29/2012 5:15:31 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-23

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:15:00 PM

**Lab ID:** 1210A37-019

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 7000   | 250      |      | µg/L  | 50 | 10/30/2012 1:32:01 PM |
| % GRO Hydrocarbons: C05-C6              | 24.5   | 0        |      | %     | 50 | 10/30/2012 1:32:01 PM |
| % GRO Hydrocarbons: C06-C7              | 47.9   | 0        |      | %     | 50 | 10/30/2012 1:32:01 PM |
| % GRO Hydrocarbons: C07-C8              | 22.6   | 0        |      | %     | 50 | 10/30/2012 1:32:01 PM |
| % GRO Hydrocarbons: C08-C9              | 3.10   | 0        |      | %     | 50 | 10/30/2012 1:32:01 PM |
| % GRO Hydrocarbons: C09-C10             | 1.60   | 0        |      | %     | 50 | 10/30/2012 1:32:01 PM |
| % GRO Hydrocarbons: C10-C11             | 0.300  | 0        |      | %     | 50 | 10/30/2012 1:32:01 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 50 | 10/30/2012 1:32:01 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 50 | 10/30/2012 1:32:01 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/30/2012 1:32:01 PM |
| Surr: BFB                               | 95.5   | 43.1-185 |      | %REC  | 50 | 10/30/2012 1:32:01 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-22

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:20:00 PM

**Lab ID:** 1210A37-020

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 5790   | 250      |      | µg/L  | 50 | 10/30/2012 1:59:41 PM |
| % GRO Hydrocarbons: C05-C6              | 29.4   | 0        |      | %     | 50 | 10/30/2012 1:59:41 PM |
| % GRO Hydrocarbons: C06-C7              | 39.8   | 0        |      | %     | 50 | 10/30/2012 1:59:41 PM |
| % GRO Hydrocarbons: C07-C8              | 23.7   | 0        |      | %     | 50 | 10/30/2012 1:59:41 PM |
| % GRO Hydrocarbons: C08-C9              | 4.40   | 0        |      | %     | 50 | 10/30/2012 1:59:41 PM |
| % GRO Hydrocarbons: C09-C10             | 2.00   | 0        |      | %     | 50 | 10/30/2012 1:59:41 PM |
| % GRO Hydrocarbons: C10-C11             | 0.500  | 0        |      | %     | 50 | 10/30/2012 1:59:41 PM |
| % GRO Hydrocarbons: C11-C12             | 0.200  | 0        |      | %     | 50 | 10/30/2012 1:59:41 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 50 | 10/30/2012 1:59:41 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/30/2012 1:59:41 PM |
| Surr: BFB                               | 87.2   | 43.1-185 |      | %REC  | 50 | 10/30/2012 1:59:41 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-30

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:25:00 PM

**Lab ID:** 1210A37-021

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 2120   | 250      |      | µg/L  | 50 | 10/30/2012 2:27:06 PM |
| % GRO Hydrocarbons: C05-C6              | 4.80   | 0        |      | %     | 50 | 10/30/2012 2:27:06 PM |
| % GRO Hydrocarbons: C06-C7              | 16.8   | 0        |      | %     | 50 | 10/30/2012 2:27:06 PM |
| % GRO Hydrocarbons: C07-C8              | 28.9   | 0        |      | %     | 50 | 10/30/2012 2:27:06 PM |
| % GRO Hydrocarbons: C08-C9              | 24.2   | 0        |      | %     | 50 | 10/30/2012 2:27:06 PM |
| % GRO Hydrocarbons: C09-C10             | 16.5   | 0        |      | %     | 50 | 10/30/2012 2:27:06 PM |
| % GRO Hydrocarbons: C10-C11             | 5.90   | 0        |      | %     | 50 | 10/30/2012 2:27:06 PM |
| % GRO Hydrocarbons: C11-C12             | 2.30   | 0        |      | %     | 50 | 10/30/2012 2:27:06 PM |
| % GRO Hydrocarbons: C12-C14             | 0.600  | 0        |      | %     | 50 | 10/30/2012 2:27:06 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/30/2012 2:27:06 PM |
| Surr: BFB                               | 138    | 43.1-185 |      | %REC  | 50 | 10/30/2012 2:27:06 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-31

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:30:00 PM

**Lab ID:** 1210A37-022

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|-----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB           |
| Gasoline Range Organics (GRO)           | 119000 | 2500     |      | µg/L  | 500 | 10/31/2012 12:21:22 PM |
| % GRO Hydrocarbons: C05-C6              | 18.6   | 0        |      | %     | 500 | 10/31/2012 12:21:22 PM |
| % GRO Hydrocarbons: C06-C7              | 51.9   | 0        |      | %     | 500 | 10/31/2012 12:21:22 PM |
| % GRO Hydrocarbons: C07-C8              | 21.8   | 0        |      | %     | 500 | 10/31/2012 12:21:22 PM |
| % GRO Hydrocarbons: C08-C9              | 5.90   | 0        |      | %     | 500 | 10/31/2012 12:21:22 PM |
| % GRO Hydrocarbons: C09-C10             | 1.60   | 0        |      | %     | 500 | 10/31/2012 12:21:22 PM |
| % GRO Hydrocarbons: C10-C11             | 0.200  | 0        |      | %     | 500 | 10/31/2012 12:21:22 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 500 | 10/31/2012 12:21:22 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 500 | 10/31/2012 12:21:22 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 500 | 10/31/2012 12:21:22 PM |
| Surr: BFB                               | 117    | 43.1-185 |      | %REC  | 500 | 10/31/2012 12:21:22 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-32

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:33:00 PM

**Lab ID:** 1210A37-023

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 18200  | 500      |      | µg/L  | 100 | 10/30/2012 3:22:37 PM |
| % GRO Hydrocarbons: C05-C6              | 19.2   | 0        |      | %     | 100 | 10/30/2012 3:22:37 PM |
| % GRO Hydrocarbons: C06-C7              | 49.2   | 0        |      | %     | 100 | 10/30/2012 3:22:37 PM |
| % GRO Hydrocarbons: C07-C8              | 26.4   | 0        |      | %     | 100 | 10/30/2012 3:22:37 PM |
| % GRO Hydrocarbons: C08-C9              | 3.20   | 0        |      | %     | 100 | 10/30/2012 3:22:37 PM |
| % GRO Hydrocarbons: C09-C10             | 1.70   | 0        |      | %     | 100 | 10/30/2012 3:22:37 PM |
| % GRO Hydrocarbons: C10-C11             | 0.200  | 0        |      | %     | 100 | 10/30/2012 3:22:37 PM |
| % GRO Hydrocarbons: C11-C12             | 0.100  | 0        |      | %     | 100 | 10/30/2012 3:22:37 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 100 | 10/30/2012 3:22:37 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 100 | 10/30/2012 3:22:37 PM |
| Surr: BFB                               | 96.8   | 43.1-185 |      | %REC  | 100 | 10/30/2012 3:22:37 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-33

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:36:00 PM

**Lab ID:** 1210A37-024

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 1470   | 50.0     |      | µg/L  | 10 | 10/30/2012 3:50:04 PM |
| % GRO Hydrocarbons: C05-C6              | 13.4   | 0        |      | %     | 10 | 10/30/2012 3:50:04 PM |
| % GRO Hydrocarbons: C06-C7              | 46.1   | 0        |      | %     | 10 | 10/30/2012 3:50:04 PM |
| % GRO Hydrocarbons: C07-C8              | 34.0   | 0        |      | %     | 10 | 10/30/2012 3:50:04 PM |
| % GRO Hydrocarbons: C08-C9              | 3.70   | 0        |      | %     | 10 | 10/30/2012 3:50:04 PM |
| % GRO Hydrocarbons: C09-C10             | 2.40   | 0        |      | %     | 10 | 10/30/2012 3:50:04 PM |
| % GRO Hydrocarbons: C10-C11             | 0.300  | 0        |      | %     | 10 | 10/30/2012 3:50:04 PM |
| % GRO Hydrocarbons: C11-C12             | 0.100  | 0        |      | %     | 10 | 10/30/2012 3:50:04 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 10 | 10/30/2012 3:50:04 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 10 | 10/30/2012 3:50:04 PM |
| Surr: BFB                               | 97.4   | 43.1-185 |      | %REC  | 10 | 10/30/2012 3:50:04 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-34

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:40:00 PM

**Lab ID:** 1210A37-025

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB           |
| Gasoline Range Organics (GRO)           | 395    | 25.0     |      | µg/L  | 5  | 10/31/2012 11:56:06 AM |
| % GRO Hydrocarbons: C05-C6              | 8.20   | 0        |      | %     | 5  | 10/31/2012 11:56:06 AM |
| % GRO Hydrocarbons: C06-C7              | 34.2   | 0        |      | %     | 5  | 10/31/2012 11:56:06 AM |
| % GRO Hydrocarbons: C07-C8              | 37.8   | 0        |      | %     | 5  | 10/31/2012 11:56:06 AM |
| % GRO Hydrocarbons: C08-C9              | 8.80   | 0        |      | %     | 5  | 10/31/2012 11:56:06 AM |
| % GRO Hydrocarbons: C09-C10             | 8.30   | 0        |      | %     | 5  | 10/31/2012 11:56:06 AM |
| % GRO Hydrocarbons: C10-C11             | 2.00   | 0        |      | %     | 5  | 10/31/2012 11:56:06 AM |
| % GRO Hydrocarbons: C11-C12             | 0.500  | 0        |      | %     | 5  | 10/31/2012 11:56:06 AM |
| % GRO Hydrocarbons: C12-C14             | 0.200  | 0        |      | %     | 5  | 10/31/2012 11:56:06 AM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 5  | 10/31/2012 11:56:06 AM |
| Surr: BFB                               | 117    | 43.1-185 |      | %REC  | 5  | 10/31/2012 11:56:06 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-35

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:45:00 PM

**Lab ID:** 1210A37-026

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 308    | 5.00     |      | µg/L  | 1  | 10/30/2012 4:44:55 PM |
| % GRO Hydrocarbons: C05-C6              | 20.3   | 0        |      | %     | 1  | 10/30/2012 4:44:55 PM |
| % GRO Hydrocarbons: C06-C7              | 43.6   | 0        |      | %     | 1  | 10/30/2012 4:44:55 PM |
| % GRO Hydrocarbons: C07-C8              | 26.2   | 0        |      | %     | 1  | 10/30/2012 4:44:55 PM |
| % GRO Hydrocarbons: C08-C9              | 5.60   | 0        |      | %     | 1  | 10/30/2012 4:44:55 PM |
| % GRO Hydrocarbons: C09-C10             | 2.60   | 0        |      | %     | 1  | 10/30/2012 4:44:55 PM |
| % GRO Hydrocarbons: C10-C11             | 1.30   | 0        |      | %     | 1  | 10/30/2012 4:44:55 PM |
| % GRO Hydrocarbons: C11-C12             | 0.300  | 0        |      | %     | 1  | 10/30/2012 4:44:55 PM |
| % GRO Hydrocarbons: C12-C14             | 0.100  | 0        |      | %     | 1  | 10/30/2012 4:44:55 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 4:44:55 PM |
| Surr: BFB                               | 146    | 43.1-185 |      | %REC  | 1  | 10/30/2012 4:44:55 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-36

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:47:00 PM

**Lab ID:** 1210A37-027

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB           |
| Gasoline Range Organics (GRO)           | 159    | 5.00     |      | µg/L  | 1  | 10/30/2012 10:53:48 AM |
| % GRO Hydrocarbons: C05-C6              | 13.5   | 0        |      | %     | 1  | 10/30/2012 10:53:48 AM |
| % GRO Hydrocarbons: C06-C7              | 39.5   | 0        |      | %     | 1  | 10/30/2012 10:53:48 AM |
| % GRO Hydrocarbons: C07-C8              | 28.8   | 0        |      | %     | 1  | 10/30/2012 10:53:48 AM |
| % GRO Hydrocarbons: C08-C9              | 9.60   | 0        |      | %     | 1  | 10/30/2012 10:53:48 AM |
| % GRO Hydrocarbons: C09-C10             | 5.70   | 0        |      | %     | 1  | 10/30/2012 10:53:48 AM |
| % GRO Hydrocarbons: C10-C11             | 1.90   | 0        |      | %     | 1  | 10/30/2012 10:53:48 AM |
| % GRO Hydrocarbons: C11-C12             | 0.700  | 0        |      | %     | 1  | 10/30/2012 10:53:48 AM |
| % GRO Hydrocarbons: C12-C14             | 0.300  | 0        |      | %     | 1  | 10/30/2012 10:53:48 AM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 10:53:48 AM |
| Surr: BFB                               | 140    | 43.1-185 |      | %REC  | 1  | 10/30/2012 10:53:48 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-37

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:50:00 PM

**Lab ID:** 1210A37-028

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB           |
| Gasoline Range Organics (GRO)           | 266    | 25.0     |      | µg/L  | 5  | 10/31/2012 10:59:27 AM |
| % GRO Hydrocarbons: C05-C6              | 1.30   | 0        |      | %     | 5  | 10/31/2012 10:59:27 AM |
| % GRO Hydrocarbons: C06-C7              | 10.6   | 0        |      | %     | 5  | 10/31/2012 10:59:27 AM |
| % GRO Hydrocarbons: C07-C8              | 23.6   | 0        |      | %     | 5  | 10/31/2012 10:59:27 AM |
| % GRO Hydrocarbons: C08-C9              | 27.2   | 0        |      | %     | 5  | 10/31/2012 10:59:27 AM |
| % GRO Hydrocarbons: C09-C10             | 21.9   | 0        |      | %     | 5  | 10/31/2012 10:59:27 AM |
| % GRO Hydrocarbons: C10-C11             | 10.2   | 0        |      | %     | 5  | 10/31/2012 10:59:27 AM |
| % GRO Hydrocarbons: C11-C12             | 4.10   | 0        |      | %     | 5  | 10/31/2012 10:59:27 AM |
| % GRO Hydrocarbons: C12-C14             | 1.10   | 0        |      | %     | 5  | 10/31/2012 10:59:27 AM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 5  | 10/31/2012 10:59:27 AM |
| Surr: BFB                               | 145    | 43.1-185 |      | %REC  | 5  | 10/31/2012 10:59:27 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** SVE-28

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:55:00 PM

**Lab ID:** 1210A37-029

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB           |
| Gasoline Range Organics (GRO)           | 154    | 5.00     |      | µg/L  | 1  | 10/30/2012 12:46:28 PM |
| % GRO Hydrocarbons: C05-C6              | 6.00   | 0        |      | %     | 1  | 10/30/2012 12:46:28 PM |
| % GRO Hydrocarbons: C06-C7              | 41.5   | 0        |      | %     | 1  | 10/30/2012 12:46:28 PM |
| % GRO Hydrocarbons: C07-C8              | 30.1   | 0        |      | %     | 1  | 10/30/2012 12:46:28 PM |
| % GRO Hydrocarbons: C08-C9              | 12.0   | 0        |      | %     | 1  | 10/30/2012 12:46:28 PM |
| % GRO Hydrocarbons: C09-C10             | 6.80   | 0        |      | %     | 1  | 10/30/2012 12:46:28 PM |
| % GRO Hydrocarbons: C10-C11             | 2.30   | 0        |      | %     | 1  | 10/30/2012 12:46:28 PM |
| % GRO Hydrocarbons: C11-C12             | 0.900  | 0        |      | %     | 1  | 10/30/2012 12:46:28 PM |
| % GRO Hydrocarbons: C12-C14             | 0.400  | 0        |      | %     | 1  | 10/30/2012 12:46:28 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 12:46:28 PM |
| Surr: BFB                               | 155    | 43.1-185 |      | %REC  | 1  | 10/30/2012 12:46:28 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** SVE-31

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 3:58:00 PM

**Lab ID:** 1210A37-030

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 38.9   | 5.00     |      | µg/L  | 1  | 10/30/2012 1:13:47 PM |
| % GRO Hydrocarbons: C05-C6              | 3.90   | 0        |      | %     | 1  | 10/30/2012 1:13:47 PM |
| % GRO Hydrocarbons: C06-C7              | 23.3   | 0        |      | %     | 1  | 10/30/2012 1:13:47 PM |
| % GRO Hydrocarbons: C07-C8              | 27.8   | 0        |      | %     | 1  | 10/30/2012 1:13:47 PM |
| % GRO Hydrocarbons: C08-C9              | 17.0   | 0        |      | %     | 1  | 10/30/2012 1:13:47 PM |
| % GRO Hydrocarbons: C09-C10             | 16.5   | 0        |      | %     | 1  | 10/30/2012 1:13:47 PM |
| % GRO Hydrocarbons: C10-C11             | 7.30   | 0        |      | %     | 1  | 10/30/2012 1:13:47 PM |
| % GRO Hydrocarbons: C11-C12             | 3.30   | 0        |      | %     | 1  | 10/30/2012 1:13:47 PM |
| % GRO Hydrocarbons: C12-C14             | 0.900  | 0        |      | %     | 1  | 10/30/2012 1:13:47 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 1:13:47 PM |
| Surr: BFB                               | 124    | 43.1-185 |      | %REC  | 1  | 10/30/2012 1:13:47 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** SVE-27

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 4:05:00 PM

**Lab ID:** 1210A37-031

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 50.4   | 5.00     |      | µg/L  | 1  | 10/30/2012 1:40:57 PM |
| % GRO Hydrocarbons: C05-C6              | 4.70   | 0        |      | %     | 1  | 10/30/2012 1:40:57 PM |
| % GRO Hydrocarbons: C06-C7              | 28.2   | 0        |      | %     | 1  | 10/30/2012 1:40:57 PM |
| % GRO Hydrocarbons: C07-C8              | 32.0   | 0        |      | %     | 1  | 10/30/2012 1:40:57 PM |
| % GRO Hydrocarbons: C08-C9              | 17.1   | 0        |      | %     | 1  | 10/30/2012 1:40:57 PM |
| % GRO Hydrocarbons: C09-C10             | 12.2   | 0        |      | %     | 1  | 10/30/2012 1:40:57 PM |
| % GRO Hydrocarbons: C10-C11             | 4.10   | 0        |      | %     | 1  | 10/30/2012 1:40:57 PM |
| % GRO Hydrocarbons: C11-C12             | 1.50   | 0        |      | %     | 1  | 10/30/2012 1:40:57 PM |
| % GRO Hydrocarbons: C12-C14             | 0.200  | 0        |      | %     | 1  | 10/30/2012 1:40:57 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 1:40:57 PM |
| Surr: BFB                               | 126    | 43.1-185 |      | %REC  | 1  | 10/30/2012 1:40:57 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** SVE-30

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 4:08:00 PM

**Lab ID:** 1210A37-032

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 25.6   | 5.00     |      | µg/L  | 1  | 10/30/2012 2:08:02 PM |
| % GRO Hydrocarbons: C05-C6              | 4.10   | 0        |      | %     | 1  | 10/30/2012 2:08:02 PM |
| % GRO Hydrocarbons: C06-C7              | 23.6   | 0        |      | %     | 1  | 10/30/2012 2:08:02 PM |
| % GRO Hydrocarbons: C07-C8              | 31.2   | 0        |      | %     | 1  | 10/30/2012 2:08:02 PM |
| % GRO Hydrocarbons: C08-C9              | 18.4   | 0        |      | %     | 1  | 10/30/2012 2:08:02 PM |
| % GRO Hydrocarbons: C09-C10             | 15.8   | 0        |      | %     | 1  | 10/30/2012 2:08:02 PM |
| % GRO Hydrocarbons: C10-C11             | 4.60   | 0        |      | %     | 1  | 10/30/2012 2:08:02 PM |
| % GRO Hydrocarbons: C11-C12             | 1.40   | 0        |      | %     | 1  | 10/30/2012 2:08:02 PM |
| % GRO Hydrocarbons: C12-C14             | 0.900  | 0        |      | %     | 1  | 10/30/2012 2:08:02 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 2:08:02 PM |
| Surr: BFB                               | 118    | 43.1-185 |      | %REC  | 1  | 10/30/2012 2:08:02 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** SVE-25

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 8:30:00 AM

**Lab ID:** 1210A37-033

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed          |
|-----------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB           |
| Gasoline Range Organics (GRO)           | ND     | 5.00     |      | µg/L  | 1  | 10/31/2012 11:54:10 AM |
| Surr: BFB                               | 108    | 43.1-185 |      | %REC  | 1  | 10/31/2012 11:54:10 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** SVE-26

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 9:30:00 AM

**Lab ID:** 1210A37-034

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 15.5   | 5.00     |      | µg/L  | 1  | 10/30/2012 3:02:05 PM |
| % GRO Hydrocarbons: C05-C6              | 7.50   | 0        |      | %     | 1  | 10/30/2012 3:02:05 PM |
| % GRO Hydrocarbons: C06-C7              | 33.3   | 0        |      | %     | 1  | 10/30/2012 3:02:05 PM |
| % GRO Hydrocarbons: C07-C8              | 29.4   | 0        |      | %     | 1  | 10/30/2012 3:02:05 PM |
| % GRO Hydrocarbons: C08-C9              | 11.1   | 0        |      | %     | 1  | 10/30/2012 3:02:05 PM |
| % GRO Hydrocarbons: C09-C10             | 15.1   | 0        |      | %     | 1  | 10/30/2012 3:02:05 PM |
| % GRO Hydrocarbons: C10-C11             | 1.40   | 0        |      | %     | 1  | 10/30/2012 3:02:05 PM |
| % GRO Hydrocarbons: C11-C12             | 1.60   | 0        |      | %     | 1  | 10/30/2012 3:02:05 PM |
| % GRO Hydrocarbons: C12-C14             | 0.600  | 0        |      | %     | 1  | 10/30/2012 3:02:05 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 3:02:05 PM |
| Surr: BFB                               | 107    | 43.1-185 |      | %REC  | 1  | 10/30/2012 3:02:05 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** SVE-22

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 9:55:00 AM

**Lab ID:** 1210A37-035

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 5.08   | 5.00     |      | µg/L  | 1  | 10/30/2012 3:29:19 PM |
| % GRO Hydrocarbons: C05-C6              | 3.60   | 0        |      | %     | 1  | 10/30/2012 3:29:19 PM |
| % GRO Hydrocarbons: C06-C7              | 13.9   | 0        |      | %     | 1  | 10/30/2012 3:29:19 PM |
| % GRO Hydrocarbons: C07-C8              | 32.6   | 0        |      | %     | 1  | 10/30/2012 3:29:19 PM |
| % GRO Hydrocarbons: C08-C9              | 14.6   | 0        |      | %     | 1  | 10/30/2012 3:29:19 PM |
| % GRO Hydrocarbons: C09-C10             | 30.2   | 0        |      | %     | 1  | 10/30/2012 3:29:19 PM |
| % GRO Hydrocarbons: C10-C11             | 2.70   | 0        |      | %     | 1  | 10/30/2012 3:29:19 PM |
| % GRO Hydrocarbons: C11-C12             | 1.80   | 0        |      | %     | 1  | 10/30/2012 3:29:19 PM |
| % GRO Hydrocarbons: C12-C14             | 0.600  | 0        |      | %     | 1  | 10/30/2012 3:29:19 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 3:29:19 PM |
| Surr: BFB                               | 116    | 43.1-185 |      | %REC  | 1  | 10/30/2012 3:29:19 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** SVE-23

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 5:10:00 PM

**Lab ID:** 1210A37-036

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 17.3   | 5.00     |      | µg/L  | 1  | 10/30/2012 3:56:30 PM |
| % GRO Hydrocarbons: C05-C6              | 3.90   | 0        |      | %     | 1  | 10/30/2012 3:56:30 PM |
| % GRO Hydrocarbons: C06-C7              | 20.4   | 0        |      | %     | 1  | 10/30/2012 3:56:30 PM |
| % GRO Hydrocarbons: C07-C8              | 29.1   | 0        |      | %     | 1  | 10/30/2012 3:56:30 PM |
| % GRO Hydrocarbons: C08-C9              | 16.5   | 0        |      | %     | 1  | 10/30/2012 3:56:30 PM |
| % GRO Hydrocarbons: C09-C10             | 20.7   | 0        |      | %     | 1  | 10/30/2012 3:56:30 PM |
| % GRO Hydrocarbons: C10-C11             | 6.50   | 0        |      | %     | 1  | 10/30/2012 3:56:30 PM |
| % GRO Hydrocarbons: C11-C12             | 2.60   | 0        |      | %     | 1  | 10/30/2012 3:56:30 PM |
| % GRO Hydrocarbons: C12-C14             | 0.300  | 0        |      | %     | 1  | 10/30/2012 3:56:30 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 3:56:30 PM |
| Surr: BFB                               | 114    | 43.1-185 |      | %REC  | 1  | 10/30/2012 3:56:30 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit A

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 6:20:00 PM

**Lab ID:** 1210A37-037

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 704    | 5.00     |      | µg/L  | 1  | 10/30/2012 4:23:55 PM |
| % GRO Hydrocarbons: C05-C6              | 10.8   | 0        |      | %     | 1  | 10/30/2012 4:23:55 PM |
| % GRO Hydrocarbons: C06-C7              | 41.5   | 0        |      | %     | 1  | 10/30/2012 4:23:55 PM |
| % GRO Hydrocarbons: C07-C8              | 30.0   | 0        |      | %     | 1  | 10/30/2012 4:23:55 PM |
| % GRO Hydrocarbons: C08-C9              | 13.1   | 0        |      | %     | 1  | 10/30/2012 4:23:55 PM |
| % GRO Hydrocarbons: C09-C10             | 3.20   | 0        |      | %     | 1  | 10/30/2012 4:23:55 PM |
| % GRO Hydrocarbons: C10-C11             | 1.00   | 0        |      | %     | 1  | 10/30/2012 4:23:55 PM |
| % GRO Hydrocarbons: C11-C12             | 0.300  | 0        |      | %     | 1  | 10/30/2012 4:23:55 PM |
| % GRO Hydrocarbons: C12-C14             | 0.100  | 0        |      | %     | 1  | 10/30/2012 4:23:55 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/30/2012 4:23:55 PM |
| Surr: BFB                               | 226    | 43.1-185 | S    | %REC  | 1  | 10/30/2012 4:23:55 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit C

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 10:05:00 AM

**Lab ID:** 1210A37-038

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 1210   | 250      |      | µg/L  | 50 | 10/30/2012 4:51:24 PM |
| % GRO Hydrocarbons: C05-C6              | 15.7   | 0        |      | %     | 50 | 10/30/2012 4:51:24 PM |
| % GRO Hydrocarbons: C06-C7              | 45.6   | 0        |      | %     | 50 | 10/30/2012 4:51:24 PM |
| % GRO Hydrocarbons: C07-C8              | 24.6   | 0        |      | %     | 50 | 10/30/2012 4:51:24 PM |
| % GRO Hydrocarbons: C08-C9              | 5.50   | 0        |      | %     | 50 | 10/30/2012 4:51:24 PM |
| % GRO Hydrocarbons: C09-C10             | 8.50   | 0        |      | %     | 50 | 10/30/2012 4:51:24 PM |
| % GRO Hydrocarbons: C10-C11             | 0.100  | 0        |      | %     | 50 | 10/30/2012 4:51:24 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 50 | 10/30/2012 4:51:24 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 50 | 10/30/2012 4:51:24 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/30/2012 4:51:24 PM |
| Surr: BFB                               | 111    | 43.1-185 |      | %REC  | 50 | 10/30/2012 4:51:24 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit D

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 10:10:00 AM

**Lab ID:** 1210A37-039

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 4800   | 250      |      | µg/L  | 50 | 10/31/2012 1:19:09 PM |
| % GRO Hydrocarbons: C05-C6              | 19.7   | 0        |      | %     | 50 | 10/31/2012 1:19:09 PM |
| % GRO Hydrocarbons: C06-C7              | 51.3   | 0        |      | %     | 50 | 10/31/2012 1:19:09 PM |
| % GRO Hydrocarbons: C07-C8              | 20.9   | 0        |      | %     | 50 | 10/31/2012 1:19:09 PM |
| % GRO Hydrocarbons: C08-C9              | 5.20   | 0        |      | %     | 50 | 10/31/2012 1:19:09 PM |
| % GRO Hydrocarbons: C09-C10             | 2.80   | 0        |      | %     | 50 | 10/31/2012 1:19:09 PM |
| % GRO Hydrocarbons: C10-C11             | 0.100  | 0        |      | %     | 50 | 10/31/2012 1:19:09 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 50 | 10/31/2012 1:19:09 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 50 | 10/31/2012 1:19:09 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/31/2012 1:19:09 PM |
| Surr: BFB                               | 109    | 43.1-185 |      | %REC  | 50 | 10/31/2012 1:19:09 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Shallow Circuit

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 10:15:00 AM

**Lab ID:** 1210A37-040

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 24.5   | 5.00     |      | µg/L  | 1  | 10/31/2012 1:46:34 PM |
| % GRO Hydrocarbons: C05-C6              | 4.70   | 0        |      | %     | 1  | 10/31/2012 1:46:34 PM |
| % GRO Hydrocarbons: C06-C7              | 27.5   | 0        |      | %     | 1  | 10/31/2012 1:46:34 PM |
| % GRO Hydrocarbons: C07-C8              | 33.8   | 0        |      | %     | 1  | 10/31/2012 1:46:34 PM |
| % GRO Hydrocarbons: C08-C9              | 19.3   | 0        |      | %     | 1  | 10/31/2012 1:46:34 PM |
| % GRO Hydrocarbons: C09-C10             | 12.3   | 0        |      | %     | 1  | 10/31/2012 1:46:34 PM |
| % GRO Hydrocarbons: C10-C11             | 1.50   | 0        |      | %     | 1  | 10/31/2012 1:46:34 PM |
| % GRO Hydrocarbons: C11-C12             | 0.500  | 0        |      | %     | 1  | 10/31/2012 1:46:34 PM |
| % GRO Hydrocarbons: C12-C14             | 0.400  | 0        |      | %     | 1  | 10/31/2012 1:46:34 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/31/2012 1:46:34 PM |
| Surr: BFB                               | 110    | 43.1-185 |      | %REC  | 1  | 10/31/2012 1:46:34 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-12

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 10:40:00 AM

**Lab ID:** 1210A37-041

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 2270   | 100      |      | µg/L  | 20 | 11/1/2012 11:11:20 AM |
| % GRO Hydrocarbons: C05-C6              | 13.4   | 0        |      | %     | 20 | 11/1/2012 11:11:20 AM |
| % GRO Hydrocarbons: C06-C7              | 43.7   | 0        |      | %     | 20 | 11/1/2012 11:11:20 AM |
| % GRO Hydrocarbons: C07-C8              | 26.9   | 0        |      | %     | 20 | 11/1/2012 11:11:20 AM |
| % GRO Hydrocarbons: C08-C9              | 11.5   | 0        |      | %     | 20 | 11/1/2012 11:11:20 AM |
| % GRO Hydrocarbons: C09-C10             | 4.20   | 0        |      | %     | 20 | 11/1/2012 11:11:20 AM |
| % GRO Hydrocarbons: C10-C11             | 0.300  | 0        |      | %     | 20 | 11/1/2012 11:11:20 AM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 20 | 11/1/2012 11:11:20 AM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 20 | 11/1/2012 11:11:20 AM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 20 | 11/1/2012 11:11:20 AM |
| Surr: BFB                               | 120    | 43.1-185 |      | %REC  | 20 | 11/1/2012 11:11:20 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-13

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 10:45:00 AM

**Lab ID:** 1210A37-042

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 2470   | 250      |      | µg/L  | 50 | 10/31/2012 2:41:05 PM |
| % GRO Hydrocarbons: C05-C6              | 11.6   | 0        |      | %     | 50 | 10/31/2012 2:41:05 PM |
| % GRO Hydrocarbons: C06-C7              | 33.1   | 0        |      | %     | 50 | 10/31/2012 2:41:05 PM |
| % GRO Hydrocarbons: C07-C8              | 34.4   | 0        |      | %     | 50 | 10/31/2012 2:41:05 PM |
| % GRO Hydrocarbons: C08-C9              | 13.7   | 0        |      | %     | 50 | 10/31/2012 2:41:05 PM |
| % GRO Hydrocarbons: C09-C10             | 6.80   | 0        |      | %     | 50 | 10/31/2012 2:41:05 PM |
| % GRO Hydrocarbons: C10-C11             | 0.400  | 0        |      | %     | 50 | 10/31/2012 2:41:05 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 50 | 10/31/2012 2:41:05 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 50 | 10/31/2012 2:41:05 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/31/2012 2:41:05 PM |
| Surr: BFB                               | 122    | 43.1-185 |      | %REC  | 50 | 10/31/2012 2:41:05 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-14

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 10:50:00 AM

**Lab ID:** 1210A37-043

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 12700  | 250      |      | µg/L  | 50 | 10/31/2012 3:08:23 PM |
| % GRO Hydrocarbons: C05-C6              | 15.4   | 0        |      | %     | 50 | 10/31/2012 3:08:23 PM |
| % GRO Hydrocarbons: C06-C7              | 47.2   | 0        |      | %     | 50 | 10/31/2012 3:08:23 PM |
| % GRO Hydrocarbons: C07-C8              | 28.2   | 0        |      | %     | 50 | 10/31/2012 3:08:23 PM |
| % GRO Hydrocarbons: C08-C9              | 7.50   | 0        |      | %     | 50 | 10/31/2012 3:08:23 PM |
| % GRO Hydrocarbons: C09-C10             | 1.60   | 0        |      | %     | 50 | 10/31/2012 3:08:23 PM |
| % GRO Hydrocarbons: C10-C11             | 0.100  | 0        |      | %     | 50 | 10/31/2012 3:08:23 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 50 | 10/31/2012 3:08:23 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 50 | 10/31/2012 3:08:23 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/31/2012 3:08:23 PM |
| Surr: BFB                               | 116    | 43.1-185 |      | %REC  | 50 | 10/31/2012 3:08:23 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-15

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 10:55:00 AM

**Lab ID:** 1210A37-044

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 156    | 5.00     |      | µg/L  | 1  | 10/31/2012 3:35:39 PM |
| % GRO Hydrocarbons: C05-C6              | 2.80   | 0        |      | %     | 1  | 10/31/2012 3:35:39 PM |
| % GRO Hydrocarbons: C06-C7              | 20.1   | 0        |      | %     | 1  | 10/31/2012 3:35:39 PM |
| % GRO Hydrocarbons: C07-C8              | 39.1   | 0        |      | %     | 1  | 10/31/2012 3:35:39 PM |
| % GRO Hydrocarbons: C08-C9              | 24.7   | 0        |      | %     | 1  | 10/31/2012 3:35:39 PM |
| % GRO Hydrocarbons: C09-C10             | 10.3   | 0        |      | %     | 1  | 10/31/2012 3:35:39 PM |
| % GRO Hydrocarbons: C10-C11             | 2.10   | 0        |      | %     | 1  | 10/31/2012 3:35:39 PM |
| % GRO Hydrocarbons: C11-C12             | 0.600  | 0        |      | %     | 1  | 10/31/2012 3:35:39 PM |
| % GRO Hydrocarbons: C12-C14             | 0.300  | 0        |      | %     | 1  | 10/31/2012 3:35:39 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/31/2012 3:35:39 PM |
| Surr: BFB                               | 171    | 43.1-185 |      | %REC  | 1  | 10/31/2012 3:35:39 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-16

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 11:00:00 AM

**Lab ID:** 1210A37-045

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 45200  | 1000     |      | µg/L  | 200 | 10/31/2012 4:02:53 PM |
| % GRO Hydrocarbons: C05-C6              | 27.0   | 0        |      | %     | 200 | 10/31/2012 4:02:53 PM |
| % GRO Hydrocarbons: C06-C7              | 48.8   | 0        |      | %     | 200 | 10/31/2012 4:02:53 PM |
| % GRO Hydrocarbons: C07-C8              | 16.0   | 0        |      | %     | 200 | 10/31/2012 4:02:53 PM |
| % GRO Hydrocarbons: C08-C9              | 5.30   | 0        |      | %     | 200 | 10/31/2012 4:02:53 PM |
| % GRO Hydrocarbons: C09-C10             | 2.70   | 0        |      | %     | 200 | 10/31/2012 4:02:53 PM |
| % GRO Hydrocarbons: C10-C11             | 0.200  | 0        |      | %     | 200 | 10/31/2012 4:02:53 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 200 | 10/31/2012 4:02:53 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 200 | 10/31/2012 4:02:53 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 200 | 10/31/2012 4:02:53 PM |
| Surr: BFB                               | 116    | 43.1-185 |      | %REC  | 200 | 10/31/2012 4:02:53 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-17

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 11:05:00 AM

**Lab ID:** 1210A37-046

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 2120   | 250      |      | µg/L  | 50 | 10/31/2012 4:30:06 PM |
| % GRO Hydrocarbons: C05-C6              | 15.0   | 0        |      | %     | 50 | 10/31/2012 4:30:06 PM |
| % GRO Hydrocarbons: C06-C7              | 41.4   | 0        |      | %     | 50 | 10/31/2012 4:30:06 PM |
| % GRO Hydrocarbons: C07-C8              | 26.1   | 0        |      | %     | 50 | 10/31/2012 4:30:06 PM |
| % GRO Hydrocarbons: C08-C9              | 10.1   | 0        |      | %     | 50 | 10/31/2012 4:30:06 PM |
| % GRO Hydrocarbons: C09-C10             | 6.90   | 0        |      | %     | 50 | 10/31/2012 4:30:06 PM |
| % GRO Hydrocarbons: C10-C11             | 0.500  | 0        |      | %     | 50 | 10/31/2012 4:30:06 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 50 | 10/31/2012 4:30:06 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 50 | 10/31/2012 4:30:06 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/31/2012 4:30:06 PM |
| Surr: BFB                               | 112    | 43.1-185 |      | %REC  | 50 | 10/31/2012 4:30:06 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-18

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 11:10:00 AM

**Lab ID:** 1210A37-047

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed        |
|-----------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB         |
| Gasoline Range Organics (GRO)           | 132    | 5.00     |      | µg/L  | 1  | 11/1/2012 1:11:49 PM |
| % GRO Hydrocarbons: C05-C6              | 6.20   | 0        |      | %     | 1  | 11/1/2012 1:11:49 PM |
| % GRO Hydrocarbons: C06-C7              | 20.5   | 0        |      | %     | 1  | 11/1/2012 1:11:49 PM |
| % GRO Hydrocarbons: C07-C8              | 29.4   | 0        |      | %     | 1  | 11/1/2012 1:11:49 PM |
| % GRO Hydrocarbons: C08-C9              | 22.4   | 0        |      | %     | 1  | 11/1/2012 1:11:49 PM |
| % GRO Hydrocarbons: C09-C10             | 14.6   | 0        |      | %     | 1  | 11/1/2012 1:11:49 PM |
| % GRO Hydrocarbons: C10-C11             | 5.50   | 0        |      | %     | 1  | 11/1/2012 1:11:49 PM |
| % GRO Hydrocarbons: C11-C12             | 1.10   | 0        |      | %     | 1  | 11/1/2012 1:11:49 PM |
| % GRO Hydrocarbons: C12-C14             | 0.300  | 0        |      | %     | 1  | 11/1/2012 1:11:49 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 11/1/2012 1:11:49 PM |
| Surr: BFB                               | 150    | 43.1-185 |      | %REC  | 1  | 11/1/2012 1:11:49 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-19

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 11:15:00 AM

**Lab ID:** 1210A37-048

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 1050   | 50.0     |      | µg/L  | 10 | 10/31/2012 4:57:18 PM |
| % GRO Hydrocarbons: C05-C6              | 10.9   | 0        |      | %     | 10 | 10/31/2012 4:57:18 PM |
| % GRO Hydrocarbons: C06-C7              | 35.8   | 0        |      | %     | 10 | 10/31/2012 4:57:18 PM |
| % GRO Hydrocarbons: C07-C8              | 38.9   | 0        |      | %     | 10 | 10/31/2012 4:57:18 PM |
| % GRO Hydrocarbons: C08-C9              | 10.3   | 0        |      | %     | 10 | 10/31/2012 4:57:18 PM |
| % GRO Hydrocarbons: C09-C10             | 3.30   | 0        |      | %     | 10 | 10/31/2012 4:57:18 PM |
| % GRO Hydrocarbons: C10-C11             | 0.600  | 0        |      | %     | 10 | 10/31/2012 4:57:18 PM |
| % GRO Hydrocarbons: C11-C12             | 0.200  | 0        |      | %     | 10 | 10/31/2012 4:57:18 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 10 | 10/31/2012 4:57:18 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 10 | 10/31/2012 4:57:18 PM |
| Surr: BFB                               | 91.7   | 43.1-185 |      | %REC  | 10 | 10/31/2012 4:57:18 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-20

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 11:20:00 AM

**Lab ID:** 1210A37-049

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 67400  | 1000     |      | µg/L  | 200 | 10/31/2012 1:45:35 PM |
| % GRO Hydrocarbons: C05-C6              | 20.1   | 0        |      | %     | 200 | 10/31/2012 1:45:35 PM |
| % GRO Hydrocarbons: C06-C7              | 47.8   | 0        |      | %     | 200 | 10/31/2012 1:45:35 PM |
| % GRO Hydrocarbons: C07-C8              | 26.9   | 0        |      | %     | 200 | 10/31/2012 1:45:35 PM |
| % GRO Hydrocarbons: C08-C9              | 3.20   | 0        |      | %     | 200 | 10/31/2012 1:45:35 PM |
| % GRO Hydrocarbons: C09-C10             | 1.70   | 0        |      | %     | 200 | 10/31/2012 1:45:35 PM |
| % GRO Hydrocarbons: C10-C11             | 0.200  | 0        |      | %     | 200 | 10/31/2012 1:45:35 PM |
| % GRO Hydrocarbons: C11-C12             | 0.100  | 0        |      | %     | 200 | 10/31/2012 1:45:35 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 200 | 10/31/2012 1:45:35 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 200 | 10/31/2012 1:45:35 PM |
| Surr: BFB                               | 96.4   | 43.1-185 |      | %REC  | 200 | 10/31/2012 1:45:35 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-21

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 11:25:00 AM

**Lab ID:** 1210A37-050

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 71800  | 500      |      | µg/L  | 100 | 10/31/2012 2:12:56 PM |
| % GRO Hydrocarbons: C05-C6              | 17.3   | 0        |      | %     | 100 | 10/31/2012 2:12:56 PM |
| % GRO Hydrocarbons: C06-C7              | 44.8   | 0        |      | %     | 100 | 10/31/2012 2:12:56 PM |
| % GRO Hydrocarbons: C07-C8              | 30.7   | 0        |      | %     | 100 | 10/31/2012 2:12:56 PM |
| % GRO Hydrocarbons: C08-C9              | 5.50   | 0        |      | %     | 100 | 10/31/2012 2:12:56 PM |
| % GRO Hydrocarbons: C09-C10             | 1.30   | 0        |      | %     | 100 | 10/31/2012 2:12:56 PM |
| % GRO Hydrocarbons: C10-C11             | 0.400  | 0        |      | %     | 100 | 10/31/2012 2:12:56 PM |
| % GRO Hydrocarbons: C11-C12             | ND     | 0        |      | %     | 100 | 10/31/2012 2:12:56 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 100 | 10/31/2012 2:12:56 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 100 | 10/31/2012 2:12:56 PM |
| Surr: BFB                               | 161    | 43.1-185 |      | %REC  | 100 | 10/31/2012 2:12:56 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-16 Dup

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 11:00:00 AM

**Lab ID:** 1210A37-051

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |     | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 56800  | 1000     |      | µg/L  | 200 | 10/31/2012 2:40:19 PM |
| % GRO Hydrocarbons: C05-C6              | 27.6   | 0        |      | %     | 200 | 10/31/2012 2:40:19 PM |
| % GRO Hydrocarbons: C06-C7              | 47.4   | 0        |      | %     | 200 | 10/31/2012 2:40:19 PM |
| % GRO Hydrocarbons: C07-C8              | 20.4   | 0        |      | %     | 200 | 10/31/2012 2:40:19 PM |
| % GRO Hydrocarbons: C08-C9              | 2.50   | 0        |      | %     | 200 | 10/31/2012 2:40:19 PM |
| % GRO Hydrocarbons: C09-C10             | 1.70   | 0        |      | %     | 200 | 10/31/2012 2:40:19 PM |
| % GRO Hydrocarbons: C10-C11             | 0.300  | 0        |      | %     | 200 | 10/31/2012 2:40:19 PM |
| % GRO Hydrocarbons: C11-C12             | 0.100  | 0        |      | %     | 200 | 10/31/2012 2:40:19 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 200 | 10/31/2012 2:40:19 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 200 | 10/31/2012 2:40:19 PM |
| Surr: BFB                               | 104    | 43.1-185 |      | %REC  | 200 | 10/31/2012 2:40:19 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-8 Dup

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/21/2012 5:40:00 PM

**Lab ID:** 1210A37-052

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 31.5   | 5.00     |      | µg/L  | 1  | 10/31/2012 3:07:43 PM |
| % GRO Hydrocarbons: C05-C6              | 3.20   | 0        |      | %     | 1  | 10/31/2012 3:07:43 PM |
| % GRO Hydrocarbons: C06-C7              | 22.0   | 0        |      | %     | 1  | 10/31/2012 3:07:43 PM |
| % GRO Hydrocarbons: C07-C8              | 44.9   | 0        |      | %     | 1  | 10/31/2012 3:07:43 PM |
| % GRO Hydrocarbons: C08-C9              | 15.9   | 0        |      | %     | 1  | 10/31/2012 3:07:43 PM |
| % GRO Hydrocarbons: C09-C10             | 9.20   | 0        |      | %     | 1  | 10/31/2012 3:07:43 PM |
| % GRO Hydrocarbons: C10-C11             | 3.80   | 0        |      | %     | 1  | 10/31/2012 3:07:43 PM |
| % GRO Hydrocarbons: C11-C12             | 0.700  | 0        |      | %     | 1  | 10/31/2012 3:07:43 PM |
| % GRO Hydrocarbons: C12-C14             | 0.300  | 0        |      | %     | 1  | 10/31/2012 3:07:43 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 1  | 10/31/2012 3:07:43 PM |
| Surr: BFB                               | 101    | 43.1-185 |      | %REC  | 1  | 10/31/2012 3:07:43 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Circuit B

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 11:30:00 AM

**Lab ID:** 1210A37-053

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 5080   | 250      |      | µg/L  | 50 | 10/31/2012 3:35:05 PM |
| % GRO Hydrocarbons: C05-C6              | 16.4   | 0        |      | %     | 50 | 10/31/2012 3:35:05 PM |
| % GRO Hydrocarbons: C06-C7              | 41.6   | 0        |      | %     | 50 | 10/31/2012 3:35:05 PM |
| % GRO Hydrocarbons: C07-C8              | 31.6   | 0        |      | %     | 50 | 10/31/2012 3:35:05 PM |
| % GRO Hydrocarbons: C08-C9              | 6.60   | 0        |      | %     | 50 | 10/31/2012 3:35:05 PM |
| % GRO Hydrocarbons: C09-C10             | 2.90   | 0        |      | %     | 50 | 10/31/2012 3:35:05 PM |
| % GRO Hydrocarbons: C10-C11             | 0.700  | 0        |      | %     | 50 | 10/31/2012 3:35:05 PM |
| % GRO Hydrocarbons: C11-C12             | 0.200  | 0        |      | %     | 50 | 10/31/2012 3:35:05 PM |
| % GRO Hydrocarbons: C12-C14             | ND     | 0        |      | %     | 50 | 10/31/2012 3:35:05 PM |
| % GRO Hydrocarbons: C14+                | ND     | 0        |      | %     | 50 | 10/31/2012 3:35:05 PM |
| Surr: BFB                               | 97.7   | 43.1-185 |      | %REC  | 50 | 10/31/2012 3:35:05 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** East Baker Furnace

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 11:45:00 AM

**Lab ID:** 1210A37-054

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 1780   | 250      |      | µg/L  | 50 | 10/31/2012 4:02:28 PM |
| % GRO Hydrocarbons: C05-C6              | 15.3   | 0        |      | %     | 50 | 10/31/2012 4:02:28 PM |
| % GRO Hydrocarbons: C06-C7              | 41.0   | 0        |      | %     | 50 | 10/31/2012 4:02:28 PM |
| % GRO Hydrocarbons: C07-C8              | 29.6   | 0        |      | %     | 50 | 10/31/2012 4:02:28 PM |
| % GRO Hydrocarbons: C08-C9              | 5.80   | 0        |      | %     | 50 | 10/31/2012 4:02:28 PM |
| % GRO Hydrocarbons: C09-C10             | 7.10   | 0        |      | %     | 50 | 10/31/2012 4:02:28 PM |
| % GRO Hydrocarbons: C10-C11             | 0.900  | 0        |      | %     | 50 | 10/31/2012 4:02:28 PM |
| % GRO Hydrocarbons: C11-C12             | 0.100  | 0        |      | %     | 50 | 10/31/2012 4:02:28 PM |
| % GRO Hydrocarbons: C12-C14             | 0.100  | 0        |      | %     | 50 | 10/31/2012 4:02:28 PM |
| % GRO Hydrocarbons: C14+                | 0.100  | 0        |      | %     | 50 | 10/31/2012 4:02:28 PM |
| Surr: BFB                               | 101    | 43.1-185 |      | %REC  | 50 | 10/31/2012 4:02:28 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A37

Date Reported: 11/5/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** West Baker Furnace

**Project:** Transwestern Pipeline Company Roswell

**Collection Date:** 10/22/2012 11:50:00 AM

**Lab ID:** 1210A37-055

**Matrix:** AIR

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                | Result | RL       | Qual | Units | DF | Date Analyzed         |
|-----------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)           | 1670   | 250      |      | µg/L  | 50 | 10/31/2012 4:29:53 PM |
| % GRO Hydrocarbons: C05-C6              | 17.1   | 0        |      | %     | 50 | 10/31/2012 4:29:53 PM |
| % GRO Hydrocarbons: C06-C7              | 44.2   | 0        |      | %     | 50 | 10/31/2012 4:29:53 PM |
| % GRO Hydrocarbons: C07-C8              | 28.6   | 0        |      | %     | 50 | 10/31/2012 4:29:53 PM |
| % GRO Hydrocarbons: C08-C9              | 4.20   | 0        |      | %     | 50 | 10/31/2012 4:29:53 PM |
| % GRO Hydrocarbons: C09-C10             | 5.00   | 0        |      | %     | 50 | 10/31/2012 4:29:53 PM |
| % GRO Hydrocarbons: C10-C11             | 0.500  | 0        |      | %     | 50 | 10/31/2012 4:29:53 PM |
| % GRO Hydrocarbons: C11-C12             | 0.200  | 0        |      | %     | 50 | 10/31/2012 4:29:53 PM |
| % GRO Hydrocarbons: C12-C14             | 0.100  | 0        |      | %     | 50 | 10/31/2012 4:29:53 PM |
| % GRO Hydrocarbons: C14+                | 0.100  | 0        |      | %     | 50 | 10/31/2012 4:29:53 PM |
| Surr: BFB                               | 97.4   | 43.1-185 |      | %REC  | 50 | 10/31/2012 4:29:53 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A37

05-Nov-12

Client: Cypress Engineering

Project: Transwestern Pipeline Company Roswell

|                               |                 |                |            |             |                                  |          |           |      |          |      |
|-------------------------------|-----------------|----------------|------------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | 1210A60-001ADUP | SampType:      | DUP        | TestCode:   | EPA Method 8015B: Gasoline Range |          |           |      |          |      |
| Client ID:                    | BatchQC         | Batch ID:      | R6558      | RunNo:      | 6558                             |          |           |      |          |      |
| Prep Date:                    |                 | Analysis Date: | 10/29/2012 | SeqNo:      | 189441                           | Units:   | µg/L      |      |          |      |
| Analyte                       | Result          | PQL            | SPK value  | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 1200            | 50             |            |             |                                  |          |           | 1.38 | 21       |      |
| Surr: BFB                     | 25000           |                | 20000      |             | 124                              | 43.1     | 185       | 0    | 0        |      |

|                               |                 |                |            |             |                                  |          |           |      |          |      |
|-------------------------------|-----------------|----------------|------------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | 1210A37-001ADUP | SampType:      | DUP        | TestCode:   | EPA Method 8015B: Gasoline Range |          |           |      |          |      |
| Client ID:                    | SVE-24          | Batch ID:      | R6559      | RunNo:      | 6559                             |          |           |      |          |      |
| Prep Date:                    |                 | Analysis Date: | 10/29/2012 | SeqNo:      | 189480                           | Units:   | µg/L      |      |          |      |
| Analyte                       | Result          | PQL            | SPK value  | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 14              | 5.0            |            |             |                                  |          |           | 2.91 | 21       |      |
| Surr: BFB                     | 2000            |                | 2000       |             | 98.6                             | 43.1     | 185       | 0    | 0        |      |

|                               |                 |                |            |             |                                  |          |           |      |          |      |
|-------------------------------|-----------------|----------------|------------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | 1210A37-002ADUP | SampType:      | DUP        | TestCode:   | EPA Method 8015B: Gasoline Range |          |           |      |          |      |
| Client ID:                    | MPE-11          | Batch ID:      | R6586      | RunNo:      | 6586                             |          |           |      |          |      |
| Prep Date:                    |                 | Analysis Date: | 10/30/2012 | SeqNo:      | 190163                           | Units:   | µg/L      |      |          |      |
| Analyte                       | Result          | PQL            | SPK value  | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 1000            | 50             |            |             |                                  |          |           | 3.27 | 21       |      |
| Surr: BFB                     | 18000           |                | 20000      |             | 89.7                             | 43.1     | 185       | 0    | 0        |      |

|                               |                 |                |            |             |                                  |          |           |       |          |      |
|-------------------------------|-----------------|----------------|------------|-------------|----------------------------------|----------|-----------|-------|----------|------|
| Sample ID                     | 1210A37-027ADUP | SampType:      | DUP        | TestCode:   | EPA Method 8015B: Gasoline Range |          |           |       |          |      |
| Client ID:                    | MPE-36          | Batch ID:      | R6588      | RunNo:      | 6588                             |          |           |       |          |      |
| Prep Date:                    |                 | Analysis Date: | 10/30/2012 | SeqNo:      | 190231                           | Units:   | µg/L      |       |          |      |
| Analyte                       | Result          | PQL            | SPK value  | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 160             | 5.0            |            |             |                                  |          |           | 0.150 | 21       |      |
| Surr: BFB                     | 2800            |                | 2000       |             | 138                              | 43.1     | 185       | 0     | 0        |      |

|                               |                 |                |            |             |                                  |          |           |      |          |      |
|-------------------------------|-----------------|----------------|------------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | 1210A37-025ADUP | SampType:      | DUP        | TestCode:   | EPA Method 8015B: Gasoline Range |          |           |      |          |      |
| Client ID:                    | MPE-34          | Batch ID:      | R6621      | RunNo:      | 6621                             |          |           |      |          |      |
| Prep Date:                    |                 | Analysis Date: | 10/31/2012 | SeqNo:      | 191065                           | Units:   | µg/L      |      |          |      |
| Analyte                       | Result          | PQL            | SPK value  | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 470             | 25             |            |             |                                  |          |           | 17.4 | 21       |      |
| Surr: BFB                     | 12000           |                | 10000      |             | 119                              | 43.1     | 185       | 0    | 0        |      |

|                               |                 |                |            |             |                                  |          |           |      |          |      |
|-------------------------------|-----------------|----------------|------------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | 1210A37-028ADUP | SampType:      | DUP        | TestCode:   | EPA Method 8015B: Gasoline Range |          |           |      |          |      |
| Client ID:                    | MPE-37          | Batch ID:      | R6622      | RunNo:      | 6622                             |          |           |      |          |      |
| Prep Date:                    |                 | Analysis Date: | 10/31/2012 | SeqNo:      | 191110                           | Units:   | µg/L      |      |          |      |
| Analyte                       | Result          | PQL            | SPK value  | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 260             | 25             |            |             |                                  |          |           | 2.44 | 21       |      |
| Surr: BFB                     | 14000           |                | 10000      |             | 144                              | 43.1     | 185       | 0    | 0        |      |

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A37

05-Nov-12

Client: Cypress Engineering

Project: Transwestern Pipeline Company Roswell

|                               |                 |                |           |             |                                  |          |           |      |          |      |
|-------------------------------|-----------------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | 1210A37-041ADUP | SampType:      | DUP       | TestCode:   | EPA Method 8015B: Gasoline Range |          |           |      |          |      |
| Client ID:                    | MPE-12          | Batch ID:      | R6646     | RunNo:      | 6646                             |          |           |      |          |      |
| Prep Date:                    |                 | Analysis Date: | 11/1/2012 | SeqNo:      | 191657                           | Units:   | µg/L      |      |          |      |
| Analyte                       | Result          | PQL            | SPK value | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 2400            | 100            |           |             |                                  |          |           | 1.16 | 21       |      |
| Surr: BFB                     | 49000           |                | 40000     |             | 122                              | 43.1     | 185       | 0    | 0        |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# Sample Log-In Check List

Client Name: CYP

Work Order Number: 1210A37

Received by/date:

Logged By: Ashley Gallegos

10/23/2012 11:00:00 AM

Completed By: Ashley Gallegos

10/23/2012 11:41:27 AM

Reviewed By:

## Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

## Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH: (≤2 or >12 unless noted)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

18. Additional remarks:

## 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         |         | Good      | Yes         |         |           |           |



# Chain-of-Custody Record

Client: CYPRESS ENGINEERING SERVICES  
7171 Hwy 6 North, Ste 100  
 Mailing Address: Houston TX 77095

Phone #: 281 797 3421

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

TRANSGULF PIPELINE COMPANY  
PERUZZI

Project #:

TAP PERUZZI

Project Manager:

George Robinson

Sampler:

SAMMY SHARP

On Ice: ☐ Yes ☐ No

Sample Temperature:

Container Type and #

Preservative Type

HEAL No

1210A37

-001

-002

-003

-004

-005

-006

-007

-008

-009

-010

-011

-012

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-002

-003

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-001

-002

-003

-004

-005

-006

-007

-008

-009

-010

-011

-012

-001

-002

-003

# Chain-of-Custody Record

Client: Cypress Engineering Services  
7171 Hwy 6 North, Ste 102  
 Mailing Address: Houston, TX 77095

Phone #: 281.797.5420

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:  
TRANSCOSTAL PIPELINE COMPANY  
ROSUELL

Project #:  
TWP ROSUELL

Project Manager:

GEORGE ROBINSON

Sampler: SANDY STAG

On Ice: ☒ Yes ☐ No

Sample Temperature:

| Date     | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. |
|----------|------|--------|-------------------|----------------------|-------------------|----------|
| 10/21/12 | 1350 | AIR    | MPE-29            | 1LT BULK             | Ø                 | -013     |
|          | 1445 |        | MPE-28            |                      |                   | -014     |
|          | 1450 |        | MPE-27            |                      |                   | -015     |
|          | 1455 |        | MPE-26            |                      |                   | -016     |
|          | 1505 |        | MPE-25            |                      |                   | -017     |
|          | 1510 |        | MPE-24            |                      |                   | -018     |
|          | 1515 |        | MPE-23            |                      |                   | -019     |
|          | 1520 |        | MPE-22            |                      |                   | -020     |
|          | 1525 |        | MPE-30            |                      |                   | -021     |
|          | 1530 |        | MPE-31            |                      |                   | -022     |
|          | 1533 |        | MPE-32            |                      |                   | -023     |
|          | 1536 |        | MPE-33            |                      |                   | -024     |

Date: 10/21/12 Time: 1400

Relinquished by: [Signature]

Received by: [Signature]

Date: 10/23/12 Time: 1100

Received by: [Signature]

Remarks: 3 COVERS

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

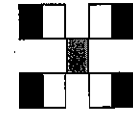
|                                                                                        |  |
|----------------------------------------------------------------------------------------|--|
| BTEX + MTBE + TMB's (8021)                                                             |  |
| BTEX + MTBE + TPH (Gas only)                                                           |  |
| TPH Method 8015B (Gas phase)                                                           |  |
| 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)                                                                   |  |

# Chain-of-Custody Record

Client: Cypress Engineering Services  
777 Hwy 6, NW Ste 102  
 Mailing Address: Holston TX 77095

Phone #: 281 777 3420  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  
☒ Standard ☐ Level 4 (Full Validation)  
 Accreditation  
☐ NELAP ☐ Other \_\_\_\_\_  
☐ EDD (Type) \_\_\_\_\_

| Date     | Time  | Matrix             | Sample Request ID  | Container Type and # | Preservative Type | HEAL No. |
|----------|-------|--------------------|--------------------|----------------------|-------------------|----------|
| 10/21/12 | 1540  | Air                | MPE-34             | 1LTENAR              | 0                 | -025     |
|          | 1545  |                    | MPE-35             |                      |                   | -026     |
|          | 1547  |                    | MPE-36             |                      |                   | -027     |
|          | 1550  |                    | MPE-37             |                      |                   | -028     |
|          | 1555  |                    | SVE-28             |                      |                   | -029     |
|          | 1558  |                    | SVE-31             |                      |                   | -030     |
|          | 1605  |                    | SVE-27             |                      |                   | -031     |
|          | 1608  |                    | SVE-30             |                      |                   | -032     |
| 10/22/12 | 0830  |                    | SVE-25             |                      |                   | -033     |
| "        | 0930  |                    | SVE-26             |                      |                   | -034     |
| "        | 0955  |                    | SVE-22             |                      |                   | -035     |
| 10/23/12 | 1210  |                    | SVE-23             |                      |                   | -0310    |
| Date:    | Time: | Relinquished by:   | Received by:       | Date:                | Time:             |          |
| 10/23/12 | 1210  | <i>[Signature]</i> | <i>[Signature]</i> | 10/23/12             | 1210              |          |
| Date:    | Time: | Relinquished by:   | Received by:       | Date:                | Time:             |          |



# 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 8015B (GRO / BRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | 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 PCBs | 8260B (VOA) | 8270 (Semi-VOA) | Air Bubbles (Y or N) |
|                            |                              | X                           | X                  | X                  | X                         | X             | X                                                                                      | X                           | X           | X               |                      |

Remarks:

3 Coolers

| Chain-of-Custody Record |                              | Turn-Around Time:                                                          |
|-------------------------|------------------------------|----------------------------------------------------------------------------|
| Client:                 | CIPRESS ENGINEERING SERVICES | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush |
|                         | 4771 Hwy 6 North STE 102     | Project Name:                                                              |
| Mailing Address:        | HOUSTON TX 77007             | TRANSMITTEN PIPELINES COMPANY                                              |
|                         |                              | ROSENBL                                                                    |

4071 Aug 6 1964 57E 102

Phone #: 208 297 3420

QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)

☐ NELAP      ☐ Other \_\_\_\_\_

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| Date: | Time: | Relinquished by: |
| 11/2  |       |                  |

[illegible]

Project Name: TRANSUBSTEN Pipelms Company  
Roswell

Project Manager: George Robinson

On Ice: ☒ Yes ☐ No



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Received by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Received by: [Signature] Date 10/21/2010 Time 11:00

| Year | Percentage |
|------|------------|
| 1970 | 65         |
| 1975 | 70         |
| 1980 | 68         |
| 1985 | 78         |
| 1990 | 82         |

4901 Hawkins NE - Albuquerque, NM 87109  
Tel. 505-345-3975 Fax 505-345-4107  
www.hallenvironmental.com

|                     |                     |                    |       |       |         |        |                                                                            |                   |    |       |          |
|---------------------|---------------------|--------------------|-------|-------|---------|--------|----------------------------------------------------------------------------|-------------------|----|-------|----------|
| PCB + TMB S (500.1) | BE + TPH (Gas only) | 8015B (Gas/Diesel) | 418.1 | 504.1 | or PAH) | totals | 1, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) | ides / 8082 PCB's | A) | -VOA) | (Y or N) |
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[illegible][illegible][illegible]

\_\_\_\_\_

[illegible][illegible]

2000

possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

if necessary, samples submitted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

**LABORATORY REPORTS  
FOR IRRIGATION WATER SAMPLES**



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 15, 2012

Sandra Sharp

Cypress Engineering

7171 Highway 6 North

Suite 102

Houston, TX 770952422

TEL: (281) 797-3421

FAX (281) 859-1881

RE: TWP Roswell Station 9

OrderNo.: 1205104

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/2/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205104

Date Reported: 5/15/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Pre-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 4/30/2012 3:10:00 PM

**Lab ID:** 1205104-001

**Matrix:** AQUEOUS

**Received Date:** 5/2/2012 12:10:00 PM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB         |
| Benzene                            | 3,100  | 50     |      | µg/L  | 50 | 5/4/2012 12:59:39 AM |
| Toluene                            | 3,400  | 50     |      | µg/L  | 50 | 5/4/2012 12:59:39 AM |
| Ethylbenzene                       | 200    | 50     |      | µg/L  | 50 | 5/4/2012 12:59:39 AM |
| Xylenes, Total                     | 2,100  | 100    |      | µg/L  | 50 | 5/4/2012 12:59:39 AM |
| Surr: 4-Bromofluorobenzene         | 103    | 55-140 |      | %REC  | 50 | 5/4/2012 12:59:39 AM |

**Qualifiers:**

- \*/X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205104

Date Reported: 5/15/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Air Stripper

**Project:** TWP Roswell Station 9

**Collection Date:** 4/30/2012 3:10:00 PM

**Lab ID:** 1205104-002

**Matrix:** AQUEOUS

**Received Date:** 5/2/2012 12:10:00 PM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB        |
| Benzene                            | ND     | 1.0    |      | µg/L  | 1  | 5/4/2012 2:01:04 AM |
| Toluene                            | 1.3    | 1.0    |      | µg/L  | 1  | 5/4/2012 2:01:04 AM |
| Ethylbenzene                       | ND     | 1.0    |      | µg/L  | 1  | 5/4/2012 2:01:04 AM |
| Xylenes, Total                     | 2.2    | 2.0    |      | µg/L  | 1  | 5/4/2012 2:01:04 AM |
| Surr: 4-Bromofluorobenzene         | 134    | 55-140 |      | %REC  | 1  | 5/4/2012 2:01:04 AM |

**Qualifiers:**

- \* /X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205104

Date Reported: 5/15/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Between GAC's

**Project:** TWP Roswell Station 9

**Collection Date:** 4/30/2012 3:10:00 PM

**Lab ID:** 1205104-003

**Matrix:** AQUEOUS

**Received Date:** 5/2/2012 12:10:00 PM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB        |
| Benzene                            | 3.6    | 1.0    |      | µg/L  | 1  | 5/4/2012 3:02:29 AM |
| Toluene                            | ND     | 1.0    |      | µg/L  | 1  | 5/4/2012 3:02:29 AM |
| Ethylbenzene                       | ND     | 1.0    |      | µg/L  | 1  | 5/4/2012 3:02:29 AM |
| Xylenes, Total                     | ND     | 2.0    |      | µg/L  | 1  | 5/4/2012 3:02:29 AM |
| Surr: 4-Bromofluorobenzene         | 94.6   | 55-140 |      | %REC  | 1  | 5/4/2012 3:02:29 AM |

**Qualifiers:**

- \* /X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205104

Date Reported: 5/15/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 4/30/2012 3:10:00 PM

**Lab ID:** 1205104-004

**Matrix:** AQUEOUS

**Received Date:** 5/2/2012 12:10:00 PM

| Analyses                                  | Result | RL   | Qual | Units | DF | Date Analyzed        |
|-------------------------------------------|--------|------|------|-------|----|----------------------|
| <b>EPA METHOD 300.0: ANIONS</b>           |        |      |      |       |    | Analyst: <b>BRM</b>  |
| Fluoride                                  | 11     | 2.0  | *    | mg/L  | 20 | 5/2/2012 11:32:10 PM |
| Chloride                                  | 390    | 25   |      | mg/L  | 50 | 5/7/2012 2:55:44 PM  |
| Bromide                                   | 0.49   | 0.10 |      | mg/L  | 1  | 5/2/2012 10:58:28 PM |
| Phosphorus, Orthophosphate (As P)         | ND     | 10   | H    | mg/L  | 20 | 5/2/2012 11:32:10 PM |
| Sulfate                                   | 1,300  | 25   |      | mg/L  | 50 | 5/7/2012 2:55:44 PM  |
| Nitrate+Nitrite as N                      | ND     | 1.0  |      | mg/L  | 5  | 5/8/2012 5:41:12 PM  |
| <b>EPA METHOD 6010B: DISSOLVED METALS</b> |        |      |      |       |    | Analyst: <b>RAG</b>  |
| Calcium                                   | 490    | 5.0  |      | mg/L  | 5  | 5/9/2012 1:26:14 PM  |
| Magnesium                                 | 140    | 5.0  |      | mg/L  | 5  | 5/9/2012 1:26:14 PM  |
| Potassium                                 | 2.8    | 1.0  |      | mg/L  | 1  | 5/9/2012 1:24:16 PM  |
| Sodium                                    | 210    | 5.0  |      | mg/L  | 5  | 5/9/2012 1:26:14 PM  |
| <b>EPA METHOD 8260B: VOLATILES</b>        |        |      |      |       |    | Analyst: <b>JDJ</b>  |
| Benzene                                   | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Toluene                                   | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Ethylbenzene                              | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Methyl tert-butyl ether (MTBE)            | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,2,4-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,3,5-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,2-Dichloroethane (EDC)                  | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,2-Dibromoethane (EDB)                   | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Naphthalene                               | ND     | 2.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 2-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Acetone                                   | 70     | 10   |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Bromobenzene                              | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Bromodichloromethane                      | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Bromoform                                 | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Bromomethane                              | ND     | 3.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 2-Butanone                                | 20     | 10   |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Carbon disulfide                          | ND     | 10   |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Carbon Tetrachloride                      | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Chlorobenzene                             | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Chloroethane                              | ND     | 2.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Chloroform                                | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Chloromethane                             | ND     | 3.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 2-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 4-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| cis-1,2-DCE                               | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| cis-1,3-Dichloropropene                   | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,2-Dibromo-3-chloropropane               | ND     | 2.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Dibromochloromethane                      | ND     | 1.0  |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205104

Date Reported: 5/15/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 4/30/2012 3:10:00 PM

**Lab ID:** 1205104-004

**Matrix:** AQUEOUS

**Received Date:** 5/2/2012 12:10:00 PM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |          |      |       |    | Analyst: JDJ         |
| Dibromomethane                     | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,2-Dichlorobenzene                | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,3-Dichlorobenzene                | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,4-Dichlorobenzene                | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Dichlorodifluoromethane            | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,1-Dichloroethane                 | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,1-Dichloroethene                 | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,2-Dichloropropane                | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,3-Dichloropropane                | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 2,2-Dichloropropane                | ND     | 2.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,1-Dichloropropene                | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Hexachlorobutadiene                | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 2-Hexanone                         | ND     | 10       |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Isopropylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 4-Isopropyltoluene                 | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 4-Methyl-2-pentanone               | ND     | 10       |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Methylene Chloride                 | ND     | 3.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| n-Butylbenzene                     | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| n-Propylbenzene                    | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| sec-Butylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Styrene                            | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| tert-Butylbenzene                  | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Tetrachloroethene (PCE)            | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| trans-1,2-DCE                      | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| trans-1,3-Dichloropropene          | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,1,1-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,1,2-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Trichloroethene (TCE)              | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Trichlorofluoromethane             | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| 1,2,3-Trichloropropane             | ND     | 2.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Vinyl chloride                     | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Xylenes, Total                     | ND     | 1.5      |      | µg/L  | 1  | 5/4/2012 11:10:54 AM |
| Surr: 1,2-Dichloroethane-d4        | 103    | 70-130   |      | %REC  | 1  | 5/4/2012 11:10:54 AM |
| Surr: 4-Bromofluorobenzene         | 107    | 70-130   |      | %REC  | 1  | 5/4/2012 11:10:54 AM |
| Surr: Dibromofluoromethane         | 118    | 69.8-130 |      | %REC  | 1  | 5/4/2012 11:10:54 AM |
| Surr: Toluene-d8                   | 97.3   | 70-130   |      | %REC  | 1  | 5/4/2012 11:10:54 AM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205104

Date Reported: 5/15/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** TWP Roswell Station 9

**Collection Date:**

**Lab ID:** 1205104-005

**Matrix:** TRIP BLANK

**Received Date:** 5/2/2012 12:10:00 PM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|-----|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: JDJ         |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,1-Dichloroethane                 | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,1-Dichloroethene                 | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205104

Date Reported: 5/15/2012

CLIENT: Cypress Engineering

Client Sample ID: Trip Blank

Project: TWP Roswell Station 9

Collection Date:

Lab ID: 1205104-005

Matrix: TRIP BLANK

Received Date: 5/2/2012 12:10:00 PM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |          |      |       |    | Analyst: JDJ         |
| Isopropylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 4-Isopropyltoluene                 | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 4-Methyl-2-pentanone               | ND     | 10       |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Methylene Chloride                 | ND     | 3.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| n-Butylbenzene                     | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| n-Propylbenzene                    | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| sec-Butylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Styrene                            | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| tert-Butylbenzene                  | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| trans-1,2-DCE                      | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Trichloroethene (TCE)              | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Trichlorofluoromethane             | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Vinyl chloride                     | ND     | 1.0      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Xylenes, Total                     | ND     | 1.5      |      | µg/L  | 1  | 5/4/2012 12:35:52 PM |
| Surr: 1,2-Dichloroethane-d4        | 105    | 70-130   |      | %REC  | 1  | 5/4/2012 12:35:52 PM |
| Surr: 4-Bromofluorobenzene         | 98.9   | 70-130   |      | %REC  | 1  | 5/4/2012 12:35:52 PM |
| Surr: Dibromofluoromethane         | 121    | 69.8-130 |      | %REC  | 1  | 5/4/2012 12:35:52 PM |
| Surr: Toluene-d8                   | 94.8   | 70-130   |      | %REC  | 1  | 5/4/2012 12:35:52 PM |

**Qualifiers:** \*/X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205104

15-May-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                   |                                |      |                                           |             |                    |          |           |      |          |      |
|-----------------------------------|--------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>               | SampType: <b>MBLK</b>          |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b>             | Batch ID: <b>R2544</b>         |      | RunNo: <b>2544</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>5/2/2012</b> |      | SeqNo: <b>70797</b>                       |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                         | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                          | ND                             | 0.10 |                                           |             |                    |          |           |      |          |      |
| Bromide                           | ND                             | 0.10 |                                           |             |                    |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P) | ND                             | 0.50 |                                           |             |                    |          |           |      |          |      |

|                                   |                                |      |                                           |             |                    |          |           |      |          |      |
|-----------------------------------|--------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>              | SampType: <b>LCS</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b>            | Batch ID: <b>R2544</b>         |      | RunNo: <b>2544</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>5/2/2012</b> |      | SeqNo: <b>70798</b>                       |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                         | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                          | 0.47                           | 0.10 | 0.5000                                    | 0           | 93.8               | 90       | 110       |      |          |      |
| Bromide                           | 2.3                            | 0.10 | 2.500                                     | 0           | 91.3               | 90       | 110       |      |          |      |
| Phosphorus, Orthophosphate (As P) | 5.0                            | 0.50 | 5.000                                     | 0           | 99.3               | 90       | 110       |      |          |      |

|                                   |                                |      |                                           |             |                    |          |           |      |          |      |
|-----------------------------------|--------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1205075-001BMS</b>   | SampType: <b>MS</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>         | Batch ID: <b>R2544</b>         |      | RunNo: <b>2544</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>5/2/2012</b> |      | SeqNo: <b>70800</b>                       |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                         | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                          | 0.68                           | 0.10 | 0.5000                                    | 0.1911      | 98.1               | 72.9     | 113       |      |          |      |
| Bromide                           | 2.6                            | 0.10 | 2.500                                     | 0.1376      | 96.7               | 76       | 114       |      |          |      |
| Phosphorus, Orthophosphate (As P) | 5.0                            | 0.50 | 5.000                                     | 0           | 100                | 79.3     | 108       |      |          |      |

|                                   |                                |      |                                           |             |                    |          |           |      |          |      |
|-----------------------------------|--------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1205075-001BMSD</b>  | SampType: <b>MSD</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>         | Batch ID: <b>R2544</b>         |      | RunNo: <b>2544</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>5/2/2012</b> |      | SeqNo: <b>70801</b>                       |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                         | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                          | 0.65                           | 0.10 | 0.5000                                    | 0.1911      | 90.9               | 72.9     | 113       | 5.39 | 20       |      |
| Bromide                           | 2.3                            | 0.10 | 2.500                                     | 0.1376      | 86.5               | 76       | 114       | 10.5 | 20       |      |
| Phosphorus, Orthophosphate (As P) | 4.6                            | 0.50 | 5.000                                     | 0           | 91.8               | 79.3     | 108       | 8.56 | 20       |      |

|                                 |                                |      |                                           |             |                    |          |           |      |          |      |
|---------------------------------|--------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1205079-001AMS</b> | SampType: <b>MS</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R2544</b>         |      | RunNo: <b>2544</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>5/2/2012</b> |      | SeqNo: <b>70809</b>                       |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                         | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                         | 3.1                            | 0.10 | 2.500                                     | 0.6856      | 95.2               | 76       | 114       |      |          |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205104

15-May-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |                 |      |                         |             |                                    |          |             |       |          |      |
|------------|-----------------|------|-------------------------|-------------|------------------------------------|----------|-------------|-------|----------|------|
| Sample ID  | 1205079-001AMSD |      | SampType: MSD           |             | TestCode: EPA Method 300.0: Anions |          |             |       |          |      |
| Client ID: | BatchQC         |      | Batch ID: R2544         |             | RunNo: 2544                        |          |             |       |          |      |
| Prep Date: |                 |      | Analysis Date: 5/2/2012 |             | SeqNo: 70810                       |          | Units: mg/L |       |          |      |
| Analyte    | Result          | PQL  | SPK value               | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD  | RPDLimit | Qual |
| Bromide    | 3.1             | 0.10 | 2.500                   | 0.6856      | 95.4                               | 76       | 114         | 0.193 | 20       |      |

|                                  |        |                         |           |             |                                    |          |             |      |          |      |
|----------------------------------|--------|-------------------------|-----------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID                        | MB     | SampType: MBLK          |           |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID:                       | PBW    | Batch ID: R2544         |           |             | RunNo: 2544                        |          |             |      |          |      |
| Prep Date:                       |        | Analysis Date: 5/2/2012 |           |             | SeqNo: 70849                       |          | Units: mg/L |      |          |      |
| Analyte                          | Result | PQL                     | SPK value | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride                         | ND     | 0.10                    |           |             |                                    |          |             |      |          |      |
| Bromide                          | ND     | 0.10                    |           |             |                                    |          |             |      |          |      |
| Phosphorus, Orthophosphate (As P | ND     | 0.50                    |           |             |                                    |          |             |      |          |      |

|                                  |        |      |                         |             |                                    |          |             |      |          |      |
|----------------------------------|--------|------|-------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID                        | LCS    |      | SampType: LCS           |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID:                       | LCSW   |      | Batch ID: R2544         |             | RunNo: 2544                        |          |             |      |          |      |
| Prep Date:                       |        |      | Analysis Date: 5/2/2012 |             | SeqNo: 70850                       |          | Units: mg/L |      |          |      |
| Analyte                          | Result | PQL  | SPK value               | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride                         | 0.50   | 0.10 | 0.5000                  | 0           | 99.0                               | 90       | 110         |      |          |      |
| Bromide                          | 2.4    | 0.10 | 2.500                   | 0           | 96.9                               | 90       | 110         |      |          |      |
| Phosphorus, Orthophosphate (As P | 5.2    | 0.50 | 5.000                   | 0           | 103                                | 90       | 110         |      |          |      |

|                                  |                |      |                         |             |              |                                    |             |      |          |      |
|----------------------------------|----------------|------|-------------------------|-------------|--------------|------------------------------------|-------------|------|----------|------|
| Sample ID                        | 1205066-002AMS |      | SampType: MS            |             |              | TestCode: EPA Method 300.0: Anions |             |      |          |      |
| Client ID:                       | BatchQC        |      | Batch ID: R2544         |             | RunNo: 2544  |                                    |             |      |          |      |
| Prep Date:                       |                |      | Analysis Date: 5/2/2012 |             | SeqNo: 70852 |                                    | Units: mg/L |      |          |      |
| Analyte                          | Result         | PQL  | SPK value               | SPK Ref Val | %REC         | LowLimit                           | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride                         | 1.1            | 0.10 | 0.5000                  | 0.5616      | 101          | 72.9                               | 113         |      |          |      |
| Bromide                          | 2.4            | 0.10 | 2.500                   | 0           | 95.4         | 76                                 | 114         |      |          |      |
| Phosphorus, Orthophosphate (As P | 5.6            | 0.50 | 5.000                   | 0           | 111          | 79.3                               | 108         |      |          | S    |

|                                  |                 |      |                         |             |                                    |          |             |      |          |      |
|----------------------------------|-----------------|------|-------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID                        | 1205066-002AMSD |      | SampType: MSD           |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID:                       | BatchQC         |      | Batch ID: R2544         |             | RunNo: 2544                        |          |             |      |          |      |
| Prep Date:                       |                 |      | Analysis Date: 5/2/2012 |             | SeqNo: 70853                       |          | Units: mg/L |      |          |      |
| Analyte                          | Result          | PQL  | SPK value               | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride                         | 1.0             | 0.10 | 0.5000                  | 0.5616      | 93.8                               | 72.9     | 113         | 3.52 | 20       |      |
| Bromide                          | 2.1             | 0.10 | 2.500                   | 0           | 85.7                               | 76       | 114         | 10.8 | 20       |      |
| Phosphorus, Orthophosphate (As P | 4.9             | 0.50 | 5.000                   | 0           | 98.2                               | 79.3     | 108         | 12.6 | 20       |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205104

15-May-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |                |                |           |             |                          |          |           |      |          |      |
|------------|----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID  | 1205104-004BMS | SampType:      | MS        | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID: | Post-Treatment | Batch ID:      | R2544     | RunNo:      | 2544                     |          |           |      |          |      |
| Prep Date: |                | Analysis Date: | 5/2/2012  | SeqNo:      | 70858                    | Units:   | mg/L      |      |          |      |
| Analyte    | Result         | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide    | 2.9            | 0.10           | 2.500     | 0.4943      | 95.2                     | 76       | 114       |      |          |      |

|            |                 |                |           |             |                          |          |           |      |          |      |
|------------|-----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID  | 1205104-004BMSD | SampType:      | MSD       | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID: | Post-Treatment  | Batch ID:      | R2544     | RunNo:      | 2544                     |          |           |      |          |      |
| Prep Date: |                 | Analysis Date: | 5/2/2012  | SeqNo:      | 70859                    | Units:   | mg/L      |      |          |      |
| Analyte    | Result          | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide    | 2.7             | 0.10           | 2.500     | 0.4943      | 87.2                     | 76       | 114       | 7.15 | 20       |      |

|            |        |                |           |             |                          |          |           |      |          |      |
|------------|--------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID  | MB     | SampType:      | MBLK      | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID: | PBW    | Batch ID:      | R2623     | RunNo:      | 2623                     |          |           |      |          |      |
| Prep Date: |        | Analysis Date: | 5/7/2012  | SeqNo:      | 72905                    | Units:   | mg/L      |      |          |      |
| Analyte    | Result | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride   | ND     | 0.50           |           |             |                          |          |           |      |          |      |
| Sulfate    | ND     | 0.50           |           |             |                          |          |           |      |          |      |

|            |        |                |           |             |                          |          |           |      |          |      |
|------------|--------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID  | LCS    | SampType:      | LCS       | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID: | LCSW   | Batch ID:      | R2623     | RunNo:      | 2623                     |          |           |      |          |      |
| Prep Date: |        | Analysis Date: | 5/7/2012  | SeqNo:      | 72906                    | Units:   | mg/L      |      |          |      |
| Analyte    | Result | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride   | 4.6    | 0.50           | 5.000     | 0           | 92.0                     | 90       | 110       |      |          |      |
| Sulfate    | 9.3    | 0.50           | 10.00     | 0           | 93.3                     | 90       | 110       |      |          |      |

|                      |        |                |           |             |                          |          |           |      |          |      |
|----------------------|--------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID            | MB     | SampType:      | MBLK      | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID:           | PBW    | Batch ID:      | R2656     | RunNo:      | 2656                     |          |           |      |          |      |
| Prep Date:           |        | Analysis Date: | 5/8/2012  | SeqNo:      | 73779                    | Units:   | mg/L      |      |          |      |
| Analyte              | Result | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite as N | ND     | 0.20           |           |             |                          |          |           |      |          |      |

|                      |        |                |           |             |                          |          |           |      |          |      |
|----------------------|--------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID            | LCS    | SampType:      | LCS       | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID:           | LCSW   | Batch ID:      | R2656     | RunNo:      | 2656                     |          |           |      |          |      |
| Prep Date:           |        | Analysis Date: | 5/8/2012  | SeqNo:      | 73780                    | Units:   | mg/L      |      |          |      |
| Analyte              | Result | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite as N | 3.4    | 0.20           | 3.500     | 0           | 97.3                     | 90       | 110       |      |          |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
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ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205104

15-May-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                      |                |                |           |             |                          |          |           |      |          |      |
|----------------------|----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID            | 1205322-001AMS | SampType:      | MS        | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID:           | BatchQC        | Batch ID:      | R2656     | RunNo:      | 2656                     |          |           |      |          |      |
| Prep Date:           |                | Analysis Date: | 5/8/2012  | SeqNo:      | 73782                    | Units:   | mg/L      |      |          |      |
| Analyte              | Result         | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite as N | 4.6            | 0.20           | 3.500     | 1.444       | 90.3                     | 83.9     | 112       |      |          |      |

|                      |                 |                |           |             |                          |          |           |      |          |      |
|----------------------|-----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID            | 1205322-001AMSD | SampType:      | MSD       | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID:           | BatchQC         | Batch ID:      | R2656     | RunNo:      | 2656                     |          |           |      |          |      |
| Prep Date:           |                 | Analysis Date: | 5/8/2012  | SeqNo:      | 73783                    | Units:   | mg/L      |      |          |      |
| Analyte              | Result          | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite as N | 4.5             | 0.20           | 3.500     | 1.444       | 86.3                     | 83.9     | 112       | 3.16 | 20       |      |

|                      |        |                |           |             |                          |          |           |      |          |      |
|----------------------|--------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID            | MB     | SampType:      | MBLK      | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID:           | PBW    | Batch ID:      | R2656     | RunNo:      | 2656                     |          |           |      |          |      |
| Prep Date:           |        | Analysis Date: | 5/8/2012  | SeqNo:      | 73836                    | Units:   | mg/L      |      |          |      |
| Analyte              | Result | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite as N | ND     | 0.20           |           |             |                          |          |           |      |          |      |

|                      |        |                |           |             |                          |          |           |      |          |      |
|----------------------|--------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID            | LCS    | SampType:      | LCS       | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID:           | LCSW   | Batch ID:      | R2656     | RunNo:      | 2656                     |          |           |      |          |      |
| Prep Date:           |        | Analysis Date: | 5/8/2012  | SeqNo:      | 73837                    | Units:   | mg/L      |      |          |      |
| Analyte              | Result | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite as N | 3.4    | 0.20           | 3.500     | 0           | 97.6                     | 90       | 110       |      |          |      |

|                      |                |                |           |             |                          |          |           |      |          |      |
|----------------------|----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID            | 1205383-003AMS | SampType:      | MS        | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID:           | BatchQC        | Batch ID:      | R2656     | RunNo:      | 2656                     |          |           |      |          |      |
| Prep Date:           |                | Analysis Date: | 5/9/2012  | SeqNo:      | 73857                    | Units:   | mg/L      |      |          |      |
| Analyte              | Result         | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite as N | 3.4            | 0.20           | 3.500     | 0.1548      | 93.9                     | 83.9     | 112       |      |          |      |

|                      |                 |                |           |             |                          |          |           |       |          |      |
|----------------------|-----------------|----------------|-----------|-------------|--------------------------|----------|-----------|-------|----------|------|
| Sample ID            | 1205383-003AMSD | SampType:      | MSD       | TestCode:   | EPA Method 300.0: Anions |          |           |       |          |      |
| Client ID:           | BatchQC         | Batch ID:      | R2656     | RunNo:      | 2656                     |          |           |       |          |      |
| Prep Date:           |                 | Analysis Date: | 5/9/2012  | SeqNo:      | 73858                    | Units:   | mg/L      |       |          |      |
| Analyte              | Result          | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Nitrate+Nitrite as N | 3.5             | 0.20           | 3.500     | 0.1548      | 94.6                     | 83.9     | 112       | 0.784 | 20       |      |

### Qualifiers:

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RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205104

15-May-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                            |                                |     |                                              |             |                    |          |           |      |          |      |
|----------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>5ML RB</b>    | SampType: <b>MBLK</b>          |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b>      | Batch ID: <b>R2566</b>         |     | RunNo: <b>2566</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>5/3/2012</b> |     | SeqNo: <b>71545</b>                          |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                    | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | ND                             | 1.0 |                                              |             |                    |          |           |      |          |      |
| Toluene                    | ND                             | 1.0 |                                              |             |                    |          |           |      |          |      |
| Ethylbenzene               | ND                             | 1.0 |                                              |             |                    |          |           |      |          |      |
| Xylenes, Total             | ND                             | 2.0 |                                              |             |                    |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 23                             |     | 20.00                                        |             | 113                | 55       | 140       |      |          |      |

|                                 |                                |     |                                              |             |                    |          |           |      |          |      |
|---------------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>100NG BTEX LCS</b> | SampType: <b>LCS</b>           |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b>          | Batch ID: <b>R2566</b>         |     | RunNo: <b>2566</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>5/3/2012</b> |     | SeqNo: <b>71546</b>                          |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 21                             | 1.0 | 20.00                                        | 0           | 105                | 80       | 120       |      |          |      |
| Toluene                         | 21                             | 1.0 | 20.00                                        | 0           | 103                | 80       | 120       |      |          |      |
| Ethylbenzene                    | 20                             | 1.0 | 20.00                                        | 0           | 102                | 80       | 120       |      |          |      |
| Xylenes, Total                  | 61                             | 2.0 | 60.00                                        | 0           | 101                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 20                             |     | 20.00                                        |             | 99.4               | 55       | 140       |      |          |      |

|                                 |                                |     |                                              |             |                    |          |           |      |          |      |
|---------------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1205152-002AMS</b> | SampType: <b>MS</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R2566</b>         |     | RunNo: <b>2566</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>5/3/2012</b> |     | SeqNo: <b>71550</b>                          |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 110                            | 5.0 | 100.0                                        | 12.90       | 94.9               | 70.1     | 118       |      |          |      |
| Toluene                         | 110                            | 5.0 | 100.0                                        | 1.740       | 105                | 72.3     | 117       |      |          |      |
| Ethylbenzene                    | 110                            | 5.0 | 100.0                                        | 1.980       | 105                | 73.5     | 117       |      |          |      |
| Xylenes, Total                  | 320                            | 10  | 300.0                                        | 5.880       | 105                | 73.1     | 119       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 100                            |     | 100.0                                        |             | 103                | 55       | 140       |      |          |      |

|                                  |                                |     |                                              |             |                    |          |           |       |          |      |
|----------------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Sample ID <b>1205152-002AMSD</b> | SampType: <b>MSD</b>           |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |       |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R2566</b>         |     | RunNo: <b>2566</b>                           |             |                    |          |           |       |          |      |
| Prep Date:                       | Analysis Date: <b>5/3/2012</b> |     | SeqNo: <b>71551</b>                          |             | Units: <b>µg/L</b> |          |           |       |          |      |
| Analyte                          | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                          | 110                            | 5.0 | 100.0                                        | 12.90       | 93.8               | 70.1     | 118       | 1.02  | 16.4     |      |
| Toluene                          | 110                            | 5.0 | 100.0                                        | 1.740       | 105                | 72.3     | 117       | 0.169 | 13.9     |      |
| Ethylbenzene                     | 110                            | 5.0 | 100.0                                        | 1.980       | 104                | 73.5     | 117       | 0.887 | 13.5     |      |
| Xylenes, Total                   | 320                            | 10  | 300.0                                        | 5.880       | 104                | 73.1     | 119       | 0.672 | 12.9     |      |
| Surr: 4-Bromofluorobenzene       | 140                            |     | 100.0                                        |             | 137                | 55       | 140       | 0     | 0        |      |

### Qualifiers:

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ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205104

15-May-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>b4</b>            | SampType: <b>MBLK</b>          |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|--------------------------------|--------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>          | Batch ID: <b>R2595</b>         |     |           | RunNo: <b>2595</b>                           |      |                    |           |      |          |      |
| Prep Date:                     | Analysis Date: <b>5/4/2012</b> |     |           | SeqNo: <b>72198</b>                          |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                        | Result                         | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Toluene                        | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Ethylbenzene                   | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Naphthalene                    | ND                             | 2.0 |           |                                              |      |                    |           |      |          |      |
| 1-Methylnaphthalene            | ND                             | 4.0 |           |                                              |      |                    |           |      |          |      |
| 2-Methylnaphthalene            | ND                             | 4.0 |           |                                              |      |                    |           |      |          |      |
| Acetone                        | ND                             | 10  |           |                                              |      |                    |           |      |          |      |
| Bromobenzene                   | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Bromodichloromethane           | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Bromoform                      | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Bromomethane                   | ND                             | 3.0 |           |                                              |      |                    |           |      |          |      |
| 2-Butanone                     | ND                             | 10  |           |                                              |      |                    |           |      |          |      |
| Carbon disulfide               | ND                             | 10  |           |                                              |      |                    |           |      |          |      |
| Carbon Tetrachloride           | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Chlorobenzene                  | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Chloroethane                   | ND                             | 2.0 |           |                                              |      |                    |           |      |          |      |
| Chloroform                     | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Chloromethane                  | ND                             | 3.0 |           |                                              |      |                    |           |      |          |      |
| 2-Chlorotoluene                | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Chlorotoluene                | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| cis-1,2-DCE                    | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| cis-1,3-Dichloropropene        | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND                             | 2.0 |           |                                              |      |                    |           |      |          |      |
| Dibromochloromethane           | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Dibromomethane                 | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dichlorobenzene            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,3-Dichlorobenzene            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,4-Dichlorobenzene            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Dichlorodifluoromethane        | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1-Dichloroethane             | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1-Dichloroethene             | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dichloropropane            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,3-Dichloropropane            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 2,2-Dichloropropane            | ND                             | 2.0 |           |                                              |      |                    |           |      |          |      |
| 1,1-Dichloropropene            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Hexachlorobutadiene            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |

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RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205104

15-May-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>b4</b>         | SampType: <b>MBLK</b>          |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|--------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>       | Batch ID: <b>R2595</b>         |     |           | RunNo: <b>2595</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>5/4/2012</b> |     |           | SeqNo: <b>72198</b>                          |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| 2-Hexanone                  | ND                             | 10  |           |                                              |      |                    |           |      |          |      |
| Isopropylbenzene            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Isopropyltoluene          | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Methyl-2-pentanone        | ND                             | 10  |           |                                              |      |                    |           |      |          |      |
| Methylene Chloride          | ND                             | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Butylbenzene              | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| n-Propylbenzene             | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| sec-Butylbenzene            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Styrene                     | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| tert-Butylbenzene           | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND                             | 2.0 |           |                                              |      |                    |           |      |          |      |
| Tetrachloroethene (PCE)     | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,2-DCE               | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,3-Dichloropropene   | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1-Trichloroethane       | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2-Trichloroethane       | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichloroethene (TCE)       | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichlorofluoromethane      | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichloropropane      | ND                             | 2.0 |           |                                              |      |                    |           |      |          |      |
| Vinyl chloride              | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Xylenes, Total              | ND                             | 1.5 |           |                                              |      |                    |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 10                             |     | 10.00     |                                              | 103  | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.8                            |     | 10.00     |                                              | 98.1 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 12                             |     | 10.00     |                                              | 122  | 69.8               | 130       |      |          |      |
| Surr: Toluene-d8            | 9.5                            |     | 10.00     |                                              | 95.0 | 70                 | 130       |      |          |      |

| Sample ID <b>100ng lcs</b>  | SampType: <b>LCS</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|--------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>R2595</b>         |     |           | RunNo: <b>2595</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>5/4/2012</b> |     |           | SeqNo: <b>72199</b>                          |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 23                             | 1.0 | 20.00     | 0                                            | 114  | 84.1               | 126       |      |          |      |
| Toluene                     | 23                             | 1.0 | 20.00     | 0                                            | 113  | 80                 | 120       |      |          |      |
| Chlorobenzene               | 22                             | 1.0 | 20.00     | 0                                            | 112  | 70                 | 130       |      |          |      |
| 1,1-Dichloroethene          | 21                             | 1.0 | 20.00     | 0                                            | 103  | 83                 | 130       |      |          |      |
| Trichloroethene (TCE)       | 21                             | 1.0 | 20.00     | 0                                            | 106  | 76.2               | 119       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.8                            |     | 10.00     |                                              | 98.3 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11                             |     | 10.00     |                                              | 107  | 70                 | 130       |      |          |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205104

15-May-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                            |                                |     |                                              |             |                    |          |           |      |          |      |
|----------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>100ng lcs</b> | SampType: <b>LCS</b>           |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b>     | Batch ID: <b>R2595</b>         |     | RunNo: <b>2595</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>5/4/2012</b> |     | SeqNo: <b>72199</b>                          |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                    | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: Dibromofluoromethane | 12                             |     | 10.00                                        |             | 121                | 69.8     | 130       |      |          |      |
| Surr: Toluene-d8           | 11                             |     | 10.00                                        |             | 108                | 70       | 130       |      |          |      |

|                                  |                                |     |                                              |             |                    |          |           |      |          |      |
|----------------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1205104-004AMS</b>  | SampType: <b>MS</b>            |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
| Client ID: <b>Post-Treatment</b> | Batch ID: <b>R2595</b>         |     | RunNo: <b>2595</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>5/4/2012</b> |     | SeqNo: <b>72202</b>                          |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                          | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 23                             | 1.0 | 20.00                                        | 0.2760      | 116                | 71.1     | 135       |      |          |      |
| Toluene                          | 21                             | 1.0 | 20.00                                        | 0           | 105                | 74       | 121       |      |          |      |
| Chlorobenzene                    | 21                             | 1.0 | 20.00                                        | 0           | 103                | 70       | 130       |      |          |      |
| 1,1-Dichloroethene               | 22                             | 1.0 | 20.00                                        | 0           | 109                | 76.3     | 127       |      |          |      |
| Trichloroethene (TCE)            | 21                             | 1.0 | 20.00                                        | 0           | 104                | 70       | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 10                             |     | 10.00                                        |             | 101                | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 9.9                            |     | 10.00                                        |             | 99.3               | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 12                             |     | 10.00                                        |             | 123                | 69.8     | 130       |      |          |      |
| Surr: Toluene-d8                 | 10                             |     | 10.00                                        |             | 103                | 70       | 130       |      |          |      |

|                                  |                                |     |                                              |             |                    |          |           |      |          |      |
|----------------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1205104-004AMSD</b> | SampType: <b>MSD</b>           |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
| Client ID: <b>Post-Treatment</b> | Batch ID: <b>R2595</b>         |     | RunNo: <b>2595</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>5/4/2012</b> |     | SeqNo: <b>72203</b>                          |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                          | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 22                             | 1.0 | 20.00                                        | 0.2760      | 107                | 71.1     | 135       | 8.03 | 21.9     |      |
| Toluene                          | 21                             | 1.0 | 20.00                                        | 0           | 107                | 74       | 121       | 2.44 | 18.5     |      |
| Chlorobenzene                    | 21                             | 1.0 | 20.00                                        | 0           | 107                | 70       | 130       | 3.53 | 17.7     |      |
| 1,1-Dichloroethene               | 20                             | 1.0 | 20.00                                        | 0           | 100                | 76.3     | 127       | 7.99 | 16.5     |      |
| Trichloroethene (TCE)            | 20                             | 1.0 | 20.00                                        | 0           | 102                | 70       | 130       | 2.39 | 18.9     |      |
| Surr: 1,2-Dichloroethane-d4      | 9.9                            |     | 10.00                                        |             | 99.2               | 70       | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene       | 9.6                            |     | 10.00                                        |             | 95.9               | 70       | 130       | 0    | 0        |      |
| Surr: Dibromofluoromethane       | 12                             |     | 10.00                                        |             | 124                | 69.8     | 130       | 0    | 0        |      |
| Surr: Toluene-d8                 | 10                             |     | 10.00                                        |             | 105                | 70       | 130       | 0    | 0        |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205104

15-May-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                       |                                |     |           |                                                     |      |                    |           |      |          |      |
|-----------------------|--------------------------------|-----|-----------|-----------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>          |     |           | TestCode: <b>EPA Method 6010B: Dissolved Metals</b> |      |                    |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R2663</b>         |     |           | RunNo: <b>2663</b>                                  |      |                    |           |      |          |      |
| Prep Date:            | Analysis Date: <b>5/9/2012</b> |     |           | SeqNo: <b>73991</b>                                 |      | Units: <b>mg/L</b> |           |      |          |      |
| Analyte               | Result                         | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Calcium               | ND                             | 1.0 |           |                                                     |      |                    |           |      |          |      |
| Magnesium             | ND                             | 1.0 |           |                                                     |      |                    |           |      |          |      |
| Potassium             | ND                             | 1.0 |           |                                                     |      |                    |           |      |          |      |
| Sodium                | ND                             | 1.0 |           |                                                     |      |                    |           |      |          |      |

|                        |                                |     |           |                                                     |      |                    |           |      |          |      |
|------------------------|--------------------------------|-----|-----------|-----------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>           |     |           | TestCode: <b>EPA Method 6010B: Dissolved Metals</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R2663</b>         |     |           | RunNo: <b>2663</b>                                  |      |                    |           |      |          |      |
| Prep Date:             | Analysis Date: <b>5/9/2012</b> |     |           | SeqNo: <b>73992</b>                                 |      | Units: <b>mg/L</b> |           |      |          |      |
| Analyte                | Result                         | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Calcium                | 50                             | 1.0 | 50.00     | 0                                                   | 99.3 | 80                 | 120       |      |          |      |
| Magnesium              | 49                             | 1.0 | 50.00     | 0                                                   | 97.9 | 80                 | 120       |      |          |      |
| Potassium              | 48                             | 1.0 | 50.00     | 0                                                   | 95.8 | 80                 | 120       |      |          |      |
| Sodium                 | 48                             | 1.0 | 50.00     | 0                                                   | 96.3 | 80                 | 120       |      |          |      |

### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# Sample Log-In Check List

|                                      |                                |
|--------------------------------------|--------------------------------|
| Client Name: CYP                     | Work Order Number: 1205104     |
| Received by/date: <i>LM</i> 05/02/12 |                                |
| Logged By: Ashley Gallegos           | 5/2/2012 12:10:00 PM <i>AG</i> |
| Completed By: Ashley Gallegos        | 5/2/2012 1:23:42 PM <i>AG</i>  |
| Reviewed By: <i>MS/NG</i> 05/02/12   |                                |

## Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

## Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: 2  
(<2 or >12 unless noted)  
Adjusted? —  
Checked by: *[Signature]*

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

|                      |       |       |                                                                                                                               |
|----------------------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------|
| Person Notified:     | _____ | Date: | _____                                                                                                                         |
| By Whom:             | _____ | Via:  | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | _____ |       |                                                                                                                               |
| Client Instructions: | _____ |       |                                                                                                                               |

18. Additional remarks:

## 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 2.3     | Good      | Yes         |         |           |           |



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

4901 Hawkins NE - Albuquerque, NM 87109

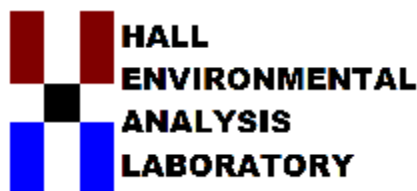
Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

| Date     |       | Time             | Matrix           | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX + MTBE + TMBs (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) | Major Cations | Na, Ca, K, Mg | By: 6010 e | *Field Filtered |
|----------|-------|------------------|------------------|-------------------|----------------------|-------------------|----------|---------------------------|--|------------------------------|-------------------------------|--------------------|--------------------|-------------------|---------------|----------------------------------------------------------------------------------------|------------------------------|-------------|-----------------|---------------|---------------|------------|-----------------|
| 04/29/12 | 15:10 | H <sub>2</sub> O | Pre-Treatment    | 5x400L Vials      | HEAL No. 1205104     |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          | ↓     | ↓                | Post Air Striper | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          | ↓     | ↓                | Between Cocks    | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
| 04/29/12 | 15:10 | H <sub>2</sub> O | Post-Treatment   | 3x400L Vials      | HEAL No. -001        | HCl               |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |
|          |       |                  |                  | ↓                 |                      |                   |          |                           |  |                              |                               |                    |                    |                   |               |                                                                                        |                              |             |                 |               |               |            |                 |

|                                                                                                                     |                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <p>If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.</p> | <p>This serves as notice of this possibility. Any subcontracted data will be clearly identified.</p> |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 20, 2012

Sandra Sharp

Cypress Engineering

7171 Highway 6 North

Suite 102

Houston, TX 770952422

TEL: (281) 797-3421

FAX (281) 859-1881

RE: TWP Roswell Station 9

OrderNo.: 1206203

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/6/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206203

Date Reported: 6/20/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Pre-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 6/5/2012 1:00:00 PM

**Lab ID:** 1206203-001

**Matrix:** AQUEOUS

**Received Date:** 6/6/2012 10:00:00 AM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB        |
| Benzene                            | 2600   | 50     |      | µg/L  | 50 | 6/9/2012 7:07:20 AM |
| Toluene                            | 3900   | 50     |      | µg/L  | 50 | 6/9/2012 7:07:20 AM |
| Ethylbenzene                       | 220    | 50     |      | µg/L  | 50 | 6/9/2012 7:07:20 AM |
| Xylenes, Total                     | 2200   | 100    |      | µg/L  | 50 | 6/9/2012 7:07:20 AM |
| Surr: 4-Bromofluorobenzene         | 98.5   | 55-140 |      | %REC  | 50 | 6/9/2012 7:07:20 AM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206203

Date Reported: 6/20/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Air Stripper

**Project:** TWP Roswell Station 9

**Collection Date:** 6/5/2012 1:00:00 PM

**Lab ID:** 1206203-002

**Matrix:** AQUEOUS

**Received Date:** 6/6/2012 10:00:00 AM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB         |
| Benzene                            | ND     | 1.0    |      | µg/L  | 1  | 6/11/2012 1:13:29 PM |
| Toluene                            | 1.0    | 1.0    |      | µg/L  | 1  | 6/11/2012 1:13:29 PM |
| Ethylbenzene                       | ND     | 1.0    |      | µg/L  | 1  | 6/11/2012 1:13:29 PM |
| Xylenes, Total                     | ND     | 2.0    |      | µg/L  | 1  | 6/11/2012 1:13:29 PM |
| Surr: 4-Bromofluorobenzene         | 118    | 55-140 |      | %REC  | 1  | 6/11/2012 1:13:29 PM |

**Qualifiers:**

|       |                                                 |
|-------|-------------------------------------------------|
| * / X | Value exceeds Maximum Contaminant Level.        |
| E     | Value above quantitation range                  |
| J     | Analyte detected below quantitation limits      |
| R     | RPD outside accepted recovery limits            |
| S     | Spike Recovery outside accepted recovery limits |

|    |                                                    |
|----|----------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    |
| H  | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit                |
| RL | Reporting Detection Limit                          |
| U  | Samples with CalcVal < MDL                         |

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206203

Date Reported: 6/20/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Between GAC's

**Project:** TWP Roswell Station 9

**Collection Date:** 6/5/2012 1:00:00 PM

**Lab ID:** 1206203-003

**Matrix:** AQUEOUS

**Received Date:** 6/6/2012 10:00:00 AM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB         |
| Benzene                            | 3.9    | 1.0    |      | µg/L  | 1  | 6/11/2012 1:44:04 PM |
| Toluene                            | ND     | 1.0    |      | µg/L  | 1  | 6/11/2012 1:44:04 PM |
| Ethylbenzene                       | ND     | 1.0    |      | µg/L  | 1  | 6/11/2012 1:44:04 PM |
| Xylenes, Total                     | ND     | 2.0    |      | µg/L  | 1  | 6/11/2012 1:44:04 PM |
| Surr: 4-Bromofluorobenzene         | 87.2   | 55-140 |      | %REC  | 1  | 6/11/2012 1:44:04 PM |

**Qualifiers:**

- \* /X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206203

Date Reported: 6/20/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 6/5/2012 1:00:00 PM

**Lab ID:** 1206203-004

**Matrix:** AQUEOUS

**Received Date:** 6/6/2012 10:00:00 AM

| Analyses                                  | Result | RL   | Qual | Units | DF | Date Analyzed         |
|-------------------------------------------|--------|------|------|-------|----|-----------------------|
| <b>EPA METHOD 300.0: ANIONS</b>           |        |      |      |       |    | Analyst: <b>BRM</b>   |
| Fluoride                                  | 5.5    | 5.0  | *    | mg/L  | 50 | 6/13/2012 1:32:32 AM  |
| Chloride                                  | 370    | 25   |      | mg/L  | 50 | 6/13/2012 1:32:32 AM  |
| Bromide                                   | 0.40   | 0.10 |      | mg/L  | 1  | 6/6/2012 7:40:51 PM   |
| Phosphorus, Orthophosphate (As P)         | ND     | 10   |      | mg/L  | 20 | 6/6/2012 7:52:05 PM   |
| Sulfate                                   | 1300   | 25   |      | mg/L  | 50 | 6/13/2012 1:32:32 AM  |
| Nitrate+Nitrite as N                      | ND     | 1.0  |      | mg/L  | 5  | 6/13/2012 2:59:26 AM  |
| <b>EPA METHOD 6010B: DISSOLVED METALS</b> |        |      |      |       |    | Analyst: <b>JLF</b>   |
| Calcium                                   | 490    | 5.0  |      | mg/L  | 5  | 6/11/2012 5:31:34 PM  |
| Magnesium                                 | 130    | 5.0  |      | mg/L  | 5  | 6/11/2012 5:31:34 PM  |
| Potassium                                 | 3.0    | 1.0  |      | mg/L  | 1  | 6/13/2012 11:52:38 AM |
| Sodium                                    | 200    | 5.0  |      | mg/L  | 5  | 6/11/2012 5:31:34 PM  |
| <b>EPA METHOD 8260B: VOLATILES</b>        |        |      |      |       |    | Analyst: <b>JDJ</b>   |
| Benzene                                   | 1.2    | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Toluene                                   | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Ethylbenzene                              | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Methyl tert-butyl ether (MTBE)            | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| 1,2,4-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| 1,3,5-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| 1,2-Dichloroethane (EDC)                  | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| 1,2-Dibromoethane (EDB)                   | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Naphthalene                               | ND     | 2.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| 1-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| 2-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Acetone                                   | 43     | 10   |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Bromobenzene                              | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Bromodichloromethane                      | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Bromoform                                 | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Bromomethane                              | ND     | 3.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| 2-Butanone                                | 24     | 10   |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Carbon disulfide                          | ND     | 10   |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Carbon Tetrachloride                      | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Chlorobenzene                             | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Chloroethane                              | ND     | 2.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Chloroform                                | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Chloromethane                             | ND     | 3.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| 2-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| 4-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| cis-1,2-DCE                               | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| cis-1,3-Dichloropropene                   | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| 1,2-Dibromo-3-chloropropane               | ND     | 2.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |
| Dibromochloromethane                      | ND     | 1.0  |      | µg/L  | 1  | 6/8/2012 5:16:42 AM   |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206203

Date Reported: 6/20/2012

CLIENT: Cypress Engineering

Client Sample ID: Post-Treatment

Project: TWP Roswell Station 9

Collection Date: 6/5/2012 1:00:00 PM

Lab ID: 1206203-004

Matrix: AQUEOUS

Received Date: 6/6/2012 10:00:00 AM

| Analyses                    | Result | RL       | Qual | Units | DF | Date Analyzed       |
|-----------------------------|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8260B: VOLATILES |        |          |      |       |    | Analyst: JDJ        |
| Dibromomethane              | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,2-Dichlorobenzene         | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,3-Dichlorobenzene         | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,4-Dichlorobenzene         | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| Dichlorodifluoromethane     | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,1-Dichloroethane          | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,1-Dichloroethene          | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,2-Dichloropropane         | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,3-Dichloropropane         | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 2,2-Dichloropropane         | ND     | 2.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,1-Dichloropropene         | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| Hexachlorobutadiene         | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 2-Hexanone                  | ND     | 10       |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| Isopropylbenzene            | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 4-Isopropyltoluene          | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 4-Methyl-2-pentanone        | ND     | 10       |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| Methylene Chloride          | ND     | 3.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| n-Butylbenzene              | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| n-Propylbenzene             | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| sec-Butylbenzene            | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| Styrene                     | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| tert-Butylbenzene           | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,1,1,2-Tetrachloroethane   | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,1,2,2-Tetrachloroethane   | ND     | 2.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| Tetrachloroethene (PCE)     | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| trans-1,2-DCE               | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| trans-1,3-Dichloropropene   | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,2,3-Trichlorobenzene      | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,2,4-Trichlorobenzene      | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,1,1-Trichloroethane       | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,1,2-Trichloroethane       | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| Trichloroethene (TCE)       | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| Trichlorofluoromethane      | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| 1,2,3-Trichloropropane      | ND     | 2.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| Vinyl chloride              | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| Xylenes, Total              | ND     | 1.5      |      | µg/L  | 1  | 6/8/2012 5:16:42 AM |
| Surr: 1,2-Dichloroethane-d4 | 102    | 70-130   |      | %REC  | 1  | 6/8/2012 5:16:42 AM |
| Surr: 4-Bromofluorobenzene  | 98.7   | 70-130   |      | %REC  | 1  | 6/8/2012 5:16:42 AM |
| Surr: Dibromofluoromethane  | 84.4   | 69.8-130 |      | %REC  | 1  | 6/8/2012 5:16:42 AM |
| Surr: Toluene-d8            | 99.1   | 70-130   |      | %REC  | 1  | 6/8/2012 5:16:42 AM |

**Qualifiers:** \*/X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
U Samples with CalcVal < MDL



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206203

Date Reported: 6/20/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** TWP Roswell Station 9

**Collection Date:**

**Lab ID:** 1206203-005

**Matrix:** TRIP BLANK

**Received Date:** 6/6/2012 10:00:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|-----|------|-------|----|---------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: JDJ        |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,1-Dichloroethane                 | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,1-Dichloroethene                 | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206203

Date Reported: 6/20/2012

CLIENT: Cypress Engineering

Client Sample ID: Trip Blank

Project: TWP Roswell Station 9

Collection Date:

Lab ID: 1206203-005

Matrix: TRIP BLANK

Received Date: 6/6/2012 10:00:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |          |      |       |    | Analyst: JDJ        |
| Isopropylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 4-Isopropyltoluene                 | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 4-Methyl-2-pentanone               | ND     | 10       |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Methylene Chloride                 | ND     | 3.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| n-Butylbenzene                     | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| n-Propylbenzene                    | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| sec-Butylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Styrene                            | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| tert-Butylbenzene                  | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Tetrachloroethene (PCE)            | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| trans-1,2-DCE                      | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| trans-1,3-Dichloropropene          | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,1,1-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,1,2-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Trichloroethene (TCE)              | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Trichlorofluoromethane             | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| 1,2,3-Trichloropropane             | ND     | 2.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Vinyl chloride                     | ND     | 1.0      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Xylenes, Total                     | ND     | 1.5      |      | µg/L  | 1  | 6/8/2012 5:46:58 AM |
| Surr: 1,2-Dichloroethane-d4        | 103    | 70-130   |      | %REC  | 1  | 6/8/2012 5:46:58 AM |
| Surr: 4-Bromofluorobenzene         | 108    | 70-130   |      | %REC  | 1  | 6/8/2012 5:46:58 AM |
| Surr: Dibromofluoromethane         | 86.6   | 69.8-130 |      | %REC  | 1  | 6/8/2012 5:46:58 AM |
| Surr: Toluene-d8                   | 100    | 70-130   |      | %REC  | 1  | 6/8/2012 5:46:58 AM |

**Qualifiers:** \* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
U Samples with CalcVal < MDL

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206203

20-Jun-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                  |                                |      |                                           |             |                    |          |           |      |          |      |
|----------------------------------|--------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>              | SampType: <b>MBLK</b>          |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b>            | Batch ID: <b>R3271</b>         |      | RunNo: <b>3271</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>6/6/2012</b> |      | SeqNo: <b>90838</b>                       |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                         | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                          | ND                             | 0.10 |                                           |             |                    |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P | ND                             | 0.50 |                                           |             |                    |          |           |      |          |      |

|                                  |                                |      |                                           |             |                    |          |           |      |          |      |
|----------------------------------|--------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>             | SampType: <b>LCS</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b>           | Batch ID: <b>R3271</b>         |      | RunNo: <b>3271</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>6/6/2012</b> |      | SeqNo: <b>90839</b>                       |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                         | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                          | 2.4                            | 0.10 | 2.500                                     | 0           | 97.9               | 90       | 110       |      |          |      |
| Phosphorus, Orthophosphate (As P | 5.0                            | 0.50 | 5.000                                     | 0           | 100                | 90       | 110       |      |          |      |

|                                  |                                |      |                                           |             |                    |          |           |      |          |      |
|----------------------------------|--------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1206202-001BMS</b>  | SampType: <b>MS</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R3271</b>         |      | RunNo: <b>3271</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>6/6/2012</b> |      | SeqNo: <b>90841</b>                       |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                         | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                          | 3.3                            | 0.10 | 2.500                                     | 0.7717      | 101                | 76       | 114       |      |          |      |
| Phosphorus, Orthophosphate (As P | 5.2                            | 0.50 | 5.000                                     | 0           | 104                | 79.3     | 108       |      |          |      |

|                                  |                                |      |                                           |             |                    |          |           |      |          |      |
|----------------------------------|--------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1206202-001BMSD</b> | SampType: <b>MSD</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R3271</b>         |      | RunNo: <b>3271</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>6/6/2012</b> |      | SeqNo: <b>90842</b>                       |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                         | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                          | 2.9                            | 0.10 | 2.500                                     | 0.7717      | 87.0               | 76       | 114       | 11.4 | 20       |      |
| Phosphorus, Orthophosphate (As P | 4.4                            | 0.50 | 5.000                                     | 0           | 88.2               | 79.3     | 108       | 16.3 | 20       |      |

|                       |                                 |      |                                           |             |                    |          |           |      |          |      |
|-----------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R3388</b>          |      | RunNo: <b>3388</b>                        |             |                    |          |           |      |          |      |
| Prep Date:            | Analysis Date: <b>6/12/2012</b> |      | SeqNo: <b>94736</b>                       |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte               | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride              | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Chloride              | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |
| Sulfate               | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |
| Nitrate+Nitrite as N  | ND                              | 0.20 |                                           |             |                    |          |           |      |          |      |

|                        |                                 |     |                                           |             |                    |          |           |      |          |      |
|------------------------|---------------------------------|-----|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R3388</b>          |     | RunNo: <b>3388</b>                        |             |                    |          |           |      |          |      |
| Prep Date:             | Analysis Date: <b>6/12/2012</b> |     | SeqNo: <b>94737</b>                       |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                | Result                          | PQL | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206203

20-Jun-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                      |        |      |                          |             |                                    |          |             |      |          |      |
|----------------------|--------|------|--------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID            | LCS    |      | SampType: LCS            |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID:           | LCSW   |      | Batch ID: R3388          |             | RunNo: 3388                        |          |             |      |          |      |
| Prep Date:           |        |      | Analysis Date: 6/12/2012 |             | SeqNo: 94737                       |          | Units: mg/L |      |          |      |
| Analyte              | Result | PQL  | SPK value                | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride             | 0.51   | 0.10 | 0.5000                   | 0           | 101                                | 90       | 110         |      |          |      |
| Chloride             | 4.8    | 0.50 | 5.000                    | 0           | 96.8                               | 90       | 110         |      |          |      |
| Sulfate              | 9.6    | 0.50 | 10.00                    | 0           | 96.4                               | 90       | 110         |      |          |      |
| Nitrate+Nitrite as N | 3.5    | 0.20 | 3.500                    | 0           | 99.6                               | 90       | 110         |      |          |      |

|                      |                |      |           |                |           |          |           |                          |          |        |      |
|----------------------|----------------|------|-----------|----------------|-----------|----------|-----------|--------------------------|----------|--------|------|
| Sample ID            | 1206463-002BMS |      |           | SampType:      | MS        |          | TestCode: | EPA Method 300.0: Anions |          |        |      |
| Client ID:           | BatchQC        |      |           | Batch ID:      | R3388     |          | RunNo:    | 3388                     |          |        |      |
| Prep Date:           |                |      |           | Analysis Date: | 6/12/2012 |          | SeqNo:    | 94739                    |          | Units: | mg/L |
| Analyte              | Result         | PQL  | SPK value | SPK Ref Val    | %REC      | LowLimit | HighLimit | %RPD                     | RPDLimit | Qual   |      |
| Fluoride             | 0.62           | 0.10 | 0.5000    | 0.1724         | 89.5      | 76.6     | 110       |                          |          |        |      |
| Nitrate+Nitrite as N | 5.8            | 0.20 | 3.500     | 2.360          | 98.7      | 88.6     | 110       |                          |          |        |      |

|                      |                 |      |           |                |           |          |           |                          |          |        |      |
|----------------------|-----------------|------|-----------|----------------|-----------|----------|-----------|--------------------------|----------|--------|------|
| Sample ID            | 1206463-002BMSD |      |           | SampType:      | MSD       |          | TestCode: | EPA Method 300.0: Anions |          |        |      |
| Client ID:           | BatchQC         |      |           | Batch ID:      | R3388     |          | RunNo:    | 3388                     |          |        |      |
| Prep Date:           |                 |      |           | Analysis Date: | 6/12/2012 |          | SeqNo:    | 94740                    |          | Units: | mg/L |
| Analyte              | Result          | PQL  | SPK value | SPK Ref Val    | %REC      | LowLimit | HighLimit | %RPD                     | RPDLimit | Qual   |      |
| Fluoride             | 0.65            | 0.10 | 0.5000    | 0.1724         | 95.6      | 76.6     | 110       | 4.81                     | 20       |        |      |
| Nitrate+Nitrite as N | 5.9             | 0.20 | 3.500     | 2.360          | 101       | 88.6     | 110       | 1.58                     | 20       |        |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206203

20-Jun-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                            |               |     |                |                 |      |           |                                    |        |             |      |
|----------------------------|---------------|-----|----------------|-----------------|------|-----------|------------------------------------|--------|-------------|------|
| Sample ID                  | <b>5ML RB</b> |     | SampType:      | <b>MBLK</b>     |      | TestCode: | <b>EPA Method 8021B: Volatiles</b> |        |             |      |
| Client ID:                 | <b>PBW</b>    |     | Batch ID:      | <b>R3317</b>    |      | RunNo:    | <b>3317</b>                        |        |             |      |
| Prep Date:                 |               |     | Analysis Date: | <b>6/8/2012</b> |      | SeqNo:    | <b>92332</b>                       | Units: | <b>µg/L</b> |      |
| Analyte                    | Result        | PQL | SPK value      | SPK Ref Val     | %REC | LowLimit  | HighLimit                          | %RPD   | RPDLimit    | Qual |
| Benzene                    | ND            | 1.0 |                |                 |      |           |                                    |        |             |      |
| Toluene                    | ND            | 1.0 |                |                 |      |           |                                    |        |             |      |
| Ethylbenzene               | ND            | 1.0 |                |                 |      |           |                                    |        |             |      |
| Xylenes, Total             | ND            | 2.0 |                |                 |      |           |                                    |        |             |      |
| Surr: 4-Bromofluorobenzene | 18            |     | 20.00          |                 | 89.6 | 55        | 140                                |        |             |      |

|                            |                       |     |                |                 |      |           |                                    |        |             |      |
|----------------------------|-----------------------|-----|----------------|-----------------|------|-----------|------------------------------------|--------|-------------|------|
| Sample ID                  | <b>100NG BTEX LCS</b> |     | SampType:      | <b>LCS</b>      |      | TestCode: | <b>EPA Method 8021B: Volatiles</b> |        |             |      |
| Client ID:                 | <b>LCSW</b>           |     | Batch ID:      | <b>R3317</b>    |      | RunNo:    | <b>3317</b>                        |        |             |      |
| Prep Date:                 |                       |     | Analysis Date: | <b>6/8/2012</b> |      | SeqNo:    | <b>92333</b>                       | Units: | <b>µg/L</b> |      |
| Analyte                    | Result                | PQL | SPK value      | SPK Ref Val     | %REC | LowLimit  | HighLimit                          | %RPD   | RPDLimit    | Qual |
| Benzene                    | 21                    | 1.0 | 20.00          | 0               | 105  | 80        | 120                                |        |             |      |
| Toluene                    | 21                    | 1.0 | 20.00          | 0               | 104  | 80        | 120                                |        |             |      |
| Ethylbenzene               | 20                    | 1.0 | 20.00          | 0               | 101  | 80        | 120                                |        |             |      |
| Xylenes, Total             | 61                    | 2.0 | 60.00          | 0               | 102  | 80        | 120                                |        |             |      |
| Surr: 4-Bromofluorobenzene | 23                    |     | 20.00          |                 | 115  | 55        | 140                                |        |             |      |

|                            |                       |     |                |                 |      |           |                                    |        |             |      |
|----------------------------|-----------------------|-----|----------------|-----------------|------|-----------|------------------------------------|--------|-------------|------|
| Sample ID                  | <b>1206108-009AMS</b> |     | SampType:      | <b>MS</b>       |      | TestCode: | <b>EPA Method 8021B: Volatiles</b> |        |             |      |
| Client ID:                 | <b>BatchQC</b>        |     | Batch ID:      | <b>R3317</b>    |      | RunNo:    | <b>3317</b>                        |        |             |      |
| Prep Date:                 |                       |     | Analysis Date: | <b>6/8/2012</b> |      | SeqNo:    | <b>92343</b>                       | Units: | <b>µg/L</b> |      |
| Analyte                    | Result                | PQL | SPK value      | SPK Ref Val     | %REC | LowLimit  | HighLimit                          | %RPD   | RPDLimit    | Qual |
| Benzene                    | 590                   | 20  | 400.0          | 168.0           | 106  | 70.1      | 118                                |        |             |      |
| Toluene                    | 500                   | 20  | 400.0          | 70.88           | 108  | 72.3      | 117                                |        |             |      |
| Ethylbenzene               | 460                   | 20  | 400.0          | 36.52           | 105  | 73.5      | 117                                |        |             |      |
| Xylenes, Total             | 1400                  | 40  | 1200           | 137.6           | 104  | 73.1      | 119                                |        |             |      |
| Surr: 4-Bromofluorobenzene | 430                   |     | 400.0          |                 | 108  | 55        | 140                                |        |             |      |

|                            |                        |     |                |                 |      |           |                                    |        |             |      |
|----------------------------|------------------------|-----|----------------|-----------------|------|-----------|------------------------------------|--------|-------------|------|
| Sample ID                  | <b>1206108-009AMSD</b> |     | SampType:      | <b>MSD</b>      |      | TestCode: | <b>EPA Method 8021B: Volatiles</b> |        |             |      |
| Client ID:                 | <b>BatchQC</b>         |     | Batch ID:      | <b>R3317</b>    |      | RunNo:    | <b>3317</b>                        |        |             |      |
| Prep Date:                 |                        |     | Analysis Date: | <b>6/8/2012</b> |      | SeqNo:    | <b>92344</b>                       | Units: | <b>µg/L</b> |      |
| Analyte                    | Result                 | PQL | SPK value      | SPK Ref Val     | %REC | LowLimit  | HighLimit                          | %RPD   | RPDLimit    | Qual |
| Benzene                    | 570                    | 20  | 400.0          | 168.0           | 100  | 70.1      | 118                                | 3.75   | 16.4        |      |
| Toluene                    | 470                    | 20  | 400.0          | 70.88           | 99.4 | 72.3      | 117                                | 6.70   | 13.9        |      |
| Ethylbenzene               | 430                    | 20  | 400.0          | 36.52           | 97.9 | 73.5      | 117                                | 6.61   | 13.5        |      |
| Xylenes, Total             | 1300                   | 40  | 1200           | 137.6           | 96.5 | 73.1      | 119                                | 6.40   | 12.9        |      |
| Surr: 4-Bromofluorobenzene | 360                    |     | 400.0          |                 | 90.5 | 55        | 140                                | 0      | 0           |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206203

20-Jun-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5ML RB</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>R3359</b>          |     | RunNo: <b>3359</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>6/11/2012</b> |     | SeqNo: <b>93711</b>                          |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                    | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Toluene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Ethylbenzene               | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Xylenes, Total             | ND                              | 2.0 |                                              |             |                    |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 20                              |     | 20.00                                        |             | 98.7               | 55       | 140       |      |          |      |

| Sample ID <b>100NG BTEX LCS</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>          | Batch ID: <b>R3359</b>          |     | RunNo: <b>3359</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>6/11/2012</b> |     | SeqNo: <b>93712</b>                          |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 21                              | 1.0 | 20.00                                        | 0           | 104                | 80       | 120       |      |          |      |
| Toluene                         | 22                              | 1.0 | 20.00                                        | 0           | 108                | 80       | 120       |      |          |      |
| Ethylbenzene                    | 21                              | 1.0 | 20.00                                        | 0           | 107                | 80       | 120       |      |          |      |
| Xylenes, Total                  | 63                              | 2.0 | 60.00                                        | 0           | 104                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 20                              |     | 20.00                                        |             | 97.8               | 55       | 140       |      |          |      |

| Sample ID <b>1206291-002CMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R3359</b>          |     | RunNo: <b>3359</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>6/11/2012</b> |     | SeqNo: <b>93714</b>                          |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 100                             | 5.0 | 100.0                                        | 0.8700      | 101                | 70.1     | 118       |      |          |      |
| Toluene                         | 100                             | 5.0 | 100.0                                        | 0.8700      | 102                | 72.3     | 117       |      |          |      |
| Ethylbenzene                    | 100                             | 5.0 | 100.0                                        | 1.250       | 101                | 73.5     | 117       |      |          |      |
| Xylenes, Total                  | 310                             | 10  | 300.0                                        | 4.310       | 102                | 73.1     | 119       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 110                             |     | 100.0                                        |             | 110                | 55       | 140       |      |          |      |

| Sample ID <b>1206291-002CMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |       |          |      |
|----------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R3359</b>          |     | RunNo: <b>3359</b>                           |             |                    |          |           |       |          |      |
| Prep Date:                       | Analysis Date: <b>6/11/2012</b> |     | SeqNo: <b>93715</b>                          |             | Units: <b>µg/L</b> |          |           |       |          |      |
| Analyte                          | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                          | 100                             | 5.0 | 100.0                                        | 0.8700      | 103                | 70.1     | 118       | 1.88  | 16.4     |      |
| Toluene                          | 100                             | 5.0 | 100.0                                        | 0.8700      | 104                | 72.3     | 117       | 2.06  | 13.9     |      |
| Ethylbenzene                     | 100                             | 5.0 | 100.0                                        | 1.250       | 102                | 73.5     | 117       | 0.921 | 13.5     |      |
| Xylenes, Total                   | 320                             | 10  | 300.0                                        | 4.310       | 104                | 73.1     | 119       | 1.78  | 12.9     |      |
| Surr: 4-Bromofluorobenzene       | 91                              |     | 100.0                                        |             | 90.6               | 55       | 140       | 0     | 0        |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206203

20-Jun-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                |        |                |           |             |                             |          |           |      |          |      |
|--------------------------------|--------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                      | 5ml rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                     | PBW    | Batch ID:      | R3293     | RunNo:      | 3293                        |          |           |      |          |      |
| Prep Date:                     |        | Analysis Date: | 6/7/2012  | SeqNo:      | 91601                       | Units:   | µg/L      |      |          |      |
| Analyte                        | Result | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Toluene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Ethylbenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Naphthalene                    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| 2-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| Acetone                        | ND     | 10             |           |             |                             |          |           |      |          |      |
| Bromobenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromodichloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromoform                      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromomethane                   | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Butanone                     | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon disulfide               | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon Tetrachloride           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chlorobenzene                  | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloroethane                   | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Chloroform                     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloromethane                  | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,2-DCE                    | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,3-Dichloropropene        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Dibromochloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dibromomethane                 | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,4-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dichlorodifluoromethane        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethane             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethene             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 2,2-Dichloropropane            | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloropropene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Hexachlorobutadiene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206203

20-Jun-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |        |                |           |             |                             |          |           |      |          |      |
|-----------------------------|--------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 5ml rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | PBW    | Batch ID:      | R3293     | RunNo:      | 3293                        |          |           |      |          |      |
| Prep Date:                  |        | Analysis Date: | 6/7/2012  | SeqNo:      | 91601                       | Units:   | µg/L      |      |          |      |
| Analyte                     | Result | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 2-Hexanone                  | ND     | 10             |           |             |                             |          |           |      |          |      |
| Isopropylbenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Isopropyltoluene          | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Methyl-2-pentanone        | ND     | 10             |           |             |                             |          |           |      |          |      |
| Methylene Chloride          | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| n-Butylbenzene              | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| n-Propylbenzene             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| sec-Butylbenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Styrene                     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| tert-Butylbenzene           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Tetrachloroethene (PCE)     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| trans-1,2-DCE               | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| trans-1,3-Dichloropropene   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1,1-Trichloroethane       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1,2-Trichloroethane       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Trichloroethene (TCE)       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Trichlorofluoromethane      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,3-Trichloropropane      | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Vinyl chloride              | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Xylenes, Total              | ND     | 1.5            |           |             |                             |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 10     |                | 10.00     |             | 102                         | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11     |                | 10.00     |             | 107                         | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 8.7    |                | 10.00     |             | 87.4                        | 69.8     | 130       |      |          |      |
| Surr: Toluene-d8            | 9.9    |                | 10.00     |             | 98.5                        | 70       | 130       |      |          |      |

|                             |           |                |           |             |                             |          |           |      |          |      |
|-----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 100ng lcs | SampType:      | LCS       | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | LCSW      | Batch ID:      | R3293     | RunNo:      | 3293                        |          |           |      |          |      |
| Prep Date:                  |           | Analysis Date: | 6/7/2012  | SeqNo:      | 91602                       | Units:   | µg/L      |      |          |      |
| Analyte                     | Result    | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 21        | 1.0            | 20.00     | 0           | 104                         | 84.1     | 126       |      |          |      |
| Toluene                     | 19        | 1.0            | 20.00     | 0           | 94.3                        | 80       | 120       |      |          |      |
| Chlorobenzene               | 19        | 1.0            | 20.00     | 0           | 95.6                        | 70       | 130       |      |          |      |
| 1,1-Dichloroethene          | 21        | 1.0            | 20.00     | 0           | 104                         | 83       | 130       |      |          |      |
| Trichloroethene (TCE)       | 18        | 1.0            | 20.00     | 0           | 91.9                        | 76.2     | 119       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.6       |                | 10.00     |             | 95.5                        | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 10        |                | 10.00     |             | 101                         | 70       | 130       |      |          |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206203

20-Jun-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                            |                                |     |           |                                              |      |                    |           |      |          |      |
|----------------------------|--------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>100ng lcs</b> | SampType: <b>LCS</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSW</b>     | Batch ID: <b>R3293</b>         |     |           | RunNo: <b>3293</b>                           |      |                    |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>6/7/2012</b> |     |           | SeqNo: <b>91602</b>                          |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                    | Result                         | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: Dibromofluoromethane | 8.6                            |     | 10.00     |                                              | 85.6 | 69.8               | 130       |      |          |      |
| Surr: Toluene-d8           | 10                             |     | 10.00     |                                              | 99.6 | 70                 | 130       |      |          |      |

|                                 |                                |     |           |                                              |      |                    |           |      |          |      |
|---------------------------------|--------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>1206269-001ams</b> | SampType: <b>MS</b>            |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R3293</b>         |     |           | RunNo: <b>3293</b>                           |      |                    |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>6/7/2012</b> |     |           | SeqNo: <b>91679</b>                          |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                         | Result                         | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 25                             | 1.0 | 20.00     | 0                                            | 125  | 71.1               | 135       |      |          |      |
| Toluene                         | 19                             | 1.0 | 20.00     | 0                                            | 94.7 | 74                 | 121       |      |          |      |
| Chlorobenzene                   | 19                             | 1.0 | 20.00     | 0                                            | 94.6 | 70                 | 130       |      |          |      |
| 1,1-Dichloroethene              | 19                             | 1.0 | 20.00     | 0                                            | 95.8 | 76.3               | 127       |      |          |      |
| Trichloroethene (TCE)           | 19                             | 1.0 | 20.00     | 0                                            | 93.8 | 70                 | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4     | 9.9                            |     | 10.00     |                                              | 99.2 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 10                             |     | 10.00     |                                              | 104  | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane      | 8.9                            |     | 10.00     |                                              | 88.7 | 69.8               | 130       |      |          |      |
| Surr: Toluene-d8                | 9.6                            |     | 10.00     |                                              | 95.8 | 70                 | 130       |      |          |      |

|                                  |                                |     |           |                                              |      |                    |           |      |          |      |
|----------------------------------|--------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>1206269-001AMSD</b> | SampType: <b>MSD</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R3293</b>         |     |           | RunNo: <b>3293</b>                           |      |                    |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>6/7/2012</b> |     |           | SeqNo: <b>91680</b>                          |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                          | Result                         | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 23                             | 1.0 | 20.00     | 0                                            | 113  | 71.1               | 135       | 9.71 | 21.9     |      |
| Toluene                          | 18                             | 1.0 | 20.00     | 0                                            | 91.3 | 74                 | 121       | 3.70 | 18.5     |      |
| Chlorobenzene                    | 17                             | 1.0 | 20.00     | 0                                            | 87.2 | 70                 | 130       | 8.11 | 17.7     |      |
| 1,1-Dichloroethene               | 18                             | 1.0 | 20.00     | 0                                            | 90.9 | 76.3               | 127       | 5.26 | 16.5     |      |
| Trichloroethene (TCE)            | 17                             | 1.0 | 20.00     | 0                                            | 86.3 | 70                 | 130       | 8.39 | 18.9     |      |
| Surr: 1,2-Dichloroethane-d4      | 10                             |     | 10.00     |                                              | 101  | 70                 | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene       | 10                             |     | 10.00     |                                              | 102  | 70                 | 130       | 0    | 0        |      |
| Surr: Dibromofluoromethane       | 9.0                            |     | 10.00     |                                              | 89.9 | 69.8               | 130       | 0    | 0        |      |
| Surr: Toluene-d8                 | 10                             |     | 10.00     |                                              | 100  | 70                 | 130       | 0    | 0        |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206203

20-Jun-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                       |                                 |     |           |                                                     |      |                    |           |      |          |      |
|-----------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 6010B: Dissolved Metals</b> |      |                    |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R3353</b>          |     |           | RunNo: <b>3353</b>                                  |      |                    |           |      |          |      |
| Prep Date:            | Analysis Date: <b>6/11/2012</b> |     |           | SeqNo: <b>93520</b>                                 |      | Units: <b>mg/L</b> |           |      |          |      |
| Analyte               | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Calcium               | ND                              | 1.0 |           |                                                     |      |                    |           |      |          |      |
| Magnesium             | ND                              | 1.0 |           |                                                     |      |                    |           |      |          |      |
| Sodium                | ND                              | 1.0 |           |                                                     |      |                    |           |      |          |      |

|                        |                                 |     |           |                                                     |      |                    |           |      |          |      |
|------------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 6010B: Dissolved Metals</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R3353</b>          |     |           | RunNo: <b>3353</b>                                  |      |                    |           |      |          |      |
| Prep Date:             | Analysis Date: <b>6/11/2012</b> |     |           | SeqNo: <b>93521</b>                                 |      | Units: <b>mg/L</b> |           |      |          |      |
| Analyte                | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Calcium                | 51                              | 1.0 | 50.00     | 0                                                   | 102  | 80                 | 120       |      |          |      |
| Magnesium              | 51                              | 1.0 | 50.00     | 0                                                   | 103  | 80                 | 120       |      |          |      |
| Sodium                 | 51                              | 1.0 | 50.00     | 0                                                   | 101  | 80                 | 120       |      |          |      |

|                       |                                 |     |           |                                                     |      |                    |           |      |          |      |
|-----------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 6010B: Dissolved Metals</b> |      |                    |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R3416</b>          |     |           | RunNo: <b>3416</b>                                  |      |                    |           |      |          |      |
| Prep Date:            | Analysis Date: <b>6/13/2012</b> |     |           | SeqNo: <b>95489</b>                                 |      | Units: <b>mg/L</b> |           |      |          |      |
| Analyte               | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Potassium             | ND                              | 1.0 |           |                                                     |      |                    |           |      |          |      |

|                        |                                 |     |           |                                                     |      |                    |           |      |          |      |
|------------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 6010B: Dissolved Metals</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R3416</b>          |     |           | RunNo: <b>3416</b>                                  |      |                    |           |      |          |      |
| Prep Date:             | Analysis Date: <b>6/13/2012</b> |     |           | SeqNo: <b>95490</b>                                 |      | Units: <b>mg/L</b> |           |      |          |      |
| Analyte                | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Potassium              | 51                              | 1.0 | 50.00     | 0.2272                                              | 101  | 80                 | 120       |      |          |      |

|                                 |                                 |     |           |                                                     |      |                    |           |      |          |      |
|---------------------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>1206017-001BMS</b> | SampType: <b>MS</b>             |     |           | TestCode: <b>EPA Method 6010B: Dissolved Metals</b> |      |                    |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R3416</b>          |     |           | RunNo: <b>3416</b>                                  |      |                    |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>6/13/2012</b> |     |           | SeqNo: <b>95518</b>                                 |      | Units: <b>mg/L</b> |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Potassium                       | 53                              | 1.0 | 50.00     | 4.648                                               | 97.4 | 75                 | 125       |      |          |      |

|                                  |                                 |     |           |                                                     |      |                    |           |      |          |      |
|----------------------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>1206017-001BMSD</b> | SampType: <b>MSD</b>            |     |           | TestCode: <b>EPA Method 6010B: Dissolved Metals</b> |      |                    |           |      |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R3416</b>          |     |           | RunNo: <b>3416</b>                                  |      |                    |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>6/13/2012</b> |     |           | SeqNo: <b>95519</b>                                 |      | Units: <b>mg/L</b> |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Potassium                        | 57                              | 1.0 | 50.00     | 4.648                                               | 105  | 75                 | 125       | 6.79 | 20       |      |

### Qualifiers:

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E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

## Sample Log-In Check List

|                                             |                      |                            |  |
|---------------------------------------------|----------------------|----------------------------|--|
| Client Name: CYP                            |                      | Work Order Number: 1206203 |  |
| Received by/date: <i>AG</i> <i>06/06/12</i> |                      |                            |  |
| Logged By: Michelle Garcia                  | 6/6/2012 10:00:00 AM | <i>Michelle Garcia</i>     |  |
| Completed By: Michelle Garcia               | 6/6/2012 1:22:21 PM  | <i>Michelle Garcia</i>     |  |
| Reviewed By: <i>ID</i> <i>06/06/12</i>      |                      |                            |  |

### Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: 2  
(<2 or >12 unless noted)

Adjusted?       

Checked by: *[Signature]*

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

|                            |                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Person Notified: _____     | Date: _____                                                                                                                        |
| By Whom: _____             | Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: _____           |                                                                                                                                    |
| Client Instructions: _____ |                                                                                                                                    |

18. Additional remarks:

### 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 5.6     | Good      | Yes         |         |           |           |

# Chain-of-Custody Record

Client: Cypress Engineering Services  
 Mailing Address: ATTN: George Robinson, PE  
111 Highway 6 North  
Suite 102 Houston TX 77059  
 Phone #: 281.797.3420  
 Email or Fax#: george.robinson@cypressinc.us  
 QA/QC Package: Cypress inc. us  
☒ Standard ☐ Level 4 (Full Validation)

Accreditation  
☐ NELAP ☐ Other  
☐ EDD (Type) \_\_\_\_\_

| Date     | Time  | Matrix             | Sample Request ID  | Container Type and # | Preservative Type | HEAL No. |
|----------|-------|--------------------|--------------------|----------------------|-------------------|----------|
| 06/05/13 | 1300  | H2O                | Pre-Treatment      | 3x40 ml vials        | HCL               | -001     |
| 06/05/13 | 1300  | H2O                | Post-Air Striper   | ↓                    | ↓                 | -002     |
| 06/05/13 | 1300  | H2O                | Between GAC's      | ↓                    | ↓                 | -003     |
| 06/05/13 | 1300  | H2O                | Post-Treatment     | 3x40 ml vials        | HCL               | -004     |
| ↓        | ↓     | ↓                  | ↓                  | 1x125ml plastic      | None              | -004     |
| ↓        | ↓     | ↓                  | ↓                  | 1x125ml plastic      | None              | -004     |
| ↓        | ↓     | ↓                  | ↓                  | 1x125ml plastic      | None              | -004     |
| ↓        | ↓     | ↓                  | ↓                  | 1x125ml plastic      | None              | -004     |
| 06/05/13 | 14530 | H2O                | Trip Blank         | 2x40 ml vials        | HCL               | -005     |
| Date:    | Time: | Relinquished by:   | Received by:       | Date                 | Time              |          |
| 06/05/13 | 14530 | <u>[Signature]</u> | <u>[Signature]</u> | 06/06/12             | 1000              |          |
| Date:    | Time: | Relinquished by:   | Received by:       | Date                 | Time              |          |

Turn-Around Time: ☒ Standard ☐ Rush  
 Project Name: Twp Roswell Station 9  
 Project #: Monthly Discharge  
Sampling 2012, 05/06/12  
 Project Manager: Sandy Sharp

Sampler: Cam Barabill, PE  
 On Ice: ☒ Yes ☐ No  
 Sample Temperature: 5.0

| Analysis Request                                                                       | BTX + MTBE + TMB's (8021) | BTX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | 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 (NOA) | 8270 (Semi-VOA) | Major Cation | N <sub>2</sub> , Ca, K, Mg | By: 60104 | Field H. H. H. H. | Air Bubbles (Y or N) |
|----------------------------------------------------------------------------------------|---------------------------|-----------------------------|-----------------------------|--------------------|--------------------|---------------------------|---------------|----------------------------------------------------------------------------------------|------------------------------|-------------|-----------------|--------------|----------------------------|-----------|-------------------|----------------------|
| BTX + MTBE + TMB's (8021)                                                              | X                         | X                           |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| BTX + MTBE + TPH (Gas only)                                                            | X                         | X                           |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| TPH 8015B (GRO / DRO / MRO)                                                            |                           |                             |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| TPH (Method 418.1)                                                                     |                           |                             |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| EDB (Method 504.1)                                                                     |                           |                             |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| PAH's (8310 or 8270 SIMS)                                                              |                           |                             |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| 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 (NOA)                                                                            |                           |                             |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| 8270 (Semi-VOA)                                                                        |                           |                             |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| Major Cation                                                                           |                           |                             |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| N <sub>2</sub> , Ca, K, Mg                                                             |                           |                             |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| By: 60104                                                                              |                           |                             |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| Field H. H. H. H.                                                                      |                           |                             |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |
| Air Bubbles (Y or N)                                                                   |                           |                             |                             |                    |                    |                           |               |                                                                                        |                              |             |                 |              |                            |           |                   |                      |

Remarks: \* This is a Re-Sample of 04/30/2012 as vps 1st shipment label. Any questions please call Sandy Sharp @ 281.797.3420

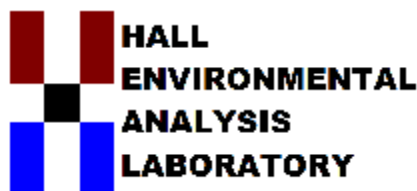


**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

July 13, 2012

Sandra Sharp

Cypress Engineering

7171 Highway 6 North

Suite 102

Houston, TX 770952422

TEL: (281) 797-3421

FAX

RE: TWP Roswell Station 9

OrderNo.: 1206C58

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/29/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206C58

Date Reported: 7/13/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Pre-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 6/28/2012 11:45:00 AM

**Lab ID:** 1206C58-001

**Matrix:** AQUEOUS

**Received Date:** 6/29/2012 12:00:00 PM

| Analyses                                     | Result | RL       | Qual | Units | DF | Date Analyzed       |
|----------------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |          |      |       |    | Analyst: JDJ        |
| Benzene                                      | 3000   | 50       |      | µg/L  | 50 | 7/1/2012 6:14:11 PM |
| Toluene                                      | 4500   | 50       |      | µg/L  | 50 | 7/1/2012 6:14:11 PM |
| Ethylbenzene                                 | 250    | 50       |      | µg/L  | 50 | 7/1/2012 6:14:11 PM |
| Xylenes, Total                               | 2300   | 100      |      | µg/L  | 50 | 7/1/2012 6:14:11 PM |
| Surr: 1,2-Dichloroethane-d4                  | 91.9   | 70-130   |      | %REC  | 50 | 7/1/2012 6:14:11 PM |
| Surr: 4-Bromofluorobenzene                   | 102    | 70-130   |      | %REC  | 50 | 7/1/2012 6:14:11 PM |
| Surr: Dibromofluoromethane                   | 91.8   | 69.8-130 |      | %REC  | 50 | 7/1/2012 6:14:11 PM |
| Surr: Toluene-d8                             | 101    | 70-130   |      | %REC  | 50 | 7/1/2012 6:14:11 PM |

**Qualifiers:**

- \* /X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206C58

Date Reported: 7/13/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post-Air Stripper

**Project:** TWP Roswell Station 9

**Collection Date:** 6/28/2012 11:45:00 AM

**Lab ID:** 1206C58-002

**Matrix:** AQUEOUS

**Received Date:** 6/29/2012 12:00:00 PM

| Analyses                                     | Result | RL       | Qual | Units | DF | Date Analyzed       |
|----------------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |          |      |       |    | Analyst: JDJ        |
| Benzene                                      | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 6:43:48 PM |
| Toluene                                      | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 6:43:48 PM |
| Ethylbenzene                                 | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 6:43:48 PM |
| Xylenes, Total                               | ND     | 2.0      |      | µg/L  | 1  | 7/1/2012 6:43:48 PM |
| Surr: 1,2-Dichloroethane-d4                  | 102    | 70-130   |      | %REC  | 1  | 7/1/2012 6:43:48 PM |
| Surr: 4-Bromofluorobenzene                   | 116    | 70-130   |      | %REC  | 1  | 7/1/2012 6:43:48 PM |
| Surr: Dibromofluoromethane                   | 90.2   | 69.8-130 |      | %REC  | 1  | 7/1/2012 6:43:48 PM |
| Surr: Toluene-d8                             | 93.7   | 70-130   |      | %REC  | 1  | 7/1/2012 6:43:48 PM |

**Qualifiers:**

- \* /X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206C58

Date Reported: 7/13/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Between GAC's

**Project:** TWP Roswell Station 9

**Collection Date:** 6/28/2012 11:45:00 AM

**Lab ID:** 1206C58-003

**Matrix:** AQUEOUS

**Received Date:** 6/29/2012 12:00:00 PM

| Analyses                                     | Result | RL       | Qual | Units | DF | Date Analyzed       |
|----------------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |          |      |       |    | Analyst: JDJ        |
| Benzene                                      | 4.7    | 1.0      |      | µg/L  | 1  | 7/1/2012 7:13:18 PM |
| Toluene                                      | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:13:18 PM |
| Ethylbenzene                                 | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:13:18 PM |
| Xylenes, Total                               | ND     | 2.0      |      | µg/L  | 1  | 7/1/2012 7:13:18 PM |
| Surr: 1,2-Dichloroethane-d4                  | 84.9   | 70-130   |      | %REC  | 1  | 7/1/2012 7:13:18 PM |
| Surr: 4-Bromofluorobenzene                   | 116    | 70-130   |      | %REC  | 1  | 7/1/2012 7:13:18 PM |
| Surr: Dibromofluoromethane                   | 89.0   | 69.8-130 |      | %REC  | 1  | 7/1/2012 7:13:18 PM |
| Surr: Toluene-d8                             | 96.3   | 70-130   |      | %REC  | 1  | 7/1/2012 7:13:18 PM |

**Qualifiers:**

- \* /X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206C58

Date Reported: 7/13/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 6/28/2012 11:45:00 AM

**Lab ID:** 1206C58-004

**Matrix:** AQUEOUS

**Received Date:** 6/29/2012 12:00:00 PM

| Analyses                                   | Result | RL   | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------|--------|------|------|-------|----|----------------------|
| <b>EPA METHOD 300.0: ANIONS</b>            |        |      |      |       |    | Analyst: <b>BRM</b>  |
| Fluoride                                   | 12     | 2.0  | *    | mg/L  | 20 | 6/30/2012 4:00:01 AM |
| Chloride                                   | 440    | 25   |      | mg/L  | 50 | 7/3/2012 11:05:54 PM |
| Nitrogen, Nitrite (As N)                   | ND     | 0.10 |      | mg/L  | 1  | 6/30/2012 3:47:36 AM |
| Nitrogen, Nitrate (As N)                   | ND     | 0.10 |      | mg/L  | 1  | 6/30/2012 3:47:36 AM |
| Phosphorus, Orthophosphate (As P)          | ND     | 10   |      | mg/L  | 20 | 6/30/2012 4:00:01 AM |
| Sulfate                                    | 1500   | 25   |      | mg/L  | 50 | 7/3/2012 11:05:54 PM |
| <b>EPA 6010B: TOTAL RECOVERABLE METALS</b> |        |      |      |       |    | Analyst: <b>ELS</b>  |
| Calcium                                    | 500    | 10   |      | mg/L  | 10 | 7/12/2012 6:44:29 AM |
| Magnesium                                  | 150    | 10   |      | mg/L  | 10 | 7/12/2012 6:44:29 AM |
| Potassium                                  | 2.8    | 1.0  |      | mg/L  | 1  | 7/12/2012 6:41:46 AM |
| Sodium                                     | 220    | 10   |      | mg/L  | 10 | 7/12/2012 6:44:29 AM |
| <b>EPA METHOD 8260B: VOLATILES</b>         |        |      |      |       |    | Analyst: <b>JDJ</b>  |
| Benzene                                    | 1.7    | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Toluene                                    | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Ethylbenzene                               | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Methyl tert-butyl ether (MTBE)             | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| 1,2,4-Trimethylbenzene                     | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| 1,3,5-Trimethylbenzene                     | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| 1,2-Dichloroethane (EDC)                   | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| 1,2-Dibromoethane (EDB)                    | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Naphthalene                                | ND     | 2.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| 1-Methylnaphthalene                        | ND     | 4.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| 2-Methylnaphthalene                        | ND     | 4.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Acetone                                    | 62     | 10   |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Bromobenzene                               | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Bromodichloromethane                       | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Bromoform                                  | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Bromomethane                               | ND     | 3.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| 2-Butanone                                 | 31     | 10   |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Carbon disulfide                           | ND     | 10   |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Carbon Tetrachloride                       | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Chlorobenzene                              | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Chloroethane                               | ND     | 2.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Chloroform                                 | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Chloromethane                              | ND     | 3.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| 2-Chlorotoluene                            | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| 4-Chlorotoluene                            | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| cis-1,2-DCE                                | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| cis-1,3-Dichloropropene                    | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| 1,2-Dibromo-3-chloropropane                | ND     | 2.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |
| Dibromochloromethane                       | ND     | 1.0  |      | µg/L  | 1  | 7/1/2012 7:42:45 PM  |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206C58

Date Reported: 7/13/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 6/28/2012 11:45:00 AM

**Lab ID:** 1206C58-004

**Matrix:** AQUEOUS

**Received Date:** 6/29/2012 12:00:00 PM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |          |      |       |    | Analyst: JDJ        |
| Dibromomethane                     | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| Dichlorodifluoromethane            | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,1-Dichloroethane                 | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,1-Dichloroethene                 | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,2-Dichloropropane                | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,3-Dichloropropane                | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 2,2-Dichloropropane                | ND     | 2.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,1-Dichloropropene                | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| Hexachlorobutadiene                | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 2-Hexanone                         | ND     | 10       |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| Isopropylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 4-Isopropyltoluene                 | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 4-Methyl-2-pentanone               | ND     | 10       |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| Methylene Chloride                 | ND     | 3.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| n-Butylbenzene                     | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| n-Propylbenzene                    | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| sec-Butylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| Styrene                            | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| tert-Butylbenzene                  | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| trans-1,2-DCE                      | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| Trichloroethene (TCE)              | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| Trichlorofluoromethane             | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| Vinyl chloride                     | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| Xylenes, Total                     | ND     | 1.5      |      | µg/L  | 1  | 7/1/2012 7:42:45 PM |
| Surr: 1,2-Dichloroethane-d4        | 102    | 70-130   |      | %REC  | 1  | 7/1/2012 7:42:45 PM |
| Surr: 4-Bromofluorobenzene         | 110    | 70-130   |      | %REC  | 1  | 7/1/2012 7:42:45 PM |
| Surr: Dibromofluoromethane         | 88.2   | 69.8-130 |      | %REC  | 1  | 7/1/2012 7:42:45 PM |
| Surr: Toluene-d8                   | 96.4   | 70-130   |      | %REC  | 1  | 7/1/2012 7:42:45 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206C58

Date Reported: 7/13/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** TWP Roswell Station 9

**Collection Date:**

**Lab ID:** 1206C58-005

**Matrix:** TRIP BLANK

**Received Date:** 6/29/2012 12:00:00 PM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|-----|------|-------|----|---------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: JDJ        |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,1-Dichloroethane                 | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,1-Dichloroethene                 | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1206C58

Date Reported: 7/13/2012

CLIENT: Cypress Engineering

Client Sample ID: Trip Blank

Project: TWP Roswell Station 9

Collection Date:

Lab ID: 1206C58-005

Matrix: TRIP BLANK

Received Date: 6/29/2012 12:00:00 PM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |          |      |       |    | Analyst: JDJ        |
| Isopropylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 4-Isopropyltoluene                 | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 4-Methyl-2-pentanone               | ND     | 10       |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Methylene Chloride                 | ND     | 3.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| n-Butylbenzene                     | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| n-Propylbenzene                    | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| sec-Butylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Styrene                            | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| tert-Butylbenzene                  | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| trans-1,2-DCE                      | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Trichloroethene (TCE)              | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Trichlorofluoromethane             | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Vinyl chloride                     | ND     | 1.0      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Xylenes, Total                     | ND     | 1.5      |      | µg/L  | 1  | 7/1/2012 8:12:16 PM |
| Surr: 1,2-Dichloroethane-d4        | 101    | 70-130   |      | %REC  | 1  | 7/1/2012 8:12:16 PM |
| Surr: 4-Bromofluorobenzene         | 117    | 70-130   |      | %REC  | 1  | 7/1/2012 8:12:16 PM |
| Surr: Dibromofluoromethane         | 91.9   | 69.8-130 |      | %REC  | 1  | 7/1/2012 8:12:16 PM |
| Surr: Toluene-d8                   | 97.5   | 70-130   |      | %REC  | 1  | 7/1/2012 8:12:16 PM |

**Qualifiers:** \* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
U Samples with CalcVal < MDL

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C58

13-Jul-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>MB</b>               | SampType: <b>MBLK</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>             | Batch ID: <b>R3815</b>          |      | RunNo: <b>3815</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>6/29/2012</b> |      | SeqNo: <b>107998</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                          | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Nitrogen, Nitrite (As N)          | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Nitrogen, Nitrate (As N)          | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P) | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |

| Sample ID <b>LCS</b>              | SampType: <b>LCS</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>            | Batch ID: <b>R3815</b>          |      | RunNo: <b>3815</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>6/29/2012</b> |      | SeqNo: <b>107999</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                          | 0.48                            | 0.10 | 0.5000                                    | 0           | 95.5               | 90       | 110       |      |          |      |
| Nitrogen, Nitrite (As N)          | 0.92                            | 0.10 | 1.000                                     | 0           | 91.6               | 90       | 110       |      |          |      |
| Nitrogen, Nitrate (As N)          | 2.4                             | 0.10 | 2.500                                     | 0           | 97.6               | 90       | 110       |      |          |      |
| Phosphorus, Orthophosphate (As P) | 4.9                             | 0.50 | 5.000                                     | 0           | 97.8               | 90       | 110       |      |          |      |

| Sample ID <b>1206C18-001AMS</b>   | SampType: <b>MS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>         | Batch ID: <b>R3815</b>          |      | RunNo: <b>3815</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>6/29/2012</b> |      | SeqNo: <b>108001</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                          | 0.48                            | 0.10 | 0.5000                                    | 0           | 97.0               | 76.6     | 110       |      |          |      |
| Nitrogen, Nitrite (As N)          | 0.94                            | 0.10 | 1.000                                     | 0           | 93.7               | 72.5     | 111       |      |          |      |
| Nitrogen, Nitrate (As N)          | 2.5                             | 0.10 | 2.500                                     | 0           | 101                | 90.4     | 113       |      |          |      |
| Phosphorus, Orthophosphate (As P) | 5.0                             | 0.50 | 5.000                                     | 0           | 101                | 74.5     | 115       |      |          |      |

| Sample ID <b>1206C18-001AMSD</b>  | SampType: <b>MSD</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |       |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Client ID: <b>BatchQC</b>         | Batch ID: <b>R3815</b>          |      | RunNo: <b>3815</b>                        |             |                    |          |           |       |          |      |
| Prep Date:                        | Analysis Date: <b>6/29/2012</b> |      | SeqNo: <b>108002</b>                      |             | Units: <b>mg/L</b> |          |           |       |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Fluoride                          | 0.48                            | 0.10 | 0.5000                                    | 0           | 96.1               | 76.6     | 110       | 0.855 | 20       |      |
| Nitrogen, Nitrite (As N)          | 0.93                            | 0.10 | 1.000                                     | 0           | 93.3               | 72.5     | 111       | 0.449 | 20       |      |
| Nitrogen, Nitrate (As N)          | 2.5                             | 0.10 | 2.500                                     | 0           | 100                | 90.4     | 113       | 0.524 | 20       |      |
| Phosphorus, Orthophosphate (As P) | 5.0                             | 0.50 | 5.000                                     | 0           | 99.9               | 74.5     | 115       | 0.695 | 20       |      |

| Sample ID <b>1206C42-001AMS</b> | SampType: <b>MS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R3815</b>          |      | RunNo: <b>3815</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>6/30/2012</b> |      | SeqNo: <b>108059</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                        | 0.55                            | 0.10 | 0.5000                                    | 0.1767      | 74.3               | 76.6     | 110       |      |          | S    |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C58

13-Jul-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |                 |      |                          |             |                                    |          |             |       |          |      |
|------------|-----------------|------|--------------------------|-------------|------------------------------------|----------|-------------|-------|----------|------|
| Sample ID  | 1206C42-001AMSD |      | SampType: MSD            |             | TestCode: EPA Method 300.0: Anions |          |             |       |          |      |
| Client ID: | BatchQC         |      | Batch ID: R3815          |             | RunNo: 3815                        |          |             |       |          |      |
| Prep Date: |                 |      | Analysis Date: 6/30/2012 |             | SeqNo: 108060                      |          | Units: mg/L |       |          |      |
| Analyte    | Result          | PQL  | SPK value                | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD  | RPDLimit | Qual |
| Fluoride   | 0.55            | 0.10 | 0.5000                   | 0.1767      | 75.3                               | 76.6     | 110         | 0.853 | 20       | S    |

|            |        |                         |           |             |                                    |          |             |      |          |      |
|------------|--------|-------------------------|-----------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | MB     | SampType: MBLK          |           |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | PBW    | Batch ID: R3862         |           |             | RunNo: 3862                        |          |             |      |          |      |
| Prep Date: |        | Analysis Date: 7/3/2012 |           |             | SeqNo: 109608                      |          | Units: mg/L |      |          |      |
| Analyte    | Result | PQL                     | SPK value | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Chloride   | ND     | 0.50                    |           |             |                                    |          |             |      |          |      |
| Sulfate    | ND     | 0.50                    |           |             |                                    |          |             |      |          |      |

|            |        |      |                         |             |                                    |          |             |      |          |      |
|------------|--------|------|-------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | LCS    |      | SampType: LCS           |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | LCSW   |      | Batch ID: R3862         |             | RunNo: 3862                        |          |             |      |          |      |
| Prep Date: |        |      | Analysis Date: 7/3/2012 |             | SeqNo: 109609                      |          | Units: mg/L |      |          |      |
| Analyte    | Result | PQL  | SPK value               | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Chloride   | 4.7    | 0.50 | 5.000                   | 0           | 94.2                               | 90       | 110         |      |          |      |
| Sulfate    | 9.9    | 0.50 | 10.00                   | 0           | 98.5                               | 90       | 110         |      |          |      |

|            |                |      |                         |             |                                    |          |             |      |          |      |
|------------|----------------|------|-------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | 1207046-001AMS |      | SampType: MS            |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | BatchQC        |      | Batch ID: R3862         |             | RunNo: 3862                        |          |             |      |          |      |
| Prep Date: |                |      | Analysis Date: 7/3/2012 |             | SeqNo: 109615                      |          | Units: mg/L |      |          |      |
| Analyte    | Result         | PQL  | SPK value               | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Sulfate    | 42             | 0.50 | 10.00                   | 31.25       | 107                                | 84.6     | 122         |      |          |      |

|            |                 |      |                         |             |                                    |          |             |       |          |      |
|------------|-----------------|------|-------------------------|-------------|------------------------------------|----------|-------------|-------|----------|------|
| Sample ID  | 1207046-001AMSD |      | SampType: MSD           |             | TestCode: EPA Method 300.0: Anions |          |             |       |          |      |
| Client ID: | BatchQC         |      | Batch ID: R3862         |             | RunNo: 3862                        |          |             |       |          |      |
| Prep Date: |                 |      | Analysis Date: 7/3/2012 |             | SeqNo: 109616                      |          | Units: mg/L |       |          |      |
| Analyte    | Result          | PQL  | SPK value               | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD  | RPDLimit | Qual |
| Sulfate    | 42              | 0.50 | 10.00                   | 31.25       | 105                                | 84.6     | 122         | 0.509 | 20       |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C58

13-Jul-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                |        |                |           |             |                                       |          |           |      |          |      |
|--------------------------------|--------|----------------|-----------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                      | 5ml rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                     | PBW    | Batch ID:      | R3807     | RunNo:      | 3807                                  |          |           |      |          |      |
| Prep Date:                     |        | Analysis Date: | 6/30/2012 | SeqNo:      | 110099                                | Units:   | µg/L      |      |          |      |
| Analyte                        | Result | PQL            | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Toluene                        | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Ethylbenzene                   | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Naphthalene                    | ND     | 2.0            |           |             |                                       |          |           |      |          |      |
| 1-Methylnaphthalene            | ND     | 4.0            |           |             |                                       |          |           |      |          |      |
| 2-Methylnaphthalene            | ND     | 4.0            |           |             |                                       |          |           |      |          |      |
| Xylenes, Total                 | ND     | 2.0            |           |             |                                       |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4    | 10     |                | 10.00     |             | 101                                   | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene     | 12     |                | 10.00     |             | 121                                   | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane     | 8.5    |                | 10.00     |             | 85.0                                  | 69.8     | 130       |      |          |      |
| Surr: Toluene-d8               | 9.0    |                | 10.00     |             | 89.8                                  | 70       | 130       |      |          |      |

|                             |            |                |           |             |                                       |          |           |      |          |      |
|-----------------------------|------------|----------------|-----------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 100ng lcsb | SampType:      | LCS       | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                  | LCSW       | Batch ID:      | R3807     | RunNo:      | 3807                                  |          |           |      |          |      |
| Prep Date:                  |            | Analysis Date: | 7/1/2012  | SeqNo:      | 110100                                | Units:   | µg/L      |      |          |      |
| Analyte                     | Result     | PQL            | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 22         | 1.0            | 20.00     | 0           | 108                                   | 84.1     | 126       |      |          |      |
| Toluene                     | 21         | 1.0            | 20.00     | 0           | 103                                   | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.4        |                | 10.00     |             | 94.0                                  | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11         |                | 10.00     |             | 111                                   | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 8.7        |                | 10.00     |             | 86.9                                  | 69.8     | 130       |      |          |      |
| Surr: Toluene-d8            | 10         |                | 10.00     |             | 99.9                                  | 70       | 130       |      |          |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

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H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C58

13-Jul-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                |        |                |           |             |                             |          |           |      |          |      |
|--------------------------------|--------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                      | 5ml rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                     | PBW    | Batch ID:      | R3807     | RunNo:      | 3807                        |          |           |      |          |      |
| Prep Date:                     |        | Analysis Date: | 6/30/2012 | SeqNo:      | 107636                      | Units:   | µg/L      |      |          |      |
| Analyte                        | Result | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Toluene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Ethylbenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Naphthalene                    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| 2-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| Acetone                        | ND     | 10             |           |             |                             |          |           |      |          |      |
| Bromobenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromodichloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromoform                      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromomethane                   | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Butanone                     | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon disulfide               | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon Tetrachloride           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chlorobenzene                  | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloroethane                   | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Chloroform                     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloromethane                  | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,2-DCE                    | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,3-Dichloropropene        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Dibromochloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dibromomethane                 | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,4-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dichlorodifluoromethane        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethane             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethene             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 2,2-Dichloropropane            | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloropropene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Hexachlorobutadiene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |

### Qualifiers:

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RL Reporting Detection Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C58

13-Jul-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |        |                |           |             |                             |          |           |      |          |      |
|-----------------------------|--------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 5ml rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | PBW    | Batch ID:      | R3807     | RunNo:      | 3807                        |          |           |      |          |      |
| Prep Date:                  |        | Analysis Date: | 6/30/2012 | SeqNo:      | 107636                      | Units:   | µg/L      |      |          |      |
| Analyte                     | Result | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 2-Hexanone                  | ND     | 10             |           |             |                             |          |           |      |          |      |
| Isopropylbenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Isopropyltoluene          | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Methyl-2-pentanone        | ND     | 10             |           |             |                             |          |           |      |          |      |
| Methylene Chloride          | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| n-Butylbenzene              | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| n-Propylbenzene             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| sec-Butylbenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Styrene                     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| tert-Butylbenzene           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Tetrachloroethene (PCE)     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| trans-1,2-DCE               | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| trans-1,3-Dichloropropene   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1,1-Trichloroethane       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1,2-Trichloroethane       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Trichloroethene (TCE)       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Trichlorofluoromethane      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,3-Trichloropropane      | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Vinyl chloride              | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Xylenes, Total              | ND     | 1.5            |           |             |                             |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 10     |                | 10.00     |             | 101                         | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 12     |                | 10.00     |             | 121                         | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 8.5    |                | 10.00     |             | 85.0                        | 69.8     | 130       |      |          |      |
| Surr: Toluene-d8            | 9.0    |                | 10.00     |             | 89.8                        | 70       | 130       |      |          |      |

|                             |           |                |           |             |                             |          |           |      |          |      |
|-----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 100ng lcs | SampType:      | LCS       | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | LCSW      | Batch ID:      | R3807     | RunNo:      | 3807                        |          |           |      |          |      |
| Prep Date:                  |           | Analysis Date: | 6/30/2012 | SeqNo:      | 107637                      | Units:   | µg/L      |      |          |      |
| Analyte                     | Result    | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 21        | 1.0            | 20.00     | 0           | 104                         | 84.1     | 126       |      |          |      |
| Toluene                     | 19        | 1.0            | 20.00     | 0           | 96.8                        | 80       | 120       |      |          |      |
| Chlorobenzene               | 20        | 1.0            | 20.00     | 0           | 99.0                        | 70       | 130       |      |          |      |
| 1,1-Dichloroethene          | 23        | 1.0            | 20.00     | 0           | 115                         | 83       | 130       |      |          |      |
| Trichloroethene (TCE)       | 21        | 1.0            | 20.00     | 0           | 103                         | 76.2     | 119       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 10        |                | 10.00     |             | 102                         | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 12        |                | 10.00     |             | 115                         | 70       | 130       |      |          |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
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J Analyte detected below quantitation limits  
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H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C58

13-Jul-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                            |                                 |     |                                              |             |                    |          |           |      |          |      |
|----------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>100ng lcs</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b>     | Batch ID: <b>R3807</b>          |     | RunNo: <b>3807</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>6/30/2012</b> |     | SeqNo: <b>107637</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                    | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: Dibromofluoromethane | 8.9                             |     | 10.00                                        |             | 88.8               | 69.8     | 130       |      |          |      |
| Surr: Toluene-d8           | 9.4                             |     | 10.00                                        |             | 94.4               | 70       | 130       |      |          |      |

|                                 |                                 |     |                                              |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1206a93-009ams</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R3807</b>          |     | RunNo: <b>3807</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>6/30/2012</b> |     | SeqNo: <b>107640</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 26                              | 1.0 | 20.00                                        | 5.750       | 103                | 71.1     | 135       |      |          |      |
| Toluene                         | 21                              | 1.0 | 20.00                                        | 1.331       | 100                | 74       | 121       |      |          |      |
| Chlorobenzene                   | 21                              | 1.0 | 20.00                                        | 0           | 103                | 70       | 130       |      |          |      |
| 1,1-Dichloroethene              | 22                              | 1.0 | 20.00                                        | 0           | 112                | 76.3     | 127       |      |          |      |
| Trichloroethene (TCE)           | 21                              | 1.0 | 20.00                                        | 0           | 103                | 70       | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4     | 9.9                             |     | 10.00                                        |             | 98.8               | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 11                              |     | 10.00                                        |             | 109                | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane      | 9.0                             |     | 10.00                                        |             | 90.3               | 69.8     | 130       |      |          |      |
| Surr: Toluene-d8                | 10                              |     | 10.00                                        |             | 101                | 70       | 130       |      |          |      |

|                                 |                                |     |                                              |             |                    |          |           |      |          |      |
|---------------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1206c39-002ams</b> | SampType: <b>MS</b>            |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R3807</b>         |     | RunNo: <b>3807</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>7/1/2012</b> |     | SeqNo: <b>107641</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 44                             | 2.0 | 40.00                                        | 0           | 109                | 71.1     | 135       |      |          |      |
| Toluene                         | 38                             | 2.0 | 40.00                                        | 0           | 96.1               | 74       | 121       |      |          |      |
| Chlorobenzene                   | 40                             | 2.0 | 40.00                                        | 0           | 100                | 70       | 130       |      |          |      |
| 1,1-Dichloroethene              | 44                             | 2.0 | 40.00                                        | 0           | 111                | 76.3     | 127       |      |          |      |
| Trichloroethene (TCE)           | 40                             | 2.0 | 40.00                                        | 0           | 101                | 70       | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4     | 21                             |     | 20.00                                        |             | 104                | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 19                             |     | 20.00                                        |             | 93.9               | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane      | 18                             |     | 20.00                                        |             | 89.9               | 69.8     | 130       |      |          |      |
| Surr: Toluene-d8                | 20                             |     | 20.00                                        |             | 100                | 70       | 130       |      |          |      |

|                                  |                                 |     |                                              |             |                    |          |           |       |          |      |
|----------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Sample ID <b>1206a93-009amsd</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |       |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R3807</b>          |     | RunNo: <b>3807</b>                           |             |                    |          |           |       |          |      |
| Prep Date:                       | Analysis Date: <b>6/30/2012</b> |     | SeqNo: <b>107642</b>                         |             | Units: <b>µg/L</b> |          |           |       |          |      |
| Analyte                          | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                          | 26                              | 1.0 | 20.00                                        | 5.750       | 103                | 71.1     | 135       | 0.474 | 21.9     |      |
| Toluene                          | 20                              | 1.0 | 20.00                                        | 1.331       | 95.3               | 74       | 121       | 4.60  | 18.5     |      |
| Chlorobenzene                    | 20                              | 1.0 | 20.00                                        | 0           | 97.6               | 70       | 130       | 4.91  | 17.7     |      |
| 1,1-Dichloroethene               | 23                              | 1.0 | 20.00                                        | 0           | 114                | 76.3     | 127       | 1.27  | 16.5     |      |

### Qualifiers:

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E Value above quantitation range  
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R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C58

13-Jul-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID                   | 1206a93-009amsd |     | SampType:      | MSD         |      | TestCode: | EPA Method 8260B: VOLATILES |        |          |      |
|-----------------------------|-----------------|-----|----------------|-------------|------|-----------|-----------------------------|--------|----------|------|
| Client ID:                  | BatchQC         |     | Batch ID:      | R3807       |      | RunNo:    | 3807                        |        |          |      |
| Prep Date:                  |                 |     | Analysis Date: | 6/30/2012   |      | SeqNo:    | 107642                      | Units: | µg/L     |      |
| Analyte                     | Result          | PQL | SPK value      | SPK Ref Val | %REC | LowLimit  | HighLimit                   | %RPD   | RPDLimit | Qual |
| Trichloroethene (TCE)       | 21              | 1.0 | 20.00          | 0           | 106  | 70        | 130                         | 3.23   | 18.9     |      |
| Surr: 1,2-Dichloroethane-d4 | 11              |     | 10.00          |             | 108  | 70        | 130                         | 0      | 0        |      |
| Surr: 4-Bromofluorobenzene  | 12              |     | 10.00          |             | 115  | 70        | 130                         | 0      | 0        |      |
| Surr: Dibromofluoromethane  | 9.4             |     | 10.00          |             | 94.3 | 69.8      | 130                         | 0      | 0        |      |
| Surr: Toluene-d8            | 9.8             |     | 10.00          |             | 98.5 | 70        | 130                         | 0      | 0        |      |

| Sample ID                   | 1206c39-002amsd |     | SampType:      | MSD         |      | TestCode: | EPA Method 8260B: VOLATILES |        |          |      |
|-----------------------------|-----------------|-----|----------------|-------------|------|-----------|-----------------------------|--------|----------|------|
| Client ID:                  | BatchQC         |     | Batch ID:      | R3807       |      | RunNo:    | 3807                        |        |          |      |
| Prep Date:                  |                 |     | Analysis Date: | 7/1/2012    |      | SeqNo:    | 107643                      | Units: | µg/L     |      |
| Analyte                     | Result          | PQL | SPK value      | SPK Ref Val | %REC | LowLimit  | HighLimit                   | %RPD   | RPDLimit | Qual |
| Benzene                     | 41              | 2.0 | 40.00          | 0           | 101  | 71.1      | 135                         | 7.72   | 21.9     |      |
| Toluene                     | 37              | 2.0 | 40.00          | 0           | 92.9 | 74        | 121                         | 3.39   | 18.5     |      |
| Chlorobenzene               | 38              | 2.0 | 40.00          | 0           | 95.8 | 70        | 130                         | 4.40   | 17.7     |      |
| 1,1-Dichloroethene          | 41              | 2.0 | 40.00          | 0           | 103  | 76.3      | 127                         | 7.52   | 16.5     |      |
| Trichloroethene (TCE)       | 39              | 2.0 | 40.00          | 0           | 97.9 | 70        | 130                         | 3.29   | 18.9     |      |
| Surr: 1,2-Dichloroethane-d4 | 20              |     | 20.00          |             | 99.3 | 70        | 130                         | 0      | 0        |      |
| Surr: 4-Bromofluorobenzene  | 21              |     | 20.00          |             | 105  | 70        | 130                         | 0      | 0        |      |
| Surr: Dibromofluoromethane  | 18              |     | 20.00          |             | 89.8 | 69.8      | 130                         | 0      | 0        |      |
| Surr: Toluene-d8            | 19              |     | 20.00          |             | 96.6 | 70        | 130                         | 0      | 0        |      |

| Sample ID                   | 100ng lcsb |     | SampType:      | LCS         |      | TestCode: | EPA Method 8260B: VOLATILES |        |          |      |
|-----------------------------|------------|-----|----------------|-------------|------|-----------|-----------------------------|--------|----------|------|
| Client ID:                  | LCSW       |     | Batch ID:      | R3807       |      | RunNo:    | 3807                        |        |          |      |
| Prep Date:                  |            |     | Analysis Date: | 7/1/2012    |      | SeqNo:    | 107644                      | Units: | µg/L     |      |
| Analyte                     | Result     | PQL | SPK value      | SPK Ref Val | %REC | LowLimit  | HighLimit                   | %RPD   | RPDLimit | Qual |
| Benzene                     | 22         | 1.0 | 20.00          | 0           | 108  | 84.1      | 126                         |        |          |      |
| Toluene                     | 21         | 1.0 | 20.00          | 0           | 103  | 80        | 120                         |        |          |      |
| Chlorobenzene               | 21         | 1.0 | 20.00          | 0           | 107  | 70        | 130                         |        |          |      |
| 1,1-Dichloroethene          | 21         | 1.0 | 20.00          | 0           | 107  | 83        | 130                         |        |          |      |
| Trichloroethene (TCE)       | 20         | 1.0 | 20.00          | 0           | 101  | 76.2      | 119                         |        |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.4        |     | 10.00          |             | 94.0 | 70        | 130                         |        |          |      |
| Surr: 4-Bromofluorobenzene  | 11         |     | 10.00          |             | 111  | 70        | 130                         |        |          |      |
| Surr: Dibromofluoromethane  | 8.7        |     | 10.00          |             | 86.9 | 69.8      | 130                         |        |          |      |
| Surr: Toluene-d8            | 10         |     | 10.00          |             | 99.9 | 70        | 130                         |        |          |      |

| Sample ID  | b11    |     | SampType:      | MBLK        |      | TestCode: | EPA Method 8260B: VOLATILES |        |          |      |
|------------|--------|-----|----------------|-------------|------|-----------|-----------------------------|--------|----------|------|
| Client ID: | PBW    |     | Batch ID:      | R3807       |      | RunNo:    | 3807                        |        |          |      |
| Prep Date: |        |     | Analysis Date: | 7/1/2012    |      | SeqNo:    | 107680                      | Units: | µg/L     |      |
| Analyte    | Result | PQL | SPK value      | SPK Ref Val | %REC | LowLimit  | HighLimit                   | %RPD   | RPDLimit | Qual |
| Benzene    | ND     | 1.0 |                |             |      |           |                             |        |          |      |

### Qualifiers:

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 R RPD outside accepted recovery limits

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 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C58

13-Jul-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>b11</b>           | SampType: <b>MBLK</b>          |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |                    |          |           |      |          |      |
|--------------------------------|--------------------------------|-----|-----------|----------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>          | Batch ID: <b>R3807</b>         |     |           | RunNo: <b>3807</b>                           |                    |          |           |      |          |      |
| Prep Date:                     | Analysis Date: <b>7/1/2012</b> |     |           | SeqNo: <b>107680</b>                         | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                        | Result                         | PQL | SPK value | SPK Ref Val                                  | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Toluene                        | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Ethylbenzene                   | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Naphthalene                    | ND                             | 2.0 |           |                                              |                    |          |           |      |          |      |
| 1-Methylnaphthalene            | ND                             | 4.0 |           |                                              |                    |          |           |      |          |      |
| 2-Methylnaphthalene            | ND                             | 4.0 |           |                                              |                    |          |           |      |          |      |
| Acetone                        | ND                             | 10  |           |                                              |                    |          |           |      |          |      |
| Bromobenzene                   | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Bromodichloromethane           | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Bromoform                      | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Bromomethane                   | ND                             | 3.0 |           |                                              |                    |          |           |      |          |      |
| 2-Butanone                     | ND                             | 10  |           |                                              |                    |          |           |      |          |      |
| Carbon disulfide               | ND                             | 10  |           |                                              |                    |          |           |      |          |      |
| Carbon Tetrachloride           | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Chlorobenzene                  | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Chloroethane                   | ND                             | 2.0 |           |                                              |                    |          |           |      |          |      |
| Chloroform                     | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Chloromethane                  | ND                             | 3.0 |           |                                              |                    |          |           |      |          |      |
| 2-Chlorotoluene                | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 4-Chlorotoluene                | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| cis-1,2-DCE                    | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| cis-1,3-Dichloropropene        | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND                             | 2.0 |           |                                              |                    |          |           |      |          |      |
| Dibromochloromethane           | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Dibromomethane                 | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2-Dichlorobenzene            | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,3-Dichlorobenzene            | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,4-Dichlorobenzene            | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Dichlorodifluoromethane        | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,1-Dichloroethane             | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,1-Dichloroethene             | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2-Dichloropropane            | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,3-Dichloropropane            | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 2,2-Dichloropropane            | ND                             | 2.0 |           |                                              |                    |          |           |      |          |      |
| 1,1-Dichloropropene            | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| Hexachlorobutadiene            | ND                             | 1.0 |           |                                              |                    |          |           |      |          |      |
| 2-Hexanone                     | ND                             | 10  |           |                                              |                    |          |           |      |          |      |

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C58

13-Jul-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>b11</b>        | SampType: <b>MBLK</b>          |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|--------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>       | Batch ID: <b>R3807</b>         |     |           | RunNo: <b>3807</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>7/1/2012</b> |     |           | SeqNo: <b>107680</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Isopropylbenzene            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Isopropyltoluene          | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Methyl-2-pentanone        | ND                             | 10  |           |                                              |      |                    |           |      |          |      |
| Methylene Chloride          | ND                             | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Butylbenzene              | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| n-Propylbenzene             | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| sec-Butylbenzene            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Styrene                     | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| tert-Butylbenzene           | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND                             | 2.0 |           |                                              |      |                    |           |      |          |      |
| Tetrachloroethene (PCE)     | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,2-DCE               | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,3-Dichloropropene   | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1-Trichloroethane       | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2-Trichloroethane       | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichloroethene (TCE)       | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichlorofluoromethane      | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichloropropane      | ND                             | 2.0 |           |                                              |      |                    |           |      |          |      |
| Vinyl chloride              | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Xylenes, Total              | ND                             | 1.5 |           |                                              |      |                    |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 10                             |     | 10.00     |                                              | 100  | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 12                             |     | 10.00     |                                              | 115  | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 8.9                            |     | 10.00     |                                              | 89.4 | 69.8               | 130       |      |          |      |
| Surr: Toluene-d8            | 9.5                            |     | 10.00     |                                              | 95.4 | 70                 | 130       |      |          |      |

### Qualifiers:

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C58

13-Jul-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |          |                          |           |             |                                               |          |             |      |          |      |
|------------|----------|--------------------------|-----------|-------------|-----------------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | MB-2746  | SampType: MBLK           |           |             | TestCode: EPA 6010B: Total Recoverable Metals |          |             |      |          |      |
| Client ID: | PBW      | Batch ID: 2746           |           |             | RunNo: 3987                                   |          |             |      |          |      |
| Prep Date: | 7/9/2012 | Analysis Date: 7/12/2012 |           |             | SeqNo: 113891                                 |          | Units: mg/L |      |          |      |
| Analyte    | Result   | PQL                      | SPK value | SPK Ref Val | %REC                                          | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Calcium    | ND       | 1.0                      |           |             |                                               |          |             |      |          |      |
| Magnesium  | ND       | 1.0                      |           |             |                                               |          |             |      |          |      |
| Potassium  | ND       | 1.0                      |           |             |                                               |          |             |      |          |      |
| Sodium     | ND       | 1.0                      |           |             |                                               |          |             |      |          |      |

|            |          |     |                          |             |                                               |          |             |      |          |      |
|------------|----------|-----|--------------------------|-------------|-----------------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | LCS-2746 |     | SampType: LCS            |             | TestCode: EPA 6010B: Total Recoverable Metals |          |             |      |          |      |
| Client ID: | LCSW     |     | Batch ID: 2746           |             | RunNo: 3987                                   |          |             |      |          |      |
| Prep Date: | 7/9/2012 |     | Analysis Date: 7/12/2012 |             | SeqNo: 113892                                 |          | Units: mg/L |      |          |      |
| Analyte    | Result   | PQL | SPK value                | SPK Ref Val | %REC                                          | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Calcium    | 51       | 1.0 | 50.00                    | 0           | 103                                           | 80       | 120         |      |          |      |
| Magnesium  | 51       | 1.0 | 50.00                    | 0           | 102                                           | 80       | 120         |      |          |      |
| Potassium  | 48       | 1.0 | 50.00                    | 0           | 95.9                                          | 80       | 120         |      |          |      |
| Sodium     | 50       | 1.0 | 50.00                    | 0           | 99.5                                          | 80       | 120         |      |          |      |

|            |           |     |                          |             |                                               |          |             |        |          |      |
|------------|-----------|-----|--------------------------|-------------|-----------------------------------------------|----------|-------------|--------|----------|------|
| Sample ID  | LCSD-2746 |     | SampType: LCSD           |             | TestCode: EPA 6010B: Total Recoverable Metals |          |             |        |          |      |
| Client ID: | LCSS02    |     | Batch ID: 2746           |             | RunNo: 3987                                   |          |             |        |          |      |
| Prep Date: | 7/9/2012  |     | Analysis Date: 7/12/2012 |             | SeqNo: 113893                                 |          | Units: mg/L |        |          |      |
| Analyte    | Result    | PQL | SPK value                | SPK Ref Val | %REC                                          | LowLimit | HighLimit   | %RPD   | RPDLimit | Qual |
| Calcium    | 51        | 1.0 | 50.00                    | 0           | 103                                           | 80       | 120         | 0.0624 | 20       |      |
| Magnesium  | 51        | 1.0 | 50.00                    | 0           | 102                                           | 80       | 120         | 0.108  | 20       |      |
| Potassium  | 48        | 1.0 | 50.00                    | 0           | 96.4                                          | 80       | 120         | 0.468  | 20       |      |
| Sodium     | 50        | 1.0 | 50.00                    | 0           | 99.6                                          | 80       | 120         | 0.0984 | 20       |      |

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RL Reporting Detection Limit

# Sample Log-In Check List

Client Name: CYP Work Order Number: 1206C58

Received by/date: *dm* 06/29/12

Logged By: Ashley Gallegos 6/29/2012 12:00:00 PM *Ag*

Completed By: Ashley Gallegos 6/29/2012 2:12:57 PM *Ag*

Reviewed By: *mg* 06/29/12

## Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

## Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH: *2*
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted? *<2 or >12 unless noted*
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by: *NO JB*

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

18. Additional remarks:

## 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.0     | Good      | Yes         |         |           |           |

| Chain-of-Custody Record                                                                                                                                                                                                                                                                                                                                                                            |       |                    |                    | Turn-Around Time:                                                                                                                                                                                                             |                                |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------|
| Client: <u>Cypress Engineering Services</u><br>Address: <u>ATTN: George Robinson, PE</u><br><u>1111 Highway 6 North</u><br><u>Suite 102 Houston, TX 77068</u><br>Phone #: <u>281.797.3420</u><br>Email or Fax#: <u>george.robinson@cypressinc.us</u><br>QA/QC Package: <u>Cypress Inc. n.s.</u><br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation) |       |                    |                    | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush<br>Project Name: <u>TwP Raswell Station 9</u><br>Project #: <u>Monthly Discharge Sampling 2012, June 12</u><br>Project Manager: <u>Sandy Sharp</u> |                                |          |
| Sampler: <u>CM Barnhi: 11/2/08</u><br>On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Sample Temperature: <u>1.0°</u>                                                                                                                                                                                                                                               |       |                    |                    | HEAL No. <u>12010058</u><br><u>-001</u><br><u>-002</u><br><u>-003</u>                                                                                                                                                         |                                |          |
| Date                                                                                                                                                                                                                                                                                                                                                                                               | Time  | Matrix             | Sample Request ID  | Container Type and #                                                                                                                                                                                                          | Preservative Type              | HEAL No. |
| 6/28/12                                                                                                                                                                                                                                                                                                                                                                                            | 11:45 | H <sub>2</sub> O   | Pre-Treatment      | 3x40mL Vials                                                                                                                                                                                                                  | HCl                            | -001     |
| 6/28/12                                                                                                                                                                                                                                                                                                                                                                                            | 11:45 | H <sub>2</sub> O   | Post-Hic Steigen   | ↓                                                                                                                                                                                                                             | ↓                              | -002     |
| 6/28/12                                                                                                                                                                                                                                                                                                                                                                                            | 11:45 | H <sub>2</sub> O   | Between Gals       | ↓                                                                                                                                                                                                                             | ↓                              | -003     |
| 6/28/12                                                                                                                                                                                                                                                                                                                                                                                            | 11:45 | H <sub>2</sub> O   | Post-Treatment     | 3x40mL Vials                                                                                                                                                                                                                  | HCl                            | -004     |
| ↓                                                                                                                                                                                                                                                                                                                                                                                                  | ↓     | H <sub>2</sub> O   | ↓                  | 1x125mL plastic                                                                                                                                                                                                               | None                           | -004     |
| ↓                                                                                                                                                                                                                                                                                                                                                                                                  | ↓     | H <sub>2</sub> O   | ↓                  | 1x125mL plastic                                                                                                                                                                                                               | H <sub>2</sub> SO <sub>4</sub> | -004     |
| ↓                                                                                                                                                                                                                                                                                                                                                                                                  | ↓     | H <sub>2</sub> O   | * Field Filtrate   | 3x125mL plastic                                                                                                                                                                                                               | HNO <sub>3</sub>               | -004     |
|                                                                                                                                                                                                                                                                                                                                                                                                    |       | H <sub>2</sub> O   | TwP Blank          | 2x40mL Vials                                                                                                                                                                                                                  | HCl                            | -005     |
|                                                                                                                                                                                                                                                                                                                                                                                                    |       |                    |                    |                                                                                                                                                                                                                               |                                |          |
|                                                                                                                                                                                                                                                                                                                                                                                                    |       |                    |                    |                                                                                                                                                                                                                               |                                |          |
| Date:                                                                                                                                                                                                                                                                                                                                                                                              | Time: | Relinquished by:   | Received by:       | Date                                                                                                                                                                                                                          | Time                           |          |
| 6/28/12                                                                                                                                                                                                                                                                                                                                                                                            | 1430  | <u>[Signature]</u> | <u>[Signature]</u> | 6/28/12                                                                                                                                                                                                                       | 1200                           |          |
| Date:                                                                                                                                                                                                                                                                                                                                                                                              | Time: | Relinquished by:   | Received by:       | Date                                                                                                                                                                                                                          | Time                           |          |



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

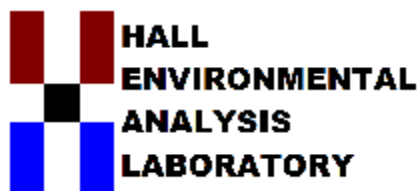
Analysis Request

| Analysis                                                                               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| BTX + MTBE + TMB's (4021)                                                              | X | X | X |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BTX + MTBE + TPH (Gas only)                                                            |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| TPH 8015B (GRO / DRO / MRO)                                                            |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| TPH (Method 418.1)                                                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| EDB (Method 504.1)                                                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| PAH's (8310 or 8270 SIMS)                                                              |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 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                                                           |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| <del>8260B (VOA)</del>                                                                 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 8270 (Semi-VOA)                                                                        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Major Cations                                                                          |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| By: 6010 C                                                                             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| * Field Blank                                                                          |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |

Remarks: Any Questions Please Call Sandy Sharpe 281.797.3421

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any subcontracted data will be clearly noted on the analytical report.





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

August 22, 2012

Sandra Sharp  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3421  
FAX

RE: TWP Roswell Station 9

OrderNo.: 1207B45

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/26/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207B45

Date Reported: 8/22/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Pre-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 7/25/2012 12:45:00 PM

**Lab ID:** 1207B45-001

**Matrix:** AQUEOUS

**Received Date:** 7/26/2012

| Analyses                           | Result | RL     | Qual | Units | DF  | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|-----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |     | Analyst: NSB         |
| Benzene                            | 2900   | 100    |      | µg/L  | 100 | 7/26/2012 7:08:42 PM |
| Toluene                            | 4600   | 100    |      | µg/L  | 100 | 7/26/2012 7:08:42 PM |
| Ethylbenzene                       | 260    | 100    |      | µg/L  | 100 | 7/26/2012 7:08:42 PM |
| Xylenes, Total                     | 2700   | 200    |      | µg/L  | 100 | 7/26/2012 7:08:42 PM |
| Surr: 4-Bromofluorobenzene         | 92.3   | 55-140 |      | %REC  | 100 | 7/26/2012 7:08:42 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207B45

Date Reported: 8/22/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Air Stripper

**Project:** TWP Roswell Station 9

**Collection Date:** 7/25/2012 12:45:00 PM

**Lab ID:** 1207B45-002

**Matrix:** AQUEOUS

**Received Date:** 7/26/2012

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB         |
| Benzene                            | 170    | 10     |      | µg/L  | 10 | 7/27/2012 4:36:29 PM |
| Toluene                            | 270    | 10     |      | µg/L  | 10 | 7/27/2012 4:36:29 PM |
| Ethylbenzene                       | 12     | 1.0    |      | µg/L  | 1  | 7/26/2012 8:08:56 PM |
| Xylenes, Total                     | 130    | 2.0    |      | µg/L  | 1  | 7/26/2012 8:08:56 PM |
| Surr: 4-Bromofluorobenzene         | 92.9   | 55-140 |      | %REC  | 1  | 7/26/2012 8:08:56 PM |

**Qualifiers:**

- \* /X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207B45

Date Reported: 8/22/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Between GAC's

**Project:** TWP Roswell Station 9

**Collection Date:** 7/25/2012 12:45:00 PM

**Lab ID:** 1207B45-003

**Matrix:** AQUEOUS

**Received Date:** 7/26/2012

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB         |
| Benzene                            | 1.8    | 1.0    |      | µg/L  | 1  | 7/27/2012 5:06:41 PM |
| Toluene                            | ND     | 1.0    |      | µg/L  | 1  | 7/27/2012 5:06:41 PM |
| Ethylbenzene                       | ND     | 1.0    |      | µg/L  | 1  | 7/27/2012 5:06:41 PM |
| Xylenes, Total                     | ND     | 2.0    |      | µg/L  | 1  | 7/27/2012 5:06:41 PM |
| Surr: 4-Bromofluorobenzene         | 82.9   | 55-140 |      | %REC  | 1  | 7/27/2012 5:06:41 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207B45

Date Reported: 8/22/2012

CLIENT: Cypress Engineering

Client Sample ID: Post Treatment

Project: TWP Roswell Station 9

Collection Date: 7/25/2012 12:45:00 PM

Lab ID: 1207B45-004

Matrix: AQUEOUS

Received Date: 7/26/2012

| Analyses                                  | Result | RL   | Qual | Units | DF | Date Analyzed         |
|-------------------------------------------|--------|------|------|-------|----|-----------------------|
| <b>EPA METHOD 300.0: ANIONS</b>           |        |      |      |       |    | Analyst: SRM          |
| Fluoride                                  | 14     | 0.50 | *    | mg/L  | 5  | 7/28/2012 2:53:54 AM  |
| Chloride                                  | 430    | 25   |      | mg/L  | 50 | 7/28/2012 3:06:19 AM  |
| Nitrogen, Nitrite (As N)                  | ND     | 2.0  |      | mg/L  | 20 | 7/26/2012 10:54:50 PM |
| Bromide                                   | 0.44   | 0.10 |      | mg/L  | 1  | 7/26/2012 10:42:25 PM |
| Nitrogen, Nitrate (As N)                  | ND     | 0.10 |      | mg/L  | 1  | 7/26/2012 10:42:25 PM |
| Phosphorus, Orthophosphate (As P)         | ND     | 10   |      | mg/L  | 20 | 7/26/2012 10:54:50 PM |
| Sulfate                                   | 1200   | 25   |      | mg/L  | 50 | 7/28/2012 3:06:19 AM  |
| <b>EPA METHOD 200.7: DISSOLVED METALS</b> |        |      |      |       |    | Analyst: JLF          |
| Calcium                                   | 460    | 10   |      | mg/L  | 10 | 8/15/2012 12:38:14 PM |
| Magnesium                                 | 140    | 10   |      | mg/L  | 10 | 8/15/2012 12:38:14 PM |
| Potassium                                 | 3.0    | 1.0  |      | mg/L  | 1  | 8/16/2012 3:12:51 PM  |
| Sodium                                    | 200    | 10   |      | mg/L  | 10 | 8/15/2012 12:38:14 PM |
| <b>EPA METHOD 8260B: VOLATILES</b>        |        |      |      |       |    | Analyst: DJF          |
| Benzene                                   | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Toluene                                   | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Ethylbenzene                              | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Methyl tert-butyl ether (MTBE)            | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| 1,2,4-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| 1,3,5-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| 1,2-Dichloroethane (EDC)                  | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| 1,2-Dibromoethane (EDB)                   | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Naphthalene                               | ND     | 2.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| 1-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| 2-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Acetone                                   | 28     | 10   |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Bromobenzene                              | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Bromodichloromethane                      | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Bromoform                                 | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Bromomethane                              | ND     | 3.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| 2-Butanone                                | ND     | 10   |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Carbon disulfide                          | ND     | 10   |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Carbon Tetrachloride                      | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Chlorobenzene                             | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Chloroethane                              | ND     | 2.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Chloroform                                | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| Chloromethane                             | ND     | 3.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| 2-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| 4-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| cis-1,2-DCE                               | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| cis-1,3-Dichloropropene                   | ND     | 1.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |
| 1,2-Dibromo-3-chloropropane               | ND     | 2.0  |      | µg/L  | 1  | 8/3/2012 6:07:28 PM   |

**Qualifiers:** \*/X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207B45

Date Reported: 8/22/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 7/25/2012 12:45:00 PM

**Lab ID:** 1207B45-004

**Matrix:** AQUEOUS

**Received Date:** 7/26/2012

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: DJF        |
| Dibromochloromethane               | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Dibromomethane                     | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Dichlorodifluoromethane            | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,1-Dichloroethane                 | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,1-Dichloroethene                 | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,2-Dichloropropane                | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,3-Dichloropropane                | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 2,2-Dichloropropane                | ND     | 2.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,1-Dichloropropene                | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Hexachlorobutadiene                | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 2-Hexanone                         | ND     | 10     |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| n-Butylbenzene                     | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 8/3/2012 6:07:28 PM |
| Surr: 1,2-Dichloroethane-d4        | 91.4   | 70-130 |      | %REC  | 1  | 8/3/2012 6:07:28 PM |
| Surr: 4-Bromofluorobenzene         | 99.5   | 70-130 |      | %REC  | 1  | 8/3/2012 6:07:28 PM |
| Surr: Dibromofluoromethane         | 89.0   | 70-130 |      | %REC  | 1  | 8/3/2012 6:07:28 PM |
| Surr: Toluene-d8                   | 105    | 70-130 |      | %REC  | 1  | 8/3/2012 6:07:28 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207B45

Date Reported: 8/22/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** TWP Roswell Station 9

**Collection Date:**

**Lab ID:** 1207B45-005

**Matrix:** AQUEOUS

**Received Date:** 7/26/2012

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|-----|------|-------|----|---------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: DJF        |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,1-Dichloroethane                 | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,1-Dichloroethene                 | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1207B45

Date Reported: 8/22/2012

CLIENT: Cypress Engineering

Client Sample ID: Trip Blank

Project: TWP Roswell Station 9

Collection Date:

Lab ID: 1207B45-005

Matrix: AQUEOUS

Received Date: 7/26/2012

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed       |
|------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: DJF        |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| n-Butylbenzene                     | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 8/3/2012 7:32:11 PM |
| Surr: 1,2-Dichloroethane-d4        | 95.5   | 70-130 |      | %REC  | 1  | 8/3/2012 7:32:11 PM |
| Surr: 4-Bromofluorobenzene         | 97.4   | 70-130 |      | %REC  | 1  | 8/3/2012 7:32:11 PM |
| Surr: Dibromofluoromethane         | 91.2   | 70-130 |      | %REC  | 1  | 8/3/2012 7:32:11 PM |
| Surr: Toluene-d8                   | 106    | 70-130 |      | %REC  | 1  | 8/3/2012 7:32:11 PM |

**Qualifiers:** \*/X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
U Samples with CalcVal < MDL



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207B45

22-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                       |                                 |     |                                                     |             |                    |          |           |      |          |      |
|-----------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R4878</b>          |     | RunNo: <b>4878</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:            | Analysis Date: <b>8/15/2012</b> |     | SeqNo: <b>137837</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte               | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium               | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Magnesium             | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Sodium                | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |

|                        |                                 |     |                                                     |             |                    |          |           |      |          |      |
|------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R4878</b>          |     | RunNo: <b>4878</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:             | Analysis Date: <b>8/15/2012</b> |     | SeqNo: <b>137838</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium                | 53                              | 1.0 | 50.00                                               | 0           | 105                | 85       | 115       |      |          |      |
| Magnesium              | 53                              | 1.0 | 50.00                                               | 0           | 106                | 85       | 115       |      |          |      |
| Sodium                 | 52                              | 1.0 | 50.00                                               | 0           | 104                | 85       | 115       |      |          |      |

|                                 |                                 |     |                                                     |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1207385-012AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R4878</b>          |     | RunNo: <b>4878</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>8/15/2012</b> |     | SeqNo: <b>137908</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium                         | 69                              | 1.0 | 50.00                                               | 15.39       | 106                | 70       | 130       |      |          |      |
| Magnesium                       | 58                              | 1.0 | 50.00                                               | 4.232       | 107                | 70       | 130       |      |          |      |

|                                  |                                 |     |                                                     |             |                    |          |           |       |          |      |
|----------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Sample ID <b>1207385-012AMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |       |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R4878</b>          |     | RunNo: <b>4878</b>                                  |             |                    |          |           |       |          |      |
| Prep Date:                       | Analysis Date: <b>8/15/2012</b> |     | SeqNo: <b>137909</b>                                |             | Units: <b>mg/L</b> |          |           |       |          |      |
| Analyte                          | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Calcium                          | 69                              | 1.0 | 50.00                                               | 15.39       | 107                | 70       | 130       | 0.635 | 20       |      |
| Magnesium                        | 58                              | 1.0 | 50.00                                               | 4.232       | 107                | 70       | 130       | 0.308 | 20       |      |

|                                 |                                 |     |                                                     |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1207385-012AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R4878</b>          |     | RunNo: <b>4878</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>8/15/2012</b> |     | SeqNo: <b>137911</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sodium                          | 320                             | 5.0 | 250.0                                               | 62.39       | 103                | 70       | 130       |      |          |      |

|                                  |                                 |     |                                                     |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1207385-012AMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R4878</b>          |     | RunNo: <b>4878</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>8/15/2012</b> |     | SeqNo: <b>137912</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sodium                           | 310                             | 5.0 | 250.0                                               | 62.39       | 100                | 70       | 130       | 1.70 | 20       |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207B45

22-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                       |                                 |     |           |                                                     |      |          |                    |      |          |      |
|-----------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|----------|--------------------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |      |          |                    |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R4916</b>          |     |           | RunNo: <b>4916</b>                                  |      |          |                    |      |          |      |
| Prep Date:            | Analysis Date: <b>8/16/2012</b> |     |           | SeqNo: <b>138937</b>                                |      |          | Units: <b>mg/L</b> |      |          |      |
| Analyte               | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Potassium             | ND                              | 1.0 |           |                                                     |      |          |                    |      |          |      |

|                        |                                 |     |           |                                                     |      |          |                    |      |          |      |
|------------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|----------|--------------------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |      |          |                    |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R4916</b>          |     |           | RunNo: <b>4916</b>                                  |      |          |                    |      |          |      |
| Prep Date:             | Analysis Date: <b>8/16/2012</b> |     |           | SeqNo: <b>138938</b>                                |      |          | Units: <b>mg/L</b> |      |          |      |
| Analyte                | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Potassium              | 51                              | 1.0 | 50.00     | 0                                                   | 103  | 85       | 115                |      |          |      |

|                       |                                 |     |           |                                                     |      |          |                    |      |          |      |
|-----------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|----------|--------------------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |      |          |                    |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R4916</b>          |     |           | RunNo: <b>4916</b>                                  |      |          |                    |      |          |      |
| Prep Date:            | Analysis Date: <b>8/16/2012</b> |     |           | SeqNo: <b>138978</b>                                |      |          | Units: <b>mg/L</b> |      |          |      |
| Analyte               | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Potassium             | ND                              | 1.0 |           |                                                     |      |          |                    |      |          |      |

|                        |                                 |     |           |                                                     |      |          |                    |      |          |      |
|------------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|----------|--------------------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |      |          |                    |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R4916</b>          |     |           | RunNo: <b>4916</b>                                  |      |          |                    |      |          |      |
| Prep Date:             | Analysis Date: <b>8/16/2012</b> |     |           | SeqNo: <b>138979</b>                                |      |          | Units: <b>mg/L</b> |      |          |      |
| Analyte                | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Potassium              | 50                              | 1.0 | 50.00     | 0                                                   | 101  | 85       | 115                |      |          |      |

|                                 |                                 |     |           |                                                     |      |          |                    |      |          |      |
|---------------------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|----------|--------------------|------|----------|------|
| Sample ID <b>1207906-002AMS</b> | SampType: <b>MS</b>             |     |           | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |      |          |                    |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R4916</b>          |     |           | RunNo: <b>4916</b>                                  |      |          |                    |      |          |      |
| Prep Date:                      | Analysis Date: <b>8/16/2012</b> |     |           | SeqNo: <b>138984</b>                                |      |          | Units: <b>mg/L</b> |      |          |      |
| Analyte                         | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Potassium                       | 52                              | 1.0 | 50.00     | 0.9206                                              | 102  | 70       | 130                |      |          |      |

|                                  |                                 |     |           |                                                     |      |          |                    |      |          |      |
|----------------------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|----------|--------------------|------|----------|------|
| Sample ID <b>1207906-002AMSD</b> | SampType: <b>MSD</b>            |     |           | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |      |          |                    |      |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R4916</b>          |     |           | RunNo: <b>4916</b>                                  |      |          |                    |      |          |      |
| Prep Date:                       | Analysis Date: <b>8/16/2012</b> |     |           | SeqNo: <b>138985</b>                                |      |          | Units: <b>mg/L</b> |      |          |      |
| Analyte                          | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Potassium                        | 54                              | 1.0 | 50.00     | 0.9206                                              | 106  | 70       | 130                | 3.76 | 20       |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207B45

22-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>MB</b>               | SampType: <b>MBLK</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>             | Batch ID: <b>R4455</b>          |      | RunNo: <b>4455</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>7/26/2012</b> |      | SeqNo: <b>124363</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrogen, Nitrite (As N)          | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Bromide                           | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Nitrogen, Nitrate (As N)          | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P) | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |

| Sample ID <b>LCS</b>              | SampType: <b>LCS</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>            | Batch ID: <b>R4455</b>          |      | RunNo: <b>4455</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>7/26/2012</b> |      | SeqNo: <b>124364</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrogen, Nitrite (As N)          | 0.94                            | 0.10 | 1.000                                     | 0           | 94.0               | 90       | 110       |      |          |      |
| Bromide                           | 2.5                             | 0.10 | 2.500                                     | 0           | 100                | 90       | 110       |      |          |      |
| Nitrogen, Nitrate (As N)          | 2.6                             | 0.10 | 2.500                                     | 0           | 104                | 90       | 110       |      |          |      |
| Phosphorus, Orthophosphate (As P) | 5.1                             | 0.50 | 5.000                                     | 0           | 102                | 90       | 110       |      |          |      |

| Sample ID <b>1207B25-002AMS</b> | SampType: <b>MS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R4455</b>          |      | RunNo: <b>4455</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>7/26/2012</b> |      | SeqNo: <b>124366</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                         | 2.8                             | 0.10 | 2.500                                     | 0.2037      | 105                | 83.3     | 107       |      |          |      |

| Sample ID <b>1207B25-002AMSD</b> | SampType: <b>MSD</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R4455</b>          |      | RunNo: <b>4455</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>7/26/2012</b> |      | SeqNo: <b>124367</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                          | 2.9                             | 0.10 | 2.500                                     | 0.2037      | 107                | 83.3     | 107       | 1.50 | 20       |      |

| Sample ID <b>1207B24-002AMS</b> | SampType: <b>MS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R4455</b>          |      | RunNo: <b>4455</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>7/26/2012</b> |      | SeqNo: <b>124369</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                         | 2.6                             | 0.10 | 2.500                                     | 0.1728      | 95.3               | 83.3     | 107       |      |          |      |

| Sample ID <b>1207B24-002AMSD</b> | SampType: <b>MSD</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R4455</b>          |      | RunNo: <b>4455</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>7/26/2012</b> |      | SeqNo: <b>124370</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                          | 2.6                             | 0.10 | 2.500                                     | 0.1728      | 97.6               | 83.3     | 107       | 2.26 | 20       |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207B45

22-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                   |                                 |      |                                           |             |                    |          |           |      |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>               | SampType: <b>MBLK</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b>             | Batch ID: <b>R4455</b>          |      | RunNo: <b>4455</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>7/27/2012</b> |      | SeqNo: <b>124430</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrogen, Nitrite (As N)          | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Bromide                           | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Nitrogen, Nitrate (As N)          | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P) | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |

|                                   |                                 |      |                                           |             |                    |          |           |      |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>              | SampType: <b>LCS</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b>            | Batch ID: <b>R4455</b>          |      | RunNo: <b>4455</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>7/27/2012</b> |      | SeqNo: <b>124431</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrogen, Nitrite (As N)          | 0.94                            | 0.10 | 1.000                                     | 0           | 94.3               | 90       | 110       |      |          |      |
| Bromide                           | 2.5                             | 0.10 | 2.500                                     | 0           | 100                | 90       | 110       |      |          |      |
| Nitrogen, Nitrate (As N)          | 2.6                             | 0.10 | 2.500                                     | 0           | 103                | 90       | 110       |      |          |      |
| Phosphorus, Orthophosphate (As P) | 5.2                             | 0.50 | 5.000                                     | 0           | 103                | 90       | 110       |      |          |      |

|                                   |                                 |      |                                           |             |                    |          |           |      |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1207B80-007AMS</b>   | SampType: <b>MS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>         | Batch ID: <b>R4455</b>          |      | RunNo: <b>4455</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>7/27/2012</b> |      | SeqNo: <b>124441</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrogen, Nitrite (As N)          | 0.87                            | 0.10 | 1.000                                     | 0           | 86.7               | 72.5     | 111       |      |          |      |
| Bromide                           | 2.9                             | 0.10 | 2.500                                     | 0.4442      | 96.4               | 83.3     | 107       |      |          |      |
| Phosphorus, Orthophosphate (As P) | 4.6                             | 0.50 | 5.000                                     | 0           | 91.9               | 74.5     | 115       |      |          |      |

|                                   |                                 |      |                                           |             |                    |          |           |       |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Sample ID <b>1207B80-007AMSD</b>  | SampType: <b>MSD</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |       |          |      |
| Client ID: <b>BatchQC</b>         | Batch ID: <b>R4455</b>          |      | RunNo: <b>4455</b>                        |             |                    |          |           |       |          |      |
| Prep Date:                        | Analysis Date: <b>7/27/2012</b> |      | SeqNo: <b>124442</b>                      |             | Units: <b>mg/L</b> |          |           |       |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Nitrogen, Nitrite (As N)          | 0.88                            | 0.10 | 1.000                                     | 0           | 88.4               | 72.5     | 111       | 1.89  | 20       |      |
| Bromide                           | 2.8                             | 0.10 | 2.500                                     | 0.4442      | 95.5               | 83.3     | 107       | 0.724 | 20       |      |
| Phosphorus, Orthophosphate (As P) | 4.7                             | 0.50 | 5.000                                     | 0           | 94.3               | 74.5     | 115       | 2.55  | 20       |      |

|                       |                                 |      |                                           |             |                    |          |           |      |          |      |
|-----------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R4501</b>          |      | RunNo: <b>4501</b>                        |             |                    |          |           |      |          |      |
| Prep Date:            | Analysis Date: <b>7/27/2012</b> |      | SeqNo: <b>126140</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte               | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride              | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Chloride              | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |
| Sulfate               | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207B45

22-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |        |      |                          |             |                                    |          |             |      |          |      |
|------------|--------|------|--------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | LCS    |      | SampType: LCS            |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | LCSW   |      | Batch ID: R4501          |             | RunNo: 4501                        |          |             |      |          |      |
| Prep Date: |        |      | Analysis Date: 7/27/2012 |             | SeqNo: 126141                      |          | Units: mg/L |      |          |      |
| Analyte    | Result | PQL  | SPK value                | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride   | 0.50   | 0.10 | 0.5000                   | 0           | 100                                | 90       | 110         |      |          |      |
| Chloride   | 4.8    | 0.50 | 5.000                    | 0           | 96.6                               | 90       | 110         |      |          |      |
| Sulfate    | 10     | 0.50 | 10.00                    | 0           | 99.8                               | 90       | 110         |      |          |      |

|            |                |      |                          |             |                                    |          |             |      |          |      |
|------------|----------------|------|--------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | 1207B94-001AMS |      | SampType: MS             |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | BatchQC        |      | Batch ID: R4501          |             | RunNo: 4501                        |          |             |      |          |      |
| Prep Date: |                |      | Analysis Date: 7/27/2012 |             | SeqNo: 126143                      |          | Units: mg/L |      |          |      |
| Analyte    | Result         | PQL  | SPK value                | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride   | 0.58           | 0.10 | 0.5000                   | 0           | 115                                | 76.6     | 110         |      |          | S    |
| Sulfate    | 37             | 0.50 | 10.00                    | 26.28       | 111                                | 84.6     | 122         |      |          |      |

|            |                 |      |                          |             |                                    |          |             |       |          |      |  |
|------------|-----------------|------|--------------------------|-------------|------------------------------------|----------|-------------|-------|----------|------|--|
| Sample ID  | 1207B94-001AMSD |      | SampType: MSD            |             | TestCode: EPA Method 300.0: Anions |          |             |       |          |      |  |
| Client ID: | BatchQC         |      | Batch ID: R4501          |             | RunNo: 4501                        |          |             |       |          |      |  |
| Prep Date: |                 |      | Analysis Date: 7/27/2012 |             | SeqNo: 126144                      |          | Units: mg/L |       |          |      |  |
| Analyte    | Result          | PQL  | SPK value                | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD  | RPDLimit | Qual |  |
| Fluoride   | 0.59            | 0.10 | 0.5000                   | 0           | 118                                | 76.6     | 110         | 2.09  | 20       | S    |  |
| Sulfate    | 38              | 0.50 | 10.00                    | 26.28       | 113                                | 84.6     | 122         | 0.506 | 20       |      |  |

|            |                |      |                          |             |                                    |          |             |      |          |      |
|------------|----------------|------|--------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | 1207C08-001BMS |      | SampType: MS             |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | BatchQC        |      | Batch ID: R4501          |             | RunNo: 4501                        |          |             |      |          |      |
| Prep Date: |                |      | Analysis Date: 7/27/2012 |             | SeqNo: 126147                      |          | Units: mg/L |      |          |      |
| Analyte    | Result         | PQL  | SPK value                | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride   | 0.61           | 0.10 | 0.5000                   | 0.1539      | 91.0                               | 76.6     | 110         |      |          |      |

|            |                  |      |                          |             |                                    |          |             |      |          |      |
|------------|------------------|------|--------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | 1207C08-001BMSSD |      | SampType: MSD            |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | BatchQC          |      | Batch ID: R4501          |             | RunNo: 4501                        |          |             |      |          |      |
| Prep Date: |                  |      | Analysis Date: 7/27/2012 |             | SeqNo: 126148                      |          | Units: mg/L |      |          |      |
| Analyte    | Result           | PQL  | SPK value                | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride   | 0.62             | 0.10 | 0.5000                   | 0.1539      | 92.8                               | 76.6     | 110         | 1.43 | 20       |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207B45

22-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5ML RB</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>R4462</b>          |     | RunNo: <b>4462</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>7/26/2012</b> |     | SeqNo: <b>124682</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                    | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Toluene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Ethylbenzene               | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Xylenes, Total             | ND                              | 2.0 |                                              |             |                    |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 17                              |     | 20.00                                        |             | 83.0               | 55       | 140       |      |          |      |

| Sample ID <b>100NG BTEX LCS</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>          | Batch ID: <b>R4462</b>          |     | RunNo: <b>4462</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>7/26/2012</b> |     | SeqNo: <b>124683</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 21                              | 1.0 | 20.00                                        | 0           | 104                | 80       | 120       |      |          |      |
| Toluene                         | 21                              | 1.0 | 20.00                                        | 0           | 106                | 80       | 120       |      |          |      |
| Ethylbenzene                    | 21                              | 1.0 | 20.00                                        | 0           | 105                | 80       | 120       |      |          |      |
| Xylenes, Total                  | 65                              | 2.0 | 60.00                                        | 0           | 109                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 18                              |     | 20.00                                        |             | 88.0               | 55       | 140       |      |          |      |

| Sample ID <b>1207B39-001AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R4462</b>          |     | RunNo: <b>4462</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>7/26/2012</b> |     | SeqNo: <b>124685</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 110                             | 5.0 | 100.0                                        | 0           | 110                | 70.1     | 118       |      |          |      |
| Toluene                         | 110                             | 5.0 | 100.0                                        | 0.9600      | 108                | 72.3     | 117       |      |          |      |
| Ethylbenzene                    | 110                             | 5.0 | 100.0                                        | 0.6900      | 106                | 73.5     | 117       |      |          |      |
| Xylenes, Total                  | 330                             | 10  | 300.0                                        | 0           | 109                | 73.1     | 119       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 86                              |     | 100.0                                        |             | 86.1               | 55       | 140       |      |          |      |

| Sample ID <b>1207B39-001AMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R4462</b>          |     | RunNo: <b>4462</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>7/26/2012</b> |     | SeqNo: <b>124686</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 110                             | 5.0 | 100.0                                        | 0           | 107                | 70.1     | 118       | 2.89 | 16.4     |      |
| Toluene                          | 110                             | 5.0 | 100.0                                        | 0.9600      | 105                | 72.3     | 117       | 3.04 | 13.9     |      |
| Ethylbenzene                     | 100                             | 5.0 | 100.0                                        | 0.6900      | 103                | 73.5     | 117       | 2.93 | 13.5     |      |
| Xylenes, Total                   | 320                             | 10  | 300.0                                        | 0           | 106                | 73.1     | 119       | 3.50 | 12.9     |      |
| Surr: 4-Bromofluorobenzene       | 96                              |     | 100.0                                        |             | 95.8               | 55       | 140       | 0    | 0        |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207B45

22-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5ML RB</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>R4480</b>          |     | RunNo: <b>4480</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>7/27/2012</b> |     | SeqNo: <b>125484</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                    | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Toluene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Ethylbenzene               | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Xylenes, Total             | ND                              | 2.0 |                                              |             |                    |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 18                              |     | 20.00                                        |             | 88.5               | 55       | 140       |      |          |      |

| Sample ID <b>100NG BTEX LCS</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>          | Batch ID: <b>R4480</b>          |     | RunNo: <b>4480</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>7/27/2012</b> |     | SeqNo: <b>125485</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 22                              | 1.0 | 20.00                                        | 0           | 109                | 80       | 120       |      |          |      |
| Toluene                         | 22                              | 1.0 | 20.00                                        | 0           | 112                | 80       | 120       |      |          |      |
| Ethylbenzene                    | 22                              | 1.0 | 20.00                                        | 0           | 111                | 80       | 120       |      |          |      |
| Xylenes, Total                  | 68                              | 2.0 | 60.00                                        | 0           | 113                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 18                              |     | 20.00                                        |             | 88.8               | 55       | 140       |      |          |      |

| Sample ID <b>1207B89-001AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R4480</b>          |     | RunNo: <b>4480</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>7/27/2012</b> |     | SeqNo: <b>125487</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 170                             | 5.0 | 100.0                                        | 60.73       | 111                | 70.1     | 118       |      |          |      |
| Toluene                         | 200                             | 5.0 | 100.0                                        | 86.13       | 114                | 72.3     | 117       |      |          |      |
| Ethylbenzene                    | 120                             | 5.0 | 100.0                                        | 6.770       | 115                | 73.5     | 117       |      |          |      |
| Xylenes, Total                  | 400                             | 10  | 300.0                                        | 43.85       | 117                | 73.1     | 119       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 94                              |     | 100.0                                        |             | 93.6               | 55       | 140       |      |          |      |

| Sample ID <b>1207B89-001AMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R4480</b>          |     | RunNo: <b>4480</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>7/27/2012</b> |     | SeqNo: <b>125488</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 170                             | 5.0 | 100.0                                        | 60.73       | 106                | 70.1     | 118       | 3.09 | 16.4     |      |
| Toluene                          | 190                             | 5.0 | 100.0                                        | 86.13       | 107                | 72.3     | 117       | 3.61 | 13.9     |      |
| Ethylbenzene                     | 120                             | 5.0 | 100.0                                        | 6.770       | 110                | 73.5     | 117       | 3.98 | 13.5     |      |
| Xylenes, Total                   | 380                             | 10  | 300.0                                        | 43.85       | 113                | 73.1     | 119       | 3.65 | 12.9     |      |
| Surr: 4-Bromofluorobenzene       | 91                              |     | 100.0                                        |             | 91.2               | 55       | 140       | 0    | 0        |      |

### Qualifiers:

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ND Not Detected at the Reporting Limit  
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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207B45

22-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                |        |                |           |             |                             |          |           |      |          |      |
|--------------------------------|--------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                      | 5ml rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                     | PBW    | Batch ID:      | R4676     | RunNo:      | 4676                        |          |           |      |          |      |
| Prep Date:                     |        | Analysis Date: | 8/3/2012  | SeqNo:      | 132507                      | Units:   | µg/L      |      |          |      |
| Analyte                        | Result | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Toluene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Ethylbenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Naphthalene                    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| 2-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| Acetone                        | ND     | 10             |           |             |                             |          |           |      |          |      |
| Bromobenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromodichloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromoform                      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromomethane                   | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Butanone                     | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon disulfide               | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon Tetrachloride           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chlorobenzene                  | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloroethane                   | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Chloroform                     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloromethane                  | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,2-DCE                    | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,3-Dichloropropene        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Dibromochloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dibromomethane                 | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,4-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dichlorodifluoromethane        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethane             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethene             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 2,2-Dichloropropane            | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloropropene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Hexachlorobutadiene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207B45

22-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5ml rb</b>     | SampType: <b>MBLK</b>          |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|--------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>       | Batch ID: <b>R4676</b>         |     |           | RunNo: <b>4676</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>8/3/2012</b> |     |           | SeqNo: <b>132507</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| 2-Hexanone                  | ND                             | 10  |           |                                              |      |                    |           |      |          |      |
| Isopropylbenzene            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Isopropyltoluene          | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Methyl-2-pentanone        | ND                             | 10  |           |                                              |      |                    |           |      |          |      |
| Methylene Chloride          | ND                             | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Butylbenzene              | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| n-Propylbenzene             | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| sec-Butylbenzene            | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Styrene                     | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| tert-Butylbenzene           | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND                             | 2.0 |           |                                              |      |                    |           |      |          |      |
| Tetrachloroethene (PCE)     | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,2-DCE               | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,3-Dichloropropene   | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1-Trichloroethane       | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2-Trichloroethane       | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichloroethene (TCE)       | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichlorofluoromethane      | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichloropropane      | ND                             | 2.0 |           |                                              |      |                    |           |      |          |      |
| Vinyl chloride              | ND                             | 1.0 |           |                                              |      |                    |           |      |          |      |
| Xylenes, Total              | ND                             | 1.5 |           |                                              |      |                    |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.3                            |     | 10.00     |                                              | 83.1 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 12                             |     | 10.00     |                                              | 118  | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.6                            |     | 10.00     |                                              | 95.8 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8            | 11                             |     | 10.00     |                                              | 112  | 70                 | 130       |      |          |      |

| Sample ID <b>100ng lcsb</b> | SampType: <b>LCS</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|--------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>R4676</b>         |     |           | RunNo: <b>4676</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>8/3/2012</b> |     |           | SeqNo: <b>132509</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 19                             | 1.0 | 20.00     | 0                                            | 96.8 | 70                 | 130       |      |          |      |
| Toluene                     | 21                             | 1.0 | 20.00     | 0                                            | 105  | 80                 | 120       |      |          |      |
| Chlorobenzene               | 20                             | 1.0 | 20.00     | 0                                            | 102  | 70                 | 130       |      |          |      |
| 1,1-Dichloroethene          | 18                             | 1.0 | 20.00     | 0                                            | 89.3 | 73.7               | 122       |      |          |      |
| Trichloroethene (TCE)       | 18                             | 1.0 | 20.00     | 0                                            | 88.5 | 70                 | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.5                            |     | 10.00     |                                              | 95.2 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.7                            |     | 10.00     |                                              | 96.9 | 70                 | 130       |      |          |      |

### Qualifiers:

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H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207B45

22-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>100ng lcsb</b> | SampType: <b>LCS</b>           |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
|-----------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>R4676</b>         |     | RunNo: <b>4676</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>8/3/2012</b> |     | SeqNo: <b>132509</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: Dibromofluoromethane  | 7.6                            |     | 10.00                                        |             | 76.4               | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 10                             |     | 10.00                                        |             | 104                | 70       | 130       |      |          |      |

| Sample ID <b>1207b45-004a ms</b> | SampType: <b>MS</b>            |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
|----------------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>Post Treatment</b> | Batch ID: <b>R4676</b>         |     | RunNo: <b>4676</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>8/3/2012</b> |     | SeqNo: <b>132510</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                          | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 15                             | 1.0 | 20.00                                        | 0           | 73.4               | 66.8     | 128       |      |          |      |
| Toluene                          | 15                             | 1.0 | 20.00                                        | 0           | 75.4               | 70       | 130       |      |          |      |
| Chlorobenzene                    | 15                             | 1.0 | 20.00                                        | 0           | 74.4               | 70       | 130       |      |          |      |
| 1,1-Dichloroethene               | 14                             | 1.0 | 20.00                                        | 0           | 69.2               | 70       | 130       |      |          | S    |
| Trichloroethene (TCE)            | 13                             | 1.0 | 20.00                                        | 0           | 63.4               | 70       | 130       |      |          | S    |
| Surr: 1,2-Dichloroethane-d4      | 9.3                            |     | 10.00                                        |             | 93.2               | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 10                             |     | 10.00                                        |             | 102                | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 8.9                            |     | 10.00                                        |             | 89.5               | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 11                             |     | 10.00                                        |             | 105                | 70       | 130       |      |          |      |

| Sample ID <b>1207b45-004a msd</b> | SampType: <b>MSD</b>           |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
|-----------------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>Post Treatment</b>  | Batch ID: <b>R4676</b>         |     | RunNo: <b>4676</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>8/3/2012</b> |     | SeqNo: <b>132511</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                           | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 14                             | 1.0 | 20.00                                        | 0           | 71.4               | 66.8     | 128       | 2.75 | 16.7     |      |
| Toluene                           | 15                             | 1.0 | 20.00                                        | 0           | 72.7               | 70       | 130       | 3.73 | 18.7     |      |
| Chlorobenzene                     | 14                             | 1.0 | 20.00                                        | 0           | 71.9               | 70       | 130       | 3.39 | 19.5     |      |
| 1,1-Dichloroethene                | 13                             | 1.0 | 20.00                                        | 0           | 66.0               | 70       | 130       | 4.68 | 16.7     | S    |
| Trichloroethene (TCE)             | 12                             | 1.0 | 20.00                                        | 0           | 61.7               | 70       | 130       | 2.70 | 17.5     | S    |
| Surr: 1,2-Dichloroethane-d4       | 9.1                            |     | 10.00                                        |             | 91.2               | 70       | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene        | 10                             |     | 10.00                                        |             | 101                | 70       | 130       | 0    | 0        |      |
| Surr: Dibromofluoromethane        | 9.3                            |     | 10.00                                        |             | 93.3               | 70       | 130       | 0    | 0        |      |
| Surr: Toluene-d8                  | 10                             |     | 10.00                                        |             | 103                | 70       | 130       | 0    | 0        |      |

| Sample ID <b>5ml rb</b>     | SampType: <b>MBLK</b>          |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
|-----------------------------|--------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>       | Batch ID: <b>R4712</b>         |     | RunNo: <b>4712</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>8/7/2012</b> |     | SeqNo: <b>132770</b>                         |             | Units: <b>%REC</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 9.2                            |     | 10.00                                        |             | 92.3               | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.9                            |     | 10.00                                        |             | 99.0               | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.9                            |     | 10.00                                        |             | 99.2               | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 11                             |     | 10.00                                        |             | 106                | 70       | 130       |      |          |      |

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207B45

22-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |           |                |           |             |                             |          |           |      |          |      |
|-----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 100ng lcs | SampType:      | LCS       | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | LCSW      | Batch ID:      | R4712     | RunNo:      | 4712                        |          |           |      |          |      |
| Prep Date:                  |           | Analysis Date: | 8/7/2012  | SeqNo:      | 132771                      | Units:   | %REC      |      |          |      |
| Analyte                     | Result    | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 8.5       |                | 10.00     |             | 85.1                        | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.1       |                | 10.00     |             | 91.2                        | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.1       |                | 10.00     |             | 91.5                        | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 9.8       |                | 10.00     |             | 97.7                        | 70       | 130       |      |          |      |

### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

## Sample Log-In Check List

Client Name: CYP Work Order Number: 1207B45

Received by/date: AG 07/26/12

Logged By: Anne Thorne 7/25/2012 9:40:00 AM *Anne Thorne*

Completed By: Anne Thorne 7/26/2012 *Anne Thorne*

Reviewed By: *[Signature]* 07/26/12

### **Chain of Custody**

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

**Log In**

- |                                                                                                |     |                                     |    |                                     |              |                          |
|------------------------------------------------------------------------------------------------|-----|-------------------------------------|----|-------------------------------------|--------------|--------------------------|
| 4. Coolers are present? (see 19. for cooler specific information)                              | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            | NA           | <input type="checkbox"/> |
| 5. Was an attempt made to cool the samples?                                                    | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            | NA           | <input type="checkbox"/> |
| 6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to $6.0^{\circ}\text{C}$ | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            | NA           | <input type="checkbox"/> |
| 7. Sample(s) in proper container(s)?                                                           | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 8. Sufficient sample volume for indicated test(s)?                                             | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 9. Are samples (except VOA and ONG) properly preserved?                                        | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 10. Was preservative added to bottles?                                                         | Yes | <input type="checkbox"/>            | No | <input checked="" type="checkbox"/> | NA           | <input type="checkbox"/> |
| 11. VOA vials have zero headspace?                                                             | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            | No VOA Vials | <input type="checkbox"/> |
| 12. Were any sample containers received broken?                                                | Yes | <input type="checkbox"/>            | No | <input checked="" type="checkbox"/> |              |                          |
| 13. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)            | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 14. Are matrices correctly identified on Chain of Custody?                                     | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 15. Is it clear what analyses were requested?                                                  | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 16. Were all holding times able to be met?<br>(If no, notify customer for authorization.)      | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
- # of present bottles checked for pH:

Adjusted pH:

Check

# of preserved bottles checked \_\_\_\_\_  
for pH: 2  
(< or > 12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: MA

**Special Handling (if applicable)**

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

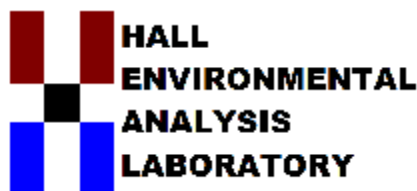
18. Additional remarks:

## 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 2.3     | Good      | Yes         |         |           |           |



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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

August 30, 2012

Sandra Sharp  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3421  
FAX

RE: TWP Roswell Station 9

OrderNo.: 1208745

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/16/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1208745

Date Reported: 8/30/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Pre-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 8/15/2012 7:30:00 AM

**Lab ID:** 1208745-001

**Matrix:** AQUEOUS

**Received Date:** 8/16/2012 12:35:00 PM

| Analyses                           | Result | RL     | Qual | Units | DF  | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|-----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |     | Analyst: NSB         |
| Benzene                            | 2900   | 100    |      | µg/L  | 100 | 8/17/2012 4:11:50 PM |
| Toluene                            | 3500   | 100    |      | µg/L  | 100 | 8/17/2012 4:11:50 PM |
| Ethylbenzene                       | 270    | 100    |      | µg/L  | 100 | 8/17/2012 4:11:50 PM |
| Xylenes, Total                     | 2300   | 200    |      | µg/L  | 100 | 8/17/2012 4:11:50 PM |
| Surr: 4-Bromofluorobenzene         | 92.0   | 55-140 |      | %REC  | 100 | 8/17/2012 4:11:50 PM |

### Qualifiers:

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
X Value exceeds Maximum Contaminant Level.

E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1208745

Date Reported: 8/30/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Air Stripper

**Project:** TWP Roswell Station 9

**Collection Date:** 8/15/2012 7:30:00 AM

**Lab ID:** 1208745-002

**Matrix:** AQUEOUS

**Received Date:** 8/16/2012 12:35:00 PM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB         |
| Benzene                            | 13     | 5.0    |      | µg/L  | 5  | 8/17/2012 4:42:04 PM |
| Toluene                            | 16     | 5.0    |      | µg/L  | 5  | 8/17/2012 4:42:04 PM |
| Ethylbenzene                       | ND     | 5.0    |      | µg/L  | 5  | 8/17/2012 4:42:04 PM |
| Xylenes, Total                     | 10     | 10     |      | µg/L  | 5  | 8/17/2012 4:42:04 PM |
| Surr: 4-Bromofluorobenzene         | 110    | 55-140 |      | %REC  | 5  | 8/17/2012 4:42:04 PM |

### Qualifiers:

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
X Value exceeds Maximum Contaminant Level.

E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1208745

Date Reported: 8/30/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Between GAC's

**Project:** TWP Roswell Station 9

**Collection Date:** 8/15/2012 7:30:00 AM

**Lab ID:** 1208745-003

**Matrix:** AQUEOUS

**Received Date:** 8/16/2012 12:35:00 PM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB         |
| Benzene                            | 1.7    | 1.0    |      | µg/L  | 1  | 8/17/2012 5:42:22 PM |
| Toluene                            | ND     | 1.0    |      | µg/L  | 1  | 8/17/2012 5:42:22 PM |
| Ethylbenzene                       | ND     | 1.0    |      | µg/L  | 1  | 8/17/2012 5:42:22 PM |
| Xylenes, Total                     | ND     | 2.0    |      | µg/L  | 1  | 8/17/2012 5:42:22 PM |
| Surr: 4-Bromofluorobenzene         | 103    | 55-140 |      | %REC  | 1  | 8/17/2012 5:42:22 PM |

**Qualifiers:**

|    |                                                    |
|----|----------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    |
| H  | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit                |
| RL | Reporting Detection Limit                          |
| X  | Value exceeds Maximum Contaminant Level.           |

|   |                                                 |
|---|-------------------------------------------------|
| E | Value above quantitation range                  |
| J | Analyte detected below quantitation limits      |
| R | RPD outside accepted recovery limits            |
| S | Spike Recovery outside accepted recovery limits |

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1208745

Date Reported: 8/30/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 8/15/2012 7:30:00 AM

**Lab ID:** 1208745-004

**Matrix:** AQUEOUS

**Received Date:** 8/16/2012 12:35:00 PM

| Analyses                                  | Result | RL   | Qual | Units | DF  | Date Analyzed         |
|-------------------------------------------|--------|------|------|-------|-----|-----------------------|
| <b>EPA METHOD 300.0: ANIONS</b>           |        |      |      |       |     | Analyst: <b>SRM</b>   |
| Fluoride                                  | 1.4    | 0.10 |      | mg/L  | 1   | 8/16/2012 7:55:23 PM  |
| Chloride                                  | 370    | 50   |      | mg/L  | 100 | 8/20/2012 3:54:19 PM  |
| Nitrogen, Nitrite (As N)                  | ND     | 2.0  |      | mg/L  | 20  | 8/16/2012 8:07:47 PM  |
| Bromide                                   | 1.9    | 0.10 |      | mg/L  | 1   | 8/16/2012 7:55:23 PM  |
| Nitrogen, Nitrate (As N)                  | 0.20   | 0.10 |      | mg/L  | 1   | 8/16/2012 7:55:23 PM  |
| Phosphorus, Orthophosphate (As P)         | ND     | 0.50 |      | mg/L  | 1   | 8/16/2012 7:55:23 PM  |
| Sulfate                                   | 700    | 10   |      | mg/L  | 20  | 8/16/2012 8:07:47 PM  |
| <b>EPA METHOD 200.7: DISSOLVED METALS</b> |        |      |      |       |     | Analyst: <b>ELS</b>   |
| Calcium                                   | 350    | 5.0  |      | mg/L  | 5   | 8/26/2012 11:45:47 AM |
| Magnesium                                 | 120    | 5.0  |      | mg/L  | 5   | 8/26/2012 11:45:47 AM |
| Potassium                                 | 2.7    | 1.0  |      | mg/L  | 1   | 8/26/2012 11:33:49 AM |
| Sodium                                    | 210    | 5.0  |      | mg/L  | 5   | 8/26/2012 11:45:47 AM |
| <b>EPA METHOD 8260B: VOLATILES</b>        |        |      |      |       |     | Analyst: <b>RAA</b>   |
| Benzene                                   | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Toluene                                   | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Ethylbenzene                              | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Methyl tert-butyl ether (MTBE)            | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| 1,2,4-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| 1,3,5-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| 1,2-Dichloroethane (EDC)                  | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| 1,2-Dibromoethane (EDB)                   | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Naphthalene                               | ND     | 2.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| 1-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| 2-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Acetone                                   | 37     | 10   |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Bromobenzene                              | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Bromodichloromethane                      | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Bromoform                                 | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Bromomethane                              | ND     | 3.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| 2-Butanone                                | ND     | 10   |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Carbon disulfide                          | ND     | 10   |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Carbon Tetrachloride                      | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Chlorobenzene                             | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Chloroethane                              | ND     | 2.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Chloroform                                | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| Chloromethane                             | ND     | 3.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| 2-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| 4-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| cis-1,2-DCE                               | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| cis-1,3-Dichloropropene                   | ND     | 1.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |
| 1,2-Dibromo-3-chloropropane               | ND     | 2.0  |      | µg/L  | 1   | 8/20/2012 11:27:18 PM |

**Qualifiers:**

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1208745

Date Reported: 8/30/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 8/15/2012 7:30:00 AM

**Lab ID:** 1208745-004

**Matrix:** AQUEOUS

**Received Date:** 8/16/2012 12:35:00 PM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: RAA          |
| Dibromochloromethane               | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Dibromomethane                     | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Dichlorodifluoromethane            | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,1-Dichloroethane                 | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,1-Dichloroethene                 | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,2-Dichloropropane                | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,3-Dichloropropane                | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 2,2-Dichloropropane                | ND     | 2.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,1-Dichloropropene                | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Hexachlorobutadiene                | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 2-Hexanone                         | ND     | 10     |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 8/20/2012 11:27:18 PM |
| Surr: 1,2-Dichloroethane-d4        | 90.9   | 70-130 |      | %REC  | 1  | 8/20/2012 11:27:18 PM |
| Surr: 4-Bromofluorobenzene         | 88.9   | 70-130 |      | %REC  | 1  | 8/20/2012 11:27:18 PM |
| Surr: Dibromofluoromethane         | 88.9   | 70-130 |      | %REC  | 1  | 8/20/2012 11:27:18 PM |
| Surr: Toluene-d8                   | 85.9   | 70-130 |      | %REC  | 1  | 8/20/2012 11:27:18 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- X Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1208745

Date Reported: 8/30/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** TWP Roswell Station 9

**Collection Date:** 8/15/2012 7:30:00 AM

**Lab ID:** 1208745-005

**Matrix:** AQUEOUS

**Received Date:** 8/16/2012 12:35:00 PM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|-----|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: RAA          |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,1-Dichloroethane                 | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,1-Dichloroethene                 | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |

**Qualifiers:**

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1208745

Date Reported: 8/30/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** TWP Roswell Station 9

**Collection Date:** 8/15/2012 7:30:00 AM

**Lab ID:** 1208745-005

**Matrix:** AQUEOUS

**Received Date:** 8/16/2012 12:35:00 PM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: RAA          |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 8/20/2012 11:54:48 PM |
| Surr: 1,2-Dichloroethane-d4        | 91.4   | 70-130 |      | %REC  | 1  | 8/20/2012 11:54:48 PM |
| Surr: 4-Bromofluorobenzene         | 87.2   | 70-130 |      | %REC  | 1  | 8/20/2012 11:54:48 PM |
| Surr: Dibromofluoromethane         | 94.0   | 70-130 |      | %REC  | 1  | 8/20/2012 11:54:48 PM |
| Surr: Toluene-d8                   | 84.4   | 70-130 |      | %REC  | 1  | 8/20/2012 11:54:48 PM |

### Qualifiers:

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
X Value exceeds Maximum Contaminant Level.

E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208745

30-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                       |                                 |     |                                                     |             |                    |          |           |      |          |      |
|-----------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R5100</b>          |     | RunNo: <b>5100</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:            | Analysis Date: <b>8/26/2012</b> |     | SeqNo: <b>144522</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte               | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium               | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Magnesium             | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Potassium             | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Sodium                | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |

|                        |                                 |     |                                                     |             |                    |          |           |      |          |      |
|------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R5100</b>          |     | RunNo: <b>5100</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:             | Analysis Date: <b>8/26/2012</b> |     | SeqNo: <b>144523</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium                | 50                              | 1.0 | 50.00                                               | 0           | 99.5               | 85       | 115       |      |          |      |
| Magnesium              | 50                              | 1.0 | 50.00                                               | 0           | 99.9               | 85       | 115       |      |          |      |
| Potassium              | 48                              | 1.0 | 50.00                                               | 0           | 96.4               | 85       | 115       |      |          |      |
| Sodium                 | 49                              | 1.0 | 50.00                                               | 0           | 97.6               | 85       | 115       |      |          |      |

|                                  |                                 |     |                                                     |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1208745-004CMS</b>  | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>Post Treatment</b> | Batch ID: <b>R5100</b>          |     | RunNo: <b>5100</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>8/26/2012</b> |     | SeqNo: <b>144525</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Potassium                        | 57                              | 1.0 | 50.00                                               | 2.730       | 108                | 70       | 130       |      |          |      |

|                                  |                                 |     |                                                     |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1208745-004CMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>Post Treatment</b> | Batch ID: <b>R5100</b>          |     | RunNo: <b>5100</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>8/26/2012</b> |     | SeqNo: <b>144526</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Potassium                        | 58                              | 1.0 | 50.00                                               | 2.730       | 111                | 70       | 130       | 1.95 | 20       |      |

|                                  |                                 |     |                                                     |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1208745-004CMS</b>  | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>Post Treatment</b> | Batch ID: <b>R5100</b>          |     | RunNo: <b>5100</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>8/26/2012</b> |     | SeqNo: <b>144528</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Magnesium                        | 410                             | 5.0 | 250.0                                               | 125.0       | 113                | 70       | 130       |      |          |      |

|                                  |                                 |     |                                                     |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1208745-004CMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>Post Treatment</b> | Batch ID: <b>R5100</b>          |     | RunNo: <b>5100</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>8/26/2012</b> |     | SeqNo: <b>144529</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Magnesium                        | 430                             | 5.0 | 250.0                                               | 125.0       | 123                | 70       | 130       | 5.92 | 20       |      |

### Qualifiers:

|    |                                                    |   |                                                 |
|----|----------------------------------------------------|---|-------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    | E | Value above quantitation range                  |
| 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            |
| RL | Reporting Detection Limit                          | S | Spike Recovery outside accepted recovery limits |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208745

30-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                  |                                 |      |                                           |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>              | SampType: <b>MBLK</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b>            | Batch ID: <b>R4917</b>          |      | RunNo: <b>4917</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>8/16/2012</b> |      | SeqNo: <b>139093</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                         | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Nitrogen, Nitrite (As N)         | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Bromide                          | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Nitrogen, Nitrate (As N)         | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |
| Sulfate                          | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |

|                                  |                                 |      |                                           |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>             | SampType: <b>LCS</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b>           | Batch ID: <b>R4917</b>          |      | RunNo: <b>4917</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>8/16/2012</b> |      | SeqNo: <b>139094</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                         | 0.47                            | 0.10 | 0.5000                                    | 0           | 94.6               | 90       | 110       |      |          |      |
| Nitrogen, Nitrite (As N)         | 0.96                            | 0.10 | 1.000                                     | 0           | 95.8               | 90       | 110       |      |          |      |
| Bromide                          | 2.4                             | 0.10 | 2.500                                     | 0           | 94.2               | 90       | 110       |      |          |      |
| Nitrogen, Nitrate (As N)         | 2.5                             | 0.10 | 2.500                                     | 0           | 99.1               | 90       | 110       |      |          |      |
| Phosphorus, Orthophosphate (As P | 4.9                             | 0.50 | 5.000                                     | 0           | 98.4               | 90       | 110       |      |          |      |
| Sulfate                          | 9.8                             | 0.50 | 10.00                                     | 0           | 97.5               | 90       | 110       |      |          |      |

|                                 |                                 |      |                                           |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1208706-001AMS</b> | SampType: <b>MS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R4917</b>          |      | RunNo: <b>4917</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>8/16/2012</b> |      | SeqNo: <b>139096</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                        | 1.4                             | 0.10 | 0.5000                                    | 0.9532      | 91.7               | 76.6     | 110       |      |          |      |
| Bromide                         | 2.8                             | 0.10 | 2.500                                     | 0.6158      | 86.0               | 83.3     | 107       |      |          |      |
| Nitrogen, Nitrate (As N)        | 2.4                             | 0.10 | 2.500                                     | 0           | 97.1               | 90.4     | 113       |      |          |      |

|                                  |                                 |      |                                           |             |                    |          |           |       |          |      |
|----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Sample ID <b>1208706-001AMSD</b> | SampType: <b>MSD</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |       |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R4917</b>          |      | RunNo: <b>4917</b>                        |             |                    |          |           |       |          |      |
| Prep Date:                       | Analysis Date: <b>8/16/2012</b> |      | SeqNo: <b>139097</b>                      |             | Units: <b>mg/L</b> |          |           |       |          |      |
| Analyte                          | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Fluoride                         | 1.4                             | 0.10 | 0.5000                                    | 0.9532      | 92.6               | 76.6     | 110       | 0.330 | 20       |      |
| Bromide                          | 2.5                             | 0.10 | 2.500                                     | 0.6158      | 73.7               | 83.3     | 107       | 11.8  | 20       | S    |
| Nitrogen, Nitrate (As N)         | 2.4                             | 0.10 | 2.500                                     | 0           | 97.5               | 90.4     | 113       | 0.418 | 20       |      |

|                                 |                                 |     |                                           |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1208713-001AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R4917</b>          |     | RunNo: <b>4917</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>8/16/2012</b> |     | SeqNo: <b>139100</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

### Qualifiers:

|    |                                                    |   |                                                 |
|----|----------------------------------------------------|---|-------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    | E | Value above quantitation range                  |
| 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            |
| RL | Reporting Detection Limit                          | S | Spike Recovery outside accepted recovery limits |



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208745

30-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                   |                                 |      |                                           |             |                    |          |           |      |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1208713-001AMS</b>   | SampType: <b>MS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>         | Batch ID: <b>R4917</b>          |      | RunNo: <b>4917</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>8/16/2012</b> |      | SeqNo: <b>139100</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                          | 0.89                            | 0.10 | 0.5000                                    | 0.4250      | 92.7               | 76.6     | 110       |      |          |      |
| Nitrogen, Nitrite (As N)          | 1.0                             | 0.10 | 1.000                                     | 0           | 104                | 72.5     | 111       |      |          |      |
| Bromide                           | 2.7                             | 0.10 | 2.500                                     | 0.2906      | 95.2               | 83.3     | 107       |      |          |      |
| Nitrogen, Nitrate (As N)          | 2.4                             | 0.10 | 2.500                                     | 0           | 96.7               | 90.4     | 113       |      |          |      |
| Phosphorus, Orthophosphate (As P) | 4.9                             | 0.50 | 5.000                                     | 0           | 98.3               | 74.5     | 115       |      |          |      |

|                                   |                                 |      |                                           |             |                    |          |           |       |          |      |
|-----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Sample ID <b>1208713-001AMSD</b>  | SampType: <b>MSD</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |       |          |      |
| Client ID: <b>BatchQC</b>         | Batch ID: <b>R4917</b>          |      | RunNo: <b>4917</b>                        |             |                    |          |           |       |          |      |
| Prep Date:                        | Analysis Date: <b>8/16/2012</b> |      | SeqNo: <b>139101</b>                      |             | Units: <b>mg/L</b> |          |           |       |          |      |
| Analyte                           | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Fluoride                          | 0.89                            | 0.10 | 0.5000                                    | 0.4250      | 92.3               | 76.6     | 110       | 0.209 | 20       |      |
| Nitrogen, Nitrite (As N)          | 1.0                             | 0.10 | 1.000                                     | 0           | 104                | 72.5     | 111       | 0.386 | 20       |      |
| Bromide                           | 2.7                             | 0.10 | 2.500                                     | 0.2906      | 94.4               | 83.3     | 107       | 0.732 | 20       |      |
| Nitrogen, Nitrate (As N)          | 2.4                             | 0.10 | 2.500                                     | 0           | 96.6               | 90.4     | 113       | 0.110 | 20       |      |
| Phosphorus, Orthophosphate (As P) | 4.9                             | 0.50 | 5.000                                     | 0           | 97.9               | 74.5     | 115       | 0.453 | 20       |      |

|                       |                                 |      |                                           |             |                    |          |           |      |          |      |
|-----------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R5000</b>          |      | RunNo: <b>5000</b>                        |             |                    |          |           |      |          |      |
| Prep Date:            | Analysis Date: <b>8/20/2012</b> |      | SeqNo: <b>141476</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte               | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride              | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |

|                        |                                 |      |                                           |             |                    |          |           |      |          |      |
|------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R5000</b>          |      | RunNo: <b>5000</b>                        |             |                    |          |           |      |          |      |
| Prep Date:             | Analysis Date: <b>8/20/2012</b> |      | SeqNo: <b>141479</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride               | 4.6                             | 0.50 | 5.000                                     | 0           | 91.9               | 90       | 110       |      |          |      |

|                                 |                                 |      |                                           |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1208840-001AMS</b> | SampType: <b>MS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R5000</b>          |      | RunNo: <b>5000</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>8/20/2012</b> |      | SeqNo: <b>141494</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                        | 9.0                             | 0.50 | 5.000                                     | 4.083       | 97.6               | 87.8     | 111       |      |          |      |

### Qualifiers:

|    |                                                    |   |                                                 |
|----|----------------------------------------------------|---|-------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    | E | Value above quantitation range                  |
| 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            |
| RL | Reporting Detection Limit                          | S | Spike Recovery outside accepted recovery limits |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208745

30-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |                 |                |           |             |                          |          |           |      |          |      |  |
|------------|-----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|--|
| Sample ID  | 1208840-001AMSD | SampType:      | MSD       | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |  |
| Client ID: | BatchQC         | Batch ID:      | R5000     | RunNo:      | 5000                     |          |           |      |          |      |  |
| Prep Date: |                 | Analysis Date: | 8/20/2012 | SeqNo:      | 141495                   | Units:   | mg/L      |      |          |      |  |
| Analyte    | Result          | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |  |
| Chloride   | 9.1             | 0.50           | 5.000     | 4.083       | 99.7                     | 87.8     | 111       | 1.15 | 20       |      |  |

### Qualifiers:

|    |                                                    |   |                                                 |
|----|----------------------------------------------------|---|-------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    | E | Value above quantitation range                  |
| 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            |
| RL | Reporting Detection Limit                          | S | Spike Recovery outside accepted recovery limits |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208745

30-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5ML RB</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>R4946</b>          |     | RunNo: <b>4946</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>8/17/2012</b> |     | SeqNo: <b>139918</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                    | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Toluene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Ethylbenzene               | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Xylenes, Total             | ND                              | 2.0 |                                              |             |                    |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 23                              |     | 20.00                                        |             | 113                | 55       | 140       |      |          |      |

| Sample ID <b>100NG BTEX LCS</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>          | Batch ID: <b>R4946</b>          |     | RunNo: <b>4946</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>8/17/2012</b> |     | SeqNo: <b>139919</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 22                              | 1.0 | 20.00                                        | 0           | 110                | 80       | 120       |      |          |      |
| Toluene                         | 22                              | 1.0 | 20.00                                        | 0           | 111                | 80       | 120       |      |          |      |
| Ethylbenzene                    | 22                              | 1.0 | 20.00                                        | 0           | 112                | 80       | 120       |      |          |      |
| Xylenes, Total                  | 67                              | 2.0 | 60.00                                        | 0           | 112                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 23                              |     | 20.00                                        |             | 115                | 55       | 140       |      |          |      |

| Sample ID <b>1208773-001AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R4946</b>          |     | RunNo: <b>4946</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>8/17/2012</b> |     | SeqNo: <b>139921</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 160                             | 5.0 | 100.0                                        | 39.62       | 116                | 74.1     | 124       |      |          |      |
| Toluene                         | 120                             | 5.0 | 100.0                                        | 1.700       | 114                | 75.2     | 124       |      |          |      |
| Ethylbenzene                    | 120                             | 5.0 | 100.0                                        | 0           | 115                | 69       | 125       |      |          |      |
| Xylenes, Total                  | 350                             | 10  | 300.0                                        | 3.340       | 115                | 73.1     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 110                             |     | 100.0                                        |             | 111                | 55       | 140       |      |          |      |

| Sample ID <b>1208773-001AMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R4946</b>          |     | RunNo: <b>4946</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>8/17/2012</b> |     | SeqNo: <b>139922</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 150                             | 5.0 | 100.0                                        | 39.62       | 110                | 74.1     | 124       | 4.39 | 11.2     |      |
| Toluene                          | 110                             | 5.0 | 100.0                                        | 1.700       | 108                | 75.2     | 124       | 5.17 | 11.9     |      |
| Ethylbenzene                     | 110                             | 5.0 | 100.0                                        | 0           | 109                | 69       | 125       | 5.39 | 13.5     |      |
| Xylenes, Total                   | 330                             | 10  | 300.0                                        | 3.340       | 109                | 73.1     | 126       | 4.75 | 13       |      |
| Surr: 4-Bromofluorobenzene       | 120                             |     | 100.0                                        |             | 117                | 55       | 140       | 0    | 0        |      |

### Qualifiers:

|    |                                                    |   |                                                 |
|----|----------------------------------------------------|---|-------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    | E | Value above quantitation range                  |
| 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            |
| RL | Reporting Detection Limit                          | S | Spike Recovery outside accepted recovery limits |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208745

30-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                |        |                |           |             |                             |          |           |      |          |      |
|--------------------------------|--------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                      | 5ml rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                     | PBW    | Batch ID:      | R4985     | RunNo:      | 4985                        |          |           |      |          |      |
| Prep Date:                     |        | Analysis Date: | 8/20/2012 | SeqNo:      | 141117                      | Units:   | µg/L      |      |          |      |
| Analyte                        | Result | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Toluene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Ethylbenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Naphthalene                    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| 2-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| Acetone                        | ND     | 10             |           |             |                             |          |           |      |          |      |
| Bromobenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromodichloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromoform                      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromomethane                   | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Butanone                     | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon disulfide               | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon Tetrachloride           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chlorobenzene                  | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloroethane                   | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Chloroform                     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloromethane                  | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,2-DCE                    | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,3-Dichloropropene        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Dibromochloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dibromomethane                 | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,4-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dichlorodifluoromethane        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethane             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethene             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 2,2-Dichloropropane            | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloropropene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Hexachlorobutadiene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |

### Qualifiers:

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208745

30-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |                                 |     |           |                                              |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>5ml rb</b>     | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
| Client ID: <b>PBW</b>       | Batch ID: <b>R4985</b>          |     |           | RunNo: <b>4985</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>8/20/2012</b> |     |           | SeqNo: <b>141117</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| 2-Hexanone                  | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Isopropylbenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Isopropyltoluene          | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Methyl-2-pentanone        | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Methylene Chloride          | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Butylbenzene              | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Propylbenzene             | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| sec-Butylbenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Styrene                     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| tert-Butylbenzene           | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Tetrachloroethene (PCE)     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,2-DCE               | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,3-Dichloropropene   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichloroethene (TCE)       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichlorofluoromethane      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichloropropane      | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Vinyl chloride              | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Xylenes, Total              | ND                              | 1.5 |           |                                              |      |                    |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.6                             |     | 10.00     |                                              | 85.6 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 8.9                             |     | 10.00     |                                              | 88.7 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 8.5                             |     | 10.00     |                                              | 84.7 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8            | 8.6                             |     | 10.00     |                                              | 86.3 | 70                 | 130       |      |          |      |

|                             |                                 |     |           |                                              |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>100ng lcs1</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSW</b>      | Batch ID: <b>R4985</b>          |     |           | RunNo: <b>4985</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>8/20/2012</b> |     |           | SeqNo: <b>141119</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 18                              | 1.0 | 20.00     | 0                                            | 89.0 | 70                 | 130       |      |          |      |
| Toluene                     | 18                              | 1.0 | 20.00     | 0                                            | 90.0 | 80                 | 120       |      |          |      |
| Chlorobenzene               | 17                              | 1.0 | 20.00     | 0                                            | 85.5 | 70                 | 130       |      |          |      |
| 1,1-Dichloroethene          | 18                              | 1.0 | 20.00     | 0                                            | 90.4 | 73.7               | 122       |      |          |      |
| Trichloroethene (TCE)       | 17                              | 1.0 | 20.00     | 0                                            | 84.9 | 70                 | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.7                             |     | 10.00     |                                              | 87.0 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 8.6                             |     | 10.00     |                                              | 85.7 | 70                 | 130       |      |          |      |

### Qualifiers:

|    |                                                    |   |                                                 |
|----|----------------------------------------------------|---|-------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    | E | Value above quantitation range                  |
| 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            |
| RL | Reporting Detection Limit                          | S | Spike Recovery outside accepted recovery limits |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208745

30-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |                                 |     |                                              |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>100ng lcs1</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b>      | Batch ID: <b>R4985</b>          |     | RunNo: <b>4985</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>8/20/2012</b> |     | SeqNo: <b>141119</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: Dibromofluoromethane  | 8.3                             |     | 10.00                                        |             | 83.2               | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 8.4                             |     | 10.00                                        |             | 83.6               | 70       | 130       |      |          |      |

|                                  |                                 |     |                                              |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1208782-001a ms</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R4985</b>          |     | RunNo: <b>4985</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>8/20/2012</b> |     | SeqNo: <b>141158</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 20                              | 1.0 | 20.00                                        | 0           | 98.7               | 66.8     | 128       |      |          |      |
| Toluene                          | 19                              | 1.0 | 20.00                                        | 0           | 95.1               | 70       | 130       |      |          |      |
| Chlorobenzene                    | 18                              | 1.0 | 20.00                                        | 0           | 91.1               | 70       | 130       |      |          |      |
| 1,1-Dichloroethene               | 21                              | 1.0 | 20.00                                        | 0           | 103                | 70       | 130       |      |          |      |
| Trichloroethene (TCE)            | 18                              | 1.0 | 20.00                                        | 0           | 91.7               | 70       | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 9.5                             |     | 10.00                                        |             | 94.7               | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 9.2                             |     | 10.00                                        |             | 91.8               | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 7.4                             |     | 10.00                                        |             | 73.7               | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 8.3                             |     | 10.00                                        |             | 83.5               | 70       | 130       |      |          |      |

|                                   |                                 |     |                                              |             |                    |          |           |      |          |      |
|-----------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1208782-001a msd</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>         | Batch ID: <b>R4985</b>          |     | RunNo: <b>4985</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>8/20/2012</b> |     | SeqNo: <b>141160</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 18                              | 1.0 | 20.00                                        | 0           | 91.9               | 66.8     | 128       | 7.08 | 16.7     |      |
| Toluene                           | 18                              | 1.0 | 20.00                                        | 0           | 89.9               | 70       | 130       | 5.63 | 18.7     |      |
| Chlorobenzene                     | 17                              | 1.0 | 20.00                                        | 0           | 85.8               | 70       | 130       | 5.99 | 19.5     |      |
| 1,1-Dichloroethene                | 19                              | 1.0 | 20.00                                        | 0           | 96.5               | 70       | 130       | 6.73 | 16.7     |      |
| Trichloroethene (TCE)             | 18                              | 1.0 | 20.00                                        | 0           | 87.9               | 70       | 130       | 4.30 | 17.5     |      |
| Surr: 1,2-Dichloroethane-d4       | 8.9                             |     | 10.00                                        |             | 89.1               | 70       | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene        | 8.9                             |     | 10.00                                        |             | 88.9               | 70       | 130       | 0    | 0        |      |
| Surr: Dibromofluoromethane        | 7.9                             |     | 10.00                                        |             | 78.6               | 70       | 130       | 0    | 0        |      |
| Surr: Toluene-d8                  | 8.1                             |     | 10.00                                        |             | 80.6               | 70       | 130       | 0    | 0        |      |

|                                |                                 |     |                                              |             |                    |          |           |      |          |      |
|--------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>b5</b>            | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8260B: VOLATILES</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b>          | Batch ID: <b>R4985</b>          |     | RunNo: <b>4985</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                     | Analysis Date: <b>8/20/2012</b> |     | SeqNo: <b>141179</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                        | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Toluene                        | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Ethylbenzene                   | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |

### Qualifiers:

|    |                                                    |   |                                                 |
|----|----------------------------------------------------|---|-------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    | E | Value above quantitation range                  |
| 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            |
| RL | Reporting Detection Limit                          | S | Spike Recovery outside accepted recovery limits |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208745

30-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>b5</b>         | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>       | Batch ID: <b>R4985</b>          |     |           | RunNo: <b>4985</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>8/20/2012</b> |     |           | SeqNo: <b>141179</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| 1,2,4-Trimethylbenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,3,5-Trimethylbenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dichloroethane (EDC)    | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dibromoethane (EDB)     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Naphthalene                 | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| 1-Methylnaphthalene         | ND                              | 4.0 |           |                                              |      |                    |           |      |          |      |
| 2-Methylnaphthalene         | ND                              | 4.0 |           |                                              |      |                    |           |      |          |      |
| Acetone                     | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Bromobenzene                | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Bromodichloromethane        | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Bromoform                   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Bromomethane                | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| 2-Butanone                  | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Carbon disulfide            | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Carbon Tetrachloride        | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Chlorobenzene               | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Chloroethane                | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Chloroform                  | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Chloromethane               | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| 2-Chlorotoluene             | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Chlorotoluene             | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| cis-1,2-DCE                 | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| cis-1,3-Dichloropropene     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dibromo-3-chloropropane | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Dibromochloromethane        | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Dibromomethane              | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dichlorobenzene         | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,3-Dichlorobenzene         | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,4-Dichlorobenzene         | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Dichlorodifluoromethane     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1-Dichloroethane          | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1-Dichloroethene          | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dichloropropane         | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,3-Dichloropropane         | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 2,2-Dichloropropane         | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| 1,1-Dichloropropene         | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Hexachlorobutadiene         | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 2-Hexanone                  | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Isopropylbenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Isopropyltoluene          | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Methyl-2-pentanone        | ND                              | 10  |           |                                              |      |                    |           |      |          |      |

### Qualifiers:

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208745

30-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>b5</b>         | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>       | Batch ID: <b>R4985</b>          |     |           | RunNo: <b>4985</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>8/20/2012</b> |     |           | SeqNo: <b>141179</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Methylene Chloride          | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Butylbenzene              | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Propylbenzene             | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| sec-Butylbenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Styrene                     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| tert-Butylbenzene           | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Tetrachloroethene (PCE)     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,2-DCE               | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,3-Dichloropropene   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichloroethene (TCE)       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichlorofluoromethane      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichloropropane      | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Vinyl chloride              | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Xylenes, Total              | ND                              | 1.5 |           |                                              |      |                    |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.9                             |     | 10.00     |                                              | 88.5 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.0                             |     | 10.00     |                                              | 90.1 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.0                             |     | 10.00     |                                              | 90.0 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8            | 8.7                             |     | 10.00     |                                              | 87.1 | 70                 | 130       |      |          |      |

| Sample ID <b>100ng lcs2</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>R4985</b>          |     |           | RunNo: <b>4985</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>8/20/2012</b> |     |           | SeqNo: <b>141181</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 19                              | 1.0 | 20.00     | 0                                            | 97.3 | 70                 | 130       |      |          |      |
| Toluene                     | 20                              | 1.0 | 20.00     | 0                                            | 101  | 80                 | 120       |      |          |      |
| Chlorobenzene               | 20                              | 1.0 | 20.00     | 0                                            | 98.7 | 70                 | 130       |      |          |      |
| 1,1-Dichloroethene          | 20                              | 1.0 | 20.00     | 0                                            | 97.9 | 73.7               | 122       |      |          |      |
| Trichloroethene (TCE)       | 18                              | 1.0 | 20.00     | 0                                            | 91.1 | 70                 | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.4                             |     | 10.00     |                                              | 84.3 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.1                             |     | 10.00     |                                              | 91.0 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 8.9                             |     | 10.00     |                                              | 88.8 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8            | 8.6                             |     | 10.00     |                                              | 85.9 | 70                 | 130       |      |          |      |

### Qualifiers:

|    |                                                    |   |                                                 |
|----|----------------------------------------------------|---|-------------------------------------------------|
| B  | Analyte detected in the associated Method Blank    | E | Value above quantitation range                  |
| 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            |
| RL | Reporting Detection Limit                          | S | Spike Recovery outside accepted recovery limits |



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208745

30-Aug-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |                 |     |                          |             |                                       |          |             |      |          |      |
|-----------------------------|-----------------|-----|--------------------------|-------------|---------------------------------------|----------|-------------|------|----------|------|
| Sample ID                   | 1208776-001a ms |     | SampType: MS             |             | TestCode: EPA Method 8260B: VOLATILES |          |             |      |          |      |
| Client ID:                  | BatchQC         |     | Batch ID: R4985          |             | RunNo: 4985                           |          |             |      |          |      |
| Prep Date:                  |                 |     | Analysis Date: 8/21/2012 |             | SeqNo: 141182                         |          | Units: µg/L |      |          |      |
| Analyte                     | Result          | PQL | SPK value                | SPK Ref Val | %REC                                  | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Benzene                     | 20              | 1.0 | 20.00                    | 0           | 99.6                                  | 66.8     | 128         |      |          |      |
| Toluene                     | 20              | 1.0 | 20.00                    | 0           | 97.8                                  | 70       | 130         |      |          |      |
| Chlorobenzene               | 18              | 1.0 | 20.00                    | 0           | 89.8                                  | 70       | 130         |      |          |      |
| 1,1-Dichloroethene          | 20              | 1.0 | 20.00                    | 0           | 97.9                                  | 70       | 130         |      |          |      |
| Trichloroethene (TCE)       | 18              | 1.0 | 20.00                    | 0           | 90.3                                  | 70       | 130         |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.9             |     | 10.00                    |             | 88.8                                  | 70       | 130         |      |          |      |
| Surr: 4-Bromofluorobenzene  | 8.7             |     | 10.00                    |             | 86.9                                  | 70       | 130         |      |          |      |
| Surr: Dibromofluoromethane  | 9.1             |     | 10.00                    |             | 90.9                                  | 70       | 130         |      |          |      |
| Surr: Toluene-d8            | 8.2             |     | 10.00                    |             | 82.4                                  | 70       | 130         |      |          |      |

|                             |                  |     |                          |               |                                       |          |             |       |          |      |
|-----------------------------|------------------|-----|--------------------------|---------------|---------------------------------------|----------|-------------|-------|----------|------|
| Sample ID                   | 1208776-001a msd |     |                          | SampType: MSD | TestCode: EPA Method 8260B: VOLATILES |          |             |       |          |      |
| Client ID:                  | BatchQC          |     | Batch ID: R4985          |               | RunNo: 4985                           |          |             |       |          |      |
| Prep Date:                  |                  |     | Analysis Date: 8/21/2012 |               | SeqNo: 141183                         |          | Units: µg/L |       |          |      |
| Analyte                     | Result           | PQL | SPK value                | SPK Ref Val   | %REC                                  | LowLimit | HighLimit   | %RPD  | RPDLimit | Qual |
| Benzene                     | 18               | 1.0 | 20.00                    | 0             | 91.9                                  | 66.8     | 128         | 8.11  | 16.7     |      |
| Toluene                     | 20               | 1.0 | 20.00                    | 0             | 98.4                                  | 70       | 130         | 0.595 | 18.7     |      |
| Chlorobenzene               | 18               | 1.0 | 20.00                    | 0             | 92.3                                  | 70       | 130         | 2.70  | 19.5     |      |
| 1,1-Dichloroethene          | 18               | 1.0 | 20.00                    | 0             | 89.0                                  | 70       | 130         | 9.51  | 16.7     |      |
| Trichloroethene (TCE)       | 16               | 1.0 | 20.00                    | 0             | 80.6                                  | 70       | 130         | 11.4  | 17.5     |      |
| Surr: 1,2-Dichloroethane-d4 | 8.3              |     | 10.00                    |               | 82.8                                  | 70       | 130         | 0     | 0        |      |
| Surr: 4-Bromofluorobenzene  | 8.9              |     | 10.00                    |               | 89.3                                  | 70       | 130         | 0     | 0        |      |
| Surr: Dibromofluoromethane  | 8.3              |     | 10.00                    |               | 83.0                                  | 70       | 130         | 0     | 0        |      |
| Surr: Toluene-d8            | 8.7              |     | 10.00                    |               | 87.3                                  | 70       | 130         | 0     | 0        |      |

### Qualifiers:

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

## Sample Log-In Check List

Client Name: CYP Work Order Number: 1208745  
Received by/date: AG 08/16/12  
Logged By: Michelle Garcia 8/16/2012 12:35:00 PM Michelle Garcia  
Completed By: Michelle Garcia 8/16/2012 1:59:03 PM Michelle Garcia  
Reviewed By: IO 08/16/12

### **Chain of Custody**

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

**Log In**

- |                                                                                                |     |                                     |    |                                     |              |                          |
|------------------------------------------------------------------------------------------------|-----|-------------------------------------|----|-------------------------------------|--------------|--------------------------|
| 4. Coolers are present? (see 19. for cooler specific information)                              | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            | NA           | <input type="checkbox"/> |
| 5. Was an attempt made to cool the samples?                                                    | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            | NA           | <input type="checkbox"/> |
| 6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to $6.0^{\circ}\text{C}$ | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            | NA           | <input type="checkbox"/> |
| 7. Sample(s) in proper container(s)?                                                           | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 8. Sufficient sample volume for indicated test(s)?                                             | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 9. Are samples (except VOA and ONG) properly preserved?                                        | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 10. Was preservative added to bottles?                                                         | Yes | <input type="checkbox"/>            | No | <input checked="" type="checkbox"/> | NA           | <input type="checkbox"/> |
| 11. VOA vials have zero headspace?                                                             | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            | No VOA Vials | <input type="checkbox"/> |
| 12. Were any sample containers received broken?                                                | Yes | <input type="checkbox"/>            | No | <input checked="" type="checkbox"/> |              |                          |
| 13. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)            | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 14. Are matrices correctly identified on Chain of Custody?                                     | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 15. Is it clear what analyses were requested?                                                  | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
| 16. Were all holding times able to be met?<br>(If no, notify customer for authorization.)      | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/>            |              |                          |
- # of present bottles checked for pH:

Adjusted

Checked

# of preserved bottles checked for pH: 2  
(2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: [Signature]

**Special Handling (if applicable)**

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

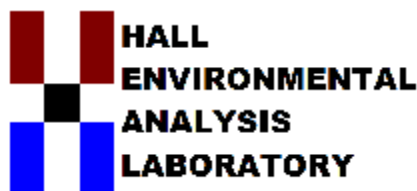
18. Additional remarks:

## 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 3.5     | Good      | Yes         |         |           |           |



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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

October 03, 2012

Sandra Sharp  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3421  
FAX

RE: TWP Roswell Station 9

OrderNo.: 1209A46

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/24/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1209A46**

Date Reported: **10/3/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** Pre-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 9/23/2012 8:45:00 AM

**Lab ID:** 1209A46-001

**Matrix:** AQUEOUS

**Received Date:** 9/24/2012 9:00:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Benzene                            | 2600   | 100      |      | µg/L  | 100 | 9/27/2012 12:10:45 AM |
| Toluene                            | 3600   | 100      |      | µg/L  | 100 | 9/27/2012 12:10:45 AM |
| Ethylbenzene                       | 270    | 100      |      | µg/L  | 100 | 9/27/2012 12:10:45 AM |
| Xylenes, Total                     | 2400   | 200      |      | µg/L  | 100 | 9/27/2012 12:10:45 AM |
| Surr: 4-Bromofluorobenzene         | 83.0   | 69.7-152 |      | %REC  | 100 | 9/27/2012 12:10:45 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order **1209A46**

Date Reported: **10/3/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Air Stripper

**Project:** TWP Roswell Station 9

**Collection Date:** 9/23/2012 8:45:00 AM

**Lab ID:** 1209A46-002

**Matrix:** AQUEOUS

**Received Date:** 9/24/2012 9:00:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                            | ND     | 5.0      |      | µg/L  | 5  | 9/27/2012 12:40:47 AM |
| Toluene                            | ND     | 5.0      |      | µg/L  | 5  | 9/27/2012 12:40:47 AM |
| Ethylbenzene                       | ND     | 5.0      |      | µg/L  | 5  | 9/27/2012 12:40:47 AM |
| Xylenes, Total                     | ND     | 10       |      | µg/L  | 5  | 9/27/2012 12:40:47 AM |
| Surr: 4-Bromofluorobenzene         | 75.4   | 69.7-152 |      | %REC  | 5  | 9/27/2012 12:40:47 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order **1209A46**

Date Reported: **10/3/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** Between GAC's

**Project:** TWP Roswell Station 9

**Collection Date:** 9/23/2012 8:45:00 AM

**Lab ID:** 1209A46-003

**Matrix:** AQUEOUS

**Received Date:** 9/24/2012 9:00:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                            | 1.7    | 1.0      |      | µg/L  | 1  | 9/27/2012 1:10:54 AM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 9/27/2012 1:10:54 AM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 9/27/2012 1:10:54 AM |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 9/27/2012 1:10:54 AM |
| Surr: 4-Bromofluorobenzene         | 77.0   | 69.7-152 |      | %REC  | 1  | 9/27/2012 1:10:54 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order **1209A46**

Date Reported: **10/3/2012**

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 9/23/2012 8:45:00 AM

**Lab ID:** 1209A46-004

**Matrix:** AQUEOUS

**Received Date:** 9/24/2012 9:00:00 AM

| Analyses                                  | Result | RL   | Qual | Units | DF | Date Analyzed        |
|-------------------------------------------|--------|------|------|-------|----|----------------------|
| <b>EPA METHOD 300.0: ANIONS</b>           |        |      |      |       |    | Analyst: <b>JRR</b>  |
| Fluoride                                  | 1.4    | 0.10 |      | mg/L  | 1  | 9/27/2012 7:54:19 PM |
| Chloride                                  | 420    | 25   |      | mg/L  | 50 | 9/27/2012 8:06:44 PM |
| Nitrogen, Nitrite (As N)                  | ND     | 2.0  |      | mg/L  | 20 | 9/24/2012 3:48:39 PM |
| Bromide                                   | 1.2    | 0.10 |      | mg/L  | 1  | 9/24/2012 3:11:25 PM |
| Nitrogen, Nitrate (As N)                  | ND     | 0.10 |      | mg/L  | 1  | 9/24/2012 3:11:25 PM |
| Phosphorus, Orthophosphate (As P)         | ND     | 0.50 |      | mg/L  | 1  | 9/24/2012 3:11:25 PM |
| Sulfate                                   | 660    | 10   |      | mg/L  | 20 | 9/24/2012 3:48:39 PM |
| <b>EPA METHOD 200.7: DISSOLVED METALS</b> |        |      |      |       |    | Analyst: <b>JLF</b>  |
| Calcium                                   | 330    | 5.0  |      | mg/L  | 5  | 9/24/2012 7:13:09 PM |
| Magnesium                                 | 120    | 5.0  |      | mg/L  | 5  | 9/24/2012 7:13:09 PM |
| Potassium                                 | 3.3    | 1.0  |      | mg/L  | 1  | 9/24/2012 6:54:49 PM |
| Sodium                                    | 210    | 5.0  |      | mg/L  | 5  | 9/24/2012 7:13:09 PM |
| <b>EPA METHOD 8260B: VOLATILES</b>        |        |      |      |       |    | Analyst: <b>JDJ</b>  |
| Benzene                                   | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Toluene                                   | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Ethylbenzene                              | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Methyl tert-butyl ether (MTBE)            | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,2,4-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,3,5-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,2-Dichloroethane (EDC)                  | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,2-Dibromoethane (EDB)                   | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Naphthalene                               | ND     | 2.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 2-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Acetone                                   | 71     | 10   |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Bromobenzene                              | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Bromodichloromethane                      | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Bromoform                                 | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Bromomethane                              | ND     | 3.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 2-Butanone                                | ND     | 10   |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Carbon disulfide                          | ND     | 10   |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Carbon Tetrachloride                      | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Chlorobenzene                             | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Chloroethane                              | ND     | 2.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Chloroform                                | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Chloromethane                             | ND     | 3.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 2-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 4-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| cis-1,2-DCE                               | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| cis-1,3-Dichloropropene                   | ND     | 1.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,2-Dibromo-3-chloropropane               | ND     | 2.0  |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1209A46

Date Reported: 10/3/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 9/23/2012 8:45:00 AM

**Lab ID:** 1209A46-004

**Matrix:** AQUEOUS

**Received Date:** 9/24/2012 9:00:00 AM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: JDJ         |
| Dibromochloromethane               | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Dibromomethane                     | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,2-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,3-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,4-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Dichlorodifluoromethane            | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,1-Dichloroethane                 | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,1-Dichloroethene                 | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,2-Dichloropropane                | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,3-Dichloropropane                | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 2,2-Dichloropropane                | ND     | 2.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,1-Dichloropropene                | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Hexachlorobutadiene                | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 2-Hexanone                         | ND     | 10     |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 9/25/2012 5:10:52 AM |
| Surr: 1,2-Dichloroethane-d4        | 94.7   | 70-130 |      | %REC  | 1  | 9/25/2012 5:10:52 AM |
| Surr: 4-Bromofluorobenzene         | 97.2   | 70-130 |      | %REC  | 1  | 9/25/2012 5:10:52 AM |
| Surr: Dibromofluoromethane         | 101    | 70-130 |      | %REC  | 1  | 9/25/2012 5:10:52 AM |
| Surr: Toluene-d8                   | 96.2   | 70-130 |      | %REC  | 1  | 9/25/2012 5:10:52 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209A46

03-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                       |                                 |     |                                                     |             |                    |          |           |      |          |      |
|-----------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R5758</b>          |     | RunNo: <b>5758</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:            | Analysis Date: <b>9/24/2012</b> |     | SeqNo: <b>165318</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte               | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium               | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Magnesium             | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Potassium             | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Sodium                | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |

|                        |                                 |     |                                                     |             |                    |          |           |      |          |      |
|------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R5758</b>          |     | RunNo: <b>5758</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:             | Analysis Date: <b>9/24/2012</b> |     | SeqNo: <b>165319</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium                | 51                              | 1.0 | 50.00                                               | 0           | 102                | 85       | 115       |      |          |      |
| Magnesium              | 52                              | 1.0 | 50.00                                               | 0           | 103                | 85       | 115       |      |          |      |
| Potassium              | 50                              | 1.0 | 50.00                                               | 0           | 99.7               | 85       | 115       |      |          |      |
| Sodium                 | 51                              | 1.0 | 50.00                                               | 0           | 102                | 85       | 115       |      |          |      |

|                                 |                                 |     |                                                     |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1209585-004AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R5758</b>          |     | RunNo: <b>5758</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>9/24/2012</b> |     | SeqNo: <b>165345</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium                         | 91                              | 1.0 | 50.00                                               | 41.63       | 99.1               | 70       | 130       |      |          |      |
| Magnesium                       | 57                              | 1.0 | 50.00                                               | 6.410       | 101                | 70       | 130       |      |          |      |
| Potassium                       | 50                              | 1.0 | 50.00                                               | 0.8836      | 98.8               | 70       | 130       |      |          |      |
| Sodium                          | 55                              | 1.0 | 50.00                                               | 4.721       | 100                | 70       | 130       |      |          |      |

|                                  |                                 |     |                                                     |             |                    |          |           |       |          |      |
|----------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Sample ID <b>1209585-004AMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |       |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R5758</b>          |     | RunNo: <b>5758</b>                                  |             |                    |          |           |       |          |      |
| Prep Date:                       | Analysis Date: <b>9/24/2012</b> |     | SeqNo: <b>165346</b>                                |             | Units: <b>mg/L</b> |          |           |       |          |      |
| Analyte                          | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Calcium                          | 92                              | 1.0 | 50.00                                               | 41.63       | 99.8               | 70       | 130       | 0.390 | 20       |      |
| Magnesium                        | 58                              | 1.0 | 50.00                                               | 6.410       | 102                | 70       | 130       | 0.678 | 20       |      |
| Potassium                        | 51                              | 1.0 | 50.00                                               | 0.8836      | 99.7               | 70       | 130       | 0.935 | 20       |      |
| Sodium                           | 55                              | 1.0 | 50.00                                               | 4.721       | 101                | 70       | 130       | 0.754 | 20       |      |

|                       |                                 |     |                                                     |             |                    |          |           |      |          |      |
|-----------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R5758</b>          |     | RunNo: <b>5758</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:            | Analysis Date: <b>9/24/2012</b> |     | SeqNo: <b>165392</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte               | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium               | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Magnesium             | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209A46

03-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                       |                                 |     |           |                                                     |      |                    |           |      |          |      |
|-----------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |      |                    |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R5758</b>          |     |           | RunNo: <b>5758</b>                                  |      |                    |           |      |          |      |
| Prep Date:            | Analysis Date: <b>9/24/2012</b> |     |           | SeqNo: <b>165392</b>                                |      | Units: <b>mg/L</b> |           |      |          |      |
| Analyte               | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Potassium             | ND                              | 1.0 |           |                                                     |      |                    |           |      |          |      |
| Sodium                | ND                              | 1.0 |           |                                                     |      |                    |           |      |          |      |

|                        |                                 |     |           |                                                     |      |                    |           |      |          |      |
|------------------------|---------------------------------|-----|-----------|-----------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R5758</b>          |     |           | RunNo: <b>5758</b>                                  |      |                    |           |      |          |      |
| Prep Date:             | Analysis Date: <b>9/24/2012</b> |     |           | SeqNo: <b>165393</b>                                |      | Units: <b>mg/L</b> |           |      |          |      |
| Analyte                | Result                          | PQL | SPK value | SPK Ref Val                                         | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Calcium                | 52                              | 1.0 | 50.00     | 0                                                   | 104  | 85                 | 115       |      |          |      |
| Magnesium              | 51                              | 1.0 | 50.00     | 0                                                   | 102  | 85                 | 115       |      |          |      |
| Potassium              | 49                              | 1.0 | 50.00     | 0                                                   | 98.2 | 85                 | 115       |      |          |      |
| Sodium                 | 49                              | 1.0 | 50.00     | 0                                                   | 98.8 | 85                 | 115       |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209A46

03-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>MB</b>              | SampType: <b>MBLK</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>            | Batch ID: <b>R5737</b>          |      | RunNo: <b>5737</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>9/24/2012</b> |      | SeqNo: <b>164647</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrogen, Nitrite (As N)         | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Bromide                          | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Nitrogen, Nitrate (As N)         | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |
| Sulfate                          | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |

| Sample ID <b>LCS</b>             | SampType: <b>LCS</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>           | Batch ID: <b>R5737</b>          |      | RunNo: <b>5737</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>9/24/2012</b> |      | SeqNo: <b>164648</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrogen, Nitrite (As N)         | 0.96                            | 0.10 | 1.000                                     | 0           | 95.5               | 90       | 110       |      |          |      |
| Bromide                          | 2.4                             | 0.10 | 2.500                                     | 0           | 94.2               | 90       | 110       |      |          |      |
| Nitrogen, Nitrate (As N)         | 2.5                             | 0.10 | 2.500                                     | 0           | 99.3               | 90       | 110       |      |          |      |
| Phosphorus, Orthophosphate (As P | 5.0                             | 0.50 | 5.000                                     | 0           | 99.4               | 90       | 110       |      |          |      |
| Sulfate                          | 9.8                             | 0.50 | 10.00                                     | 0           | 98.1               | 90       | 110       |      |          |      |

| Sample ID <b>1209A46-004BMS</b>  | SampType: <b>MS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>Post Treatment</b> | Batch ID: <b>R5737</b>          |      | RunNo: <b>5737</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>9/24/2012</b> |      | SeqNo: <b>164650</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                          | 3.4                             | 0.10 | 2.500                                     | 1.236       | 86.3               | 83.3     | 107       |      |          |      |
| Nitrogen, Nitrate (As N)         | 2.5                             | 0.10 | 2.500                                     | 0.05120     | 96.9               | 90.4     | 113       |      |          |      |
| Phosphorus, Orthophosphate (As P | 4.9                             | 0.50 | 5.000                                     | 0           | 97.9               | 74.5     | 115       |      |          |      |

| Sample ID <b>1209A46-004BMSD</b> | SampType: <b>MSD</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>Post Treatment</b> | Batch ID: <b>R5737</b>          |      | RunNo: <b>5737</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>9/24/2012</b> |      | SeqNo: <b>164651</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                          | 4.0                             | 0.10 | 2.500                                     | 1.236       | 112                | 83.3     | 107       | 17.2 | 20       | S    |
| Nitrogen, Nitrate (As N)         | 2.6                             | 0.10 | 2.500                                     | 0.05120     | 102                | 90.4     | 113       | 4.95 | 20       |      |
| Phosphorus, Orthophosphate (As P | 4.6                             | 0.50 | 5.000                                     | 0           | 91.8               | 74.5     | 115       | 6.41 | 20       |      |

| Sample ID <b>1209B89-001CMS</b> | SampType: <b>MS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R5820</b>          |      | RunNo: <b>5820</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>9/27/2012</b> |      | SeqNo: <b>167366</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                        | 1.2                             | 0.10 | 0.5000                                    | 0.7443      | 97.2               | 76.6     | 110       |      |          |      |

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209A46

03-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |                 |                |           |             |                          |          |           |       |          |      |
|------------|-----------------|----------------|-----------|-------------|--------------------------|----------|-----------|-------|----------|------|
| Sample ID  | 1209B89-001CMSD | SampType:      | MSD       | TestCode:   | EPA Method 300.0: Anions |          |           |       |          |      |
| Client ID: | BatchQC         | Batch ID:      | R5820     | RunNo:      | 5820                     |          |           |       |          |      |
| Prep Date: |                 | Analysis Date: | 9/27/2012 | SeqNo:      | 167368                   | Units:   | mg/L      |       |          |      |
| Analyte    | Result          | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Fluoride   | 1.2             | 0.10           | 0.5000    | 0.7443      | 99.2                     | 76.6     | 110       | 0.793 | 20       |      |

|            |                |                |           |             |                          |          |           |      |          |      |
|------------|----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID  | 1209B75-001AMS | SampType:      | MS        | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID: | BatchQC        | Batch ID:      | R5820     | RunNo:      | 5820                     |          |           |      |          |      |
| Prep Date: |                | Analysis Date: | 9/27/2012 | SeqNo:      | 167377                   | Units:   | mg/L      |      |          |      |
| Analyte    | Result         | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride   | 0.99           | 0.10           | 0.5000    | 0.5016      | 98.3                     | 76.6     | 110       |      |          |      |

|            |                 |                |           |             |                          |          |           |       |          |      |
|------------|-----------------|----------------|-----------|-------------|--------------------------|----------|-----------|-------|----------|------|
| Sample ID  | 1209B75-001AMSD | SampType:      | MSD       | TestCode:   | EPA Method 300.0: Anions |          |           |       |          |      |
| Client ID: | BatchQC         | Batch ID:      | R5820     | RunNo:      | 5820                     |          |           |       |          |      |
| Prep Date: |                 | Analysis Date: | 9/27/2012 | SeqNo:      | 167378                   | Units:   | mg/L      |       |          |      |
| Analyte    | Result          | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Fluoride   | 0.98            | 0.10           | 0.5000    | 0.5016      | 96.6                     | 76.6     | 110       | 0.900 | 20       |      |

|            |                |                |           |             |                          |          |           |      |          |      |
|------------|----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID  | 1209C48-004BMS | SampType:      | MS        | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID: | BatchQC        | Batch ID:      | R5820     | RunNo:      | 5820                     |          |           |      |          |      |
| Prep Date: |                | Analysis Date: | 9/28/2012 | SeqNo:      | 167436                   | Units:   | mg/L      |      |          |      |
| Analyte    | Result         | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride   | 1.7            | 0.10           | 0.5000    | 1.303       | 83.7                     | 76.6     | 110       |      |          |      |

|            |                 |                |           |             |                          |          |           |      |          |      |
|------------|-----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID  | 1209C48-004BMSD | SampType:      | MSD       | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID: | BatchQC         | Batch ID:      | R5820     | RunNo:      | 5820                     |          |           |      |          |      |
| Prep Date: |                 | Analysis Date: | 9/28/2012 | SeqNo:      | 167437                   | Units:   | mg/L      |      |          |      |
| Analyte    | Result          | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride   | 1.8             | 0.10           | 0.5000    | 1.303       | 92.8                     | 76.6     | 110       | 2.60 | 20       |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209A46

03-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |        |     |                          |             |                                            |          |             |      |          |      |
|------------|--------|-----|--------------------------|-------------|--------------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | 5ML RB |     | SampType: MBLK           |             | TestCode: EPA Method 8015B: Gasoline Range |          |             |      |          |      |
| Client ID: | PBW    |     | Batch ID: R5801          |             | RunNo: 5801                                |          |             |      |          |      |
| Prep Date: |        |     | Analysis Date: 9/26/2012 |             | SeqNo: 166864                              |          | Units: %REC |      |          |      |
| Analyte    | Result | PQL | SPK value                | SPK Ref Val | %REC                                       | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: BFB  | 23     |     | 20.00                    |             | 114                                        | 69.8     | 119         |      |          |      |

|            |               |     |                          |             |                                            |          |             |      |          |      |
|------------|---------------|-----|--------------------------|-------------|--------------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | 2.5UG GRO LCS |     | SampType: LCS            |             | TestCode: EPA Method 8015B: Gasoline Range |          |             |      |          |      |
| Client ID: | LCSW          |     | Batch ID: R5801          |             | RunNo: 5801                                |          |             |      |          |      |
| Prep Date: |               |     | Analysis Date: 9/26/2012 |             | SeqNo: 166865                              |          | Units: %REC |      |          |      |
| Analyte    | Result        | PQL | SPK value                | SPK Ref Val | %REC                                       | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: BFB  | 15            |     | 20.00                    |             | 75.1                                       | 69.8     | 119         |      |          |      |

|            |                |     |                          |             |                                            |          |             |      |          |      |
|------------|----------------|-----|--------------------------|-------------|--------------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | 1209B16-002AMS |     | SampType: MS             |             | TestCode: EPA Method 8015B: Gasoline Range |          |             |      |          |      |
| Client ID: | BatchQC        |     | Batch ID: R5801          |             | RunNo: 5801                                |          |             |      |          |      |
| Prep Date: |                |     | Analysis Date: 9/27/2012 |             | SeqNo: 166868                              |          | Units: %REC |      |          |      |
| Analyte    | Result         | PQL | SPK value                | SPK Ref Val | %REC                                       | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: BFB  | 20             |     | 20.00                    |             | 101                                        | 69.8     | 119         |      |          |      |

|            |                 |     |                          |             |                                            |          |             |      |          |      |
|------------|-----------------|-----|--------------------------|-------------|--------------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | 1209B16-002AMSD |     | SampType: MSD            |             | TestCode: EPA Method 8015B: Gasoline Range |          |             |      |          |      |
| Client ID: | BatchQC         |     | Batch ID: R5801          |             | RunNo: 5801                                |          |             |      |          |      |
| Prep Date: |                 |     | Analysis Date: 9/27/2012 |             | SeqNo: 166869                              |          | Units: %REC |      |          |      |
| Analyte    | Result          | PQL | SPK value                | SPK Ref Val | %REC                                       | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: BFB  | 17              |     | 20.00                    |             | 83.6                                       | 69.8     | 119         | 0    | 0        |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209A46

03-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5ML RB</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>R5801</b>          |     | RunNo: <b>5801</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>9/26/2012</b> |     | SeqNo: <b>166873</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                    | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Toluene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Ethylbenzene               | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Xylenes, Total             | ND                              | 2.0 |                                              |             |                    |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 21                              |     | 20.00                                        |             | 107                | 69.7     | 152       |      |          |      |

| Sample ID <b>100NG BTEX LCS</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>          | Batch ID: <b>R5801</b>          |     | RunNo: <b>5801</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>9/26/2012</b> |     | SeqNo: <b>166874</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 21                              | 1.0 | 20.00                                        | 0           | 103                | 80       | 120       |      |          |      |
| Toluene                         | 21                              | 1.0 | 20.00                                        | 0           | 107                | 80       | 120       |      |          |      |
| Ethylbenzene                    | 22                              | 1.0 | 20.00                                        | 0           | 110                | 80       | 120       |      |          |      |
| Xylenes, Total                  | 66                              | 2.0 | 60.00                                        | 0           | 110                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 22                              |     | 20.00                                        |             | 110                | 69.7     | 152       |      |          |      |

| Sample ID <b>1209A46-001AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>Pre-Treatment</b> | Batch ID: <b>R5801</b>          |     | RunNo: <b>5801</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>9/26/2012</b> |     | SeqNo: <b>166888</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 4700                            | 100 | 2000                                         | 2613        | 105                | 74.1     | 124       |      |          |      |
| Toluene                         | 5900                            | 100 | 2000                                         | 3649        | 113                | 75.2     | 124       |      |          |      |
| Ethylbenzene                    | 2500                            | 100 | 2000                                         | 273.0       | 109                | 69       | 125       |      |          |      |
| Xylenes, Total                  | 9100                            | 200 | 6000                                         | 2443        | 111                | 73.1     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 1900                            |     | 2000                                         |             | 97.4               | 69.7     | 152       |      |          |      |

| Sample ID <b>1209A46-001AMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>Pre-Treatment</b>  | Batch ID: <b>R5801</b>          |     | RunNo: <b>5801</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>9/26/2012</b> |     | SeqNo: <b>166889</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 4600                            | 100 | 2000                                         | 2613        | 101                | 74.1     | 124       | 1.78 | 11.2     |      |
| Toluene                          | 5800                            | 100 | 2000                                         | 3649        | 106                | 75.2     | 124       | 2.24 | 11.9     |      |
| Ethylbenzene                     | 2400                            | 100 | 2000                                         | 273.0       | 108                | 69       | 125       | 1.05 | 13.5     |      |
| Xylenes, Total                   | 8900                            | 200 | 6000                                         | 2443        | 108                | 73.1     | 126       | 2.40 | 13       |      |
| Surr: 4-Bromofluorobenzene       | 1700                            |     | 2000                                         |             | 83.5               | 69.7     | 152       | 0    | 0        |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209A46

03-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                |        |                |           |             |                                       |          |           |      |          |      |
|--------------------------------|--------|----------------|-----------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                      | 5ml rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                     | PBW    | Batch ID:      | R5720     | RunNo:      | 5720                                  |          |           |      |          |      |
| Prep Date:                     |        | Analysis Date: | 9/24/2012 | SeqNo:      | 164373                                | Units:   | µg/L      |      |          |      |
| Analyte                        | Result | PQL            | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Toluene                        | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Ethylbenzene                   | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Naphthalene                    | ND     | 2.0            |           |             |                                       |          |           |      |          |      |
| 1-Methylnaphthalene            | ND     | 4.0            |           |             |                                       |          |           |      |          |      |
| 2-Methylnaphthalene            | ND     | 4.0            |           |             |                                       |          |           |      |          |      |
| Xylenes, Total                 | ND     | 2.0            |           |             |                                       |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4    | 10     |                | 10.00     |             | 101                                   | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene     | 11     |                | 10.00     |             | 108                                   | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane     | 11     |                | 10.00     |             | 105                                   | 70       | 130       |      |          |      |
| Surr: Toluene-d8               | 9.4    |                | 10.00     |             | 94.5                                  | 70       | 130       |      |          |      |

|                             |           |                |           |             |                                       |          |           |      |          |      |
|-----------------------------|-----------|----------------|-----------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 100ng lcs | SampType:      | LCS       | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                  | LCSW      | Batch ID:      | R5720     | RunNo:      | 5720                                  |          |           |      |          |      |
| Prep Date:                  |           | Analysis Date: | 9/24/2012 | SeqNo:      | 164374                                | Units:   | µg/L      |      |          |      |
| Analyte                     | Result    | PQL            | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 19        | 1.0            | 20.00     | 0           | 94.4                                  | 70       | 130       |      |          |      |
| Toluene                     | 21        | 1.0            | 20.00     | 0           | 103                                   | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.6       |                | 10.00     |             | 96.5                                  | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.8       |                | 10.00     |             | 98.4                                  | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 10        |                | 10.00     |             | 99.7                                  | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 9.3       |                | 10.00     |             | 92.6                                  | 70       | 130       |      |          |      |

|                             |                |                |           |             |                                       |          |           |      |          |      |
|-----------------------------|----------------|----------------|-----------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 1209865-001ams | SampType:      | MS        | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                  | BatchQC        | Batch ID:      | R5720     | RunNo:      | 5720                                  |          |           |      |          |      |
| Prep Date:                  |                | Analysis Date: | 9/24/2012 | SeqNo:      | 164399                                | Units:   | µg/L      |      |          |      |
| Analyte                     | Result         | PQL            | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 18000          | 500            | 10000     | 8228        | 97.7                                  | 66.8     | 128       |      |          |      |
| Toluene                     | 22000          | 500            | 10000     | 13380       | 90.6                                  | 70       | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 5100           |                | 5000      |             | 103                                   | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 5000           |                | 5000      |             | 101                                   | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 5300           |                | 5000      |             | 105                                   | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 4600           |                | 5000      |             | 91.6                                  | 70       | 130       |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209A46

03-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |                 |                |           |             |                                       |          |           |       |          |      |
|-----------------------------|-----------------|----------------|-----------|-------------|---------------------------------------|----------|-----------|-------|----------|------|
| Sample ID                   | 1209865-001amsd | SampType:      | MSD       | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |       |          |      |
| Client ID:                  | BatchQC         | Batch ID:      | R5720     | RunNo:      | 5720                                  |          |           |       |          |      |
| Prep Date:                  |                 | Analysis Date: | 9/24/2012 | SeqNo:      | 164400                                | Units:   | µg/L      |       |          |      |
| Analyte                     | Result          | PQL            | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                     | 18000           | 500            | 10000     | 8228        | 96.0                                  | 66.8     | 128       | 0.953 | 16.7     |      |
| Toluene                     | 25000           | 500            | 10000     | 13380       | 113                                   | 70       | 130       | 9.35  | 18.7     |      |
| Surr: 1,2-Dichloroethane-d4 | 5200            |                | 5000      |             | 104                                   | 70       | 130       | 0     | 0        |      |
| Surr: 4-Bromofluorobenzene  | 5300            |                | 5000      |             | 106                                   | 70       | 130       | 0     | 0        |      |
| Surr: Dibromofluoromethane  | 4900            |                | 5000      |             | 98.8                                  | 70       | 130       | 0     | 0        |      |
| Surr: Toluene-d8            | 4900            |                | 5000      |             | 97.4                                  | 70       | 130       | 0     | 0        |      |

### Qualifiers:

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E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

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H Holding times for preparation or analysis exceeded  
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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209A46

03-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                |        |                |           |             |                             |          |           |      |          |      |
|--------------------------------|--------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                      | 5ml rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                     | PBW    | Batch ID:      | R5720     | RunNo:      | 5720                        |          |           |      |          |      |
| Prep Date:                     |        | Analysis Date: | 9/24/2012 | SeqNo:      | 164403                      | Units:   | µg/L      |      |          |      |
| Analyte                        | Result | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Toluene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Ethylbenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Naphthalene                    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| 2-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| Acetone                        | ND     | 10             |           |             |                             |          |           |      |          |      |
| Bromobenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromodichloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromoform                      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromomethane                   | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Butanone                     | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon disulfide               | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon Tetrachloride           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chlorobenzene                  | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloroethane                   | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Chloroform                     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloromethane                  | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,2-DCE                    | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,3-Dichloropropene        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Dibromochloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dibromomethane                 | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,4-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dichlorodifluoromethane        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethane             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethene             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 2,2-Dichloropropane            | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloropropene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Hexachlorobutadiene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209A46

03-Oct-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |        |                          |           |             |                                       |             |           |      |          |      |
|-----------------------------|--------|--------------------------|-----------|-------------|---------------------------------------|-------------|-----------|------|----------|------|
| Sample ID                   | 5ml rb | SampType: MBLK           |           |             | TestCode: EPA Method 8260B: VOLATILES |             |           |      |          |      |
| Client ID:                  | PBW    | Batch ID: R5720          |           |             | RunNo: 5720                           |             |           |      |          |      |
| Prep Date:                  |        | Analysis Date: 9/24/2012 |           |             | SeqNo: 164403                         | Units: µg/L |           |      |          |      |
| Analyte                     | Result | PQL                      | SPK value | SPK Ref Val | %REC                                  | LowLimit    | HighLimit | %RPD | RPDLimit | Qual |
| 2-Hexanone                  | ND     | 10                       |           |             |                                       |             |           |      |          |      |
| Isopropylbenzene            | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| 4-Isopropyltoluene          | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| 4-Methyl-2-pentanone        | ND     | 10                       |           |             |                                       |             |           |      |          |      |
| Methylene Chloride          | ND     | 3.0                      |           |             |                                       |             |           |      |          |      |
| n-Butylbenzene              | ND     | 3.0                      |           |             |                                       |             |           |      |          |      |
| n-Propylbenzene             | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| sec-Butylbenzene            | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| Styrene                     | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| tert-Butylbenzene           | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND     | 2.0                      |           |             |                                       |             |           |      |          |      |
| Tetrachloroethene (PCE)     | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| trans-1,2-DCE               | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| trans-1,3-Dichloropropene   | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| 1,1,1-Trichloroethane       | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| 1,1,2-Trichloroethane       | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| Trichloroethene (TCE)       | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| Trichlorofluoromethane      | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| 1,2,3-Trichloropropane      | ND     | 2.0                      |           |             |                                       |             |           |      |          |      |
| Vinyl chloride              | ND     | 1.0                      |           |             |                                       |             |           |      |          |      |
| Xylenes, Total              | ND     | 1.5                      |           |             |                                       |             |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 10     |                          | 10.00     |             | 101                                   | 70          | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11     |                          | 10.00     |             | 108                                   | 70          | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 11     |                          | 10.00     |             | 105                                   | 70          | 130       |      |          |      |
| Surr: Toluene-d8            | 9.4    |                          | 10.00     |             | 94.5                                  | 70          | 130       |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

## Sample Log-In Check List

Client Name: CYP Work Order Number: 1209A46

Received by/date: AT 09/24/12

Logged By: Anne Thorne 9/24/2012 9:00:00 AM

*Anne Thorne*

Completed By: Anne Thorne 9/24/2012

*Anne Thorne*

Reviewed By:

*[Signature]*

09/24/12

### Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Greyhound

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

2

(5 or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: AT 09/24/12

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

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

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

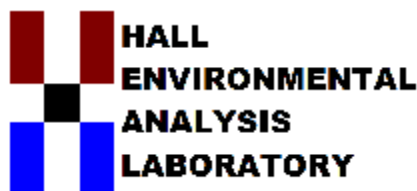
Client Instructions: \_\_\_\_\_

18. Additional remarks:

### 19. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 3.1                     | Good      | Yes         |         |           |           |





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

November 09, 2012

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3420  
FAX (281) 859-1881

RE: TWP Roswell Station 9

OrderNo.: 1210C32

Dear George Robinson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/26/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1210C32

Date Reported: 11/9/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Pre-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 10/25/2012 9:30:00 AM

**Lab ID:** 1210C32-001

**Matrix:** AQUEOUS

**Received Date:** 10/26/2012 1:24:00 PM

| Analyses                           | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |     | Analyst: NSB          |
| Benzene                            | 3200   | 100      |      | µg/L  | 100 | 10/30/2012 7:52:38 PM |
| Toluene                            | 4400   | 100      |      | µg/L  | 100 | 10/30/2012 7:52:38 PM |
| Ethylbenzene                       | 280    | 100      |      | µg/L  | 100 | 10/30/2012 7:52:38 PM |
| Xylenes, Total                     | 2600   | 200      |      | µg/L  | 100 | 10/30/2012 7:52:38 PM |
| Surr: 4-Bromofluorobenzene         | 108    | 69.7-152 |      | %REC  | 100 | 10/30/2012 7:52:38 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210C32

Date Reported: 11/9/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Air Stripper

**Project:** TWP Roswell Station 9

**Collection Date:** 10/25/2012 9:30:00 AM

**Lab ID:** 1210C32-002

**Matrix:** AQUEOUS

**Received Date:** 10/26/2012 1:24:00 PM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: NSB          |
| Benzene                            | ND     | 5.0      |      | µg/L  | 5  | 10/31/2012 7:28:11 PM |
| Toluene                            | ND     | 5.0      |      | µg/L  | 5  | 10/31/2012 7:28:11 PM |
| Ethylbenzene                       | ND     | 5.0      |      | µg/L  | 5  | 10/31/2012 7:28:11 PM |
| Xylenes, Total                     | ND     | 10       |      | µg/L  | 5  | 10/31/2012 7:28:11 PM |
| Surr: 4-Bromofluorobenzene         | 102    | 69.7-152 |      | %REC  | 5  | 10/31/2012 7:28:11 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210C32

Date Reported: 11/9/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Between GAC's

**Project:** TWP Roswell Station 9

**Collection Date:** 10/25/2012 9:30:00 AM

**Lab ID:** 1210C32-003

**Matrix:** AQUEOUS

**Received Date:** 10/26/2012 1:24:00 PM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                            | 1.5    | 1.0      |      | µg/L  | 1  | 10/30/2012 9:53:49 PM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 10/30/2012 9:53:49 PM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 10/30/2012 9:53:49 PM |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 10/30/2012 9:53:49 PM |
| Surr: 4-Bromofluorobenzene         | 105    | 69.7-152 |      | %REC  | 1  | 10/30/2012 9:53:49 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210C32

Date Reported: 11/9/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 10/25/2012 9:30:00 AM

**Lab ID:** 1210C32-004

**Matrix:** AQUEOUS

**Received Date:** 10/26/2012 1:24:00 PM

| Analyses                                  | Result | RL   | Qual | Units | DF | Date Analyzed          |
|-------------------------------------------|--------|------|------|-------|----|------------------------|
| <b>EPA METHOD 300.0: ANIONS</b>           |        |      |      |       |    | Analyst: JRR           |
| Fluoride                                  | ND     | 0.50 |      | mg/L  | 5  | 10/26/2012 10:03:18 PM |
| Chloride                                  | 420    | 25   |      | mg/L  | 50 | 10/29/2012 9:42:57 PM  |
| Nitrogen, Nitrite (As N)                  | ND     | 0.50 |      | mg/L  | 5  | 10/26/2012 10:03:18 PM |
| Bromide                                   | 1.6    | 0.50 |      | mg/L  | 5  | 10/26/2012 10:03:18 PM |
| Nitrogen, Nitrate (As N)                  | ND     | 0.50 |      | mg/L  | 5  | 10/26/2012 10:03:18 PM |
| Phosphorus, Orthophosphate (As P)         | ND     | 2.5  |      | mg/L  | 5  | 10/26/2012 10:03:18 PM |
| Sulfate                                   | 1200   | 25   |      | mg/L  | 50 | 10/29/2012 9:42:57 PM  |
| <b>EPA METHOD 200.7: DISSOLVED METALS</b> |        |      |      |       |    | Analyst: JLF           |
| Calcium                                   | 410    | 10   |      | mg/L  | 10 | 11/5/2012 8:26:38 PM   |
| Magnesium                                 | 140    | 10   |      | mg/L  | 10 | 11/5/2012 8:26:38 PM   |
| Potassium                                 | 2.5    | 1.0  |      | mg/L  | 1  | 11/5/2012 8:21:10 PM   |
| Sodium                                    | 210    | 10   |      | mg/L  | 10 | 11/5/2012 8:26:38 PM   |
| <b>EPA METHOD 8260B: VOLATILES</b>        |        |      |      |       |    | Analyst: DJF           |
| Benzene                                   | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Toluene                                   | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Ethylbenzene                              | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Methyl tert-butyl ether (MTBE)            | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| 1,2,4-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| 1,3,5-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| 1,2-Dichloroethane (EDC)                  | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| 1,2-Dibromoethane (EDB)                   | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Naphthalene                               | ND     | 2.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| 1-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| 2-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Acetone                                   | 55     | 10   |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Bromobenzene                              | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Bromodichloromethane                      | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Bromoform                                 | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Bromomethane                              | ND     | 3.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| 2-Butanone                                | ND     | 10   |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Carbon disulfide                          | ND     | 10   |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Carbon Tetrachloride                      | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Chlorobenzene                             | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Chloroethane                              | ND     | 2.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Chloroform                                | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| Chloromethane                             | ND     | 3.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| 2-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| 4-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| cis-1,2-DCE                               | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| cis-1,3-Dichloropropene                   | ND     | 1.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |
| 1,2-Dibromo-3-chloropropane               | ND     | 2.0  |      | µg/L  | 1  | 11/1/2012 4:07:39 PM   |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210C32

Date Reported: 11/9/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 10/25/2012 9:30:00 AM

**Lab ID:** 1210C32-004

**Matrix:** AQUEOUS

**Received Date:** 10/26/2012 1:24:00 PM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: DJF         |
| Dibromochloromethane               | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Dibromomethane                     | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Dichlorodifluoromethane            | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,1-Dichloroethane                 | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,1-Dichloroethene                 | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,2-Dichloropropane                | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,3-Dichloropropane                | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 2,2-Dichloropropane                | ND     | 2.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,1-Dichloropropene                | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Hexachlorobutadiene                | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 2-Hexanone                         | ND     | 10     |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 11/1/2012 4:07:39 PM |
| Surr: 1,2-Dichloroethane-d4        | 82.5   | 70-130 |      | %REC  | 1  | 11/1/2012 4:07:39 PM |
| Surr: 4-Bromofluorobenzene         | 96.0   | 70-130 |      | %REC  | 1  | 11/1/2012 4:07:39 PM |
| Surr: Dibromofluoromethane         | 91.6   | 70-130 |      | %REC  | 1  | 11/1/2012 4:07:39 PM |
| Surr: Toluene-d8                   | 86.1   | 70-130 |      | %REC  | 1  | 11/1/2012 4:07:39 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210C32

Date Reported: 11/9/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** TWP Roswell Station 9

**Collection Date:**

**Lab ID:** 1210C32-005

**Matrix:** AQUEOUS

**Received Date:** 10/26/2012 1:24:00 PM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|-----|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: DJF         |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,1-Dichloroethane                 | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,1-Dichloroethene                 | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210C32

Date Reported: 11/9/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** TWP Roswell Station 9

**Collection Date:**

**Lab ID:** 1210C32-005

**Matrix:** AQUEOUS

**Received Date:** 10/26/2012 1:24:00 PM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: DJF         |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 11/1/2012 4:38:32 PM |
| Surr: 1,2-Dichloroethane-d4        | 101    | 70-130 |      | %REC  | 1  | 11/1/2012 4:38:32 PM |
| Surr: 4-Bromofluorobenzene         | 95.2   | 70-130 |      | %REC  | 1  | 11/1/2012 4:38:32 PM |
| Surr: Dibromofluoromethane         | 88.6   | 70-130 |      | %REC  | 1  | 11/1/2012 4:38:32 PM |
| Surr: Toluene-d8                   | 97.8   | 70-130 |      | %REC  | 1  | 11/1/2012 4:38:32 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C32

09-Nov-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                       |                                 |     |                                                     |             |                    |          |           |      |          |      |
|-----------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R6689</b>          |     | RunNo: <b>6689</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:            | Analysis Date: <b>11/5/2012</b> |     | SeqNo: <b>193299</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte               | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium               | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Magnesium             | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Potassium             | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Sodium                | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |

|                        |                                 |     |                                                     |             |                    |          |           |      |          |      |
|------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R6689</b>          |     | RunNo: <b>6689</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:             | Analysis Date: <b>11/5/2012</b> |     | SeqNo: <b>193300</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium                | 51                              | 1.0 | 50.00                                               | 0           | 103                | 85       | 115       |      |          |      |
| Magnesium              | 51                              | 1.0 | 50.00                                               | 0           | 103                | 85       | 115       |      |          |      |
| Potassium              | 49                              | 1.0 | 50.00                                               | 0           | 98.5               | 85       | 115       |      |          |      |
| Sodium                 | 50                              | 1.0 | 50.00                                               | 0           | 101                | 85       | 115       |      |          |      |

|                                 |                                 |     |                                                     |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1210C08-002AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R6689</b>          |     | RunNo: <b>6689</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>11/5/2012</b> |     | SeqNo: <b>193731</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium                         | 77                              | 1.0 | 50.00                                               | 26.70       | 101                | 70       | 130       |      |          |      |
| Magnesium                       | 57                              | 1.0 | 50.00                                               | 5.028       | 104                | 70       | 130       |      |          |      |
| Potassium                       | 50                              | 1.0 | 50.00                                               | 0.5430      | 99.1               | 70       | 130       |      |          |      |

|                                  |                                 |     |                                                     |             |                    |          |           |       |          |      |
|----------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Sample ID <b>1210C08-002AMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |       |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R6689</b>          |     | RunNo: <b>6689</b>                                  |             |                    |          |           |       |          |      |
| Prep Date:                       | Analysis Date: <b>11/5/2012</b> |     | SeqNo: <b>193732</b>                                |             | Units: <b>mg/L</b> |          |           |       |          |      |
| Analyte                          | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Calcium                          | 78                              | 1.0 | 50.00                                               | 26.70       | 102                | 70       | 130       | 0.645 | 20       |      |
| Magnesium                        | 57                              | 1.0 | 50.00                                               | 5.028       | 104                | 70       | 130       | 0.312 | 20       |      |
| Potassium                        | 51                              | 1.0 | 50.00                                               | 0.5430      | 100                | 70       | 130       | 1.09  | 20       |      |

|                                 |                                 |     |                                                     |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1210C08-002AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R6689</b>          |     | RunNo: <b>6689</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>11/5/2012</b> |     | SeqNo: <b>193734</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sodium                          | 330                             | 5.0 | 250.0                                               | 83.24       | 101                | 70       | 130       |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C32

09-Nov-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |                 |                |           |             |                                    |          |           |      |          |      |
|------------|-----------------|----------------|-----------|-------------|------------------------------------|----------|-----------|------|----------|------|
| Sample ID  | 1210C08-002AMSD | SampType:      | MSD       | TestCode:   | EPA Method 200.7: Dissolved Metals |          |           |      |          |      |
| Client ID: | BatchQC         | Batch ID:      | R6689     | RunNo:      | 6689                               |          |           |      |          |      |
| Prep Date: |                 | Analysis Date: | 11/5/2012 | SeqNo:      | 193735                             | Units:   | mg/L      |      |          |      |
| Analyte    | Result          | PQL            | SPK value | SPK Ref Val | %REC                               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sodium     | 330             | 5.0            | 250.0     | 83.24       | 98.1                               | 70       | 130       | 1.87 | 20       |      |

### Qualifiers:

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E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C32

09-Nov-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                   |                                  |      |                                           |             |                    |          |           |      |          |      |
|-----------------------------------|----------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>               | SampType: <b>MBLK</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b>             | Batch ID: <b>R6529</b>           |      | RunNo: <b>6529</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>10/26/2012</b> |      | SeqNo: <b>188510</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                           | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                          | ND                               | 0.10 |                                           |             |                    |          |           |      |          |      |
| Nitrogen, Nitrite (As N)          | ND                               | 0.10 |                                           |             |                    |          |           |      |          |      |
| Bromide                           | ND                               | 0.10 |                                           |             |                    |          |           |      |          |      |
| Nitrogen, Nitrate (As N)          | ND                               | 0.10 |                                           |             |                    |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P) | ND                               | 0.50 |                                           |             |                    |          |           |      |          |      |

|                                   |                                  |      |                                           |             |                    |          |           |      |          |      |
|-----------------------------------|----------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>              | SampType: <b>LCS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b>            | Batch ID: <b>R6529</b>           |      | RunNo: <b>6529</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>10/26/2012</b> |      | SeqNo: <b>188511</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                           | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                          | 0.49                             | 0.10 | 0.5000                                    | 0           | 97.1               | 90       | 110       |      |          |      |
| Nitrogen, Nitrite (As N)          | 0.91                             | 0.10 | 1.000                                     | 0           | 91.0               | 90       | 110       |      |          |      |
| Bromide                           | 2.3                              | 0.10 | 2.500                                     | 0           | 91.5               | 90       | 110       |      |          |      |
| Nitrogen, Nitrate (As N)          | 2.4                              | 0.10 | 2.500                                     | 0           | 95.1               | 90       | 110       |      |          |      |
| Phosphorus, Orthophosphate (As P) | 4.8                              | 0.50 | 5.000                                     | 0           | 96.4               | 90       | 110       |      |          |      |

|                                   |                                  |      |                                           |             |                    |          |           |      |          |      |
|-----------------------------------|----------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1210C04-002BMS</b>   | SampType: <b>MS</b>              |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>         | Batch ID: <b>R6529</b>           |      | RunNo: <b>6529</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>10/26/2012</b> |      | SeqNo: <b>188515</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                           | Result                           | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                          | 1.3                              | 0.10 | 0.5000                                    | 0.8417      | 96.7               | 76.6     | 110       |      |          |      |
| Nitrogen, Nitrite (As N)          | 1.6                              | 0.10 | 1.000                                     | 0.6344      | 97.0               | 72.5     | 111       |      |          |      |
| Bromide                           | 3.8                              | 0.10 | 2.500                                     | 0           | 150                | 83.3     | 107       |      |          | S    |
| Nitrogen, Nitrate (As N)          | 6.9                              | 0.10 | 2.500                                     | 4.189       | 107                | 90.4     | 113       |      |          |      |
| Phosphorus, Orthophosphate (As P) | 7.4                              | 0.50 | 5.000                                     | 2.289       | 102                | 74.5     | 115       |      |          |      |

|                                   |                                  |      |                                           |             |                    |          |           |       |          |      |
|-----------------------------------|----------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Sample ID <b>1210C04-002BMSD</b>  | SampType: <b>MSD</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |       |          |      |
| Client ID: <b>BatchQC</b>         | Batch ID: <b>R6529</b>           |      | RunNo: <b>6529</b>                        |             |                    |          |           |       |          |      |
| Prep Date:                        | Analysis Date: <b>10/26/2012</b> |      | SeqNo: <b>188516</b>                      |             | Units: <b>mg/L</b> |          |           |       |          |      |
| Analyte                           | Result                           | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Fluoride                          | 1.3                              | 0.10 | 0.5000                                    | 0.8417      | 94.5               | 76.6     | 110       | 0.818 | 20       |      |
| Nitrogen, Nitrite (As N)          | 1.6                              | 0.10 | 1.000                                     | 0.6344      | 94.3               | 72.5     | 111       | 1.68  | 20       |      |
| Bromide                           | 3.7                              | 0.10 | 2.500                                     | 0           | 147                | 83.3     | 107       | 2.50  | 20       | S    |
| Nitrogen, Nitrate (As N)          | 6.8                              | 0.10 | 2.500                                     | 4.189       | 103                | 90.4     | 113       | 1.37  | 20       |      |
| Phosphorus, Orthophosphate (As P) | 7.3                              | 0.50 | 5.000                                     | 2.289       | 99.6               | 74.5     | 115       | 1.78  | 20       |      |

### Qualifiers:

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P Sample pH greater than 2

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H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C32

09-Nov-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |                |      |                           |             |                                    |          |             |      |          |      |
|------------|----------------|------|---------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | 1210C08-001AMS |      | SampType: MS              |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | BatchQC        |      | Batch ID: R6529           |             | RunNo: 6529                        |          |             |      |          |      |
| Prep Date: |                |      | Analysis Date: 10/26/2012 |             | SeqNo: 188528                      |          | Units: mg/L |      |          |      |
| Analyte    | Result         | PQL  | SPK value                 | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride   | 1.5            | 0.10 | 0.5000                    | 1.027       | 89.9                               | 76.6     | 110         |      |          |      |
| Bromide    | 2.3            | 0.10 | 2.500                     | 0           | 92.8                               | 83.3     | 107         |      |          |      |

|            |                 |      |                           |             |                                    |          |             |       |          |      |
|------------|-----------------|------|---------------------------|-------------|------------------------------------|----------|-------------|-------|----------|------|
| Sample ID  | 1210C08-001AMSD |      | SampType: MSD             |             | TestCode: EPA Method 300.0: Anions |          |             |       |          |      |
| Client ID: | BatchQC         |      | Batch ID: R6529           |             | RunNo: 6529                        |          |             |       |          |      |
| Prep Date: |                 |      | Analysis Date: 10/26/2012 |             | SeqNo: 188529                      |          | Units: mg/L |       |          |      |
| Analyte    | Result          | PQL  | SPK value                 | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD  | RPDLimit | Qual |
| Fluoride   | 1.5             | 0.10 | 0.5000                    | 1.027       | 90.6                               | 76.6     | 110         | 0.243 | 20       |      |
| Bromide    | 2.3             | 0.10 | 2.500                     | 0           | 92.0                               | 83.3     | 107         | 0.788 | 20       |      |

|            |        |                           |           |             |                                    |          |             |      |          |      |
|------------|--------|---------------------------|-----------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | MB     | SampType: MBLK            |           |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | PBW    | Batch ID: R6552           |           |             | RunNo: 6552                        |          |             |      |          |      |
| Prep Date: |        | Analysis Date: 10/29/2012 |           |             | SeqNo: 189176                      |          | Units: mg/L |      |          |      |
| Analyte    | Result | PQL                       | SPK value | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Chloride   | ND     | 0.50                      |           |             |                                    |          |             |      |          |      |
| Sulfate    | ND     | 0.50                      |           |             |                                    |          |             |      |          |      |

|            |        |      |                           |             |                                    |          |             |      |          |      |
|------------|--------|------|---------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | LCS    |      | SampType: LCS             |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | LCSW   |      | Batch ID: R6552           |             | RunNo: 6552                        |          |             |      |          |      |
| Prep Date: |        |      | Analysis Date: 10/29/2012 |             | SeqNo: 189178                      |          | Units: mg/L |      |          |      |
| Analyte    | Result | PQL  | SPK value                 | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Chloride   | 4.8    | 0.50 | 5.000                     | 0           | 96.6                               | 90       | 110         |      |          |      |
| Sulfate    | 9.6    | 0.50 | 10.00                     | 0           | 96.5                               | 90       | 110         |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C32

09-Nov-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5ML RB</b>    | SampType: <b>MBLK</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------|----------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>R6588</b>           |     | RunNo: <b>6588</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>10/30/2012</b> |     | SeqNo: <b>190318</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                    | Result                           | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | ND                               | 1.0 |                                              |             |                    |          |           |      |          |      |
| Toluene                    | ND                               | 1.0 |                                              |             |                    |          |           |      |          |      |
| Ethylbenzene               | ND                               | 1.0 |                                              |             |                    |          |           |      |          |      |
| Xylenes, Total             | ND                               | 2.0 |                                              |             |                    |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 22                               |     | 20.00                                        |             | 108                | 69.7     | 152       |      |          |      |

| Sample ID <b>100NG BTEX LCS</b> | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|----------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>          | Batch ID: <b>R6588</b>           |     | RunNo: <b>6588</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>10/30/2012</b> |     | SeqNo: <b>190325</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                           | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 20                               | 1.0 | 20.00                                        | 0           | 99.6               | 80       | 120       |      |          |      |
| Toluene                         | 20                               | 1.0 | 20.00                                        | 0           | 99.7               | 80       | 120       |      |          |      |
| Ethylbenzene                    | 20                               | 1.0 | 20.00                                        | 0           | 100                | 80       | 120       |      |          |      |
| Xylenes, Total                  | 62                               | 2.0 | 60.00                                        | 0           | 103                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 22                               |     | 20.00                                        |             | 111                | 69.7     | 152       |      |          |      |

| Sample ID <b>1210C32-001AMS</b> | SampType: <b>MS</b>              |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|----------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>Pre-Treatment</b> | Batch ID: <b>R6588</b>           |     | RunNo: <b>6588</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>10/30/2012</b> |     | SeqNo: <b>190340</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                           | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 5000                             | 100 | 2000                                         | 3163        | 94.3               | 74.1     | 124       |      |          |      |
| Toluene                         | 6300                             | 100 | 2000                                         | 4404        | 92.9               | 75.2     | 124       |      |          |      |
| Ethylbenzene                    | 2200                             | 100 | 2000                                         | 275.6       | 98.5               | 69       | 125       |      |          |      |
| Xylenes, Total                  | 8500                             | 200 | 6000                                         | 2557        | 99.1               | 73.1     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 2200                             |     | 2000                                         |             | 110                | 69.7     | 152       |      |          |      |

| Sample ID <b>1210C32-001AMSD</b> | SampType: <b>MSD</b>             |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------------|----------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>Pre-Treatment</b>  | Batch ID: <b>R6588</b>           |     | RunNo: <b>6588</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>10/30/2012</b> |     | SeqNo: <b>190341</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                          | Result                           | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 4900                             | 100 | 2000                                         | 3163        | 84.7               | 74.1     | 124       | 3.87 | 11.2     |      |
| Toluene                          | 6000                             | 100 | 2000                                         | 4404        | 78.2               | 75.2     | 124       | 4.79 | 11.9     |      |
| Ethylbenzene                     | 2100                             | 100 | 2000                                         | 275.6       | 92.5               | 69       | 125       | 5.54 | 13.5     |      |
| Xylenes, Total                   | 8100                             | 200 | 6000                                         | 2557        | 91.9               | 73.1     | 126       | 5.21 | 13       |      |
| Surr: 4-Bromofluorobenzene       | 2200                             |     | 2000                                         |             | 111                | 69.7     | 152       | 0    | 0        |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C32

09-Nov-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                            |                                  |     |           |                                              |      |                    |           |      |          |      |
|----------------------------|----------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>B19</b>       | SampType: <b>MBLK</b>            |     |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                    |           |      |          |      |
| Client ID: <b>PBW</b>      | Batch ID: <b>R6622</b>           |     |           | RunNo: <b>6622</b>                           |      |                    |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>10/31/2012</b> |     |           | SeqNo: <b>191167</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                    | Result                           | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | ND                               | 1.0 |           |                                              |      |                    |           |      |          |      |
| Toluene                    | ND                               | 1.0 |           |                                              |      |                    |           |      |          |      |
| Ethylbenzene               | ND                               | 1.0 |           |                                              |      |                    |           |      |          |      |
| Xylenes, Total             | ND                               | 2.0 |           |                                              |      |                    |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 20                               |     | 20.00     |                                              | 98.2 | 69.7               | 152       |      |          |      |

|                                 |                                  |     |           |                                              |      |                    |           |      |          |      |
|---------------------------------|----------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>100NG BTEX LCS</b> | SampType: <b>LCS</b>             |     |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSW</b>          | Batch ID: <b>R6622</b>           |     |           | RunNo: <b>6622</b>                           |      |                    |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>10/31/2012</b> |     |           | SeqNo: <b>191168</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                         | Result                           | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 19                               | 1.0 | 20.00     | 0                                            | 94.6 | 80                 | 120       |      |          |      |
| Toluene                         | 19                               | 1.0 | 20.00     | 0                                            | 95.3 | 80                 | 120       |      |          |      |
| Ethylbenzene                    | 19                               | 1.0 | 20.00     | 0                                            | 96.9 | 80                 | 120       |      |          |      |
| Xylenes, Total                  | 61                               | 2.0 | 60.00     | 0                                            | 101  | 80                 | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 22                               |     | 20.00     |                                              | 111  | 69.7               | 152       |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C32

09-Nov-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                |        |                |           |             |                             |          |           |      |          |      |
|--------------------------------|--------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                      | 5ml rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                     | PBW    | Batch ID:      | R6649     | RunNo:      | 6649                        |          |           |      |          |      |
| Prep Date:                     |        | Analysis Date: | 11/1/2012 | SeqNo:      | 191709                      | Units:   | µg/L      |      |          |      |
| Analyte                        | Result | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Toluene                        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Ethylbenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Naphthalene                    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| 2-Methylnaphthalene            | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| Acetone                        | ND     | 10             |           |             |                             |          |           |      |          |      |
| Bromobenzene                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromodichloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromoform                      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromomethane                   | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Butanone                     | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon disulfide               | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon Tetrachloride           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chlorobenzene                  | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloroethane                   | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Chloroform                     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloromethane                  | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Chlorotoluene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,2-DCE                    | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,3-Dichloropropene        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Dibromochloromethane           | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dibromomethane                 | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,4-Dichlorobenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dichlorodifluoromethane        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethane             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethene             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichloropropane            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 2,2-Dichloropropane            | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloropropene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Hexachlorobutadiene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |

### Qualifiers:

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E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C32

09-Nov-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5ml rb</b>     | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>       | Batch ID: <b>R6649</b>          |     |           | RunNo: <b>6649</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>11/1/2012</b> |     |           | SeqNo: <b>191709</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| 2-Hexanone                  | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Isopropylbenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Isopropyltoluene          | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Methyl-2-pentanone        | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Methylene Chloride          | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Butylbenzene              | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Propylbenzene             | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| sec-Butylbenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Styrene                     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| tert-Butylbenzene           | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Tetrachloroethene (PCE)     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,2-DCE               | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,3-Dichloropropene   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichloroethene (TCE)       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichlorofluoromethane      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichloropropane      | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Vinyl chloride              | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Xylenes, Total              | ND                              | 1.5 |           |                                              |      |                    |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.4                             |     | 10.00     |                                              | 94.2 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.3                             |     | 10.00     |                                              | 93.0 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.5                             |     | 10.00     |                                              | 95.3 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8            | 9.0                             |     | 10.00     |                                              | 89.9 | 70                 | 130       |      |          |      |

| Sample ID <b>100ng lcs</b>  | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>R6649</b>          |     |           | RunNo: <b>6649</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>11/1/2012</b> |     |           | SeqNo: <b>191716</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 24                              | 1.0 | 20.00     | 0                                            | 118  | 70                 | 130       |      |          |      |
| Toluene                     | 20                              | 1.0 | 20.00     | 0                                            | 97.6 | 80                 | 120       |      |          |      |
| Chlorobenzene               | 22                              | 1.0 | 20.00     | 0                                            | 108  | 70                 | 130       |      |          |      |
| 1,1-Dichloroethene          | 23                              | 1.0 | 20.00     | 0                                            | 116  | 73.7               | 122       |      |          |      |
| Trichloroethene (TCE)       | 21                              | 1.0 | 20.00     | 0                                            | 106  | 70                 | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.9                             |     | 10.00     |                                              | 98.6 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11                              |     | 10.00     |                                              | 107  | 70                 | 130       |      |          |      |

### Qualifiers:

|                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C32

09-Nov-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                            |           |                |           |             |                             |          |           |      |          |      |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                  | 100ng lcs | SampType:      | LCS       | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                 | LCSW      | Batch ID:      | R6649     | RunNo:      | 6649                        |          |           |      |          |      |
| Prep Date:                 |           | Analysis Date: | 11/1/2012 | SeqNo:      | 191716                      | Units:   | µg/L      |      |          |      |
| Analyte                    | Result    | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: Dibromofluoromethane | 8.7       |                | 10.00     |             | 87.4                        | 70       | 130       |      |          |      |
| Surr: Toluene-d8           | 8.8       |                | 10.00     |             | 88.3                        | 70       | 130       |      |          |      |

### Qualifiers:

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H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

## Sample Log-In Check List

Client Name: CYP Work Order Number: 1210C32

Received by/date: AT 10/26/12

Logged By: Anne Thorne 10/26/2012 1:24:00 PM

Completed By: Anne Thorne 10/26/2012

Reviewed By: [Signature] 10/26/12

### Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☒ No ☒ NA ☐  
*Added 0.4 mL HNO<sub>3</sub> to -0042 for acceptable pH. 10/2.*
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: 2

Adjusted? yes (<2 or >12 unless noted)

Checked by: mg

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

18. Additional remarks:

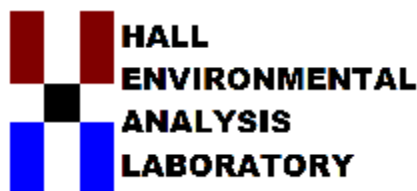
### 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 2.2     | Good      | Yes         |         |           |           |





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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

December 18, 2012

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3420  
FAX (281) 859-1881

RE: TWP Roswell Station 9

OrderNo.: 1211A94

Dear George Robinson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/30/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1211A94

Date Reported: 12/18/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Pre-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 11/28/2012 8:00:00 AM

**Lab ID:** 1211A94-001

**Matrix:** AQUEOUS

**Received Date:** 11/30/2012 11:15:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |     | Analyst: NSB         |
| Benzene                            | 2300   | 100      |      | µg/L  | 100 | 12/6/2012 2:24:51 AM |
| Toluene                            | 3700   | 100      |      | µg/L  | 100 | 12/6/2012 2:24:51 AM |
| Ethylbenzene                       | 230    | 100      |      | µg/L  | 100 | 12/6/2012 2:24:51 AM |
| Xylenes, Total                     | 2300   | 200      |      | µg/L  | 100 | 12/6/2012 2:24:51 AM |
| Surr: 4-Bromofluorobenzene         | 96.9   | 69.7-152 |      | %REC  | 100 | 12/6/2012 2:24:51 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1211A94

Date Reported: 12/18/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post-Air Stripper

**Project:** TWP Roswell Station 9

**Collection Date:** 11/28/2012 8:00:00 AM

**Lab ID:** 1211A94-002

**Matrix:** AQUEOUS

**Received Date:** 11/30/2012 11:15:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: NSB         |
| Benzene                            | 5.1    | 5.0      |      | µg/L  | 5  | 12/6/2012 2:55:08 AM |
| Toluene                            | 8.4    | 5.0      |      | µg/L  | 5  | 12/6/2012 2:55:08 AM |
| Ethylbenzene                       | ND     | 5.0      |      | µg/L  | 5  | 12/6/2012 2:55:08 AM |
| Xylenes, Total                     | ND     | 10       |      | µg/L  | 5  | 12/6/2012 2:55:08 AM |
| Surr: 4-Bromofluorobenzene         | 96.9   | 69.7-152 |      | %REC  | 5  | 12/6/2012 2:55:08 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1211A94

Date Reported: 12/18/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Between GAC's

**Project:** TWP Roswell Station 9

**Collection Date:** 11/28/2012 8:00:00 AM

**Lab ID:** 1211A94-003

**Matrix:** AQUEOUS

**Received Date:** 11/30/2012 11:15:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    | Analyst: NSB         |
| Benzene                            | 1.5    | 1.0      |      | µg/L  | 1  | 12/6/2012 3:25:22 AM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 12/6/2012 3:25:22 AM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 12/6/2012 3:25:22 AM |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 12/6/2012 3:25:22 AM |
| Surr: 4-Bromofluorobenzene         | 98.5   | 69.7-152 |      | %REC  | 1  | 12/6/2012 3:25:22 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1211A94

Date Reported: 12/18/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 11/28/2012 8:00:00 AM

**Lab ID:** 1211A94-004

**Matrix:** AQUEOUS

**Received Date:** 11/30/2012 11:15:00 AM

| Analyses                                  | Result | RL   | Qual | Units | DF | Date Analyzed         |
|-------------------------------------------|--------|------|------|-------|----|-----------------------|
| <b>EPA METHOD 300.0: ANIONS</b>           |        |      |      |       |    | Analyst: JRR          |
| Fluoride                                  | ND     | 0.50 |      | mg/L  | 5  | 12/5/2012 1:58:02 AM  |
| Chloride                                  | 440    | 25   | *    | mg/L  | 50 | 12/5/2012 2:10:26 AM  |
| Bromide                                   | 1.3    | 0.10 |      | mg/L  | 1  | 12/3/2012 12:58:53 PM |
| Phosphorus, Orthophosphate (As P)         | ND     | 0.50 | H    | mg/L  | 1  | 12/3/2012 12:58:53 PM |
| Sulfate                                   | 1200   | 25   | *    | mg/L  | 50 | 12/5/2012 2:10:26 AM  |
| Nitrate+Nitrite as N                      | ND     | 1.0  |      | mg/L  | 5  | 12/3/2012 1:48:30 PM  |
| <b>EPA METHOD 200.7: DISSOLVED METALS</b> |        |      |      |       |    | Analyst: JLF          |
| Calcium                                   | 360    | 10   |      | mg/L  | 10 | 12/6/2012 9:05:31 PM  |
| Magnesium                                 | 130    | 10   |      | mg/L  | 10 | 12/6/2012 9:05:31 PM  |
| Potassium                                 | 3.2    | 1.0  |      | mg/L  | 1  | 12/6/2012 9:01:38 PM  |
| Sodium                                    | 200    | 10   |      | mg/L  | 10 | 12/6/2012 9:05:31 PM  |
| <b>EPA METHOD 8260B: VOLATILES</b>        |        |      |      |       |    | Analyst: JMP          |
| Benzene                                   | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Toluene                                   | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Ethylbenzene                              | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Methyl tert-butyl ether (MTBE)            | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| 1,2,4-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| 1,3,5-Trimethylbenzene                    | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| 1,2-Dichloroethane (EDC)                  | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| 1,2-Dibromoethane (EDB)                   | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Naphthalene                               | ND     | 2.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| 1-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| 2-Methylnaphthalene                       | ND     | 4.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Acetone                                   | 44     | 10   |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Bromobenzene                              | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Bromodichloromethane                      | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Bromoform                                 | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Bromomethane                              | ND     | 3.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| 2-Butanone                                | ND     | 10   |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Carbon disulfide                          | ND     | 10   |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Carbon Tetrachloride                      | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Chlorobenzene                             | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Chloroethane                              | ND     | 2.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Chloroform                                | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Chloromethane                             | ND     | 3.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| 2-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| 4-Chlorotoluene                           | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| cis-1,2-DCE                               | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| cis-1,3-Dichloropropene                   | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| 1,2-Dibromo-3-chloropropane               | ND     | 2.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |
| Dibromochloromethane                      | ND     | 1.0  |      | µg/L  | 1  | 12/6/2012 4:03:15 PM  |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1211A94

Date Reported: 12/18/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Post-Treatment

**Project:** TWP Roswell Station 9

**Collection Date:** 11/28/2012 8:00:00 AM

**Lab ID:** 1211A94-004

**Matrix:** AQUEOUS

**Received Date:** 11/30/2012 11:15:00 AM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: JMP         |
| Dibromomethane                     | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| Dichlorodifluoromethane            | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,1-Dichloroethane                 | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,1-Dichloroethene                 | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,2-Dichloropropane                | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,3-Dichloropropane                | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 2,2-Dichloropropane                | ND     | 2.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,1-Dichloropropene                | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| Hexachlorobutadiene                | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 2-Hexanone                         | ND     | 10     |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 12/6/2012 4:03:15 PM |
| Surr: 1,2-Dichloroethane-d4        | 93.1   | 70-130 |      | %REC  | 1  | 12/6/2012 4:03:15 PM |
| Surr: 4-Bromofluorobenzene         | 95.0   | 70-130 |      | %REC  | 1  | 12/6/2012 4:03:15 PM |
| Surr: Dibromofluoromethane         | 95.8   | 70-130 |      | %REC  | 1  | 12/6/2012 4:03:15 PM |
| Surr: Toluene-d8                   | 98.2   | 70-130 |      | %REC  | 1  | 12/6/2012 4:03:15 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1211A94

Date Reported: 12/18/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** TRIP BLANK

**Project:** TWP Roswell Station 9

**Collection Date:**

**Lab ID:** 1211A94-005

**Matrix:** TRIP BLANK

**Received Date:** 11/30/2012 11:15:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|-----|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: JMP         |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,1-Dichloroethane                 | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,1-Dichloroethene                 | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1211A94

Date Reported: 12/18/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** TRIP BLANK

**Project:** TWP Roswell Station 9

**Collection Date:**

**Lab ID:** 1211A94-005

**Matrix:** TRIP BLANK

**Received Date:** 11/30/2012 11:15:00 AM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: JMP         |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 12/6/2012 4:03:44 AM |
| Surr: 1,2-Dichloroethane-d4        | 85.2   | 70-130 |      | %REC  | 1  | 12/6/2012 4:03:44 AM |
| Surr: 4-Bromofluorobenzene         | 99.3   | 70-130 |      | %REC  | 1  | 12/6/2012 4:03:44 AM |
| Surr: Dibromofluoromethane         | 88.2   | 70-130 |      | %REC  | 1  | 12/6/2012 4:03:44 AM |
| Surr: Toluene-d8                   | 107    | 70-130 |      | %REC  | 1  | 12/6/2012 4:03:44 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH greater than 2  
 RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211A94

18-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                       |                                 |     |                                                     |             |                    |          |           |      |          |      |
|-----------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R7360</b>          |     | RunNo: <b>7360</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:            | Analysis Date: <b>12/6/2012</b> |     | SeqNo: <b>213428</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte               | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium               | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Magnesium             | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Potassium             | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |
| Sodium                | ND                              | 1.0 |                                                     |             |                    |          |           |      |          |      |

|                        |                                 |     |                                                     |             |                    |          |           |      |          |      |
|------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R7360</b>          |     | RunNo: <b>7360</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:             | Analysis Date: <b>12/6/2012</b> |     | SeqNo: <b>213429</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium                | 49                              | 1.0 | 50.00                                               | 0           | 98.9               | 85       | 115       |      |          |      |
| Magnesium              | 50                              | 1.0 | 50.00                                               | 0           | 99.7               | 85       | 115       |      |          |      |
| Potassium              | 48                              | 1.0 | 50.00                                               | 0           | 95.0               | 85       | 115       |      |          |      |
| Sodium                 | 49                              | 1.0 | 50.00                                               | 0           | 97.6               | 85       | 115       |      |          |      |

|                                 |                                 |     |                                                     |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1211805-002AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R7360</b>          |     | RunNo: <b>7360</b>                                  |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>12/6/2012</b> |     | SeqNo: <b>213460</b>                                |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Magnesium                       | 95                              | 1.0 | 50.00                                               | 48.74       | 92.6               | 70       | 130       |      |          |      |
| Potassium                       | 53                              | 1.0 | 50.00                                               | 5.755       | 94.5               | 70       | 130       |      |          |      |

|                                  |                                 |     |                                                     |             |                    |          |           |       |          |      |
|----------------------------------|---------------------------------|-----|-----------------------------------------------------|-------------|--------------------|----------|-----------|-------|----------|------|
| Sample ID <b>1211805-002AMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 200.7: Dissolved Metals</b> |             |                    |          |           |       |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R7360</b>          |     | RunNo: <b>7360</b>                                  |             |                    |          |           |       |          |      |
| Prep Date:                       | Analysis Date: <b>12/6/2012</b> |     | SeqNo: <b>213461</b>                                |             | Units: <b>mg/L</b> |          |           |       |          |      |
| Analyte                          | Result                          | PQL | SPK value                                           | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Magnesium                        | 94                              | 1.0 | 50.00                                               | 48.74       | 91.4               | 70       | 130       | 0.640 | 20       |      |
| Potassium                        | 53                              | 1.0 | 50.00                                               | 5.755       | 93.6               | 70       | 130       | 0.792 | 20       |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211A94

18-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                                  |                                 |      |                                           |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>              | SampType: <b>MBLK</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b>            | Batch ID: <b>R7265</b>          |      | RunNo: <b>7265</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>12/3/2012</b> |      | SeqNo: <b>210603</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                          | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |
| Nitrate+Nitrite as N             | ND                              | 0.20 |                                           |             |                    |          |           |      |          |      |

|                                  |                                 |      |                                           |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>             | SampType: <b>LCS</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b>           | Batch ID: <b>R7265</b>          |      | RunNo: <b>7265</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>12/3/2012</b> |      | SeqNo: <b>210604</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromide                          | 2.4                             | 0.10 | 2.500                                     | 0           | 95.2               | 90       | 110       |      |          |      |
| Phosphorus, Orthophosphate (As P | 5.0                             | 0.50 | 5.000                                     | 0           | 100                | 90       | 110       |      |          |      |
| Nitrate+Nitrite as N             | 3.5                             | 0.20 | 3.500                                     | 0           | 99.0               | 90       | 110       |      |          |      |

|                       |                                 |      |                                           |             |                    |          |           |      |          |      |
|-----------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB</b>   | SampType: <b>MBLK</b>           |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b> | Batch ID: <b>R7286</b>          |      | RunNo: <b>7286</b>                        |             |                    |          |           |      |          |      |
| Prep Date:            | Analysis Date: <b>12/4/2012</b> |      | SeqNo: <b>211227</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte               | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride              | ND                              | 0.10 |                                           |             |                    |          |           |      |          |      |
| Chloride              | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |
| Sulfate               | ND                              | 0.50 |                                           |             |                    |          |           |      |          |      |

|                        |                                 |      |                                           |             |                    |          |           |      |          |      |
|------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS</b>   | SampType: <b>LCS</b>            |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b> | Batch ID: <b>R7286</b>          |      | RunNo: <b>7286</b>                        |             |                    |          |           |      |          |      |
| Prep Date:             | Analysis Date: <b>12/4/2012</b> |      | SeqNo: <b>211228</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride               | 0.48                            | 0.10 | 0.5000                                    | 0           | 95.1               | 90       | 110       |      |          |      |
| Chloride               | 5.0                             | 0.50 | 5.000                                     | 0           | 100                | 90       | 110       |      |          |      |
| Sulfate                | 10                              | 0.50 | 10.00                                     | 0           | 100                | 90       | 110       |      |          |      |

|                                 |                                 |      |                                           |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|------|-------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1212059-002AMS</b> | SampType: <b>MS</b>             |      | TestCode: <b>EPA Method 300.0: Anions</b> |             |                    |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R7286</b>          |      | RunNo: <b>7286</b>                        |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>12/4/2012</b> |      | SeqNo: <b>211235</b>                      |             | Units: <b>mg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL  | SPK value                                 | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                        | 0.70                            | 0.10 | 0.5000                                    | 0.2802      | 84.0               | 76.6     | 110       |      |          |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211A94

18-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |                 |      |           |                |           |          |           |           |                          |      |             |
|------------|-----------------|------|-----------|----------------|-----------|----------|-----------|-----------|--------------------------|------|-------------|
| Sample ID  | 1212059-002AMSD |      |           | SampType:      | MSD       |          |           | TestCode: | EPA Method 300.0: Anions |      |             |
| Client ID: | BatchQC         |      |           | Batch ID:      | R7286     |          |           | RunNo:    | 7286                     |      |             |
| Prep Date: |                 |      |           | Analysis Date: | 12/4/2012 |          |           | SeqNo:    | 211236                   |      | Units: mg/L |
| Analyte    | Result          | PQL  | SPK value | SPK Ref Val    | %REC      | LowLimit | HighLimit | %RPD      | RPDLimit                 | Qual |             |
| Fluoride   | 0.73            | 0.10 | 0.5000    | 0.2802         | 89.8      | 76.6     | 110       | 4.10      | 20                       |      |             |

|            |                |      |           |                |           |          |           |           |                          |      |             |
|------------|----------------|------|-----------|----------------|-----------|----------|-----------|-----------|--------------------------|------|-------------|
| Sample ID  | 1212052-004AMS |      |           | SampType:      | MS        |          |           | TestCode: | EPA Method 300.0: Anions |      |             |
| Client ID: | BatchQC        |      |           | Batch ID:      | R7286     |          |           | RunNo:    | 7286                     |      |             |
| Prep Date: |                |      |           | Analysis Date: | 12/4/2012 |          |           | SeqNo:    | 211248                   |      | Units: mg/L |
| Analyte    | Result         | PQL  | SPK value | SPK Ref Val    | %REC      | LowLimit | HighLimit | %RPD      | RPDLimit                 | Qual |             |
| Fluoride   | 1.4            | 0.10 | 0.5000    | 0.9792         | 93.2      | 76.6     | 110       |           |                          |      |             |

|            |                 |      |           |                |           |          |           |           |                          |      |             |
|------------|-----------------|------|-----------|----------------|-----------|----------|-----------|-----------|--------------------------|------|-------------|
| Sample ID  | 1212052-004AMSD |      |           | SampType:      | MSD       |          |           | TestCode: | EPA Method 300.0: Anions |      |             |
| Client ID: | BatchQC         |      |           | Batch ID:      | R7286     |          |           | RunNo:    | 7286                     |      |             |
| Prep Date: |                 |      |           | Analysis Date: | 12/4/2012 |          |           | SeqNo:    | 211249                   |      | Units: mg/L |
| Analyte    | Result          | PQL  | SPK value | SPK Ref Val    | %REC      | LowLimit | HighLimit | %RPD      | RPDLimit                 | Qual |             |
| Fluoride   | 1.5             | 0.10 | 0.5000    | 0.9792         | 94.3      | 76.6     | 110       | 0.387     | 20                       |      |             |

|            |        |      |           |                |           |          |           |           |                          |      |             |
|------------|--------|------|-----------|----------------|-----------|----------|-----------|-----------|--------------------------|------|-------------|
| Sample ID  | MB     |      |           | SampType:      | MBLK      |          |           | TestCode: | EPA Method 300.0: Anions |      |             |
| Client ID: | PBW    |      |           | Batch ID:      | R7286     |          |           | RunNo:    | 7286                     |      |             |
| Prep Date: |        |      |           | Analysis Date: | 12/4/2012 |          |           | SeqNo:    | 211277                   |      | Units: mg/L |
| Analyte    | Result | PQL  | SPK value | SPK Ref Val    | %REC      | LowLimit | HighLimit | %RPD      | RPDLimit                 | Qual |             |
| Fluoride   | ND     | 0.10 |           |                |           |          |           |           |                          |      |             |
| Chloride   | ND     | 0.50 |           |                |           |          |           |           |                          |      |             |
| Sulfate    | ND     | 0.50 |           |                |           |          |           |           |                          |      |             |

|            |        |      |           |                |           |          |           |           |                          |      |             |
|------------|--------|------|-----------|----------------|-----------|----------|-----------|-----------|--------------------------|------|-------------|
| Sample ID  | LCS    |      |           | SampType:      | LCS       |          |           | TestCode: | EPA Method 300.0: Anions |      |             |
| Client ID: | LCSW   |      |           | Batch ID:      | R7286     |          |           | RunNo:    | 7286                     |      |             |
| Prep Date: |        |      |           | Analysis Date: | 12/4/2012 |          |           | SeqNo:    | 211278                   |      | Units: mg/L |
| Analyte    | Result | PQL  | SPK value | SPK Ref Val    | %REC      | LowLimit | HighLimit | %RPD      | RPDLimit                 | Qual |             |
| Fluoride   | 0.49   | 0.10 | 0.5000    | 0              | 98.1      | 90       | 110       |           |                          |      |             |
| Chloride   | 4.9    | 0.50 | 5.000     | 0              | 97.2      | 90       | 110       |           |                          |      |             |
| Sulfate    | 9.7    | 0.50 | 10.00     | 0              | 97.3      | 90       | 110       |           |                          |      |             |

|            |                |      |           |                |           |          |           |           |                          |      |             |
|------------|----------------|------|-----------|----------------|-----------|----------|-----------|-----------|--------------------------|------|-------------|
| Sample ID  | 1212081-001BMS |      |           | SampType:      | MS        |          |           | TestCode: | EPA Method 300.0: Anions |      |             |
| Client ID: | BatchQC        |      |           | Batch ID:      | R7286     |          |           | RunNo:    | 7286                     |      |             |
| Prep Date: |                |      |           | Analysis Date: | 12/4/2012 |          |           | SeqNo:    | 211291                   |      | Units: mg/L |
| Analyte    | Result         | PQL  | SPK value | SPK Ref Val    | %REC      | LowLimit | HighLimit | %RPD      | RPDLimit                 | Qual |             |
| Fluoride   | 1.3            | 0.10 | 0.5000    | 0.8919         | 90.7      | 76.6     | 110       |           |                          |      |             |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211A94

18-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|            |                 |      |                          |             |                                    |          |             |       |          |      |
|------------|-----------------|------|--------------------------|-------------|------------------------------------|----------|-------------|-------|----------|------|
| Sample ID  | 1212081-001BMSD |      | SampType: MSD            |             | TestCode: EPA Method 300.0: Anions |          |             |       |          |      |
| Client ID: | BatchQC         |      | Batch ID: R7286          |             | RunNo: 7286                        |          |             |       |          |      |
| Prep Date: |                 |      | Analysis Date: 12/4/2012 |             | SeqNo: 211292                      |          | Units: mg/L |       |          |      |
| Analyte    | Result          | PQL  | SPK value                | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD  | RPDLimit | Qual |
| Fluoride   | 1.4             | 0.10 | 0.5000                   | 0.8919      | 92.8                               | 76.6     | 110         | 0.792 | 20       |      |

|            |                |      |                          |             |                                    |          |             |      |          |      |
|------------|----------------|------|--------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | 1212092-001AMS |      | SampType: MS             |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | BatchQC        |      | Batch ID: R7286          |             | RunNo: 7286                        |          |             |      |          |      |
| Prep Date: |                |      | Analysis Date: 12/4/2012 |             | SeqNo: 211303                      |          | Units: mg/L |      |          |      |
| Analyte    | Result         | PQL  | SPK value                | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride   | 0.92           | 0.10 | 0.5000                   | 0.4785      | 88.8                               | 76.6     | 110         |      |          |      |
| Chloride   | 12             | 0.50 | 5.000                    | 7.077       | 103                                | 87.8     | 111         |      |          |      |

|            |                 |      |                          |             |                                    |          |             |      |          |      |
|------------|-----------------|------|--------------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | 1212092-001AMSD |      | SampType: MSD            |             | TestCode: EPA Method 300.0: Anions |          |             |      |          |      |
| Client ID: | BatchQC         |      | Batch ID: R7286          |             | RunNo: 7286                        |          |             |      |          |      |
| Prep Date: |                 |      | Analysis Date: 12/4/2012 |             | SeqNo: 211304                      |          | Units: mg/L |      |          |      |
| Analyte    | Result          | PQL  | SPK value                | SPK Ref Val | %REC                               | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride   | 0.96            | 0.10 | 0.5000                   | 0.4785      | 95.9                               | 76.6     | 110         | 3.76 | 20       |      |
| Chloride   | 13              | 0.50 | 5.000                    | 7.077       | 112                                | 87.8     | 111         | 3.32 | 20       | S    |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211A94

18-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5ML RB</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>R7317</b>          |     | RunNo: <b>7317</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>12/5/2012</b> |     | SeqNo: <b>212324</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                    | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Toluene                    | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Ethylbenzene               | ND                              | 1.0 |                                              |             |                    |          |           |      |          |      |
| Xylenes, Total             | ND                              | 2.0 |                                              |             |                    |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 19                              |     | 20.00                                        |             | 95.5               | 69.7     | 152       |      |          |      |

| Sample ID <b>100NG BTEX LCS</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>          | Batch ID: <b>R7317</b>          |     | RunNo: <b>7317</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>12/5/2012</b> |     | SeqNo: <b>212325</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 21                              | 1.0 | 20.00                                        | 0           | 105                | 80       | 120       |      |          |      |
| Toluene                         | 21                              | 1.0 | 20.00                                        | 0           | 106                | 80       | 120       |      |          |      |
| Ethylbenzene                    | 21                              | 1.0 | 20.00                                        | 0           | 106                | 80       | 120       |      |          |      |
| Xylenes, Total                  | 65                              | 2.0 | 60.00                                        | 0           | 109                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 21                              |     | 20.00                                        |             | 103                | 69.7     | 152       |      |          |      |

| Sample ID <b>1211A45-003AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|---------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R7317</b>          |     | RunNo: <b>7317</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>12/5/2012</b> |     | SeqNo: <b>212334</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 21                              | 1.0 | 20.00                                        | 0.6220      | 99.7               | 74.1     | 124       |      |          |      |
| Toluene                         | 21                              | 1.0 | 20.00                                        | 0.2380      | 103                | 75.2     | 124       |      |          |      |
| Ethylbenzene                    | 21                              | 1.0 | 20.00                                        | 0.1680      | 103                | 69       | 125       |      |          |      |
| Xylenes, Total                  | 64                              | 2.0 | 60.00                                        | 0           | 107                | 73.1     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 20                              |     | 20.00                                        |             | 101                | 69.7     | 152       |      |          |      |

| Sample ID <b>1211A45-003AMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R7317</b>          |     | RunNo: <b>7317</b>                           |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>12/5/2012</b> |     | SeqNo: <b>212335</b>                         |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 20                              | 1.0 | 20.00                                        | 0.6220      | 96.4               | 74.1     | 124       | 3.26 | 11.2     |      |
| Toluene                          | 20                              | 1.0 | 20.00                                        | 0.2380      | 99.1               | 75.2     | 124       | 4.14 | 11.9     |      |
| Ethylbenzene                     | 20                              | 1.0 | 20.00                                        | 0.1680      | 101                | 69       | 125       | 1.94 | 13.5     |      |
| Xylenes, Total                   | 63                              | 2.0 | 60.00                                        | 0           | 104                | 73.1     | 126       | 2.39 | 13       |      |
| Surr: 4-Bromofluorobenzene       | 20                              |     | 20.00                                        |             | 101                | 69.7     | 152       | 0    | 0        |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211A94

18-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>b4</b>            | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |                    |          |           |      |          |      |
|--------------------------------|---------------------------------|-----|-----------|----------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>          | Batch ID: <b>R7326</b>          |     |           | RunNo: <b>7326</b>                           |                    |          |           |      |          |      |
| Prep Date:                     | Analysis Date: <b>12/5/2012</b> |     |           | SeqNo: <b>212524</b>                         | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                        | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Toluene                        | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Ethylbenzene                   | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Naphthalene                    | ND                              | 2.0 |           |                                              |                    |          |           |      |          |      |
| 1-Methylnaphthalene            | ND                              | 4.0 |           |                                              |                    |          |           |      |          |      |
| 2-Methylnaphthalene            | ND                              | 4.0 |           |                                              |                    |          |           |      |          |      |
| Acetone                        | ND                              | 10  |           |                                              |                    |          |           |      |          |      |
| Bromobenzene                   | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Bromodichloromethane           | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Bromoform                      | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Bromomethane                   | ND                              | 3.0 |           |                                              |                    |          |           |      |          |      |
| 2-Butanone                     | ND                              | 10  |           |                                              |                    |          |           |      |          |      |
| Carbon disulfide               | ND                              | 10  |           |                                              |                    |          |           |      |          |      |
| Carbon Tetrachloride           | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Chlorobenzene                  | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Chloroethane                   | ND                              | 2.0 |           |                                              |                    |          |           |      |          |      |
| Chloroform                     | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Chloromethane                  | ND                              | 3.0 |           |                                              |                    |          |           |      |          |      |
| 2-Chlorotoluene                | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 4-Chlorotoluene                | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| cis-1,2-DCE                    | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| cis-1,3-Dichloropropene        | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND                              | 2.0 |           |                                              |                    |          |           |      |          |      |
| Dibromochloromethane           | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Dibromomethane                 | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2-Dichlorobenzene            | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,3-Dichlorobenzene            | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,4-Dichlorobenzene            | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Dichlorodifluoromethane        | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,1-Dichloroethane             | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,1-Dichloroethene             | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,2-Dichloropropane            | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 1,3-Dichloropropane            | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| 2,2-Dichloropropane            | ND                              | 2.0 |           |                                              |                    |          |           |      |          |      |
| 1,1-Dichloropropene            | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |
| Hexachlorobutadiene            | ND                              | 1.0 |           |                                              |                    |          |           |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211A94

18-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>b4</b>         | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>       | Batch ID: <b>R7326</b>          |     |           | RunNo: <b>7326</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>12/5/2012</b> |     |           | SeqNo: <b>212524</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| 2-Hexanone                  | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Isopropylbenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Isopropyltoluene          | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Methyl-2-pentanone        | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Methylene Chloride          | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Butylbenzene              | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Propylbenzene             | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| sec-Butylbenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Styrene                     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| tert-Butylbenzene           | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Tetrachloroethene (PCE)     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,2-DCE               | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,3-Dichloropropene   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichloroethene (TCE)       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichlorofluoromethane      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichloropropane      | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Vinyl chloride              | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Xylenes, Total              | ND                              | 1.5 |           |                                              |      |                    |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.5                             |     | 10.00     |                                              | 84.9 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.6                             |     | 10.00     |                                              | 95.8 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.0                             |     | 10.00     |                                              | 89.6 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8            | 11                              |     | 10.00     |                                              | 105  | 70                 | 130       |      |          |      |

| Sample ID <b>100ng lcs2</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>R7326</b>          |     |           | RunNo: <b>7326</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>12/6/2012</b> |     |           | SeqNo: <b>212549</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 20                              | 1.0 | 20.00     | 0                                            | 97.8 | 70                 | 130       |      |          |      |
| Toluene                     | 20                              | 1.0 | 20.00     | 0                                            | 101  | 80                 | 120       |      |          |      |
| Chlorobenzene               | 19                              | 1.0 | 20.00     | 0                                            | 96.1 | 70                 | 130       |      |          |      |
| 1,1-Dichloroethene          | 21                              | 1.0 | 20.00     | 0                                            | 103  | 73.7               | 122       |      |          |      |
| Trichloroethene (TCE)       | 14                              | 1.0 | 20.00     | 0                                            | 72.3 | 70                 | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.5                             |     | 10.00     |                                              | 84.9 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 10                              |     | 10.00     |                                              | 101  | 70                 | 130       |      |          |      |

### Qualifiers:

|                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211A94

18-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |                                 |     |           |                                              |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>100ng lcs2</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSW</b>      | Batch ID: <b>R7326</b>          |     |           | RunNo: <b>7326</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>12/6/2012</b> |     |           | SeqNo: <b>212549</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: Dibromofluoromethane  | 9.7                             |     | 10.00     |                                              | 97.4 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8            | 10                              |     | 10.00     |                                              | 103  | 70                 | 130       |      |          |      |

|                                 |                                 |     |           |                                              |      |                    |           |      |          |      |
|---------------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>1211a96-004ams</b> | SampType: <b>MS</b>             |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>R7326</b>          |     |           | RunNo: <b>7326</b>                           |      |                    |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>12/6/2012</b> |     |           | SeqNo: <b>212571</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 21                              | 1.0 | 20.00     | 1.218                                        | 97.8 | 66.8               | 128       |      |          |      |
| Toluene                         | 25                              | 1.0 | 20.00     | 6.663                                        | 92.8 | 70                 | 130       |      |          |      |
| Chlorobenzene                   | 18                              | 1.0 | 20.00     | 0                                            | 89.2 | 70                 | 130       |      |          |      |
| 1,1-Dichloroethene              | 20                              | 1.0 | 20.00     | 0                                            | 101  | 70                 | 130       |      |          |      |
| Trichloroethene (TCE)           | 14                              | 1.0 | 20.00     | 0                                            | 71.1 | 70                 | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4     | 8.6                             |     | 10.00     |                                              | 86.1 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 9.1                             |     | 10.00     |                                              | 91.0 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane      | 9.7                             |     | 10.00     |                                              | 96.6 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8                | 9.9                             |     | 10.00     |                                              | 99.0 | 70                 | 130       |      |          |      |

|                                  |                                 |     |           |                                              |      |                    |           |       |          |      |
|----------------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|-------|----------|------|
| Sample ID <b>1211a96-004amsd</b> | SampType: <b>MSD</b>            |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |       |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>R7326</b>          |     |           | RunNo: <b>7326</b>                           |      |                    |           |       |          |      |
| Prep Date:                       | Analysis Date: <b>12/6/2012</b> |     |           | SeqNo: <b>212572</b>                         |      | Units: <b>µg/L</b> |           |       |          |      |
| Analyte                          | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                          | 21                              | 1.0 | 20.00     | 1.218                                        | 97.5 | 66.8               | 128       | 0.272 | 16.7     |      |
| Toluene                          | 26                              | 1.0 | 20.00     | 6.663                                        | 97.3 | 70                 | 130       | 3.53  | 18.7     |      |
| Chlorobenzene                    | 18                              | 1.0 | 20.00     | 0                                            | 91.4 | 70                 | 130       | 2.47  | 19.5     |      |
| 1,1-Dichloroethene               | 20                              | 1.0 | 20.00     | 0                                            | 98.9 | 70                 | 130       | 1.86  | 16.7     |      |
| Trichloroethene (TCE)            | 14                              | 1.0 | 20.00     | 0                                            | 72.2 | 70                 | 130       | 1.57  | 17.5     |      |
| Surr: 1,2-Dichloroethane-d4      | 8.4                             |     | 10.00     |                                              | 83.6 | 70                 | 130       | 0     | 0        |      |
| Surr: 4-Bromofluorobenzene       | 9.7                             |     | 10.00     |                                              | 96.5 | 70                 | 130       | 0     | 0        |      |
| Surr: Dibromofluoromethane       | 9.6                             |     | 10.00     |                                              | 96.0 | 70                 | 130       | 0     | 0        |      |
| Surr: Toluene-d8                 | 10                              |     | 10.00     |                                              | 101  | 70                 | 130       | 0     | 0        |      |

|                                |                                 |     |           |                                              |      |                    |           |      |          |      |
|--------------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>5mL rb</b>        | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
| Client ID: <b>PBW</b>          | Batch ID: <b>R7348</b>          |     |           | RunNo: <b>7348</b>                           |      |                    |           |      |          |      |
| Prep Date:                     | Analysis Date: <b>12/6/2012</b> |     |           | SeqNo: <b>213257</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                        | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Toluene                        | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Ethylbenzene                   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211A94

18-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |        |                |           |             |                             |          |           |      |          |      |
|-----------------------------|--------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 5mL rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | PBW    | Batch ID:      | R7348     | RunNo:      | 7348                        |          |           |      |          |      |
| Prep Date:                  |        | Analysis Date: | 12/6/2012 | SeqNo:      | 213257                      | Units:   | µg/L      |      |          |      |
| Analyte                     | Result | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,2,4-Trimethylbenzene      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3,5-Trimethylbenzene      | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)    | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Naphthalene                 | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1-Methylnaphthalene         | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| 2-Methylnaphthalene         | ND     | 4.0            |           |             |                             |          |           |      |          |      |
| Acetone                     | ND     | 10             |           |             |                             |          |           |      |          |      |
| Bromobenzene                | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromodichloromethane        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromoform                   | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Bromomethane                | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Butanone                  | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon disulfide            | ND     | 10             |           |             |                             |          |           |      |          |      |
| Carbon Tetrachloride        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chlorobenzene               | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloroethane                | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Chloroform                  | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Chloromethane               | ND     | 3.0            |           |             |                             |          |           |      |          |      |
| 2-Chlorotoluene             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Chlorotoluene             | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,2-DCE                 | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| cis-1,3-Dichloropropene     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dibromo-3-chloropropane | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Dibromochloromethane        | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dibromomethane              | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichlorobenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichlorobenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,4-Dichlorobenzene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Dichlorodifluoromethane     | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethane          | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloroethene          | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,2-Dichloropropane         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 1,3-Dichloropropane         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 2,2-Dichloropropane         | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| 1,1-Dichloropropene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Hexachlorobutadiene         | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 2-Hexanone                  | ND     | 10             |           |             |                             |          |           |      |          |      |
| Isopropylbenzene            | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Isopropyltoluene          | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| 4-Methyl-2-pentanone        | ND     | 10             |           |             |                             |          |           |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211A94

18-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

| Sample ID <b>5mL rb</b>     | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>       | Batch ID: <b>R7348</b>          |     |           | RunNo: <b>7348</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>12/6/2012</b> |     |           | SeqNo: <b>213257</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Methylene Chloride          | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Butylbenzene              | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Propylbenzene             | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| sec-Butylbenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Styrene                     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| tert-Butylbenzene           | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Tetrachloroethene (PCE)     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,2-DCE               | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,3-Dichloropropene   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichloroethene (TCE)       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichlorofluoromethane      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichloropropane      | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Vinyl chloride              | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Xylenes, Total              | ND                              | 1.5 |           |                                              |      |                    |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.8                             |     | 10.00     |                                              | 97.9 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.7                             |     | 10.00     |                                              | 96.7 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.7                             |     | 10.00     |                                              | 97.2 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8            | 10                              |     | 10.00     |                                              | 102  | 70                 | 130       |      |          |      |

| Sample ID <b>100ng lcs</b>  | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>R7348</b>          |     |           | RunNo: <b>7348</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>12/6/2012</b> |     |           | SeqNo: <b>213267</b>                         |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 20                              | 1.0 | 20.00     | 0                                            | 101  | 70                 | 130       |      |          |      |
| Toluene                     | 20                              | 1.0 | 20.00     | 0                                            | 97.5 | 80                 | 120       |      |          |      |
| Chlorobenzene               | 19                              | 1.0 | 20.00     | 0                                            | 93.0 | 70                 | 130       |      |          |      |
| 1,1-Dichloroethene          | 21                              | 1.0 | 20.00     | 0                                            | 104  | 73.7               | 122       |      |          |      |
| Trichloroethene (TCE)       | 15                              | 1.0 | 20.00     | 0                                            | 74.1 | 70                 | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.4                             |     | 10.00     |                                              | 94.0 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.7                             |     | 10.00     |                                              | 97.4 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 10                              |     | 10.00     |                                              | 99.9 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8            | 9.8                             |     | 10.00     |                                              | 97.8 | 70                 | 130       |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# Sample Log-In Check List

Client Name: CYP

Received by/date: *[Signature]*

Work Order Number: 1211A94

Logged By: Ashley Gallegos

11/30/2012 11:15:00 AM

Completed By: Ashley Gallegos

11/30/2012 12:37:14 PM

Reviewed By: *[Signature]*

12/03/12

## Chain of Custody

1. Were seals intact?

Yes ☐ No ☐ Not Present ☒

2. Is Chain of Custody complete?

Yes ☒ No ☐ Not Present ☐

3. How was the sample delivered?

Client

## Log In

4. Coolers are present? (see 19. for cooler specific information)

Yes ☒ No ☐ NA ☐

5. Was an attempt made to cool the samples?

Yes ☒ No ☐ NA ☐

6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$

Yes ☒ No ☐ NA ☐

7. Sample(s) in proper container(s)?

Yes ☒ No ☐

8. Sufficient sample volume for indicated test(s)?

Yes ☒ No ☐

9. Are samples (except VOA and ONG) properly preserved?

Yes ☒ No ☐

10. Was preservative added to bottles?

Yes ☐ No ☒ NA ☐

11. VOA vials have zero headspace?

Yes ☒ No ☐ No VOA Vials ☐

12. Were any sample containers received broken?

Yes ☐ No ☒

13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody)

Yes ☒ No ☐

14. Are matrices correctly identified on Chain of Custody?

Yes ☒ No ☐

15. Is it clear what analyses were requested?

Yes ☒ No ☐

16. Were all holding times able to be met?

Yes ☒ No ☐

(If no, notify customer for authorization.)

# of preserved  
bottles checked  
for pH:

Adjusted?

( $<2$  or  $>12$  unless noted)

Checked by: *[Signature]*

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order?

Yes ☐ No ☐ NA ☒

Person Notified:

By Whom:

Regarding:

Client Instructions:

Date:

Via:

eMail

Phone

Fax

In Person

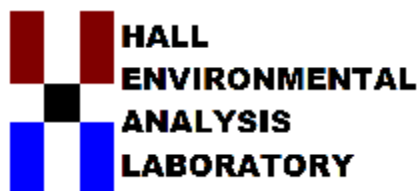
18. Additional remarks:

## 19. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.6                     | Good      | Not Present |         |           |           |



**LABORATORY REPORTS  
FOR PSH SAMPLES**



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3420  
FAX (281) 859-1881

RE: Transwestern Pipeline Co. Roswell

OrderNo.: 1210A44

Dear George Robinson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/23/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109





## CORE LABORATORIES

201 Deerwood Glen Dr  
Deer Park, TX 77536  
281-478-1300

HALL ENVIRONMENTAL ANALYSIS LAB INC  
Anne Thorne  
4901 HAWKINS NW, SUITE D  
ALBUQUERQUE, NM 87109-4372

Report Number : 57801- 123360  
Date Reported: 11/1/2012  
Date Received: 10/24/2012

### Analytical Report

Sample No. 123360-001 Sample ID MPE-24

Date Sampled 10/18/2012 3:00:00 PM

1210A44-001A

| Test                | Result | Units        | Method      | Date       | Analyst |
|---------------------|--------|--------------|-------------|------------|---------|
| Kinematic Viscosity | 1.288  | cSt @ 25 C   | ASTM D-445  | 10/25/2012 | RM      |
| <b>PIONA by GC</b>  |        |              |             |            |         |
| Paraffins           | 24.04  | LV %         | ASTM D-6733 | 10/24/2012 | CC      |
| Isoparaffins        | 28.13  |              |             |            |         |
| Olefins             | <0.01  |              |             |            |         |
| Naphthenes          | 27.45  |              |             |            |         |
| Aromatics           | 6.35   |              |             |            |         |
| Unidentified        | 14.03  |              |             |            |         |
| Total               | 100.00 |              |             |            |         |
| Specific Gravity    | 0.7676 | @60/60 Deg F | ASTM D-4052 | 10/25/2012 | SAK     |

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgement of Core Laboratories. Core Laboratories, however, makes no warrant or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operation or profitability of any oil, gas, or other mineral property, well or sand in conjunction with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the approval of Core Laboratories.



# CORE LABORATORIES

201 Deerwood Glen Dr

Deer Park, TX 77536

281-478-1300

|                                       |                     |             |      |       |
|---------------------------------------|---------------------|-------------|------|-------|
| Hall                                  |                     | 11/1/2012   |      |       |
| Sample Number                         | 123360-001          | ASTM D-6733 |      |       |
| Sample ID                             | MPE-24 1210A44-001A | Page 1 of 8 |      |       |
| Sampled on 10/18/2012 3:00:00 PM      |                     | WT %        | LV % | MOL % |
| Propane                               |                     | 0.01        | 0.01 | 0.03  |
| Isobutane                             |                     | 0.01        | 0.01 | 0.02  |
| N-Butane                              |                     | 0.06        | 0.08 | 0.12  |
| Isopentane                            |                     | 0.40        | 0.48 | 0.65  |
| N-Pentane                             |                     | 0.94        | 1.12 | 1.54  |
| 2,2-Dimethylbutane                    |                     | 0.07        | 0.08 | 0.10  |
| Cyclopentane                          |                     | 0.14        | 0.14 | 0.24  |
| 2,3-Dimethylbutane                    |                     | 0.21        | 0.24 | 0.29  |
| 2-Methylpentane                       |                     | 1.57        | 1.79 | 2.15  |
| 3-Methylpentane                       |                     | 1.09        | 1.22 | 1.49  |
| N-Hexane                              |                     | 3.52        | 3.98 | 4.82  |
| 2,2-Dimethylpentane                   |                     | 0.12        | 0.13 | 0.14  |
| Methylcyclopentane                    |                     | 1.77        | 1.76 | 2.48  |
| 2,4-Dimethylpentane                   |                     | 0.21        | 0.23 | 0.25  |
| 2,2,3-Trimethylbutane                 |                     | 0.04        | 0.04 | 0.05  |
| Benzene                               |                     | 0.11        | 0.09 | 0.17  |
| 3,3-Dimethylpentane                   |                     | 0.09        | 0.10 | 0.11  |
| Cyclohexane                           |                     | 2.78        | 2.66 | 3.90  |
| 2-Methylhexane                        |                     | 1.82        | 2.00 | 2.14  |
| 2,3-Dimethylpentane                   |                     | 0.48        | 0.51 | 0.57  |
| 1,1-Dimethylcyclopentane              |                     | 0.37        | 0.37 | 0.44  |
| 3-Methylhexane                        |                     | 2.14        | 2.32 | 2.52  |
| Cis-1,3-dimethylcyclopentane          |                     | 0.73        | 0.73 | 0.88  |
| Trans-1,3-dimethylcyclopentane        |                     | 0.67        | 0.67 | 0.81  |
| 3-Ethylpentane                        |                     | 0.16        | 0.17 | 0.19  |
| Trans-1,2-dimethylcyclopentane        |                     | 1.08        | 1.07 | 1.30  |
| 2,2,4-Trimethylpentane                |                     | 0.01        | 0.01 | 0.01  |
| N-Heptane                             |                     | 5.17        | 5.64 | 6.09  |
| Methylcyclohexane                     |                     | 7.46        | 7.23 | 8.97  |
| 2,2-Dimethylhexane                    |                     | 0.55        | 0.59 | 0.57  |
| Ethylcyclopentane                     |                     | 0.34        | 0.33 | 0.41  |
| 2,5-Dimethylhexane                    |                     | 0.29        | 0.31 | 0.30  |
| 2,4-Dimethylhexane                    |                     | 0.37        | 0.39 | 0.38  |
| Trans,cis-1,2,4-trimethylcyclopentane |                     | 0.49        | 0.49 | 0.52  |
| 3,3-Dimethylhexane                    |                     | 0.11        | 0.12 | 0.11  |
| Trans,cis-1,2,3-trimethylcyclopentane |                     | 0.48        | 0.47 | 0.50  |

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Deer Park, TX 77536

281-478-1300

Hall

11/1/2012

Sample Number 123360-001

ASTM D-6733

Sample ID MPE-24 1210A44-001A

Page 2 of 8

Sampled on 10/18/2012 3:00:00 PM

WT %

LV %

MOL %

|                                       |      |      |      |
|---------------------------------------|------|------|------|
| 2,3,4-Trimethylpentane                | 0.02 | 0.02 | 0.02 |
| Toluene                               | 0.46 | 0.40 | 0.59 |
| 2,3,3-Trimethylpentane                | 0.02 | 0.02 | 0.02 |
| 2,3-Dimethylhexane                    | 0.32 | 0.33 | 0.33 |
| 2-Methyl-3-Ethylpentane               | 0.07 | 0.07 | 0.07 |
| 1,1,2-trimethylcyclopentane           | 0.14 | 0.14 | 0.15 |
| 2-Methylheptane                       | 2.30 | 2.46 | 2.38 |
| 4-Methylheptane                       | 0.88 | 0.93 | 0.91 |
| 3,4-Dimethylhexane                    | 0.09 | 0.09 | 0.09 |
| Cis,trans,1,2,4-trimethylcyclopentane | 0.07 | 0.07 | 0.07 |
| Cis-1,3 dimethylcyclohexane           | 1.54 | 1.50 | 1.62 |
| 3-Methylheptane                       | 2.20 | 2.32 | 2.27 |
| 3-Ethylhexane                         | 0.32 | 0.33 | 0.33 |
| Trans-1,4-dimethylcyclohexane         | 0.77 | 0.75 | 0.81 |
| 1,1-Dimethylcyclohexane               | 0.32 | 0.31 | 0.34 |
| Trans-1-ethyl-3-methylcyclopentane    | 0.17 | 0.17 | 0.18 |
| Cis-1-ethyl-3-methylcyclopentane      | 0.16 | 0.15 | 0.17 |
| Trans-1-ethyl-2-methylcyclopentane    | 0.25 | 0.24 | 0.26 |
| 1-Ethyl-1-methylcyclopentane          | 0.05 | 0.05 | 0.05 |
| Trans-1,2-dimethylcyclohexane         | 0.93 | 0.89 | 0.98 |
| Cis-1,4-dimethylcyclohexane           | 0.47 | 0.44 | 0.49 |
| N-Octane                              | 4.65 | 4.93 | 4.80 |
| Isopropylcyclopentane                 | 0.03 | 0.03 | 0.03 |
| 2,4,4-Trimethylhexane                 | 0.06 | 0.06 | 0.06 |
| 2,2,5-Trimethylhexane                 | 0.04 | 0.04 | 0.04 |
| 2,3,5-Trimethylhexane                 | 0.05 | 0.05 | 0.05 |
| Cis-1-ethyl-2-methylcyclopentane      | 0.04 | 0.04 | 0.04 |
| 2,2-Dimethylheptane                   | 0.08 | 0.08 | 0.07 |
| Cis-1,2-dimethylcyclohexane           | 0.18 | 0.17 | 0.19 |
| 2,4-Dimethylheptane                   | 0.27 | 0.28 | 0.25 |
| 4,4-Dimethylheptane                   | 0.04 | 0.04 | 0.04 |
| Ethylcyclohexane                      | 1.54 | 1.46 | 1.62 |
| 2-Methyl-4-ethylhexane                | 0.03 | 0.03 | 0.03 |
| 2,6-Dimethylheptane                   | 0.66 | 0.69 | 0.61 |
| 1,1,3-Trimethylcyclohexane            | 0.58 | 0.56 | 0.54 |
| C9 Naphthene                          | 0.12 | 0.11 | 0.11 |

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|                                        |                                  |      |      |             |
|----------------------------------------|----------------------------------|------|------|-------------|
| Hall                                   |                                  |      |      | 11/1/2012   |
| Sample Number                          | 123360-001                       |      |      | ASTM D-6733 |
| Sample ID                              | MPE-24 1210A44-001A              |      |      | Page 3 of 8 |
|                                        | Sampled on 10/18/2012 3:00:00 PM | WT % | LV % | MOL %       |
| 2,5-Dimethylheptane                    |                                  | 0.44 | 0.46 | 0.40        |
| 3,5-Dimethylheptane                    |                                  | 0.15 | 0.16 | 0.14        |
| C9 Naphthene                           |                                  | 0.09 | 0.09 | 0.08        |
| C9 Naphthene                           |                                  | 0.04 | 0.04 | 0.04        |
| Ethylbenzene                           |                                  | 0.13 | 0.11 | 0.14        |
| 2,3,4-Trimethylhexane                  |                                  | 0.05 | 0.05 | 0.05        |
| Trans,trans,1,2,4-trimethylcyclohexane |                                  | 0.11 | 0.11 | 0.10        |
| Cis,trans,1,3,5-trimethylcyclohexane   |                                  | 0.46 | 0.44 | 0.43        |
| 3,3,4-Trimethylhexane                  |                                  | 0.05 | 0.05 | 0.05        |
| Meta-Xylene                            |                                  | 0.65 | 0.56 | 0.72        |
| Para-Xylene                            |                                  | 0.20 | 0.17 | 0.22        |
| 2,3-Dimethylheptane                    |                                  | 0.29 | 0.30 | 0.27        |
| 3,4-Dimethylheptane D/L                |                                  | 0.13 | 0.13 | 0.12        |
| 3,4-Dimethylheptane L/D                |                                  | 0.08 | 0.08 | 0.07        |
| 4-Ethylheptane                         |                                  | 0.13 | 0.13 | 0.12        |
| 4-Methyloctane                         |                                  | 0.63 | 0.65 | 0.58        |
| 2-Methyloctane                         |                                  | 0.80 | 0.84 | 0.74        |
| Cis,cis,1,2,3-trimethylcyclohexane     |                                  | 0.02 | 0.02 | 0.02        |
| Trans,cis,1,2,4-trimethylcyclohexane   |                                  | 0.11 | 0.11 | 0.10        |
| 3-Ethylheptane                         |                                  | 0.16 | 0.17 | 0.15        |
| 3-Methyloctane                         |                                  | 0.93 | 0.96 | 0.86        |
| Cis,trans,1,2,4-trimethylcyclohexane   |                                  | 0.06 | 0.06 | 0.06        |
| Cis,cis,1,2,4-trimethylcyclohexane     |                                  | 0.03 | 0.03 | 0.03        |
| Ortho-Xylene                           |                                  | 0.26 | 0.22 | 0.29        |
| Trans-1-Methyl-2-propylcyclopentane    |                                  | 0.18 | 0.17 | 0.17        |
| Trans-1-ethyl-4-methylcyclohexane      |                                  | 0.53 | 0.49 | 0.50        |
| Isobutylcyclopentane                   |                                  | 0.02 | 0.02 | 0.02        |
| 1-Ethyl-1-methylcyclohexane            |                                  | 0.05 | 0.05 | 0.05        |
| Cis,trans,1,2,3-trimethylcyclohexane   |                                  | 0.05 | 0.05 | 0.05        |
| Trans,trans,1,2,3-trimethylcyclohexane |                                  | 0.04 | 0.04 | 0.04        |
| N-Nonane                               |                                  | 2.91 | 3.02 | 2.68        |
| Trans-1-ethyl-3-methylcyclohexane      |                                  | 0.31 | 0.30 | 0.29        |
| Trans-1-ethyl-2-methylcyclohexane      |                                  | 0.18 | 0.17 | 0.17        |
| Cis-1-ethyl-4-methylcyclohexane        |                                  | 0.15 | 0.14 | 0.14        |
| Isopropylbenzene                       |                                  | 0.03 | 0.03 | 0.03        |
| Isopropylcyclohexane                   |                                  | 0.06 | 0.06 | 0.06        |

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Sample Number 123360-001

ASTM D-6733

Sample ID MPE-24 1210A44-001A

Page 4 of 8

Sampled on 10/18/2012 3:00:00 PM

|                                    | WT % | LV % | MOL % |
|------------------------------------|------|------|-------|
| 2,4-Dimethyloctane                 | 0.17 | 0.18 | 0.14  |
| 2,6-Dimethyloctane                 | 0.48 | 0.49 | 0.40  |
| 2,5-Dimethyloctane                 | 0.03 | 0.03 | 0.02  |
| N-propylcyclohexane                | 0.43 | 0.40 | 0.40  |
| N-butylcyclopentane                | 0.20 | 0.19 | 0.19  |
| 3,5-Dimethyloctane                 | 0.07 | 0.07 | 0.06  |
| 2,7-Dimethyloctane                 | 0.07 | 0.07 | 0.06  |
| n-Propylbenzene                    | 0.11 | 0.10 | 0.11  |
| 3,6-Dimethyloctane                 | 0.15 | 0.15 | 0.12  |
| 3,3-Dimethyloctane                 | 0.06 | 0.06 | 0.05  |
| 1-Methyl-3-ethylbenzene            | 0.21 | 0.18 | 0.21  |
| 1-Methyl-4-ethylbenzene            | 0.12 | 0.10 | 0.12  |
| 2,3-Dimethyloctane                 | 0.08 | 0.08 | 0.07  |
| 1,3,5-Trimethylbenzene             | 0.27 | 0.23 | 0.27  |
| 4-Ethyloctane                      | 0.19 | 0.19 | 0.16  |
| C10 Naphthene                      | 0.07 | 0.07 | 0.06  |
| 5-Methylnonane                     | 0.05 | 0.05 | 0.04  |
| 4-Methylnonane                     | 0.15 | 0.15 | 0.12  |
| 1-Methyl-2-ethylbenzene            | 0.04 | 0.03 | 0.04  |
| 2-Methylnonane                     | 0.46 | 0.47 | 0.38  |
| 3-Ethyloctane                      | 0.43 | 0.44 | 0.36  |
| 1,2,3,5 Tet-methylcyclohexane      | 0.09 | 0.09 | 0.08  |
| 3-Methylnonane                     | 0.40 | 0.41 | 0.33  |
| 1,2,3,4 Tet-methylcyclohexane      | 0.07 | 0.07 | 0.06  |
| C10 Naphthenes                     | 0.34 | 0.32 | 0.29  |
| C10 Paraffin                       | 0.67 | 0.67 | 0.51  |
| 1,2,4-Trimethylbenzene             | 0.27 | 0.23 | 0.27  |
| Cis-1-methyl-3-propylcyclohexane   | 0.16 | 0.15 | 0.13  |
| C10 Paraffin                       | 0.03 | 0.03 | 0.02  |
| Cis 1,3 diethylcyclohexane         | 0.21 | 0.20 | 0.18  |
| Trans-1-methyl-3-propylcyclohexane | 0.03 | 0.03 | 0.03  |
| 1-Ethyl-2,3-dimethylcyclohexane    | 0.05 | 0.05 | 0.04  |
| Isobutylbenzene                    | 0.09 | 0.08 | 0.08  |
| sec-Butylbenzene                   | 0.04 | 0.03 | 0.04  |
| N-Decane                           | 2.13 | 2.18 | 1.77  |
| C10 Naphthene                      | 0.04 | 0.04 | 0.03  |

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Sample Number 123360-001

ASTM D-6733

Sample ID MPE-24 1210A44-001A

Page 5 of 8

| Sampled on 10/18/2012 3:00:00 PM | WT % | LV % | MOL % |
|----------------------------------|------|------|-------|
| Trans 1,3 diethylcyclohexane     | 0.03 | 0.03 | 0.03  |
| 1,2,3-Trimethylbenzene           | 0.09 | 0.08 | 0.09  |
| 1-Methyl-3-isopropylbenzene      | 0.08 | 0.07 | 0.07  |
| 1-Methyl-4-isopropylbenzene      | 0.04 | 0.03 | 0.04  |
| Indan (2,3-Dihydroindene)        | 0.08 | 0.06 | 0.08  |
| Sec-butylicyclohexane            | 0.16 | 0.15 | 0.13  |
| 1-Methyl-2-isopropylbenzene      | 0.38 | 0.32 | 0.33  |
| Butylcyclohexane                 | 0.10 | 0.09 | 0.08  |
| 1,3-Diethylbenzene               | 0.12 | 0.10 | 0.11  |
| 1-Methyl-3-n-propylbenzene       | 0.08 | 0.07 | 0.07  |
| 1-Methyl-4-n-propylbenzene       | 0.04 | 0.03 | 0.04  |
| 1,4-Diethylbenzene               | 0.19 | 0.16 | 0.17  |
| 1,3-Dimethyl-5-ethylbenzene      | 0.09 | 0.08 | 0.08  |
| 1,2-Diethylbenzene               | 0.13 | 0.11 | 0.11  |
| 1-Methyl-2-n-propylbenzene       | 0.14 | 0.12 | 0.12  |
| 5-Methyldecane                   | 0.23 | 0.23 | 0.17  |
| 2-Methyldecane                   | 0.21 | 0.21 | 0.16  |
| 1,3-Dimethyl-4-ethylbenzene      | 0.02 | 0.02 | 0.02  |
| 3-Methyldecane                   | 0.38 | 0.38 | 0.29  |
| 1-Methylindan                    | 0.29 | 0.23 | 0.26  |
| 1,3-Dimethyl-2-ethylbenzene      | 0.04 | 0.03 | 0.04  |
| 1,2-Dimethyl-3-Ethylbenzene      | 0.08 | 0.07 | 0.07  |
| C11 Naphthenes                   | 0.19 | 0.18 | 0.13  |
| C11 Paraffins                    | 0.49 | 0.49 | 0.34  |
| N-Undecane                       | 1.80 | 1.81 | 1.36  |
| 1,2,4,5-Tetramethylbenzene       | 0.06 | 0.05 | 0.05  |
| 1,2,3,5-Tetramethylbenzene       | 0.07 | 0.06 | 0.06  |
| C12 Unidentified                 | 1.01 | 0.95 | 0.74  |
| 1,2,3,4-Tetramethylbenzene       | 0.13 | 0.11 | 0.11  |
| Tetralin                         | 0.02 | 0.02 | 0.02  |
| 5-Methylundecane                 | 0.20 | 0.20 | 0.14  |
| 2-Methylundecane                 | 0.29 | 0.29 | 0.20  |
| Naphthalene                      | 0.06 | 0.05 | 0.06  |
| 1,1 Dimethylindan                | 0.07 | 0.06 | 0.06  |
| 1,2 Dimethylindan                | 0.14 | 0.11 | 0.11  |
| 3-Methylundecane                 | 0.23 | 0.23 | 0.16  |

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Sample Number 123360-001

ASTM D-6733

Sample ID MPE-24 1210A44-001A

Page 6 of 8

Sampled on 10/18/2012 3:00:00 PM

|                       | WT %   | LV %   | MOL %  |
|-----------------------|--------|--------|--------|
| C11 Aromatic          | 1.51   | 1.30   | 1.20   |
| N-Dodecane            | 1.29   | 1.28   | 0.89   |
| 1,2,4-triethylbenzene | 0.40   | 0.34   | 0.29   |
| 2-Methylnaphthalene   | 0.09   | 0.07   | 0.07   |
| Tridecanes            | 2.90   | 2.68   | 1.96   |
| N-Tridecane           | 0.98   | 0.97   | 0.63   |
| 1-Methylnaphthalene   | 0.05   | 0.04   | 0.04   |
| Tetradecanes          | 2.64   | 2.41   | 1.64   |
| N-Tetradecane         | 0.61   | 0.60   | 0.36   |
| Pentadecanes          | 1.94   | 1.75   | 1.11   |
| N-Pentadecane         | 0.36   | 0.35   | 0.20   |
| Hexadecanes           | 1.04   | 0.93   | 0.55   |
| N-Hexadecane          | 0.19   | 0.18   | 0.10   |
| Heptadecanes          | 0.81   | 0.72   | 0.40   |
| N-Heptadecane         | 0.15   | 0.14   | 0.07   |
| Pristane              | 0.13   | 0.12   | 0.06   |
| Octadecanes           | 0.47   | 0.41   | 0.22   |
| N-Octadecane          | 0.12   | 0.12   | 0.06   |
| Phytane               | 0.03   | 0.03   | 0.01   |
| Nonadecanes           | 0.39   | 0.34   | 0.18   |
| N-Nonadecane          | 0.10   | 0.10   | 0.04   |
| Eicosanes             | 0.27   | 0.23   | 0.12   |
| N-Eicosane            | 0.07   | 0.07   | 0.03   |
| Heneicosanes          | 0.22   | 0.19   | 0.09   |
| Docosanes             | 0.07   | 0.06   | 0.03   |
| Tricosanes            | 0.02   | 0.02   | 0.01   |
| Unidentified          | 0.65   | 0.65   | 0.45   |
| Total                 | 100.00 | 100.00 | 100.00 |
| Total Paraffins       | 22.47  | 24.04  | 24.07  |
| Total Isoparaffins    | 26.55  | 28.13  | 27.46  |
| Total Naphthenes      | 28.33  | 27.45  | 32.31  |
| Total Aromatics       | 7.48   | 6.35   | 7.07   |
| Unclassified          | 15.18  | 14.03  | 9.09   |
| Total C4              | 0.07   | 0.09   | 0.14   |
| Total C5              | 1.48   | 1.74   | 2.43   |
| Total C6              | 11.12  | 11.82  | 15.40  |

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ASTM D-6733

Sample ID MPE-24 1210A44-001A

Page 7 of 8

Sampled on 10/18/2012 3:00:00 PM

WT %

LV %

MOL %

|                 |       |       |       |
|-----------------|-------|-------|-------|
| Total C7        | 21.34 | 21.94 | 25.46 |
| Total C8        | 21.06 | 21.35 | 21.98 |
| Total C9        | 13.02 | 12.96 | 12.19 |
| Total C10       | 9.16  | 8.85  | 7.70  |
| Total C11       | 5.16  | 4.88  | 3.93  |
| Total C12       | 2.41  | 2.34  | 1.68  |
| C4 Paraffin     | 0.06  | 0.08  | 0.12  |
| C5 Paraffin     | 0.94  | 1.12  | 1.54  |
| C6 Paraffin     | 3.52  | 3.98  | 4.82  |
| C7 Paraffin     | 5.17  | 5.64  | 6.09  |
| C8 Paraffin     | 4.65  | 4.93  | 4.80  |
| C9 Paraffin     | 2.91  | 3.02  | 2.68  |
| C10 Paraffin    | 2.13  | 2.18  | 1.77  |
| C11 Paraffin    | 1.80  | 1.81  | 1.36  |
| C12 Paraffin    | 1.29  | 1.28  | 0.89  |
| C4 Isoparaffin  | 0.01  | 0.01  | 0.02  |
| C5 Isoparaffin  | 0.40  | 0.48  | 0.65  |
| C6 Isoparaffin  | 2.94  | 3.33  | 4.03  |
| C7 Isoparaffin  | 5.06  | 5.50  | 5.97  |
| C8 Isoparaffin  | 7.55  | 7.99  | 7.79  |
| C9 Isoparaffin  | 5.07  | 5.25  | 4.70  |
| C10 Isoparaffin | 3.49  | 3.54  | 2.84  |
| C11 Isoparaffin | 1.31  | 1.31  | 0.96  |
| C12 Isoparaffin | 0.72  | 0.72  | 0.50  |
| C5 Naphthene    | 0.14  | 0.14  | 0.24  |
| C6 Naphthene    | 4.55  | 4.42  | 6.38  |
| C7 Naphthene    | 10.65 | 10.40 | 12.81 |
| C8 Naphthene    | 7.63  | 7.37  | 8.02  |
| C9 Naphthene    | 3.82  | 3.65  | 3.59  |
| C10 Naphthene   | 1.35  | 1.29  | 1.14  |
| C11 Naphthene   | 0.19  | 0.18  | 0.13  |
| C6 Aromatic     | 0.11  | 0.09  | 0.17  |
| C7 Aromatic     | 0.46  | 0.40  | 0.59  |
| C8 Aromatic     | 1.24  | 1.06  | 1.37  |
| C9 Aromatic     | 1.22  | 1.04  | 1.22  |
| C10 Aromatic    | 2.19  | 1.84  | 1.95  |

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Sample Number 123360-001

ASTM D-6733

Sample ID MPE-24 1210A44-001A

Page 8 of 8

Sampled on 10/18/2012 3:00:00 PM

WT %

LV %

MOL %

C11 Aromatic

1.86

1.58

1.48

C12 Aromatic

0.40

0.34

0.29

Mol WT of Sample, gm/mol

118.05

Density of Sample, gm/cc

0.7501

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Deer Park, TX 77536  
281-478-1300

HALL ENVIRONMENTAL ANALYSIS LAB INC  
Anne Thorne  
4901 HAWKINS NW, SUITE D  
ALBUQUERQUE, NM 87109-4372

Report Number : 57801-123360  
Date Reported: 11/1/2012  
Date Received: 10/24/2012

### Analytical Report

Sample No. 123360-002 Sample ID MPE-16

Date Sampled 10/18/2012 3:20:00 PM

1210A44-002A

| Test                | Result | Units        | Method      | Date       | Analyst |
|---------------------|--------|--------------|-------------|------------|---------|
| Kinematic Viscosity | 0.9099 | cSt @ 25C    | ASTM D-445  | 10/25/2012 | RM      |
| Specific Gravity    | 0.7437 | @60/60 Deg F | ASTM D-4052 | 10/25/2012 | SAK     |

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgement of Core Laboratories. Core Laboratories, however, makes no warrant or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operation or profitability of any oil, gas, or other mineral property, well or sand in conjunction with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the approval of Core Laboratories.



## CORE LABORATORIES

201 Deerwood Glen Dr  
Deer Park, TX 77536  
281-478-1300

HALL ENVIRONMENTAL ANALYSIS LAB INC

Anne Thorne

4901 HAWKINS NW, SUITE D

ALBUQUERQUE, NM 87109-4372

Report Number : 57801- 123360

Date Reported: 11/1/2012

Date Received: 10/24/2012

### Analytical Report

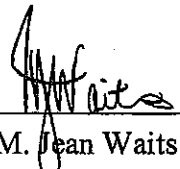
Sample No. 123360-003 Sample ID MW-12

Date Sampled 10/18/2012 5:10:00 PM

1210A44-003A

| Test                | Result | Units        | Method      | Date       | Analyst |
|---------------------|--------|--------------|-------------|------------|---------|
| Kinematic Viscosity | 1.313  | cSt @ 25C    | ASTM D-445  | 10/25/2012 | RM      |
| Specific Gravity    | 0.7435 | @60/60 Deg F | ASTM D-4052 | 10/25/2012 | SAK     |

Approved By: \_\_\_\_\_

  
M. Jean Waits

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgement of Core Laboratories. Core Laboratories, however, makes no warrant or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operation or profitability of any oil, gas, or other mineral property, well or sand in conjunction with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the approval of Core Laboratories.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: CYP Work Order Number: 1210A44

Received by/date: AG 10/23/12

Logged By: Anne Thorne 10/23/2012 11:00:00 AM

*Anne Thorne*

Completed By: Anne Thorne 10/23/2012

*Anne Thorne*

Reviewed By: IO 10/23/2012

### Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒  
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
3. How was the sample delivered? UPS

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. VOA vials have zero headspace? Yes ☐ No ☒ No VOA Vials ☐  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: \_\_\_\_\_  
( $<2$  or  $>12$  unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

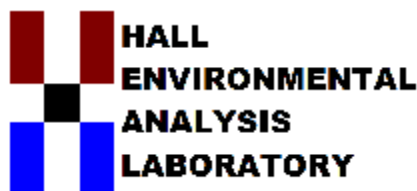
18. Additional remarks:

### 19. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.4                     | Good      | Yes         |         |           |           |



**LABORATORY REPORTS  
FOR GROUNDWATER SAMPLES**



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 04, 2012

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3420  
FAX (281) 859-1881

RE: Transwestern Pipeline Co Roswell Sta

OrderNo.: 1204784

Dear George Robinson:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/19/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued May 02, 2012.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1204784**

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-34

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012 11:05:00 AM

**Lab ID:** 1204784-001

**Matrix:** AQUEOUS

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                                     | Result | RL       | Qual | Units | DF | Date Analyzed        |
|----------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |          |      |       |    | Analyst: <b>BDH</b>  |
| Benzene                                      | 210    | 5.0      |      | µg/L  | 5  | 4/23/2012 7:56:23 PM |
| Toluene                                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 7:38:27 AM |
| Ethylbenzene                                 | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 7:38:27 AM |
| Xylenes, Total                               | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 7:38:27 AM |
| Surr: 1,2-Dichloroethane-d4                  | 76.3   | 70-130   |      | %REC  | 1  | 4/21/2012 7:38:27 AM |
| Surr: 4-Bromofluorobenzene                   | 82.2   | 70-130   |      | %REC  | 1  | 4/21/2012 7:38:27 AM |
| Surr: Dibromofluoromethane                   | 81.5   | 69.8-130 |      | %REC  | 1  | 4/21/2012 7:38:27 AM |
| Surr: Toluene-d8                             | 76.8   | 70-130   |      | %REC  | 1  | 4/21/2012 7:38:27 AM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1204784**

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-35

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012 12:20:00 PM

**Lab ID:** 1204784-002

**Matrix:** AQUEOUS

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                                     | Result | RL       | Qual | Units | DF | Date Analyzed        |
|----------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |          |      |       |    | Analyst: <b>BDH</b>  |
| Benzene                                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 8:34:08 AM |
| Toluene                                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 8:34:08 AM |
| Ethylbenzene                                 | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 8:34:08 AM |
| Xylenes, Total                               | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 8:34:08 AM |
| Surr: 1,2-Dichloroethane-d4                  | 78.6   | 70-130   |      | %REC  | 1  | 4/21/2012 8:34:08 AM |
| Surr: 4-Bromofluorobenzene                   | 82.8   | 70-130   |      | %REC  | 1  | 4/21/2012 8:34:08 AM |
| Surr: Dibromofluoromethane                   | 83.7   | 69.8-130 |      | %REC  | 1  | 4/21/2012 8:34:08 AM |
| Surr: Toluene-d8                             | 78.9   | 70-130   |      | %REC  | 1  | 4/21/2012 8:34:08 AM |

**Qualifiers:**

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1204784**

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-32

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012 12:55:00 PM

**Lab ID:** 1204784-003

**Matrix:** AQUEOUS

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                                     | Result | RL       | Qual | Units | DF | Date Analyzed        |
|----------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |          |      |       |    | Analyst: <b>BDH</b>  |
| Benzene                                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:02:02 AM |
| Toluene                                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:02:02 AM |
| Ethylbenzene                                 | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:02:02 AM |
| Xylenes, Total                               | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 9:02:02 AM |
| Surr: 1,2-Dichloroethane-d4                  | 80.8   | 70-130   |      | %REC  | 1  | 4/21/2012 9:02:02 AM |
| Surr: 4-Bromofluorobenzene                   | 83.4   | 70-130   |      | %REC  | 1  | 4/21/2012 9:02:02 AM |
| Surr: Dibromofluoromethane                   | 86.4   | 69.8-130 |      | %REC  | 1  | 4/21/2012 9:02:02 AM |
| Surr: Toluene-d8                             | 79.0   | 70-130   |      | %REC  | 1  | 4/21/2012 9:02:02 AM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1204784**

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-29

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012 1:15:00 PM

**Lab ID:** 1204784-004

**Matrix:** AQUEOUS

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                                     | Result | RL       | Qual | Units | DF | Date Analyzed        |
|----------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |          |      |       |    | Analyst: <b>BDH</b>  |
| Benzene                                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:29:55 AM |
| Toluene                                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:29:55 AM |
| Ethylbenzene                                 | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:29:55 AM |
| Xylenes, Total                               | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 9:29:55 AM |
| Surr: 1,2-Dichloroethane-d4                  | 82.5   | 70-130   |      | %REC  | 1  | 4/21/2012 9:29:55 AM |
| Surr: 4-Bromofluorobenzene                   | 82.2   | 70-130   |      | %REC  | 1  | 4/21/2012 9:29:55 AM |
| Surr: Dibromofluoromethane                   | 92.3   | 69.8-130 |      | %REC  | 1  | 4/21/2012 9:29:55 AM |
| Surr: Toluene-d8                             | 80.6   | 70-130   |      | %REC  | 1  | 4/21/2012 9:29:55 AM |

**Qualifiers:**

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1204784**

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-20

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012 2:20:00 PM

**Lab ID:** 1204784-005

**Matrix:** AQUEOUS

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|-----|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: <b>BDH</b>  |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,1-Dichloroethane                 | 6.4    | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,1-Dichloroethene                 | 8.6    | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |

**Qualifiers:**

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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1204784

Date Reported: 5/4/2012

CLIENT: Cypress Engineering

Client Sample ID: MW-20

Project: Transwestern Pipeline Co Roswell Sta

Collection Date: 4/18/2012 2:20:00 PM

Lab ID: 1204784-005

Matrix: AQUEOUS

Received Date: 4/19/2012 10:45:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |          |      |       |    | Analyst: BDH         |
| Isopropylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 4-Isopropyltoluene                 | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 4-Methyl-2-pentanone               | ND     | 10       |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Methylene Chloride                 | ND     | 3.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| n-Butylbenzene                     | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| n-Propylbenzene                    | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| sec-Butylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Styrene                            | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| tert-Butylbenzene                  | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Tetrachloroethene (PCE)            | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| trans-1,2-DCE                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| trans-1,3-Dichloropropene          | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,1,1-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,1,2-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Trichloroethene (TCE)              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Trichlorofluoromethane             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| 1,2,3-Trichloropropane             | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Vinyl chloride                     | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Xylenes, Total                     | ND     | 1.5      |      | µg/L  | 1  | 4/21/2012 9:57:32 AM |
| Surr: 1,2-Dichloroethane-d4        | 76.5   | 70-130   |      | %REC  | 1  | 4/21/2012 9:57:32 AM |
| Surr: 4-Bromofluorobenzene         | 80.7   | 70-130   |      | %REC  | 1  | 4/21/2012 9:57:32 AM |
| Surr: Dibromofluoromethane         | 85.2   | 69.8-130 |      | %REC  | 1  | 4/21/2012 9:57:32 AM |
| Surr: Toluene-d8                   | 80.2   | 70-130   |      | %REC  | 1  | 4/21/2012 9:57:32 AM |

**Qualifiers:** \*/X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1204784

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-22

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012 3:05:00 PM

**Lab ID:** 1204784-006

**Matrix:** AQUEOUS

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|-----|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: BDH          |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,1-Dichloroethane                 | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,1-Dichloroethene                 | 1.1    | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1204784

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-22

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012 3:05:00 PM

**Lab ID:** 1204784-006

**Matrix:** AQUEOUS

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |          |      |       |    | Analyst: BDH          |
| Isopropylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 4-Isopropyltoluene                 | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 4-Methyl-2-pentanone               | ND     | 10       |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Methylene Chloride                 | ND     | 3.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| n-Butylbenzene                     | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| n-Propylbenzene                    | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| sec-Butylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Styrene                            | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| tert-Butylbenzene                  | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Tetrachloroethene (PCE)            | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| trans-1,2-DCE                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| trans-1,3-Dichloropropene          | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,1,1-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,1,2-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Trichloroethene (TCE)              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Trichlorofluoromethane             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| 1,2,3-Trichloropropane             | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Vinyl chloride                     | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Xylenes, Total                     | ND     | 1.5      |      | µg/L  | 1  | 4/21/2012 10:25:09 AM |
| Surr: 1,2-Dichloroethane-d4        | 79.3   | 70-130   |      | %REC  | 1  | 4/21/2012 10:25:09 AM |
| Surr: 4-Bromofluorobenzene         | 83.0   | 70-130   |      | %REC  | 1  | 4/21/2012 10:25:09 AM |
| Surr: Dibromofluoromethane         | 85.0   | 69.8-130 |      | %REC  | 1  | 4/21/2012 10:25:09 AM |
| Surr: Toluene-d8                   | 79.9   | 70-130   |      | %REC  | 1  | 4/21/2012 10:25:09 AM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1204784**

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-26

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012 3:55:00 PM

**Lab ID:** 1204784-007

**Matrix:** AQUEOUS

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|-----|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: <b>BDH</b>   |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,1-Dichloroethane                 | 6.7    | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,1-Dichloroethene                 | 53     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1204784

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-26

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012 3:55:00 PM

**Lab ID:** 1204784-007

**Matrix:** AQUEOUS

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |          |      |       |    | Analyst: BDH          |
| Isopropylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 4-Isopropyltoluene                 | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 4-Methyl-2-pentanone               | ND     | 10       |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Methylene Chloride                 | ND     | 3.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| n-Butylbenzene                     | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| n-Propylbenzene                    | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| sec-Butylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Styrene                            | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| tert-Butylbenzene                  | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Tetrachloroethene (PCE)            | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| trans-1,2-DCE                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| trans-1,3-Dichloropropene          | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,1,1-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,1,2-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Trichloroethene (TCE)              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Trichlorofluoromethane             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| 1,2,3-Trichloropropane             | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Vinyl chloride                     | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Xylenes, Total                     | ND     | 1.5      |      | µg/L  | 1  | 4/21/2012 10:53:02 AM |
| Surr: 1,2-Dichloroethane-d4        | 76.4   | 70-130   |      | %REC  | 1  | 4/21/2012 10:53:02 AM |
| Surr: 4-Bromofluorobenzene         | 76.5   | 70-130   |      | %REC  | 1  | 4/21/2012 10:53:02 AM |
| Surr: Dibromofluoromethane         | 84.1   | 69.8-130 |      | %REC  | 1  | 4/21/2012 10:53:02 AM |
| Surr: Toluene-d8                   | 77.5   | 70-130   |      | %REC  | 1  | 4/21/2012 10:53:02 AM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1204784

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-53

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012 4:40:00 PM

**Lab ID:** 1204784-008

**Matrix:** AQUEOUS

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|-----|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: BDH          |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,1-Dichloroethane                 | 6.9    | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,1-Dichloroethene                 | 55     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1204784

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-53

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012 4:40:00 PM

**Lab ID:** 1204784-008

**Matrix:** AQUEOUS

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |          |      |       |    | Analyst: BDH          |
| Isopropylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 4-Isopropyltoluene                 | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 4-Methyl-2-pentanone               | ND     | 10       |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Methylene Chloride                 | ND     | 3.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| n-Butylbenzene                     | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| n-Propylbenzene                    | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| sec-Butylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Styrene                            | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| tert-Butylbenzene                  | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| trans-1,2-DCE                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Trichloroethene (TCE)              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Trichlorofluoromethane             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Vinyl chloride                     | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Xylenes, Total                     | ND     | 1.5      |      | µg/L  | 1  | 4/21/2012 12:20:15 PM |
| Surr: 1,2-Dichloroethane-d4        | 79.7   | 70-130   |      | %REC  | 1  | 4/21/2012 12:20:15 PM |
| Surr: 4-Bromofluorobenzene         | 79.9   | 70-130   |      | %REC  | 1  | 4/21/2012 12:20:15 PM |
| Surr: Dibromofluoromethane         | 89.3   | 69.8-130 |      | %REC  | 1  | 4/21/2012 12:20:15 PM |
| Surr: Toluene-d8                   | 83.3   | 70-130   |      | %REC  | 1  | 4/21/2012 12:20:15 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1204784

Date Reported: 5/4/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** TRIP BLANK

**Project:** Transwestern Pipeline Co Roswell Sta

**Collection Date:** 4/18/2012

**Lab ID:** 1204784-009

**Matrix:** TRIP BLANK

**Received Date:** 4/19/2012 10:45:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|-----|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: BDH          |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,1-Dichloroethane                 | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,1-Dichloroethene                 | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1204784

Date Reported: 5/4/2012

CLIENT: Cypress Engineering

Client Sample ID: TRIP BLANK

Project: Transwestern Pipeline Co Roswell Sta

Collection Date: 4/18/2012

Lab ID: 1204784-009

Matrix: TRIP BLANK

Received Date: 4/19/2012 10:45:00 AM

| Analyses                           | Result | RL       | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |          |      |       |    | Analyst: BDH          |
| Isopropylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 4-Isopropyltoluene                 | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 4-Methyl-2-pentanone               | ND     | 10       |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Methylene Chloride                 | ND     | 3.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| n-Butylbenzene                     | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| n-Propylbenzene                    | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| sec-Butylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Styrene                            | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| tert-Butylbenzene                  | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| trans-1,2-DCE                      | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Trichloroethene (TCE)              | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Trichlorofluoromethane             | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Vinyl chloride                     | ND     | 1.0      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Xylenes, Total                     | ND     | 1.5      |      | µg/L  | 1  | 4/21/2012 12:47:47 PM |
| Surr: 1,2-Dichloroethane-d4        | 81.9   | 70-130   |      | %REC  | 1  | 4/21/2012 12:47:47 PM |
| Surr: 4-Bromofluorobenzene         | 82.2   | 70-130   |      | %REC  | 1  | 4/21/2012 12:47:47 PM |
| Surr: Dibromofluoromethane         | 86.2   | 69.8-130 |      | %REC  | 1  | 4/21/2012 12:47:47 PM |
| Surr: Toluene-d8                   | 77.5   | 70-130   |      | %REC  | 1  | 4/21/2012 12:47:47 PM |

**Qualifiers:** \* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1204784

04-May-12

Client: Cypress Engineering

Project: Transwestern Pipeline Co Roswell Sta

|                                |                                 |     |           |                                                        |      |                    |           |      |          |      |
|--------------------------------|---------------------------------|-----|-----------|--------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>b13</b>           | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |      |                    |           |      |          |      |
| Client ID: <b>PBW</b>          | Batch ID: <b>R2296</b>          |     |           | RunNo: <b>2296</b>                                     |      |                    |           |      |          |      |
| Prep Date:                     | Analysis Date: <b>4/21/2012</b> |     |           | SeqNo: <b>63657</b>                                    |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                        | Result                          | PQL | SPK value | SPK Ref Val                                            | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND                              | 1.0 |           |                                                        |      |                    |           |      |          |      |
| Toluene                        | ND                              | 1.0 |           |                                                        |      |                    |           |      |          |      |
| Ethylbenzene                   | ND                              | 1.0 |           |                                                        |      |                    |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND                              | 1.0 |           |                                                        |      |                    |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND                              | 1.0 |           |                                                        |      |                    |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND                              | 1.0 |           |                                                        |      |                    |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND                              | 1.0 |           |                                                        |      |                    |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND                              | 1.0 |           |                                                        |      |                    |           |      |          |      |
| Naphthalene                    | ND                              | 2.0 |           |                                                        |      |                    |           |      |          |      |
| 1-Methylnaphthalene            | ND                              | 4.0 |           |                                                        |      |                    |           |      |          |      |
| 2-Methylnaphthalene            | ND                              | 4.0 |           |                                                        |      |                    |           |      |          |      |
| Xylenes, Total                 | ND                              | 2.0 |           |                                                        |      |                    |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4    | 16                              |     | 20.00     |                                                        | 78.0 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene     | 16                              |     | 20.00     |                                                        | 81.0 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane     | 17                              |     | 20.00     |                                                        | 86.5 | 69.8               | 130       |      |          |      |
| Surr: Toluene-d8               | 16                              |     | 20.00     |                                                        | 79.1 | 70                 | 130       |      |          |      |

|                             |                                 |     |           |                                                        |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|--------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>100ng lcsb</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSW</b>      | Batch ID: <b>R2296</b>          |     |           | RunNo: <b>2296</b>                                     |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>4/21/2012</b> |     |           | SeqNo: <b>63658</b>                                    |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                            | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 25                              | 1.0 | 20.00     | 0                                                      | 126  | 84.1               | 126       |      |          |      |
| Toluene                     | 23                              | 1.0 | 20.00     | 0                                                      | 117  | 80                 | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 18                              |     | 20.00     |                                                        | 88.5 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 16                              |     | 20.00     |                                                        | 80.5 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 20                              |     | 20.00     |                                                        | 98.7 | 69.8               | 130       |      |          |      |
| Surr: Toluene-d8            | 16                              |     | 20.00     |                                                        | 78.2 | 70                 | 130       |      |          |      |

|                                 |                                 |     |           |                                                        |      |                    |           |      |          |      |
|---------------------------------|---------------------------------|-----|-----------|--------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>1204784-001ams</b> | SampType: <b>MS</b>             |     |           | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |      |                    |           |      |          |      |
| Client ID: <b>MW-34</b>         | Batch ID: <b>R2296</b>          |     |           | RunNo: <b>2296</b>                                     |      |                    |           |      |          |      |
| Prep Date:                      | Analysis Date: <b>4/21/2012</b> |     |           | SeqNo: <b>63660</b>                                    |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                         | Result                          | PQL | SPK value | SPK Ref Val                                            | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Toluene                         | 23                              | 1.0 | 20.00     | 0                                                      | 117  | 74                 | 121       |      |          |      |
| Surr: 1,2-Dichloroethane-d4     | 15                              |     | 20.00     |                                                        | 75.6 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 16                              |     | 20.00     |                                                        | 80.8 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane      | 18                              |     | 20.00     |                                                        | 89.4 | 69.8               | 130       |      |          |      |
| Surr: Toluene-d8                | 16                              |     | 20.00     |                                                        | 78.9 | 70                 | 130       |      |          |      |

### Qualifiers:

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R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1204784

04-May-12

Client: Cypress Engineering

Project: Transwestern Pipeline Co Roswell Sta

|                             |        |                |           |             |                                       |          |           |      |          |      |
|-----------------------------|--------|----------------|-----------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 5mL rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                  | PBW    | Batch ID:      | R2323     | RunNo:      | 2323                                  |          |           |      |          |      |
| Prep Date:                  |        | Analysis Date: | 4/23/2012 | SeqNo:      | 64662                                 | Units:   | µg/L      |      |          |      |
| Analyte                     | Result | PQL            | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 17     |                | 20.00     |             | 87.4                                  | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 18     |                | 20.00     |             | 89.0                                  | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 19     |                | 20.00     |             | 97.2                                  | 69.8     | 130       |      |          |      |
| Surr: Toluene-d8            | 16     |                | 20.00     |             | 82.0                                  | 70       | 130       |      |          |      |

|                             |             |                |           |             |                                       |          |           |      |          |      |
|-----------------------------|-------------|----------------|-----------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 100ng lcs_c | SampType:      | LCS       | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                  | LCSW        | Batch ID:      | R2323     | RunNo:      | 2323                                  |          |           |      |          |      |
| Prep Date:                  |             | Analysis Date: | 4/23/2012 | SeqNo:      | 64663                                 | Units:   | µg/L      |      |          |      |
| Analyte                     | Result      | PQL            | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 24          | 1.0            | 20.00     | 0           | 118                                   | 84.1     | 126       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 17          |                | 20.00     |             | 86.6                                  | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 16          |                | 20.00     |             | 82.4                                  | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 21          |                | 20.00     |             | 107                                   | 69.8     | 130       |      |          |      |
| Surr: Toluene-d8            | 17          |                | 20.00     |             | 83.6                                  | 70       | 130       |      |          |      |

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1204784

04-May-12

Client: Cypress Engineering

Project: Transwestern Pipeline Co Roswell Sta

| Sample ID <b>b13</b>           | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|--------------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>          | Batch ID: <b>R2296</b>          |     |           | RunNo: <b>2296</b>                           |      |                    |           |      |          |      |
| Prep Date:                     | Analysis Date: <b>4/21/2012</b> |     |           | SeqNo: <b>63672</b>                          |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                        | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Toluene                        | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Ethylbenzene                   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Naphthalene                    | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| 1-Methylnaphthalene            | ND                              | 4.0 |           |                                              |      |                    |           |      |          |      |
| 2-Methylnaphthalene            | ND                              | 4.0 |           |                                              |      |                    |           |      |          |      |
| Acetone                        | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Bromobenzene                   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Bromodichloromethane           | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Bromoform                      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Bromomethane                   | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| 2-Butanone                     | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Carbon disulfide               | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Carbon Tetrachloride           | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Chlorobenzene                  | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Chloroethane                   | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Chloroform                     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Chloromethane                  | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| 2-Chlorotoluene                | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Chlorotoluene                | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| cis-1,2-DCE                    | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| cis-1,3-Dichloropropene        | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Dibromochloromethane           | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Dibromomethane                 | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dichlorobenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,3-Dichlorobenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,4-Dichlorobenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Dichlorodifluoromethane        | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1-Dichloroethane             | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1-Dichloroethene             | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2-Dichloropropane            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,3-Dichloropropane            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 2,2-Dichloropropane            | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| 1,1-Dichloropropene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Hexachlorobutadiene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |

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ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1204784

04-May-12

**Client:** Cypress Engineering  
**Project:** Transwestern Pipeline Co Roswell Sta

| Sample ID <b>b13</b>        | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBW</b>       | Batch ID: <b>R2296</b>          |     |           | RunNo: <b>2296</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>4/21/2012</b> |     |           | SeqNo: <b>63672</b>                          |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| 2-Hexanone                  | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Isopropylbenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Isopropyltoluene          | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 4-Methyl-2-pentanone        | ND                              | 10  |           |                                              |      |                    |           |      |          |      |
| Methylene Chloride          | ND                              | 3.0 |           |                                              |      |                    |           |      |          |      |
| n-Butylbenzene              | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| n-Propylbenzene             | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| sec-Butylbenzene            | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Styrene                     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| tert-Butylbenzene           | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Tetrachloroethene (PCE)     | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,2-DCE               | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| trans-1,3-Dichloropropene   | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,1-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,1,2-Trichloroethane       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichloroethene (TCE)       | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Trichlorofluoromethane      | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| 1,2,3-Trichloropropane      | ND                              | 2.0 |           |                                              |      |                    |           |      |          |      |
| Vinyl chloride              | ND                              | 1.0 |           |                                              |      |                    |           |      |          |      |
| Xylenes, Total              | ND                              | 1.5 |           |                                              |      |                    |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 16                              |     | 20.00     |                                              | 78.0 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 16                              |     | 20.00     |                                              | 81.0 | 70                 | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 17                              |     | 20.00     |                                              | 86.5 | 69.8               | 130       |      |          |      |
| Surr: Toluene-d8            | 16                              |     | 20.00     |                                              | 79.1 | 70                 | 130       |      |          |      |

| Sample ID <b>100ng lcsb</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8260B: VOLATILES</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|----------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>R2296</b>          |     |           | RunNo: <b>2296</b>                           |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>4/21/2012</b> |     |           | SeqNo: <b>63673</b>                          |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 25                              | 1.0 | 20.00     | 0                                            | 126  | 84.1               | 126       |      |          |      |
| Toluene                     | 23                              | 1.0 | 20.00     | 0                                            | 117  | 80                 | 120       |      |          |      |
| Chlorobenzene               | 22                              | 1.0 | 20.00     | 0                                            | 112  | 70                 | 130       |      |          |      |
| 1,1-Dichloroethene          | 25                              | 1.0 | 20.00     | 0                                            | 123  | 83                 | 130       |      |          |      |
| Trichloroethene (TCE)       | 24                              | 1.0 | 20.00     | 0                                            | 122  | 76.2               | 119       |      |          | S    |
| Surr: 1,2-Dichloroethane-d4 | 18                              |     | 20.00     |                                              | 88.5 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 16                              |     | 20.00     |                                              | 80.5 | 70                 | 130       |      |          |      |

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1204784

04-May-12

Client: Cypress Engineering

Project: Transwestern Pipeline Co Roswell Sta

|                            |            |                          |           |             |                                       |          |             |      |          |      |
|----------------------------|------------|--------------------------|-----------|-------------|---------------------------------------|----------|-------------|------|----------|------|
| Sample ID                  | 100ng lcsb | SampType: LCS            |           |             | TestCode: EPA Method 8260B: VOLATILES |          |             |      |          |      |
| Client ID:                 | LCSW       | Batch ID: R2296          |           |             | RunNo: 2296                           |          |             |      |          |      |
| Prep Date:                 |            | Analysis Date: 4/21/2012 |           |             | SeqNo: 63673                          |          | Units: µg/L |      |          |      |
| Analyte                    | Result     | PQL                      | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: Dibromofluoromethane | 20         |                          | 20.00     |             | 98.7                                  | 69.8     | 130         |      |          |      |
| Surr: Toluene-d8           | 16         |                          | 20.00     |             | 78.2                                  | 70       | 130         |      |          |      |

|                             |        |                          |           |             |                                       |          |             |      |          |      |
|-----------------------------|--------|--------------------------|-----------|-------------|---------------------------------------|----------|-------------|------|----------|------|
| Sample ID                   | 5mL rb | SampType: MBLK           |           |             | TestCode: EPA Method 8260B: VOLATILES |          |             |      |          |      |
| Client ID:                  | PBW    | Batch ID: R2323          |           |             | RunNo: 2323                           |          |             |      |          |      |
| Prep Date:                  |        | Analysis Date: 4/23/2012 |           |             | SeqNo: 64641                          |          | Units: µg/L |      |          |      |
| Analyte                     | Result | PQL                      | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Benzene                     | ND     | 1.0                      |           |             |                                       |          |             |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 17     |                          | 20.00     |             | 87.4                                  | 70       | 130         |      |          |      |
| Surr: 4-Bromofluorobenzene  | 18     |                          | 20.00     |             | 89.0                                  | 70       | 130         |      |          |      |
| Surr: Dibromofluoromethane  | 19     |                          | 20.00     |             | 97.2                                  | 69.8     | 130         |      |          |      |
| Surr: Toluene-d8            | 16     |                          | 20.00     |             | 82.0                                  | 70       | 130         |      |          |      |

|                             |             |                          |           |             |                                       |          |             |      |          |      |
|-----------------------------|-------------|--------------------------|-----------|-------------|---------------------------------------|----------|-------------|------|----------|------|
| Sample ID                   | 100ng lcs_c | SampType: LCS            |           |             | TestCode: EPA Method 8260B: VOLATILES |          |             |      |          |      |
| Client ID:                  | LCSW        | Batch ID: R2323          |           |             | RunNo: 2323                           |          |             |      |          |      |
| Prep Date:                  |             | Analysis Date: 4/23/2012 |           |             | SeqNo: 64643                          |          | Units: µg/L |      |          |      |
| Analyte                     | Result      | PQL                      | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Benzene                     | 24          | 1.0                      | 20.00     | 0           | 118                                   | 84.1     | 126         |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 17          |                          | 20.00     |             | 86.6                                  | 70       | 130         |      |          |      |
| Surr: 4-Bromofluorobenzene  | 16          |                          | 20.00     |             | 82.4                                  | 70       | 130         |      |          |      |
| Surr: Dibromofluoromethane  | 21          |                          | 20.00     |             | 107                                   | 69.8     | 130         |      |          |      |
| Surr: Toluene-d8            | 17          |                          | 20.00     |             | 83.6                                  | 70       | 130         |      |          |      |

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RL Reporting Detection Limit

## Sample Log-In Check List

Client Name: CYP

Work Order Number: 1204784

Received by/date:

*mg*

04/19/12

Logged By: Ashley Gallegos

4/19/2012 10:45:00 AM

*Ag*

Completed By: Ashley Gallegos

4/19/2012 12:03:41 PM

*Ag*

Reviewed By:

*[Signature]*

04/19/12

### Chain of Custody

1. Were seals intact? Yes No Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No Not Present
3. How was the sample delivered? UPS

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No NA
5. Was an attempt made to cool the samples? Yes ☒ No NA
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$  Yes ☒ No NA
7. Sample(s) in proper container(s)? Yes ☒ No
8. Sufficient sample volume for indicated test(s)? Yes ☒ No
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No
10. Was preservative added to bottles? Yes No ☒ NA
11. VOA vials have zero headspace? Yes No No VOA Vials ☒
12. Were any sample containers received broken? Yes No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No # of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No (<2 or >12 unless noted)
15. Is it clear what analyses were requested? Yes ☒ No Adjusted?
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No Checked by:

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA ☒

Person Notified:

Date:

By Whom:

Via:

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

18. Additional remarks:

### 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.0     | Good      | Yes         |         |           |           |

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

Project Manager: George Robinson

Sampler: SANDY SHARP

On Ice: ☒ Yes ☐ No

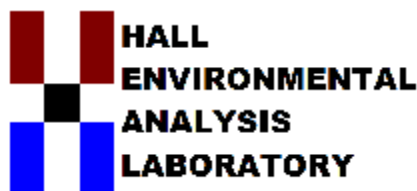
Sample Temperature: 1.0

| Container Type and # | Preservative Type | HEAL No. |
|----------------------|-------------------|----------|
|                      |                   | 1201     |
|                      |                   | 1202     |
|                      |                   | 1203     |
|                      |                   | 1204     |
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|                      |                   | 1253     |
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|                      |                   | 1255     |
|                      |                   | 1256     |
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|                      |                   | 1299     |
|                      |                   | 1300     |

| 18/12 | 1/05 | H <sub>2</sub> O | MW-34      | 3/40 ml | HgCl <sub>2</sub> | -001 |
|-------|------|------------------|------------|---------|-------------------|------|
|       | 1220 |                  | MW-35      |         |                   | -002 |
|       | 1255 |                  | MW-32      |         |                   | -003 |
|       | 1315 |                  | MW-29      |         |                   | -004 |
|       | 1420 |                  | MW-20      |         |                   | -005 |
|       | 1505 |                  | MW-22      |         |                   | -006 |
|       | 1555 |                  | MW-26      |         |                   | -007 |
|       | 1640 |                  | MW-53      |         |                   | -008 |
|       |      |                  | TRIP BLANK | 2/40 ml |                   | -009 |

|       |       |                                                                                       |                                                                                       |          |       |          |
|-------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|-------|----------|
| Date: | Time: | Relinquished by:                                                                      | Received by:                                                                          | Date:    | Time: | Remarks: |
| 18/12 | 1700  |  |  | 04/19/12 | 1045  |          |
| Date: | Time: | Relinquished by:                                                                      | Received by:                                                                          | Date:    | Time: |          |

if necessary, samples submitted to Hal Environmental may be subcontracted to other accredited laboratories. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

November 06, 2012

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3420  
FAX (281) 859-1881

RE: Transwestern Pipeline Co. Roswell

OrderNo.: 1210A54

Dear George Robinson:

Hall Environmental Analysis Laboratory received 21 sample(s) on 10/23/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-12

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/21/2012 10:10:00 AM

**Lab ID:** 1210A54-001

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF  | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |     | Analyst: DJF          |
| Benzene                                      | 2300   | 100    |      | µg/L  | 100 | 10/29/2012 2:06:21 PM |
| Toluene                                      | 3800   | 100    |      | µg/L  | 100 | 10/29/2012 2:06:21 PM |
| Ethylbenzene                                 | 300    | 100    |      | µg/L  | 100 | 10/29/2012 2:06:21 PM |
| Xylenes, Total                               | 2900   | 200    |      | µg/L  | 100 | 10/29/2012 2:06:21 PM |
| Surr: 1,2-Dichloroethane-d4                  | 104    | 70-130 |      | %REC  | 100 | 10/29/2012 2:06:21 PM |
| Surr: 4-Bromofluorobenzene                   | 92.7   | 70-130 |      | %REC  | 100 | 10/29/2012 2:06:21 PM |
| Surr: Dibromofluoromethane                   | 102    | 70-130 |      | %REC  | 100 | 10/29/2012 2:06:21 PM |
| Surr: Toluene-d8                             | 97.4   | 70-130 |      | %REC  | 100 | 10/29/2012 2:06:21 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-12 DUP

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/21/2012 10:10:00 AM

**Lab ID:** 1210A54-002

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF  | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |     | Analyst: DJF          |
| Benzene                                      | 2400   | 100    |      | µg/L  | 100 | 10/29/2012 3:07:54 PM |
| Toluene                                      | 3300   | 100    |      | µg/L  | 100 | 10/29/2012 3:07:54 PM |
| Ethylbenzene                                 | 310    | 100    |      | µg/L  | 100 | 10/29/2012 3:07:54 PM |
| Xylenes, Total                               | 2900   | 200    |      | µg/L  | 100 | 10/29/2012 3:07:54 PM |
| Surr: 1,2-Dichloroethane-d4                  | 93.5   | 70-130 |      | %REC  | 100 | 10/29/2012 3:07:54 PM |
| Surr: 4-Bromofluorobenzene                   | 93.5   | 70-130 |      | %REC  | 100 | 10/29/2012 3:07:54 PM |
| Surr: Dibromofluoromethane                   | 90.8   | 70-130 |      | %REC  | 100 | 10/29/2012 3:07:54 PM |
| Surr: Toluene-d8                             | 88.3   | 70-130 |      | %REC  | 100 | 10/29/2012 3:07:54 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-16

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 5:40:00 PM

**Lab ID:** 1210A54-003

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF  | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |     | Analyst: DJF          |
| Benzene                                      | 2700   | 100    |      | µg/L  | 100 | 10/29/2012 2:37:07 PM |
| Toluene                                      | 1000   | 100    |      | µg/L  | 100 | 10/29/2012 2:37:07 PM |
| Ethylbenzene                                 | 180    | 100    |      | µg/L  | 100 | 10/29/2012 2:37:07 PM |
| Xylenes, Total                               | 2900   | 200    |      | µg/L  | 100 | 10/29/2012 2:37:07 PM |
| Surr: 1,2-Dichloroethane-d4                  | 113    | 70-130 |      | %REC  | 100 | 10/29/2012 2:37:07 PM |
| Surr: 4-Bromofluorobenzene                   | 99.8   | 70-130 |      | %REC  | 100 | 10/29/2012 2:37:07 PM |
| Surr: Dibromofluoromethane                   | 101    | 70-130 |      | %REC  | 100 | 10/29/2012 2:37:07 PM |
| Surr: Toluene-d8                             | 97.9   | 70-130 |      | %REC  | 100 | 10/29/2012 2:37:07 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-24

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 10:30:00 AM

**Lab ID:** 1210A54-004

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF  | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |     | Analyst: DJF          |
| Benzene                                      | 3000   | 100    |      | µg/L  | 100 | 10/29/2012 3:38:39 PM |
| Toluene                                      | 2700   | 100    |      | µg/L  | 100 | 10/29/2012 3:38:39 PM |
| Ethylbenzene                                 | 220    | 100    |      | µg/L  | 100 | 10/29/2012 3:38:39 PM |
| Xylenes, Total                               | 2500   | 200    |      | µg/L  | 100 | 10/29/2012 3:38:39 PM |
| Surr: 1,2-Dichloroethane-d4                  | 110    | 70-130 |      | %REC  | 100 | 10/29/2012 3:38:39 PM |
| Surr: 4-Bromofluorobenzene                   | 97.3   | 70-130 |      | %REC  | 100 | 10/29/2012 3:38:39 PM |
| Surr: Dibromofluoromethane                   | 101    | 70-130 |      | %REC  | 100 | 10/29/2012 3:38:39 PM |
| Surr: Toluene-d8                             | 94.9   | 70-130 |      | %REC  | 100 | 10/29/2012 3:38:39 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-20

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 12:15:00 PM

**Lab ID:** 1210A54-005

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|-----|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: DJF          |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,1-Dichloroethane                 | 2.9    | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,1-Dichloroethene                 | 8.1    | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-20

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 12:15:00 PM

**Lab ID:** 1210A54-005

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: DJF          |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 10/29/2012 5:41:38 PM |
| Surr: 1,2-Dichloroethane-d4        | 110    | 70-130 |      | %REC  | 1  | 10/29/2012 5:41:38 PM |
| Surr: 4-Bromofluorobenzene         | 95.8   | 70-130 |      | %REC  | 1  | 10/29/2012 5:41:38 PM |
| Surr: Dibromofluoromethane         | 104    | 70-130 |      | %REC  | 1  | 10/29/2012 5:41:38 PM |
| Surr: Toluene-d8                   | 82.1   | 70-130 |      | %REC  | 1  | 10/29/2012 5:41:38 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-26

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 11:25:00 AM

**Lab ID:** 1210A54-006

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|-----|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: DJF          |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,1-Dichloroethane                 | 5.6    | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,1-Dichloroethene                 | 54     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-26

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 11:25:00 AM

**Lab ID:** 1210A54-006

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: DJF          |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 10/29/2012 6:12:19 PM |
| Surr: 1,2-Dichloroethane-d4        | 87.2   | 70-130 |      | %REC  | 1  | 10/29/2012 6:12:19 PM |
| Surr: 4-Bromofluorobenzene         | 92.6   | 70-130 |      | %REC  | 1  | 10/29/2012 6:12:19 PM |
| Surr: Dibromofluoromethane         | 80.6   | 70-130 |      | %REC  | 1  | 10/29/2012 6:12:19 PM |
| Surr: Toluene-d8                   | 94.1   | 70-130 |      | %REC  | 1  | 10/29/2012 6:12:19 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-26 DUP

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 11:25:00 AM

**Lab ID:** 1210A54-007

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|-----|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: DJF          |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,1-Dichloroethane                 | 6.6    | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,1-Dichloroethene                 | 62     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-26 DUP

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 11:25:00 AM

**Lab ID:** 1210A54-007

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: DJF          |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 10/29/2012 6:43:01 PM |
| Surr: 1,2-Dichloroethane-d4        | 96.5   | 70-130 |      | %REC  | 1  | 10/29/2012 6:43:01 PM |
| Surr: 4-Bromofluorobenzene         | 96.9   | 70-130 |      | %REC  | 1  | 10/29/2012 6:43:01 PM |
| Surr: Dibromofluoromethane         | 93.1   | 70-130 |      | %REC  | 1  | 10/29/2012 6:43:01 PM |
| Surr: Toluene-d8                   | 94.9   | 70-130 |      | %REC  | 1  | 10/29/2012 6:43:01 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-22

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/21/2012 12:50:00 PM

**Lab ID:** 1210A54-008

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|-----|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: DJF          |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,1-Dichloroethane                 | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,1-Dichloroethene                 | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-22

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/21/2012 12:50:00 PM

**Lab ID:** 1210A54-008

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: DJF          |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 10/29/2012 7:13:46 PM |
| Surr: 1,2-Dichloroethane-d4        | 91.1   | 70-130 |      | %REC  | 1  | 10/29/2012 7:13:46 PM |
| Surr: 4-Bromofluorobenzene         | 83.3   | 70-130 |      | %REC  | 1  | 10/29/2012 7:13:46 PM |
| Surr: Dibromofluoromethane         | 82.3   | 70-130 |      | %REC  | 1  | 10/29/2012 7:13:46 PM |
| Surr: Toluene-d8                   | 84.1   | 70-130 |      | %REC  | 1  | 10/29/2012 7:13:46 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-14

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 6:00:00 PM

**Lab ID:** 1210A54-009

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF          |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 8:15:16 PM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 8:15:16 PM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 8:15:16 PM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 8:15:16 PM |
| Surr: 1,2-Dichloroethane-d4                  | 95.1   | 70-130 |      | %REC  | 1  | 10/29/2012 8:15:16 PM |
| Surr: 4-Bromofluorobenzene                   | 92.9   | 70-130 |      | %REC  | 1  | 10/29/2012 8:15:16 PM |
| Surr: Dibromofluoromethane                   | 92.7   | 70-130 |      | %REC  | 1  | 10/29/2012 8:15:16 PM |
| Surr: Toluene-d8                             | 87.0   | 70-130 |      | %REC  | 1  | 10/29/2012 8:15:16 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-13

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 6:20:00 PM

**Lab ID:** 1210A54-010

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF          |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 8:46:00 PM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 8:46:00 PM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 8:46:00 PM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 8:46:00 PM |
| Surr: 1,2-Dichloroethane-d4                  | 104    | 70-130 |      | %REC  | 1  | 10/29/2012 8:46:00 PM |
| Surr: 4-Bromofluorobenzene                   | 94.2   | 70-130 |      | %REC  | 1  | 10/29/2012 8:46:00 PM |
| Surr: Dibromofluoromethane                   | 99.9   | 70-130 |      | %REC  | 1  | 10/29/2012 8:46:00 PM |
| Surr: Toluene-d8                             | 86.3   | 70-130 |      | %REC  | 1  | 10/29/2012 8:46:00 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-29

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 2:40:00 PM

**Lab ID:** 1210A54-011

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed          |
|----------------------------------------------|--------|--------|------|-------|----|------------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF           |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 11:19:23 PM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 11:19:23 PM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 11:19:23 PM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 11:19:23 PM |
| Surr: 1,2-Dichloroethane-d4                  | 112    | 70-130 |      | %REC  | 1  | 10/29/2012 11:19:23 PM |
| Surr: 4-Bromofluorobenzene                   | 109    | 70-130 |      | %REC  | 1  | 10/29/2012 11:19:23 PM |
| Surr: Dibromofluoromethane                   | 85.8   | 70-130 |      | %REC  | 1  | 10/29/2012 11:19:23 PM |
| Surr: Toluene-d8                             | 97.5   | 70-130 |      | %REC  | 1  | 10/29/2012 11:19:23 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-35

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/21/2012 12:25:00 PM

**Lab ID:** 1210A54-012

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed          |
|----------------------------------------------|--------|--------|------|-------|----|------------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF           |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 11:50:07 PM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 11:50:07 PM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 10/29/2012 11:50:07 PM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 10/29/2012 11:50:07 PM |
| Surr: 1,2-Dichloroethane-d4                  | 109    | 70-130 |      | %REC  | 1  | 10/29/2012 11:50:07 PM |
| Surr: 4-Bromofluorobenzene                   | 84.4   | 70-130 |      | %REC  | 1  | 10/29/2012 11:50:07 PM |
| Surr: Dibromofluoromethane                   | 107    | 70-130 |      | %REC  | 1  | 10/29/2012 11:50:07 PM |
| Surr: Toluene-d8                             | 95.5   | 70-130 |      | %REC  | 1  | 10/29/2012 11:50:07 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-32

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 3:15:00 PM

**Lab ID:** 1210A54-013

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed          |
|----------------------------------------------|--------|--------|------|-------|----|------------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF           |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 12:20:50 AM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 12:20:50 AM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 12:20:50 AM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 10/30/2012 12:20:50 AM |
| Surr: 1,2-Dichloroethane-d4                  | 104    | 70-130 |      | %REC  | 1  | 10/30/2012 12:20:50 AM |
| Surr: 4-Bromofluorobenzene                   | 106    | 70-130 |      | %REC  | 1  | 10/30/2012 12:20:50 AM |
| Surr: Dibromofluoromethane                   | 88.6   | 70-130 |      | %REC  | 1  | 10/30/2012 12:20:50 AM |
| Surr: Toluene-d8                             | 94.3   | 70-130 |      | %REC  | 1  | 10/30/2012 12:20:50 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-34

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 3:55:00 PM

**Lab ID:** 1210A54-014

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed          |
|----------------------------------------------|--------|--------|------|-------|----|------------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF           |
| Benzene                                      | 140    | 10     |      | µg/L  | 10 | 10/30/2012 12:07:24 PM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 12:51:33 AM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 12:51:33 AM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 10/30/2012 12:51:33 AM |
| Surr: 1,2-Dichloroethane-d4                  | 106    | 70-130 |      | %REC  | 1  | 10/30/2012 12:51:33 AM |
| Surr: 4-Bromofluorobenzene                   | 96.9   | 70-130 |      | %REC  | 1  | 10/30/2012 12:51:33 AM |
| Surr: Dibromofluoromethane                   | 94.5   | 70-130 |      | %REC  | 1  | 10/30/2012 12:51:33 AM |
| Surr: Toluene-d8                             | 84.0   | 70-130 |      | %REC  | 1  | 10/30/2012 12:51:33 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-34 DUP

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/19/2012 3:55:00 PM

**Lab ID:** 1210A54-015

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed          |
|----------------------------------------------|--------|--------|------|-------|----|------------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF           |
| Benzene                                      | 120    | 10     |      | µg/L  | 10 | 10/30/2012 12:38:09 PM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 1:22:14 AM  |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 1:22:14 AM  |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 10/30/2012 1:22:14 AM  |
| Surr: 1,2-Dichloroethane-d4                  | 107    | 70-130 |      | %REC  | 1  | 10/30/2012 1:22:14 AM  |
| Surr: 4-Bromofluorobenzene                   | 93.2   | 70-130 |      | %REC  | 1  | 10/30/2012 1:22:14 AM  |
| Surr: Dibromofluoromethane                   | 96.6   | 70-130 |      | %REC  | 1  | 10/30/2012 1:22:14 AM  |
| Surr: Toluene-d8                             | 106    | 70-130 |      | %REC  | 1  | 10/30/2012 1:22:14 AM  |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-16

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/21/2012 1:20:00 PM

**Lab ID:** 1210A54-016

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF          |
| Benzene                                      | 1000   | 50     |      | µg/L  | 50 | 10/30/2012 2:23:33 AM |
| Toluene                                      | ND     | 50     |      | µg/L  | 50 | 10/30/2012 2:23:33 AM |
| Ethylbenzene                                 | 270    | 50     |      | µg/L  | 50 | 10/30/2012 2:23:33 AM |
| Xylenes, Total                               | 2300   | 100    |      | µg/L  | 50 | 10/30/2012 2:23:33 AM |
| Surr: 1,2-Dichloroethane-d4                  | 100    | 70-130 |      | %REC  | 50 | 10/30/2012 2:23:33 AM |
| Surr: 4-Bromofluorobenzene                   | 94.0   | 70-130 |      | %REC  | 50 | 10/30/2012 2:23:33 AM |
| Surr: Dibromofluoromethane                   | 94.9   | 70-130 |      | %REC  | 50 | 10/30/2012 2:23:33 AM |
| Surr: Toluene-d8                             | 85.3   | 70-130 |      | %REC  | 50 | 10/30/2012 2:23:33 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-23D

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/21/2012 10:00:00 AM

**Lab ID:** 1210A54-017

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF          |
| Benzene                                      | 1.6    | 1.0    |      | µg/L  | 1  | 10/30/2012 3:24:50 AM |
| Toluene                                      | 8.1    | 1.0    |      | µg/L  | 1  | 10/30/2012 3:24:50 AM |
| Ethylbenzene                                 | 2.8    | 1.0    |      | µg/L  | 1  | 10/30/2012 3:24:50 AM |
| Xylenes, Total                               | 10     | 2.0    |      | µg/L  | 1  | 10/30/2012 3:24:50 AM |
| Surr: 1,2-Dichloroethane-d4                  | 99.0   | 70-130 |      | %REC  | 1  | 10/30/2012 3:24:50 AM |
| Surr: 4-Bromofluorobenzene                   | 104    | 70-130 |      | %REC  | 1  | 10/30/2012 3:24:50 AM |
| Surr: Dibromofluoromethane                   | 96.8   | 70-130 |      | %REC  | 1  | 10/30/2012 3:24:50 AM |
| Surr: Toluene-d8                             | 102    | 70-130 |      | %REC  | 1  | 10/30/2012 3:24:50 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-24D

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/21/2012 11:25:00 AM

**Lab ID:** 1210A54-018

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF          |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 3:55:34 AM |
| Toluene                                      | 2.1    | 1.0    |      | µg/L  | 1  | 10/30/2012 3:55:34 AM |
| Ethylbenzene                                 | 1.0    | 1.0    |      | µg/L  | 1  | 10/30/2012 3:55:34 AM |
| Xylenes, Total                               | 3.5    | 2.0    |      | µg/L  | 1  | 10/30/2012 3:55:34 AM |
| Surr: 1,2-Dichloroethane-d4                  | 91.6   | 70-130 |      | %REC  | 1  | 10/30/2012 3:55:34 AM |
| Surr: 4-Bromofluorobenzene                   | 103    | 70-130 |      | %REC  | 1  | 10/30/2012 3:55:34 AM |
| Surr: Dibromofluoromethane                   | 87.6   | 70-130 |      | %REC  | 1  | 10/30/2012 3:55:34 AM |
| Surr: Toluene-d8                             | 101    | 70-130 |      | %REC  | 1  | 10/30/2012 3:55:34 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-25D

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/21/2012 12:31:00 PM

**Lab ID:** 1210A54-019

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF          |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 4:26:19 AM |
| Toluene                                      | 1.2    | 1.0    |      | µg/L  | 1  | 10/30/2012 4:26:19 AM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 4:26:19 AM |
| Xylenes, Total                               | 2.2    | 2.0    |      | µg/L  | 1  | 10/30/2012 4:26:19 AM |
| Surr: 1,2-Dichloroethane-d4                  | 94.4   | 70-130 |      | %REC  | 1  | 10/30/2012 4:26:19 AM |
| Surr: 4-Bromofluorobenzene                   | 94.4   | 70-130 |      | %REC  | 1  | 10/30/2012 4:26:19 AM |
| Surr: Dibromofluoromethane                   | 87.9   | 70-130 |      | %REC  | 1  | 10/30/2012 4:26:19 AM |
| Surr: Toluene-d8                             | 89.9   | 70-130 |      | %REC  | 1  | 10/30/2012 4:26:19 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MPE-29

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:** 10/21/2012 3:40:00 PM

**Lab ID:** 1210A54-020

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF          |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 4:57:00 AM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 4:57:00 AM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 4:57:00 AM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 10/30/2012 4:57:00 AM |
| Surr: 1,2-Dichloroethane-d4                  | 108    | 70-130 |      | %REC  | 1  | 10/30/2012 4:57:00 AM |
| Surr: 4-Bromofluorobenzene                   | 95.1   | 70-130 |      | %REC  | 1  | 10/30/2012 4:57:00 AM |
| Surr: Dibromofluoromethane                   | 106    | 70-130 |      | %REC  | 1  | 10/30/2012 4:57:00 AM |
| Surr: Toluene-d8                             | 82.7   | 70-130 |      | %REC  | 1  | 10/30/2012 4:57:00 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:**

**Lab ID:** 1210A54-021

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                           | Result | RL  | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|-----|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    | Analyst: DJF          |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Bromomethane                       | ND     | 3.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Carbon Tetrachloride               | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Chloromethane                      | ND     | 3.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Dibromomethane                     | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,1-Dichloroethane                 | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,1-Dichloroethene                 | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Hexachlorobutadiene                | ND     | 1.0 |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 2-Hexanone                         | ND     | 10  |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

## Analytical Report

Lab Order 1210A54

Date Reported: 11/6/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** Transwestern Pipeline Co. Roswell

**Collection Date:**

**Lab ID:** 1210A54-021

**Matrix:** AQUEOUS

**Received Date:** 10/23/2012 11:00:00 AM

| Analyses                           | Result | RL     | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |        |      |       |    | Analyst: DJF          |
| Isopropylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 4-Isopropyltoluene                 | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 4-Methyl-2-pentanone               | ND     | 10     |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Methylene Chloride                 | ND     | 3.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| n-Butylbenzene                     | ND     | 3.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| n-Propylbenzene                    | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| sec-Butylbenzene                   | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Styrene                            | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| tert-Butylbenzene                  | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,1,2,2-Tetrachloroethane          | ND     | 2.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Tetrachloroethene (PCE)            | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| trans-1,2-DCE                      | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| trans-1,3-Dichloropropene          | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,2,3-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,2,4-Trichlorobenzene             | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,1,1-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,1,2-Trichloroethane              | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Trichloroethene (TCE)              | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Trichlorofluoromethane             | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| 1,2,3-Trichloropropane             | ND     | 2.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Vinyl chloride                     | ND     | 1.0    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Xylenes, Total                     | ND     | 1.5    |      | µg/L  | 1  | 10/30/2012 5:58:20 AM |
| Surr: 1,2-Dichloroethane-d4        | 99.7   | 70-130 |      | %REC  | 1  | 10/30/2012 5:58:20 AM |
| Surr: 4-Bromofluorobenzene         | 81.0   | 70-130 |      | %REC  | 1  | 10/30/2012 5:58:20 AM |
| Surr: Dibromofluoromethane         | 98.0   | 70-130 |      | %REC  | 1  | 10/30/2012 5:58:20 AM |
| Surr: Toluene-d8                   | 111    | 70-130 |      | %REC  | 1  | 10/30/2012 5:58:20 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH greater than 2  
 RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A54

06-Nov-12

**Client:** Cypress Engineering  
**Project:** Transwestern Pipeline Co. Roswell

|                             |        |                |            |             |                                       |          |           |      |          |      |
|-----------------------------|--------|----------------|------------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 5ml rb | SampType:      | MBLK       | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                  | PBW    | Batch ID:      | R6530      | RunNo:      | 6530                                  |          |           |      |          |      |
| Prep Date:                  |        | Analysis Date: | 10/26/2012 | SeqNo:      | 188643                                | Units:   | %REC      |      |          |      |
| Analyte                     | Result | PQL            | SPK value  | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 11     |                | 10.00      |             | 111                                   | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11     |                | 10.00      |             | 113                                   | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 11     |                | 10.00      |             | 105                                   | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 9.7    |                | 10.00      |             | 96.9                                  | 70       | 130       |      |          |      |

|                             |           |                |            |             |                                       |          |           |      |          |      |
|-----------------------------|-----------|----------------|------------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 100ng lcs | SampType:      | LCS        | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                  | LCSW      | Batch ID:      | R6530      | RunNo:      | 6530                                  |          |           |      |          |      |
| Prep Date:                  |           | Analysis Date: | 10/26/2012 | SeqNo:      | 188645                                | Units:   | %REC      |      |          |      |
| Analyte                     | Result    | PQL            | SPK value  | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 10        |                | 10.00      |             | 102                                   | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11        |                | 10.00      |             | 113                                   | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.5       |                | 10.00      |             | 94.5                                  | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 8.9       |                | 10.00      |             | 88.7                                  | 70       | 130       |      |          |      |

|                                |        |                |            |             |                                       |          |           |      |          |      |
|--------------------------------|--------|----------------|------------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                      | 5ml rb | SampType:      | MBLK       | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                     | PBW    | Batch ID:      | R6561      | RunNo:      | 6561                                  |          |           |      |          |      |
| Prep Date:                     |        | Analysis Date: | 10/29/2012 | SeqNo:      | 189563                                | Units:   | µg/L      |      |          |      |
| Analyte                        | Result | PQL            | SPK value  | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 1.0            |            |             |                                       |          |           |      |          |      |
| Toluene                        | ND     | 1.0            |            |             |                                       |          |           |      |          |      |
| Ethylbenzene                   | ND     | 1.0            |            |             |                                       |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0            |            |             |                                       |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND     | 1.0            |            |             |                                       |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND     | 1.0            |            |             |                                       |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0            |            |             |                                       |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0            |            |             |                                       |          |           |      |          |      |
| Naphthalene                    | ND     | 2.0            |            |             |                                       |          |           |      |          |      |
| 1-Methylnaphthalene            | ND     | 4.0            |            |             |                                       |          |           |      |          |      |
| 2-Methylnaphthalene            | ND     | 4.0            |            |             |                                       |          |           |      |          |      |
| Xylenes, Total                 | ND     | 2.0            |            |             |                                       |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4    | 10     |                | 10.00      |             | 100                                   | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene     | 11     |                | 10.00      |             | 106                                   | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane     | 9.9    |                | 10.00      |             | 98.6                                  | 70       | 130       |      |          |      |
| Surr: Toluene-d8               | 9.3    |                | 10.00      |             | 93.1                                  | 70       | 130       |      |          |      |

|            |           |                |            |             |                                       |          |           |      |          |      |
|------------|-----------|----------------|------------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID  | 100ng lcs | SampType:      | LCS        | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID: | LCSW      | Batch ID:      | R6561      | RunNo:      | 6561                                  |          |           |      |          |      |
| Prep Date: |           | Analysis Date: | 10/29/2012 | SeqNo:      | 189564                                | Units:   | µg/L      |      |          |      |
| Analyte    | Result    | PQL            | SPK value  | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A54

06-Nov-12

**Client:** Cypress Engineering  
**Project:** Transwestern Pipeline Co. Roswell

| Sample ID <b>100ng lcs</b>  | SampType: <b>LCS</b>             |     |           | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |      |          |                    |      |          |      |
|-----------------------------|----------------------------------|-----|-----------|--------------------------------------------------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>R6561</b>           |     |           | RunNo: <b>6561</b>                                     |      |          |                    |      |          |      |
| Prep Date:                  | Analysis Date: <b>10/29/2012</b> |     |           | SeqNo: <b>189564</b>                                   |      |          | Units: <b>µg/L</b> |      |          |      |
| Analyte                     | Result                           | PQL | SPK value | SPK Ref Val                                            | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Benzene                     | 20                               | 1.0 | 20.00     | 0                                                      | 101  | 70       | 130                |      |          |      |
| Toluene                     | 21                               | 1.0 | 20.00     | 0                                                      | 107  | 80       | 120                |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 11                               |     | 10.00     |                                                        | 111  | 70       | 130                |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.4                              |     | 10.00     |                                                        | 94.1 | 70       | 130                |      |          |      |
| Surr: Dibromofluoromethane  | 11                               |     | 10.00     |                                                        | 108  | 70       | 130                |      |          |      |
| Surr: Toluene-d8            | 11                               |     | 10.00     |                                                        | 108  | 70       | 130                |      |          |      |

| Sample ID <b>1210a54-004ams</b> | SampType: <b>MS</b>              |     |           | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |      |          |                    |      |          |      |
|---------------------------------|----------------------------------|-----|-----------|--------------------------------------------------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>MPE-24</b>        | Batch ID: <b>R6561</b>           |     |           | RunNo: <b>6561</b>                                     |      |          |                    |      |          |      |
| Prep Date:                      | Analysis Date: <b>10/29/2012</b> |     |           | SeqNo: <b>189589</b>                                   |      |          | Units: <b>µg/L</b> |      |          |      |
| Analyte                         | Result                           | PQL | SPK value | SPK Ref Val                                            | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Benzene                         | 4500                             | 100 | 2000      | 3043                                                   | 74.6 | 66.8     | 128                |      |          |      |
| Toluene                         | 5000                             | 100 | 2000      | 2670                                                   | 117  | 70       | 130                |      |          |      |
| Surr: 1,2-Dichloroethane-d4     | 960                              |     | 1000      |                                                        | 95.8 | 70       | 130                |      |          |      |
| Surr: 4-Bromofluorobenzene      | 970                              |     | 1000      |                                                        | 96.8 | 70       | 130                |      |          |      |
| Surr: Dibromofluoromethane      | 870                              |     | 1000      |                                                        | 86.6 | 70       | 130                |      |          |      |
| Surr: Toluene-d8                | 990                              |     | 1000      |                                                        | 99.5 | 70       | 130                |      |          |      |

| Sample ID <b>1210a54-004amsd</b> | SampType: <b>MSD</b>             |     |           | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |      |          |                    |      |          |      |
|----------------------------------|----------------------------------|-----|-----------|--------------------------------------------------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>MPE-24</b>         | Batch ID: <b>R6561</b>           |     |           | RunNo: <b>6561</b>                                     |      |          |                    |      |          |      |
| Prep Date:                       | Analysis Date: <b>10/29/2012</b> |     |           | SeqNo: <b>189590</b>                                   |      |          | Units: <b>µg/L</b> |      |          |      |
| Analyte                          | Result                           | PQL | SPK value | SPK Ref Val                                            | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Benzene                          | 4200                             | 100 | 2000      | 3043                                                   | 56.2 | 66.8     | 128                | 8.43 | 16.7     | S    |
| Toluene                          | 4100                             | 100 | 2000      | 2670                                                   | 73.3 | 70       | 130                | 19.2 | 18.7     | R    |
| Surr: 1,2-Dichloroethane-d4      | 1000                             |     | 1000      |                                                        | 102  | 70       | 130                | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene       | 920                              |     | 1000      |                                                        | 92.3 | 70       | 130                | 0    | 0        |      |
| Surr: Dibromofluoromethane       | 920                              |     | 1000      |                                                        | 92.4 | 70       | 130                | 0    | 0        |      |
| Surr: Toluene-d8                 | 890                              |     | 1000      |                                                        | 89.1 | 70       | 130                | 0    | 0        |      |

| Sample ID <b>5ml rb</b>     | SampType: <b>MBLK</b>            |     |           | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |      |          |                    |      |          |      |
|-----------------------------|----------------------------------|-----|-----------|--------------------------------------------------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>PBW</b>       | Batch ID: <b>R6594</b>           |     |           | RunNo: <b>6594</b>                                     |      |          |                    |      |          |      |
| Prep Date:                  | Analysis Date: <b>10/30/2012</b> |     |           | SeqNo: <b>190472</b>                                   |      |          | Units: <b>µg/L</b> |      |          |      |
| Analyte                     | Result                           | PQL | SPK value | SPK Ref Val                                            | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Benzene                     | ND                               | 1.0 |           |                                                        |      |          |                    |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 11                               |     | 10.00     |                                                        | 109  | 70       | 130                |      |          |      |
| Surr: 4-Bromofluorobenzene  | 10                               |     | 10.00     |                                                        | 99.6 | 70       | 130                |      |          |      |
| Surr: Dibromofluoromethane  | 11                               |     | 10.00     |                                                        | 106  | 70       | 130                |      |          |      |
| Surr: Toluene-d8            | 11                               |     | 10.00     |                                                        | 107  | 70       | 130                |      |          |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A54

06-Nov-12

Client: Cypress Engineering

Project: Transwestern Pipeline Co. Roswell

|                             |           |     |           |                |            |          |           |                                       |          |        |      |
|-----------------------------|-----------|-----|-----------|----------------|------------|----------|-----------|---------------------------------------|----------|--------|------|
| Sample ID                   | 100ng lcs |     |           | SampType:      | LCS        |          | TestCode: | EPA Method 8260: Volatiles Short List |          |        |      |
| Client ID:                  | LCSW      |     |           | Batch ID:      | R6594      |          | RunNo:    | 6594                                  |          |        |      |
| Prep Date:                  |           |     |           | Analysis Date: | 10/30/2012 |          | SeqNo:    | 190473                                |          | Units: | µg/L |
| Analyte                     | Result    | PQL | SPK value | SPK Ref Val    | %REC       | LowLimit | HighLimit | %RPD                                  | RPDLimit | Qual   |      |
| Benzene                     | 21        | 1.0 | 20.00     | 0              | 107        | 70       | 130       |                                       |          |        |      |
| Surr: 1,2-Dichloroethane-d4 | 10        |     | 10.00     |                | 102        | 70       | 130       |                                       |          |        |      |
| Surr: 4-Bromofluorobenzene  | 8.6       |     | 10.00     |                | 85.9       | 70       | 130       |                                       |          |        |      |
| Surr: Dibromofluoromethane  | 9.5       |     | 10.00     |                | 94.5       | 70       | 130       |                                       |          |        |      |
| Surr: Toluene-d8            | 9.4       |     | 10.00     |                | 93.6       | 70       | 130       |                                       |          |        |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A54

06-Nov-12

**Client:** Cypress Engineering  
**Project:** Transwestern Pipeline Co. Roswell

|                             |        |                |            |             |                             |          |           |      |          |      |
|-----------------------------|--------|----------------|------------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 5ml rb | SampType:      | MBLK       | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | PBW    | Batch ID:      | R6530      | RunNo:      | 6530                        |          |           |      |          |      |
| Prep Date:                  |        | Analysis Date: | 10/26/2012 | SeqNo:      | 188612                      | Units:   | %REC      |      |          |      |
| Analyte                     | Result | PQL            | SPK value  | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 11     |                | 10.00      |             | 111                         | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11     |                | 10.00      |             | 113                         | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 11     |                | 10.00      |             | 105                         | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 9.7    |                | 10.00      |             | 96.9                        | 70       | 130       |      |          |      |

|                             |           |                |            |             |                             |          |           |      |          |      |
|-----------------------------|-----------|----------------|------------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 100ng lcs | SampType:      | LCS        | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | LCSW      | Batch ID:      | R6530      | RunNo:      | 6530                        |          |           |      |          |      |
| Prep Date:                  |           | Analysis Date: | 10/26/2012 | SeqNo:      | 188616                      | Units:   | %REC      |      |          |      |
| Analyte                     | Result    | PQL            | SPK value  | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 10        |                | 10.00      |             | 102                         | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11        |                | 10.00      |             | 113                         | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.5       |                | 10.00      |             | 94.5                        | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 8.9       |                | 10.00      |             | 88.7                        | 70       | 130       |      |          |      |

|                                |        |                |            |             |                             |          |           |      |          |      |
|--------------------------------|--------|----------------|------------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                      | 5ml rb | SampType:      | MBLK       | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                     | PBW    | Batch ID:      | R6561      | RunNo:      | 6561                        |          |           |      |          |      |
| Prep Date:                     |        | Analysis Date: | 10/29/2012 | SeqNo:      | 189557                      | Units:   | µg/L      |      |          |      |
| Analyte                        | Result | PQL            | SPK value  | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Toluene                        | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Ethylbenzene                   | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,2,4-Trimethylbenzene         | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,3,5-Trimethylbenzene         | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Naphthalene                    | ND     | 2.0            |            |             |                             |          |           |      |          |      |
| 1-Methylnaphthalene            | ND     | 4.0            |            |             |                             |          |           |      |          |      |
| 2-Methylnaphthalene            | ND     | 4.0            |            |             |                             |          |           |      |          |      |
| Acetone                        | ND     | 10             |            |             |                             |          |           |      |          |      |
| Bromobenzene                   | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Bromodichloromethane           | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Bromoform                      | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Bromomethane                   | ND     | 3.0            |            |             |                             |          |           |      |          |      |
| 2-Butanone                     | ND     | 10             |            |             |                             |          |           |      |          |      |
| Carbon disulfide               | ND     | 10             |            |             |                             |          |           |      |          |      |
| Carbon Tetrachloride           | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Chlorobenzene                  | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Chloroethane                   | ND     | 2.0            |            |             |                             |          |           |      |          |      |
| Chloroform                     | ND     | 1.0            |            |             |                             |          |           |      |          |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A54

06-Nov-12

**Client:** Cypress Engineering  
**Project:** Transwestern Pipeline Co. Roswell

|                             |        |                |            |             |                             |          |           |      |          |      |
|-----------------------------|--------|----------------|------------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 5ml rb | SampType:      | MBLK       | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | PBW    | Batch ID:      | R6561      | RunNo:      | 6561                        |          |           |      |          |      |
| Prep Date:                  |        | Analysis Date: | 10/29/2012 | SeqNo:      | 189557                      | Units:   | µg/L      |      |          |      |
| Analyte                     | Result | PQL            | SPK value  | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloromethane               | ND     | 3.0            |            |             |                             |          |           |      |          |      |
| 2-Chlorotoluene             | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 4-Chlorotoluene             | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| cis-1,2-DCE                 | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| cis-1,3-Dichloropropene     | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,2-Dibromo-3-chloropropane | ND     | 2.0            |            |             |                             |          |           |      |          |      |
| Dibromochloromethane        | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Dibromomethane              | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,2-Dichlorobenzene         | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,3-Dichlorobenzene         | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,4-Dichlorobenzene         | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Dichlorodifluoromethane     | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,1-Dichloroethane          | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,1-Dichloroethene          | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,2-Dichloropropane         | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,3-Dichloropropane         | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 2,2-Dichloropropane         | ND     | 2.0            |            |             |                             |          |           |      |          |      |
| 1,1-Dichloropropene         | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Hexachlorobutadiene         | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 2-Hexanone                  | ND     | 10             |            |             |                             |          |           |      |          |      |
| Isopropylbenzene            | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 4-Isopropyltoluene          | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 4-Methyl-2-pentanone        | ND     | 10             |            |             |                             |          |           |      |          |      |
| Methylene Chloride          | ND     | 3.0            |            |             |                             |          |           |      |          |      |
| n-Butylbenzene              | ND     | 3.0            |            |             |                             |          |           |      |          |      |
| n-Propylbenzene             | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| sec-Butylbenzene            | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Styrene                     | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| tert-Butylbenzene           | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,1,1,2-Tetrachloroethane   | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,1,2,2-Tetrachloroethane   | ND     | 2.0            |            |             |                             |          |           |      |          |      |
| Tetrachloroethene (PCE)     | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| trans-1,2-DCE               | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| trans-1,3-Dichloropropene   | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,2,3-Trichlorobenzene      | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,2,4-Trichlorobenzene      | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,1,1-Trichloroethane       | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,1,2-Trichloroethane       | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Trichloroethene (TCE)       | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Trichlorofluoromethane      | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| 1,2,3-Trichloropropane      | ND     | 2.0            |            |             |                             |          |           |      |          |      |

### Qualifiers:

|   |                                            |    |                                                    |
|---|--------------------------------------------|----|----------------------------------------------------|
| * | Value exceeds Maximum Contaminant Level.   | B  | Analyte detected in the associated Method Blank    |
| E | Value above quantitation range             | H  | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit                |
| P | Sample pH greater than 2                   | R  | RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A54

06-Nov-12

**Client:** Cypress Engineering  
**Project:** Transwestern Pipeline Co. Roswell

|                             |        |                |            |             |                             |          |           |      |          |      |
|-----------------------------|--------|----------------|------------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 5ml rb | SampType:      | MBLK       | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | PBW    | Batch ID:      | R6561      | RunNo:      | 6561                        |          |           |      |          |      |
| Prep Date:                  |        | Analysis Date: | 10/29/2012 | SeqNo:      | 189557                      | Units:   | µg/L      |      |          |      |
| Analyte                     | Result | PQL            | SPK value  | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Vinyl chloride              | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Xylenes, Total              | ND     | 1.5            |            |             |                             |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 10     |                | 10.00      |             | 100                         | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11     |                | 10.00      |             | 106                         | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.9    |                | 10.00      |             | 98.6                        | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 9.3    |                | 10.00      |             | 93.1                        | 70       | 130       |      |          |      |

|                             |           |                |            |             |                             |          |           |      |          |      |
|-----------------------------|-----------|----------------|------------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 100ng lcs | SampType:      | LCS        | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | LCSW      | Batch ID:      | R6561      | RunNo:      | 6561                        |          |           |      |          |      |
| Prep Date:                  |           | Analysis Date: | 10/29/2012 | SeqNo:      | 189559                      | Units:   | µg/L      |      |          |      |
| Analyte                     | Result    | PQL            | SPK value  | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 20        | 1.0            | 20.00      | 0           | 101                         | 70       | 130       |      |          |      |
| Toluene                     | 21        | 1.0            | 20.00      | 0           | 107                         | 80       | 120       |      |          |      |
| Chlorobenzene               | 20        | 1.0            | 20.00      | 0           | 101                         | 70       | 130       |      |          |      |
| 1,1-Dichloroethene          | 23        | 1.0            | 20.00      | 0           | 117                         | 73.7     | 122       |      |          |      |
| Trichloroethene (TCE)       | 23        | 1.0            | 20.00      | 0           | 117                         | 70       | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 11        |                | 10.00      |             | 111                         | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.4       |                | 10.00      |             | 94.1                        | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 11        |                | 10.00      |             | 108                         | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 11        |                | 10.00      |             | 108                         | 70       | 130       |      |          |      |

|                             |        |                |            |             |                             |          |           |      |          |      |
|-----------------------------|--------|----------------|------------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 5ml rb | SampType:      | MBLK       | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | PBW    | Batch ID:      | R6594      | RunNo:      | 6594                        |          |           |      |          |      |
| Prep Date:                  |        | Analysis Date: | 10/30/2012 | SeqNo:      | 190466                      | Units:   | µg/L      |      |          |      |
| Analyte                     | Result | PQL            | SPK value  | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND     | 1.0            |            |             |                             |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 11     |                | 10.00      |             | 109                         | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 10     |                | 10.00      |             | 99.6                        | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 11     |                | 10.00      |             | 106                         | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 11     |                | 10.00      |             | 107                         | 70       | 130       |      |          |      |

|                             |           |                |            |             |                             |          |           |      |          |      |
|-----------------------------|-----------|----------------|------------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 100ng lcs | SampType:      | LCS        | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:                  | LCSW      | Batch ID:      | R6594      | RunNo:      | 6594                        |          |           |      |          |      |
| Prep Date:                  |           | Analysis Date: | 10/30/2012 | SeqNo:      | 190468                      | Units:   | µg/L      |      |          |      |
| Analyte                     | Result    | PQL            | SPK value  | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 21        | 1.0            | 20.00      | 0           | 107                         | 70       | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 10        |                | 10.00      |             | 102                         | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 8.6       |                | 10.00      |             | 85.9                        | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.5       |                | 10.00      |             | 94.5                        | 70       | 130       |      |          |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A54

06-Nov-12

Client: Cypress Engineering

Project: Transwestern Pipeline Co. Roswell

|                  |           |                |            |             |                             |          |           |      |          |      |
|------------------|-----------|----------------|------------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID        | 100ng lcs | SampType:      | LCS        | TestCode:   | EPA Method 8260B: VOLATILES |          |           |      |          |      |
| Client ID:       | LCSW      | Batch ID:      | R6594      | RunNo:      | 6594                        |          |           |      |          |      |
| Prep Date:       |           | Analysis Date: | 10/30/2012 | SeqNo:      | 190468                      | Units:   | µg/L      |      |          |      |
| Analyte          | Result    | PQL            | SPK value  | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: Toluene-d8 | 9.4       |                | 10.00      |             | 93.6                        | 70       | 130       |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# Sample Log-In Check List

Client Name: CYP Work Order Number: 1210A54

Received by/date: MG 10/23/12

Logged By: Anne Thorne 10/23/2012 11:00:00 AM *Anne Thorne*

Completed By: Anne Thorne 10/23/2012 *Anne Thorne*

Reviewed By: *[Signature]* 10/23/12

## Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

## Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

18. Additional remarks:

## 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.0     | Good      | Yes         |         |           |           |

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

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

**Turn-Around Time:**

☒ Standard ☐ Rush

☒ Standard ☐ Rush

Project Name: TRANSWESTERN PIPELINE CO

Project #:

TRP Research

**Project Manager:**

George F. Benson

Sampler: Andrew Shapiro

On/Off: ☒ On ☐ Off

Sample Temperature 11.0

| Date | Time | Matrix | Sample Request ID |
|------|------|--------|-------------------|
|------|------|--------|-------------------|

|            |   |       |
|------------|---|-------|
| 10/21/2010 | W | MW-12 |
|------------|---|-------|

|    |      |   |           |
|----|------|---|-----------|
| 11 | 1010 | / | MW-12 DCP |
|----|------|---|-----------|

|         |      |        |
|---------|------|--------|
| 2/19/12 | 1740 | MPF-16 |
|---------|------|--------|

|          |      |         |
|----------|------|---------|
| 06/19/12 | 1030 | MPK-214 |
|----------|------|---------|

|     |      |       |
|-----|------|-------|
| " " | 1245 | MW-20 |
|-----|------|-------|

|   |      |        |
|---|------|--------|
| n | 1125 | MW-210 |
|---|------|--------|

|   |     |           |
|---|-----|-----------|
| n | 125 | MW-26 Dup |
|---|-----|-----------|

|            |       |
|------------|-------|
| 05/21/2012 | MW-22 |
|------------|-------|

|         |      |       |
|---------|------|-------|
| 7/19/12 | 1800 | MW-14 |
|---------|------|-------|

|       |      |    |
|-------|------|----|
| 37-MW | 0281 | 11 |
|-------|------|----|

|    |      |   |       |
|----|------|---|-------|
| 11 | 1440 | L | MW-29 |
|----|------|---|-------|

|         |      |       |
|---------|------|-------|
| 6/21/12 | 1225 | MW-35 |
|---------|------|-------|

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

4/1/12 1830 [Signature]

11/11/11

Date: \_\_\_\_\_  
Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

min 12/8/11

11/20/01

Received by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Remarks:

3

0077-71

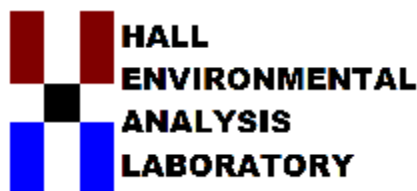
Rate Time

if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.





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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

November 20, 2012

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3420  
FAX (281) 859-1881

RE: TWP Roswell Station 9

OrderNo.: 1210C30

Dear George Robinson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/26/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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", with a stylized flourish at the end.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1210C30

Date Reported: 11/20/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-21

**Project:** TWP Roswell Station 9

**Collection Date:** 10/25/2012 1:06:00 PM

**Lab ID:** 1210C30-001

**Matrix:** AQUEOUS

**Received Date:** 10/26/2012 1:24:00 PM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed        |
|----------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF         |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 1:29:56 PM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 1:29:56 PM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 1:29:56 PM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 11/1/2012 1:29:56 PM |
| Surr: 1,2-Dichloroethane-d4                  | 95.8   | 70-130 |      | %REC  | 1  | 11/1/2012 1:29:56 PM |
| Surr: 4-Bromofluorobenzene                   | 93.9   | 70-130 |      | %REC  | 1  | 11/1/2012 1:29:56 PM |
| Surr: Dibromofluoromethane                   | 89.6   | 70-130 |      | %REC  | 1  | 11/1/2012 1:29:56 PM |
| Surr: Toluene-d8                             | 85.6   | 70-130 |      | %REC  | 1  | 11/1/2012 1:29:56 PM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1210C30

Date Reported: 11/20/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** TWP Roswell Station 9

**Collection Date:**

**Lab ID:** 1210C30-002

**Matrix:** AQUEOUS

**Received Date:** 10/26/2012 1:24:00 PM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed        |
|----------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: DJF         |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 3:35:54 PM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 3:35:54 PM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 11/1/2012 3:35:54 PM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 11/1/2012 3:35:54 PM |
| Surr: 1,2-Dichloroethane-d4                  | 75.1   | 70-130 |      | %REC  | 1  | 11/1/2012 3:35:54 PM |
| Surr: 4-Bromofluorobenzene                   | 94.8   | 70-130 |      | %REC  | 1  | 11/1/2012 3:35:54 PM |
| Surr: Dibromofluoromethane                   | 83.9   | 70-130 |      | %REC  | 1  | 11/1/2012 3:35:54 PM |
| Surr: Toluene-d8                             | 112    | 70-130 |      | %REC  | 1  | 11/1/2012 3:35:54 PM |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C30

20-Nov-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |        |                |           |             |                                       |          |           |      |          |      |
|-----------------------------|--------|----------------|-----------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 5ml rb | SampType:      | MBLK      | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                  | PBW    | Batch ID:      | R6649     | RunNo:      | 6649                                  |          |           |      |          |      |
| Prep Date:                  |        | Analysis Date: | 11/1/2012 | SeqNo:      | 191733                                | Units:   | µg/L      |      |          |      |
| Analyte                     | Result | PQL            | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Toluene                     | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Ethylbenzene                | ND     | 1.0            |           |             |                                       |          |           |      |          |      |
| Xylenes, Total              | ND     | 2.0            |           |             |                                       |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.4    |                | 10.00     |             | 94.2                                  | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.3    |                | 10.00     |             | 93.0                                  | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.5    |                | 10.00     |             | 95.3                                  | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 9.0    |                | 10.00     |             | 89.9                                  | 70       | 130       |      |          |      |

|                             |           |                |           |             |                                       |          |           |      |          |      |
|-----------------------------|-----------|----------------|-----------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 100ng lcs | SampType:      | LCS       | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                  | LCSW      | Batch ID:      | R6649     | RunNo:      | 6649                                  |          |           |      |          |      |
| Prep Date:                  |           | Analysis Date: | 11/1/2012 | SeqNo:      | 191742                                | Units:   | µg/L      |      |          |      |
| Analyte                     | Result    | PQL            | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 24        | 1.0            | 20.00     | 0           | 118                                   | 70       | 130       |      |          |      |
| Toluene                     | 20        | 1.0            | 20.00     | 0           | 97.6                                  | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.9       |                | 10.00     |             | 98.6                                  | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11        |                | 10.00     |             | 107                                   | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 8.7       |                | 10.00     |             | 87.4                                  | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 8.8       |                | 10.00     |             | 88.3                                  | 70       | 130       |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# Sample Log-In Check List

Client Name: CYP Work Order Number: 1210C30

Received by/date: AT 10/26/12

Logged By: Anne Thorne 10/26/2012 1:24:00 PM

Completed By: Anne Thorne 10/26/2012

Reviewed By: [Signature] 10/26/12

## Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

## Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

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

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

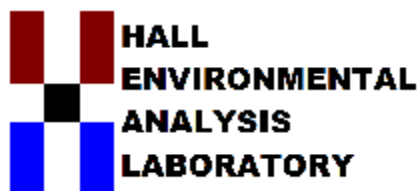
18. Additional remarks:

## 19. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 2.2                     | Good      | Yes         |         |           |           |







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

December 27, 2012

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3420  
FAX (281) 859-1881

RE: TWP Roswell Station 9

OrderNo.: 1212690

Dear George Robinson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/15/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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", with a stylized flourish at the end.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1212690

Date Reported: 12/27/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-24D

**Project:** TWP Roswell Station 9

**Collection Date:** 12/14/2012 11:30:00 AM

**Lab ID:** 1212690-001

**Matrix:** AQUEOUS

**Received Date:** 12/15/2012 12:00:00 PM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: RAA          |
| Benzene                                      | 9.6    | 1.0    |      | µg/L  | 1  | 12/22/2012 2:15:58 AM |
| Toluene                                      | 17     | 1.0    |      | µg/L  | 1  | 12/22/2012 2:15:58 AM |
| Ethylbenzene                                 | 4.9    | 1.0    |      | µg/L  | 1  | 12/22/2012 2:15:58 AM |
| Xylenes, Total                               | 14     | 2.0    |      | µg/L  | 1  | 12/22/2012 2:15:58 AM |
| Surr: 1,2-Dichloroethane-d4                  | 94.4   | 70-130 |      | %REC  | 1  | 12/22/2012 2:15:58 AM |
| Surr: 4-Bromofluorobenzene                   | 99.4   | 70-130 |      | %REC  | 1  | 12/22/2012 2:15:58 AM |
| Surr: Dibromofluoromethane                   | 87.8   | 70-130 |      | %REC  | 1  | 12/22/2012 2:15:58 AM |
| Surr: Toluene-d8                             | 99.8   | 70-130 |      | %REC  | 1  | 12/22/2012 2:15:58 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1212690

Date Reported: 12/27/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-25D

**Project:** TWP Roswell Station 9

**Collection Date:** 12/14/2012 12:47:00 PM

**Lab ID:** 1212690-002

**Matrix:** AQUEOUS

**Received Date:** 12/15/2012 12:00:00 PM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: <b>RAA</b>   |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 12/22/2012 3:41:05 AM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 12/22/2012 3:41:05 AM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 12/22/2012 3:41:05 AM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 12/22/2012 3:41:05 AM |
| Surr: 1,2-Dichloroethane-d4                  | 93.8   | 70-130 |      | %REC  | 1  | 12/22/2012 3:41:05 AM |
| Surr: 4-Bromofluorobenzene                   | 102    | 70-130 |      | %REC  | 1  | 12/22/2012 3:41:05 AM |
| Surr: Dibromofluoromethane                   | 89.5   | 70-130 |      | %REC  | 1  | 12/22/2012 3:41:05 AM |
| Surr: Toluene-d8                             | 99.8   | 70-130 |      | %REC  | 1  | 12/22/2012 3:41:05 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1212690

Date Reported: 12/27/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-23D

**Project:** TWP Roswell Station 9

**Collection Date:** 12/14/2012 1:50:00 PM

**Lab ID:** 1212690-003

**Matrix:** AQUEOUS

**Received Date:** 12/15/2012 12:00:00 PM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: RAA          |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 12/22/2012 4:09:09 AM |
| Toluene                                      | 1.4    | 1.0    |      | µg/L  | 1  | 12/22/2012 4:09:09 AM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 12/22/2012 4:09:09 AM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 12/22/2012 4:09:09 AM |
| Surr: 1,2-Dichloroethane-d4                  | 95.7   | 70-130 |      | %REC  | 1  | 12/22/2012 4:09:09 AM |
| Surr: 4-Bromofluorobenzene                   | 103    | 70-130 |      | %REC  | 1  | 12/22/2012 4:09:09 AM |
| Surr: Dibromofluoromethane                   | 91.5   | 70-130 |      | %REC  | 1  | 12/22/2012 4:09:09 AM |
| Surr: Toluene-d8                             | 101    | 70-130 |      | %REC  | 1  | 12/22/2012 4:09:09 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1212690

Date Reported: 12/27/2012

**CLIENT:** Cypress Engineering

**Client Sample ID:** Trip Blank

**Project:** TWP Roswell Station 9

**Collection Date:**

**Lab ID:** 1212690-004

**Matrix:** AQUEOUS

**Received Date:** 12/15/2012 12:00:00 PM

| Analyses                                     | Result | RL     | Qual | Units | DF | Date Analyzed         |
|----------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |        |      |       |    | Analyst: RAA          |
| Benzene                                      | ND     | 1.0    |      | µg/L  | 1  | 12/22/2012 4:37:19 AM |
| Toluene                                      | ND     | 1.0    |      | µg/L  | 1  | 12/22/2012 4:37:19 AM |
| Ethylbenzene                                 | ND     | 1.0    |      | µg/L  | 1  | 12/22/2012 4:37:19 AM |
| Xylenes, Total                               | ND     | 2.0    |      | µg/L  | 1  | 12/22/2012 4:37:19 AM |
| Surr: 1,2-Dichloroethane-d4                  | 96.9   | 70-130 |      | %REC  | 1  | 12/22/2012 4:37:19 AM |
| Surr: 4-Bromofluorobenzene                   | 104    | 70-130 |      | %REC  | 1  | 12/22/2012 4:37:19 AM |
| Surr: Dibromofluoromethane                   | 91.9   | 70-130 |      | %REC  | 1  | 12/22/2012 4:37:19 AM |
| Surr: Toluene-d8                             | 99.5   | 70-130 |      | %REC  | 1  | 12/22/2012 4:37:19 AM |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1212690

27-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |                                  |     |                                                        |             |                    |          |           |      |          |      |
|-----------------------------|----------------------------------|-----|--------------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>5ml-rb</b>     | SampType: <b>MBLK</b>            |     | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBW</b>       | Batch ID: <b>R7692</b>           |     | RunNo: <b>7692</b>                                     |             |                    |          |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>12/21/2012</b> |     | SeqNo: <b>223324</b>                                   |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                     | Result                           | PQL | SPK value                                              | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                               | 1.0 |                                                        |             |                    |          |           |      |          |      |
| Toluene                     | ND                               | 1.0 |                                                        |             |                    |          |           |      |          |      |
| Ethylbenzene                | ND                               | 1.0 |                                                        |             |                    |          |           |      |          |      |
| Xylenes, Total              | ND                               | 2.0 |                                                        |             |                    |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.3                              |     | 10.00                                                  |             | 93.4               | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11                               |     | 10.00                                                  |             | 106                | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 8.7                              |     | 10.00                                                  |             | 87.0               | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 10                               |     | 10.00                                                  |             | 101                | 70       | 130       |      |          |      |

|                             |                                  |     |                                                        |             |                    |          |           |      |          |      |
|-----------------------------|----------------------------------|-----|--------------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>100ng lcs</b>  | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSW</b>      | Batch ID: <b>R7692</b>           |     | RunNo: <b>7692</b>                                     |             |                    |          |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>12/21/2012</b> |     | SeqNo: <b>223325</b>                                   |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                     | Result                           | PQL | SPK value                                              | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 20                               | 1.0 | 20.00                                                  | 0           | 101                | 70       | 130       |      |          |      |
| Toluene                     | 21                               | 1.0 | 20.00                                                  | 0           | 103                | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.5                              |     | 10.00                                                  |             | 95.3               | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 10                               |     | 10.00                                                  |             | 103                | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 8.5                              |     | 10.00                                                  |             | 85.1               | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 10                               |     | 10.00                                                  |             | 99.7               | 70       | 130       |      |          |      |

|                                  |                                  |     |                                                        |             |                    |          |           |      |          |      |
|----------------------------------|----------------------------------|-----|--------------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1212690-001a ms</b> | SampType: <b>MS</b>              |     | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |             |                    |          |           |      |          |      |
| Client ID: <b>MW-24D</b>         | Batch ID: <b>R7692</b>           |     | RunNo: <b>7692</b>                                     |             |                    |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>12/22/2012</b> |     | SeqNo: <b>223326</b>                                   |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                          | Result                           | PQL | SPK value                                              | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 30                               | 1.0 | 20.00                                                  | 9.587       | 102                | 66.8     | 128       |      |          |      |
| Toluene                          | 37                               | 1.0 | 20.00                                                  | 17.39       | 99.7               | 70       | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 9.6                              |     | 10.00                                                  |             | 96.0               | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 9.7                              |     | 10.00                                                  |             | 96.7               | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 9.0                              |     | 10.00                                                  |             | 89.9               | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 9.8                              |     | 10.00                                                  |             | 97.5               | 70       | 130       |      |          |      |

|                                   |                                  |     |                                                        |             |                    |          |           |      |          |      |
|-----------------------------------|----------------------------------|-----|--------------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>1212690-001a msd</b> | SampType: <b>MSD</b>             |     | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |             |                    |          |           |      |          |      |
| Client ID: <b>MW-24D</b>          | Batch ID: <b>R7692</b>           |     | RunNo: <b>7692</b>                                     |             |                    |          |           |      |          |      |
| Prep Date:                        | Analysis Date: <b>12/22/2012</b> |     | SeqNo: <b>223327</b>                                   |             | Units: <b>µg/L</b> |          |           |      |          |      |
| Analyte                           | Result                           | PQL | SPK value                                              | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 28                               | 1.0 | 20.00                                                  | 9.587       | 94.4               | 66.8     | 128       | 5.12 | 16.7     |      |
| Toluene                           | 36                               | 1.0 | 20.00                                                  | 17.39       | 94.6               | 70       | 130       | 2.75 | 18.7     |      |
| Surr: 1,2-Dichloroethane-d4       | 9.6                              |     | 10.00                                                  |             | 96.0               | 70       | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene        | 10                               |     | 10.00                                                  |             | 101                | 70       | 130       | 0    | 0        |      |

### Qualifiers:

- |                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1212690

27-Dec-12

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                            |                  |                |            |             |                                       |          |           |      |          |      |
|----------------------------|------------------|----------------|------------|-------------|---------------------------------------|----------|-----------|------|----------|------|
| Sample ID                  | 1212690-001a msd | SampType:      | MSD        | TestCode:   | EPA Method 8260: Volatiles Short List |          |           |      |          |      |
| Client ID:                 | MW-24D           | Batch ID:      | R7692      | RunNo:      | 7692                                  |          |           |      |          |      |
| Prep Date:                 |                  | Analysis Date: | 12/22/2012 | SeqNo:      | 223327                                | Units:   | µg/L      |      |          |      |
| Analyte                    | Result           | PQL            | SPK value  | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: Dibromofluoromethane | 8.9              |                | 10.00      |             | 89.2                                  | 70       | 130       | 0    | 0        |      |
| Surr: Toluene-d8           | 9.6              |                | 10.00      |             | 96.3                                  | 70       | 130       | 0    | 0        |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

## Sample Log-In Check List

Client Name: CYP Work Order Number: 1212690

Received by/date: AF 12/15/12

Logged By: Anne Thorne 12/15/2012 12:00:00 PM *Anne Thorne*

Completed By: Anne Thorne 12/17/2012 *Anne Thorne*

Reviewed By: *mg* 12/17/12

### Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: \_\_\_\_\_  
( $<2$  or  $>12$  unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

|                      |       |       |                                                                                                                               |
|----------------------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------|
| Person Notified:     | _____ | Date: | _____                                                                                                                         |
| By Whom:             | _____ | Via:  | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | _____ |       |                                                                                                                               |
| Client Instructions: | _____ |       |                                                                                                                               |

18. Additional remarks:

### 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 2.2     | Good      | Yes         |         |           |           |



| Chain-of-Custody Record                                                                                                                |      |                  |                   |                      |                   |                     |
|----------------------------------------------------------------------------------------------------------------------------------------|------|------------------|-------------------|----------------------|-------------------|---------------------|
| Client: Expressing Engineering Services<br>ATTN: George Robinson PE<br>Mailing Address:<br>Highway 6 North Ste 100<br>Houston TX 77095 |      |                  |                   |                      |                   |                     |
| Project Name: Twp Russell Station 9                                                                                                    |      |                  |                   |                      |                   |                     |
| Project #: GW Monitoring 2002                                                                                                          |      |                  |                   |                      |                   |                     |
| Project Manager: George Robinson, PE                                                                                                   |      |                  |                   |                      |                   |                     |
| Sampler: CM Barnhill Jr.                                                                                                               |      |                  |                   |                      |                   |                     |
| <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush                                                             |      |                  |                   |                      |                   |                     |
| On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                            |      |                  |                   |                      |                   |                     |
| Sample Temperature: 22                                                                                                                 |      |                  |                   |                      |                   |                     |
| Date                                                                                                                                   | Time | Matrix           | Sample Request ID | Container Type and # | Preservative Type | HEAL No.            |
| 12/14/12                                                                                                                               | 1130 | H <sub>2</sub> O | MW-24D            | 3x40ml Vials         | HCl               | 1212690             |
| 12/14/12                                                                                                                               | 1247 | H <sub>2</sub> O | MW-25D            |                      |                   | 2002                |
| 12/14/12                                                                                                                               | 1350 | H <sub>2</sub> O | MW-23D            |                      |                   | -003                |
|                                                                                                                                        |      | H <sub>2</sub> O | Trip Blank        | 2x40ml Vials         | HgCl <sub>2</sub> | -004                |
|                                                                                                                                        |      |                  |                   |                      |                   |                     |
|                                                                                                                                        |      |                  |                   |                      |                   |                     |
|                                                                                                                                        |      |                  |                   |                      |                   |                     |
|                                                                                                                                        |      |                  |                   |                      |                   |                     |
|                                                                                                                                        |      |                  |                   |                      |                   |                     |
|                                                                                                                                        |      |                  |                   |                      |                   |                     |
|                                                                                                                                        |      |                  |                   |                      |                   |                     |
|                                                                                                                                        |      |                  |                   |                      |                   |                     |
|                                                                                                                                        |      |                  |                   |                      |                   |                     |
| Date:                                                                                                                                  |      | Relinquished by: |                   | Received by:         |                   | Date                |
| Time: 12/14/12 1500                                                                                                                    |      | (Signature)      |                   | (Signature)          |                   | Time 12/15/12 12:00 |
| Date:                                                                                                                                  |      | Relinquished by: |                   | Received by:         |                   | Date                |
| Time:                                                                                                                                  |      |                  |                   |                      |                   | Time                |



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

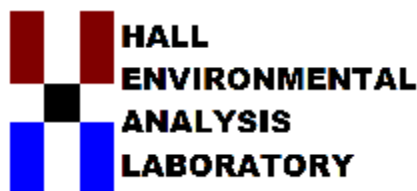
| Analysis                                                                               | Request | Notes |
|----------------------------------------------------------------------------------------|---------|-------|
| BTEX + MTBE + TMB's (8021)                                                             |         |       |
| BTEX + MTBE + TPH (Gas only)                                                           |         |       |
| TPH 8015B (GRO / DRO / MRO)                                                            |         |       |
| TPH (Method 418.1)                                                                     |         |       |
| EDB (Method 504.1)                                                                     |         |       |
| PAH's (8310 or 8270 SIMS)                                                              |         |       |
| 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)                                                                        |         |       |
| XX                                                                                     |         |       |
| XX                                                                                     |         |       |
| BTEX 8260                                                                              |         |       |
| 2                                                                                      |         |       |

Remarks:

Any questions Please Call  
George Robinson @  
201 797 8400

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

January 29, 2013

George Robinson  
Cypress Engineering  
7171 Highway 6 North  
Suite 102  
Houston, TX 770952422  
TEL: (281) 797-3420  
FAX (281) 859-1881

RE: TWP Roswell Station 9

OrderNo.: 1301765

Dear George Robinson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/23/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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", with a stylized flourish at the end.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1301765

Date Reported: 1/29/2013

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-24D

**Project:** TWP Roswell Station 9

**Collection Date:** 1/21/2013 11:30:00 AM

**Lab ID:** 1301765-001

**Matrix:** AQUEOUS

**Received Date:** 1/23/2013 11:00:00 AM

| Analyses                                     | Result | RL       | Qual | Units | DF | Date Analyzed        |
|----------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |          |      |       |    | Analyst: RAA         |
| Benzene                                      | ND     | 1.0      |      | µg/L  | 1  | 1/25/2013 3:42:48 AM |
| Toluene                                      | ND     | 1.0      |      | µg/L  | 1  | 1/25/2013 3:42:48 AM |
| Ethylbenzene                                 | 3.3    | 1.0      |      | µg/L  | 1  | 1/25/2013 3:42:48 AM |
| Xylenes, Total                               | 6.0    | 2.0      |      | µg/L  | 1  | 1/25/2013 3:42:48 AM |
| Surr: 1,2-Dichloroethane-d4                  | 87.8   | 70-130   |      | %REC  | 1  | 1/25/2013 3:42:48 AM |
| Surr: 4-Bromofluorobenzene                   | 93.7   | 69.5-130 |      | %REC  | 1  | 1/25/2013 3:42:48 AM |
| Surr: Dibromofluoromethane                   | 95.2   | 70-130   |      | %REC  | 1  | 1/25/2013 3:42:48 AM |
| Surr: Toluene-d8                             | 91.9   | 70-130   |      | %REC  | 1  | 1/25/2013 3:42:48 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1301765

Date Reported: 1/29/2013

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-25D

**Project:** TWP Roswell Station 9

**Collection Date:** 1/21/2013 12:47:00 PM

**Lab ID:** 1301765-002

**Matrix:** AQUEOUS

**Received Date:** 1/23/2013 11:00:00 AM

| Analyses                                     | Result | RL       | Qual | Units | DF | Date Analyzed        |
|----------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |          |      |       |    | Analyst: RAA         |
| Benzene                                      | ND     | 1.0      |      | µg/L  | 1  | 1/25/2013 4:11:04 AM |
| Toluene                                      | ND     | 1.0      |      | µg/L  | 1  | 1/25/2013 4:11:04 AM |
| Ethylbenzene                                 | ND     | 1.0      |      | µg/L  | 1  | 1/25/2013 4:11:04 AM |
| Xylenes, Total                               | ND     | 2.0      |      | µg/L  | 1  | 1/25/2013 4:11:04 AM |
| Surr: 1,2-Dichloroethane-d4                  | 86.3   | 70-130   |      | %REC  | 1  | 1/25/2013 4:11:04 AM |
| Surr: 4-Bromofluorobenzene                   | 93.9   | 69.5-130 |      | %REC  | 1  | 1/25/2013 4:11:04 AM |
| Surr: Dibromofluoromethane                   | 96.9   | 70-130   |      | %REC  | 1  | 1/25/2013 4:11:04 AM |
| Surr: Toluene-d8                             | 92.1   | 70-130   |      | %REC  | 1  | 1/25/2013 4:11:04 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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.

## Analytical Report

Lab Order 1301765

Date Reported: 1/29/2013

**CLIENT:** Cypress Engineering

**Client Sample ID:** MW-23D

**Project:** TWP Roswell Station 9

**Collection Date:** 1/21/2013 1:50:00 PM

**Lab ID:** 1301765-003

**Matrix:** AQUEOUS

**Received Date:** 1/23/2013 11:00:00 AM

| Analyses                                     | Result | RL       | Qual | Units | DF | Date Analyzed        |
|----------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8260: VOLATILES SHORT LIST</b> |        |          |      |       |    | Analyst: RAA         |
| Benzene                                      | ND     | 1.0      |      | µg/L  | 1  | 1/25/2013 4:38:45 AM |
| Toluene                                      | ND     | 1.0      |      | µg/L  | 1  | 1/25/2013 4:38:45 AM |
| Ethylbenzene                                 | ND     | 1.0      |      | µg/L  | 1  | 1/25/2013 4:38:45 AM |
| Xylenes, Total                               | ND     | 2.0      |      | µg/L  | 1  | 1/25/2013 4:38:45 AM |
| Surr: 1,2-Dichloroethane-d4                  | 87.7   | 70-130   |      | %REC  | 1  | 1/25/2013 4:38:45 AM |
| Surr: 4-Bromofluorobenzene                   | 95.1   | 69.5-130 |      | %REC  | 1  | 1/25/2013 4:38:45 AM |
| Surr: Dibromofluoromethane                   | 94.9   | 70-130   |      | %REC  | 1  | 1/25/2013 4:38:45 AM |
| Surr: Toluene-d8                             | 93.3   | 70-130   |      | %REC  | 1  | 1/25/2013 4:38:45 AM |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1301765

29-Jan-13

**Client:** Cypress Engineering  
**Project:** TWP Roswell Station 9

|                             |                                 |     |           |                                                        |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|--------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>b6</b>         | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |      |                    |           |      |          |      |
| Client ID: <b>PBW</b>       | Batch ID: <b>R8243</b>          |     |           | RunNo: <b>8243</b>                                     |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>1/24/2013</b> |     |           | SeqNo: <b>238663</b>                                   |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                            | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 1.0 |           |                                                        |      |                    |           |      |          |      |
| Toluene                     | ND                              | 1.0 |           |                                                        |      |                    |           |      |          |      |
| Ethylbenzene                | ND                              | 1.0 |           |                                                        |      |                    |           |      |          |      |
| Xylenes, Total              | ND                              | 2.0 |           |                                                        |      |                    |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.9                             |     | 10.00     |                                                        | 89.2 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.6                             |     | 10.00     |                                                        | 95.6 | 69.5               | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.7                             |     | 10.00     |                                                        | 97.1 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8            | 9.2                             |     | 10.00     |                                                        | 92.2 | 70                 | 130       |      |          |      |

|                             |                                 |     |           |                                                        |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|--------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID <b>100ng lcs2</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8260: Volatiles Short List</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSW</b>      | Batch ID: <b>R8243</b>          |     |           | RunNo: <b>8243</b>                                     |      |                    |           |      |          |      |
| Prep Date:                  | Analysis Date: <b>1/24/2013</b> |     |           | SeqNo: <b>238664</b>                                   |      | Units: <b>µg/L</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                            | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 18                              | 1.0 | 20.00     | 0                                                      | 91.7 | 70                 | 130       |      |          |      |
| Toluene                     | 19                              | 1.0 | 20.00     | 0                                                      | 96.8 | 80                 | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.7                             |     | 10.00     |                                                        | 87.5 | 70                 | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 9.3                             |     | 10.00     |                                                        | 93.1 | 69.5               | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 9.5                             |     | 10.00     |                                                        | 94.5 | 70                 | 130       |      |          |      |
| Surr: Toluene-d8            | 9.4                             |     | 10.00     |                                                        | 93.8 | 70                 | 130       |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

# Sample Log-In Check List

Client Name: CYP Work Order Number: 1301765

Received by/date: AG 01/23/13

Logged By: Anne Thorne 1/23/2013 11:00:00 AM *Anne Thorne*

Completed By: Anne Thorne 1/23/2013 *Anne Thorne*

Reviewed By: IO 01/23/2013

## Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

## Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

|                      |       |       |                                                                                                                               |
|----------------------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------|
| Person Notified:     | _____ | Date: | _____                                                                                                                         |
| By Whom:             | _____ | Via:  | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | _____ |       |                                                                                                                               |
| Client Instructions: | _____ |       |                                                                                                                               |

18. Additional remarks:

## 19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 4.5     | Good      | Yes         |         |           |           |



