

AP - 91

# ANNUAL MONITORING REPORT

YEAR(S):  
2010



## **2010 ANNUAL GROUNDWATER MONITORING REPORT**

**8" MOORE TO JAL #1**

**SE ¼ OF THE NW ¼ OF SECTION 16, TOWNSHIP 17 SOUTH, RANGE 37 EAST  
LEA COUNTY, NEW MEXICO**

**PLAINS SRS #2002-10270**

**NMOCD REF. # AP-91**

AMARILLO  
921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

AUSTIN  
911 West Anderson Lane  
Suite 202  
Austin, Texas 78757  
Phone 512.989.3428  
Fax 512.989.3487

MIDLAND  
2901 State Highway 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

SAN ANTONIO  
11 Commercial Place  
Schertz, Texas 78154  
Phone 210.265.8025  
Fax 210.568.2191

TULSA  
525 South Main Street  
Suite 535  
Tulsa, Oklahoma 74103  
Phone 918.742.0871  
Fax 918.382.0232

HOBBS  
318 East Taylor Street  
Hobbs, New Mexico 88241  
Phone 505.393.4261  
Fax 505.393.4658

ARTESIA  
408 W. Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 505.746.8905

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
EMERGENCY RESPONSE

**PREPARED FOR:**

**PLAINS PIPELINE, L.P.**

333 Clay Street

Suite 1600

Houston, Texas 77002

**PREPARED BY:**

**TALON/LPE**

2901 S. State Highway 349

Midland, Texas 79706

### **DISTRIBUTION:**

**COPY 1 - PLAINS PIPELINE, L.P. – DENVER CITY**

**COPY 2 - PLAINS PIPELINE, L.P. - HOUSTON**

**COPY 3 - NMOCD - HOBBS**

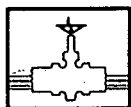
**COPY 4 - NMOCD - SANTA FE**

**COPY 5 - NMSLO - SANTA FE**

**COPY 6 - TALON/LPE**

March 11, 2011

Toll Free: 866.742.0742  
www.talonlpe.com



PLAINS  
ALL AMERICAN

RECEIVED OCD

March 23, 2011

2011 MAR 31 A 11: 55

Mr. Edward Hansen  
New Mexico Oil Conservation Division  
Environmental Bureau  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Re: Plains All American – 2010 Annual Monitoring Reports  
6 Sites in Lea County, New Mexico

Dear Mr. Hansen:

Plains All American is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains All American actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains All American hereby submits our Annual Monitoring reports for the following sites:

|                         |                 |                                    |
|-------------------------|-----------------|------------------------------------|
| 8-inch Moore to Jal #1  | AP-91 (1R-0380) | Section 16, T17S, R37E, Lea County |
| 8-inch Moore to Jal #2  | AP-92 (1R-0381) | Section 16, T17S, R37E, Lea County |
| C.S. Cayler             | AP-052          | Section 06, T17S, R37E, Lea County |
| Hobbs Junction Mainline | AP-054          | Section 26, T18S, R37E, Lea County |
| Kimbrough Sweet 8-inch  | AP-0029         | Section 03, T18S, R37E, Lea County |
| Lovington Deep 6-inch   | AP-037          | Section 03, T18S, R37E, Lea County |

Talon/LPE (Talon) prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed Talon personnel in order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above facilities.

If you have any questions or require further information, please contact me at (575) 441-1099.

Sincerely,

Jason Henry  
Remediation Coordinator  
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

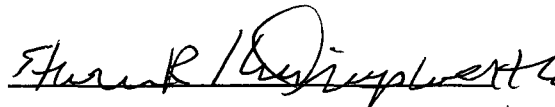
Enclosures

# 2010 ANNUAL GROUNDWATER MONITORING REPORT

8" MOORE TO JAL #1  
LEA, COUNTY, NEW MEXICO  
SRS #2002 - 10270  
NMOCD REF. # AP-91

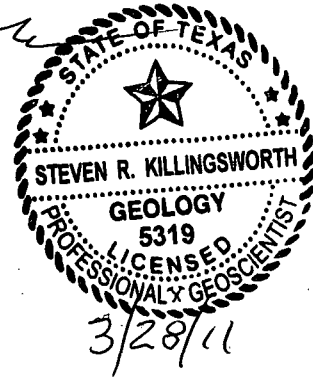
TALON/LPE PROJECT NO. 700376.044.01

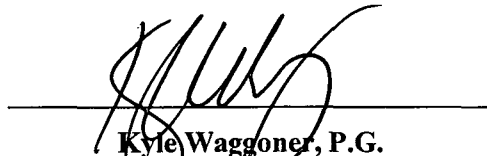
Prepared by:



Steven R. Killingsworth, P.G.

Senior Project Manager





Kyle Waggoner, P.G.

Regional Manager

TALON/LPE  
2901 S. STATE HIGHWAY 349  
MIDLANDEXAS 79706

March 2011



# Distribution List

| Name            | Title                           | Company or Agency | Mailing Address                                    | e-mail                       |
|-----------------|---------------------------------|-------------------|----------------------------------------------------|------------------------------|
| Ed Hansen       | Environmental Engineer          | NMOCD             | 1220 South St. Francis Drive<br>Santa Fe, NM 87505 | edwardjhansen@state.nm.us    |
| Geoffrey Leking | Environmental Engineer          | NMOCD             | 1625 French Dr.<br>Hobbs, NM 88231                 | GeoffreyR.Leking@state.nm.us |
| Brian Henington | Environmental Engineer          | NMSLO – Santa Fe  | P.O. Box 1148<br>Santa Fe, NM 87504                | bhenington@slo.state.nm.us   |
| Jason Henry     | Remediation Coordinator         | Plains Pipeline   | 2530 Highway 214<br>Denver City, TX 79323          | jhenry@paalp.com             |
| Jeff Dann       | Senior Environmental Specialist | Plains Pipeline   | P. O. Box 4648<br>Houston, TX 77210-4648           | jpdann@paalp.com             |
| File            |                                 | Talon/LPE         | 2901 S. St. Hwy 349<br>Midland, Texas 79706        | skillingsworth@talonlpe.com  |

NMOCD - New Mexico Oil Conservation Division  
NMSLO - New Mexico State Land Office

## TABLE OF CONTENTS

---

|            |                                                                      |                                     |
|------------|----------------------------------------------------------------------|-------------------------------------|
| <b>1.0</b> | <b>INTRODUCTION AND OBJECTIVES .....</b>                             | <b>3</b>                            |
| 1.1        | Site Background .....                                                | 3                                   |
| 1.2        | Site Geology .....                                                   | 3                                   |
| 1.3        | Previous Environmental Investigations .....                          | 4                                   |
| 1.4        | Regulatory Framework .....                                           | 4                                   |
| <b>2.0</b> | <b>SITE ACTIVITIES.....</b>                                          | <b>6</b>                            |
| 2.1        | Groundwater Monitoring Activities .....                              | 6                                   |
| 2.2        | Groundwater Gauging, Purging, and Sampling Procedures .....          | 7                                   |
| 2.3        | Phase Separated Hydrocarbon Recovery .....                           | 7                                   |
| <b>3.0</b> | <b>GROUNDWATER MONITORING RESULTS.....</b>                           | <b>9</b>                            |
| 3.1        | Groundwater Monitoring Results.....                                  | 9                                   |
| 3.1.1      | <i>Physical Characteristics of the First Water-Bearing Zone.....</i> | <i>9</i>                            |
| 3.1.2      | <i>Groundwater Gradient and Flow Direction .....</i>                 | <i>9</i>                            |
| 3.1.3      | <i>Phase Separated Hydrocarbon (PSH) .....</i>                       | <i>10</i>                           |
| 3.1.4      | <i>Groundwater Analytical Results .....</i>                          | <i>10</i>                           |
| <b>4.0</b> | <b>CONCLUSIONS AND RECOMMENDATIONS .....</b>                         | <b>13</b>                           |
| 4.1        | Summary of Findings.....                                             | 13                                  |
| 4.2        | Recommendations .....                                                | <b>Error! Bookmark not defined.</b> |

## **APPENDICES**

---

### **Appendix A Drawings**

Figure 1 - Site Plan with Proposed Monitor Well Locations  
Figure 2a - Groundwater Gradient Map - 02/17/2010  
Figure 2b - Groundwater Gradient Map - 06/02/2010  
Figure 2c - Groundwater Gradient Map - 09/23/2010  
Figure 2d - Groundwater Gradient Map - 12/29/2010  
Figure 3a - PSH Thickness & Groundwater Concentration Map - 02/17/2010  
Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/02/2010  
Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/23/2010  
Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/29/2010

### **Appendix B Tables**

Table 1 - Summary of Historical Fluid Level Measurements  
Table 2 - Summary of Groundwater Analytical Results  
Table 3 - Summary of Groundwater Poly-Aromatic Hydrocarbon (PAH)  
Analytical Results  
Table 4 - Summary of Groundwater Analytical Results from Monitor Wells  
Impacted with PSH

### **Appendix C Laboratory Analytical Data Reports and Chains of Custody Documentation**

### **Appendix D NMOCD C-141**

## **1.0 INTRODUCTION AND OBJECTIVES**

---

### **1.1 Site Background**

The 8" Moore to Jal #1 release site is located approximately 9.2 miles southeast of Lovington, in Lea County, New Mexico. The site is located within the West Lovington Oil Field on land owned by the State of New Mexico. No residence or surface water features are located within a 1,000-foot radius of the site.

The site is situated in a physio-geographic area that is on the extreme south-western portion of the Southern High Plains as it grades into the Edwards Plateau to the south and southeast and the Chihuahuan Desert of the Trans-Pecos Region to the southwest.

The topography proximal to the site is typical of the Southern High Plains, essentially flat with shallow depressions, or playa lakes, dotting the landscape. The prominent surface features on the Southern High Plains are the approximately 19,250 ephemeral playa lakes; however, the density of the playa lakes diminishes toward the southern extent of the Southern High Plains. During periods of rainfall, the playas accumulate sheet runoff from watershed areas ranging in size from less than one square mile to several square miles. Only a small portion of drainage from rainfall occurs by streams. Playa lakes that collect storm water runoff can act as a recharge mechanism for groundwater.

The average elevation of the site and surrounding area is approximately 3,770-feet above mean sea level with a slight slope to the southeast. The regional slope of the land surface in the Southern High Plains is approximately 100 feet per mile in a southeasterly direction.

In October 2002, a release of approximately 200 barrels (bbls) occurred from a Plains Pipeline, L.P. (Plains) pipeline at the site. Approximately 8,000 square feet of surface area was impacted by the release. Soil excavation and over-excavation activities were initiated in October 2002 and that activity is documented in the "Soil Over-Excavation Report and Backfill Workplan", dated May 23, 2006.

Talon/LPE (Talon) has been retained by Plains to conduct quarterly groundwater monitoring activities and operation and maintenance of the phase separated hydrocarbon (PSH) recovery system.

### **1.2 Site Geology**

The surface deposits in Lea County are composed of Blackwater Draw (Illinoian) sediments, Ogallala sediments and undivided Quaternary alluvium, which is also termed 'cover sands'. The soil in the upper two (2) feet at the site composed of gravelly loam that consists of 43% sand, 18% clay and 40% silt and also contains abundant eroded gravel to cobble size caliche fragments. Below the top soil is predominately unconsolidated sand to weakly cemented sandstone which has undergone calichification of varying extent.

Below the Blackwater Draw Formation is the Ogallala Formation of Miocene to Pliocene age. The Ogallala Formation was deposited from sediments eroded from the Southern

Rockies and consists mostly of eolian sediments, silty to very fine sand or loess. During the middle to late Miocene, the Ogallala was deposited by fluvial mechanism as paleo-valley fill composed of gravelly to sandy braided stream deposits that trended west to east across the Southern High Plains. During the late Miocene the west to east drainage was diverted (captured) by the Pecos River. Subsequently, the Pecos River basin has experienced deflation, which facilitated eolian deposition on the Southern High Plains during the Pliocene.

### **1.3 Previous Environmental Investigations**

Currently, a total of thirty-six (36) monitor wells have been installed proximal to the release point (see Figure 1). The first monitor well (MW-1), installed July 2004, was completed with a screened interval below the potentiometric surface. The second monitor well (MW-1A) was installed in September 2004, and PSH entered the casing immediately upon completion of the well. Subsequently, three (3) additional monitor wells (MW-2, MW-3, and MW-4) were installed in October of 2004, and PSH entered the casing on those wells.

In November 2007, sixteen (16) additional groundwater monitor wells were installed as proposed in the "Monitor Well Installation Workplan Moore to Jal #1", dated January 26, 2007. The purpose of the sixteen (16) monitor wells (MW-5–MW-20) was to further delineate the extent of the PSH and dissolved phase plumes. In addition to the sixteen (16) monitor well installations, monitor wells MW-1 and MW-4 were plugged and abandoned (P&A'd) on March 14, 2007 and re-drilled as new groundwater monitor wells, MW-1A and MW-4A. Of the sixteen monitor wells that were installed, ten (10), (MW-4A, MW-5 through MW-12, and MW-15), are impacted with PSH.

During the year 2010, a total of eleven (11) specific gravity skimmers with bladder pumps were in operation in monitor wells MW-2, MW-3, MW-5, MW-7 through MW-13, and MW-15. In addition, a total of three (3) total fluids pumps are operating in monitor wells MW-1A, MW-4A, and MW-6. This pump configuration is designed to enhance PSH recovery and inhibit migration of the PSH plume.

During 2010, sixteen (16) additional monitor wells were installed at the site (MW-21 through MW-36) to further delineate the PSH and dissolved-phase plumes. Monitor wells MW-24, MW-25, and MW-30 through MW-31 are impacted with PSH. Additional skimmers with bladder pumps were installed in monitor wells MW-24 and MW-25. Currently, the PSH recovery system is composed of thirteen (13) skimmers with bladder pumps and three (3) pneumatic total fluid pumps.

PSH recovery operations have been performed at the site since 2004. During 2010 approximately 174 barrels (bbls) of crude oil and 9,391 bbls of water were recovered by the system and approximately 571 bbls of crude oil has been recovered by the system to date.

### **1.4 Regulatory Framework**

Groundwater analytical data collected from this site was evaluated to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards outlined in the table below.

| <b>New Mexico Water Quality Control Commission (NMWQCC)<br/>groundwater standards</b> |             |
|---------------------------------------------------------------------------------------|-------------|
| <b>Compound</b>                                                                       | <b>mg/L</b> |
| Benzene                                                                               | 0.010       |
| Toluene                                                                               | 0.750       |
| Ethylbenzene                                                                          | 0.750       |
| Total Xylenes                                                                         | 0.620       |
| PAH (Naphthalene)                                                                     | 0.030       |
| PAH (Benzo[a]-pyrene)                                                                 | 0.007       |

The sections that follow provide summaries of the groundwater monitoring activities conducted at the subject site as well as analytical results from each groundwater sampling event of 2010. Analytical results for the four (4) sampling events are summarized in Table 2, and Table 3 in Appendix B, and Figures 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C. Historic fluid level measurements are included on Table 1 in Appendix B and gradient maps are provided as Figures 2a through 2d in Appendix A. In addition, this report with all attachments are provided on the attached CD, which is an adjunct to this report.

## **2.0 SITE ACTIVITIES**

---

The sections that follow summarize groundwater monitoring and PSH recovery activities conducted at the subject site during 2010. The primary focus of groundwater monitoring activities is to measure depth to fluid measurements and collect groundwater samples from monitor wells for laboratory analysis. The objective of groundwater monitoring is to evaluate the status of the dissolved-phase and PSH plumes in order to verify the effectiveness of the remediation system as to inhibiting plume migration, reducing the volume of PSH impacting the groundwater and determining if modifications to the remediation system would improve its performance and efficiency.

### **2.1 Groundwater Monitoring Activities**

A total of four (4) groundwater monitoring events were conducted by Talon during the year 2010 on February 17, June 2, September 23-27, and December 29. During all of the groundwater monitoring events, the depths to fluids were measured in all of the monitoring wells using an oil/water interface probe.

During the February groundwater monitoring events, six (6) monitor wells, (MW-14 and MW-16 through MW-20), were purged a minimum of three casing volumes and groundwater samples were collected. Groundwater samples were not collected from fourteen (14) monitor wells, MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13 and MW-15, due to the presence of PSH.

During the June groundwater monitoring event, thirteen (13) monitor wells, (MW-14, MW-16 through MW-23, and MW-26 through MW-29), were purged a minimum of three casing volumes and groundwater samples were collected. Groundwater samples were not collected from sixteen (16) monitor wells, MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13, MW-15, MW-24 and MW-25 due to the presence of PSH.

During the September groundwater monitoring event, sixteen (16) monitor wells, (MW-14, MW-16 through MW-23, MW-26 through MW-29, and MW-34 through MW-36), were purged a minimum of three casing volumes and groundwater samples were collected. Groundwater samples were not collected from sixteen (16) monitor wells, MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13, MW-15, MW-24 and MW-25 due to the presence of PSH.

During the December groundwater monitoring event, ten (10) monitor wells, (MW-16, MW-17 through MW-20, MW-22, MW-23, MW-26, MW-27, and MW-34), were purged a minimum of three casing volumes and groundwater samples were collected. Groundwater samples were not collected from twenty-six (26) monitor wells, MW-1A through MW-15, MW-21, MW-24, MW-25, MW-28 through MW-33, MW-35, and MW-36 due to the presence of PSH.

Details of the gauging, purging, and sample collection activities are presented in Section 2.2.

## **2.2 Groundwater Gauging, Purging, and Sampling Procedures**

During each groundwater monitoring event, all monitor wells were measured with an oil/water interface probe to determine static water levels and to determine the thickness of PSH accumulations if present. The data collected from measurements was used to construct groundwater gradient maps and PSH thickness maps. The results of the measured depths to fluids collected during each of the four (4) events, are incorporated in Table 1 – Summary of Historical Fluid Level Measurements.

Subsequent to gauging, all monitor wells were purged using a down-hole pump equipped with vinyl tubing. The pump and tubing were decontaminated with Alconox® detergent and rinsed with distilled water after each use. Recovered purge water and water used in the decontamination process was contained in on-site 55-gallon drums. After the groundwater monitoring event, all retained water was removed with a vacuum truck. Approximately 755 gallons of purged groundwater and decontamination water during the monitoring events of 2010.

Groundwater samples were collected from all monitor wells using dedicated disposable polyethylene bailers. The groundwater samples were contained in laboratory supplied 40-ml VOA sample vials with the appropriate preservative required for the analysis requested. The groundwater samples were maintained on ice, in the custody of Talon personnel, until they were delivered to TraceAnalysis, Inc. in Midland, Texas for analyses.

The groundwater samples collected during the all four events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B. During the December event, a sample was collected from monitor well MW-16, which was quantified for and poly-nuclear aromatic hydrocarbons (PAH) using EPA Method SW-846 8270C.

## **2.3 Phase Separated Hydrocarbon Recovery**

PSH recovery has been conducted at the site since 2004, initially by hand bailing and then by using pneumatic pumps. In October of 2008, Talon installed a pneumatic skimmer system at the site. During the year 2010, a total of eleven (11) specific gravity skimmers and bladder pumps operated in monitor wells MW-2, MW-3, MW-5, MW-7 through MW-13, and MW-15. In addition, a total of three (3) total fluids pumps operated in monitor wells MW-1A, MW-4A, and MW-6 during 2010. The total fluids pumps were effective for increasing PSH recovery and inhibiting PSH plume and dissolved-phase migration. Two (2) skimmers were added to the system in monitor wells MW-24 and MW-25 in October of 2010. Talon personnel performed a minimum of weekly maintenance to the remediation system to ensure efficient operation and to minimize down time.

PSH recovered by the skimmer system and total fluids pumps was expelled to an on-site 350 barrel frac tank, which is monitored for the accumulation of water and PSH on a weekly basis. PSH is removed from the recovery tank periodically using a vacuum truck and is re-introduced to the Plains' pipeline system at the Scharb Station and/or 34 Junction South pipeline. Water is also removed from the recovery tank periodically with a vacuum truck and transferred to a disposal facility.



During 2010 the quarterly PSH and groundwater recovery totals are as follows:

- 1<sup>st</sup> Quarter - 13 bbls crude oil and 1,228 bbls of groundwater
- 2<sup>nd</sup> Quarter - 60 bbls crude oil and 3,000 bbls of groundwater
- 3<sup>rd</sup> Quarter - 73 bbls crude oil and 2,775 bbls of groundwater
- 4<sup>th</sup> Quarter - 28 bbls of crude oil and 1,912 bbls of groundwater

A total of approximately 571 bbls of PSH have been recovered at the subject site to date by both hand bailing and from the PSH recovery system since PSH recovery was initiated.

### **3.0 GROUNDWATER MONITORING RESULTS**

---

The results of the laboratory analyses are summarized in Table 2 – Summary of Groundwater Analytical Data in Appendix B. Laboratory analytical data reports and chains of custody documentation are provided in Appendix C. In addition, cumulative historical data is included with this report on the CD that is an adjunct to this report.

#### **3.1 Groundwater Monitoring Results**

The following sections present the results from the four (4) groundwater monitoring events conducted at the subject site.

##### **3.1.1 Physical Characteristics of the First Water-Bearing Zone**

The primary groundwater resource under the Southern High Plains, including the site, is referred to as the Ogallala Aquifer or High Plains Aquifer. The Southern portion of the Ogallala aquifer underlies an area of about 29,000 square miles (mi<sup>2</sup>) in western Texas and eastern New Mexico, encompassing all or part of 31 counties in Texas and 6 counties in New Mexico.

The Ogallala Aquifer has experienced acute depletion from extensive irrigation and urban demand, which have exceeded the average annual recharge rate. Recharge of the Ogallala Aquifer on the Southern High Plains occurs predominately from rainfall runoff that accumulates in ephemeral streams and playa lakes as well as direct recharge in areas that contain permeable soils such as sand hills. Recharge rates vary depending on mechanism, but averages from 0 to 1.6 inches per year.

The Ogallala Aquifer is generally unconfined and the potentiometric surface generally mirrors the land surface elevation with the regional flow direction from the northwest to the southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot and specific yield averages 16%. The depth to groundwater at the site has historically ranged from 64 to 72 feet below ground surface (bgs) and the groundwater flow direction is to the southeast at an average of 20 feet per mile.

The composition of Ogallala groundwater is defined as mixed-cation-HCO<sub>3</sub>, therefore, Ogallala groundwater is considered hard. Problems with scale have occurred with residential and commercial water systems that use Ogallala groundwater and often treatment strategies are employed to reduce the effects of scale. The typical total dissolved solids of Ogallala groundwater in the Hobbs-Lovington area is generally less than 1,000 mg/L (ppm) in areas not impacted by oil-field brines with an average pH of 7.3.

##### **3.1.2 Groundwater Gradient and Flow Direction**

The depth to fluid measurements was collected during each of the four (4) groundwater monitoring events during the year 2010. The results of the fluid level measurements are summarized in Table 1 - Summary of Historical Fluid Level Measurements in Appendix B. In addition, cumulative historical gauging data is located in the tables section on the CD that is an adjunct to this report.

The collected data was used to construct potentiometric surface maps in order to interpret the groundwater gradient and flow direction. The maps, designated Figures 2a through 2d, are presented in Appendix A.

The potentiometric surface maps constructed for each of the four (4) groundwater monitoring events indicates that the groundwater flow direction is to southeast at an approximate gradient of 0.0039 feet/foot or 21 feet per mile. Groundwater levels at the subject site have exhibited a steady decline of an average of 1.26 feet for monitor well impacted with PSH and 0.78 feet for monitor wells not impacted with PSH. The decline in groundwater levels appears to be associated with a regional trend of declining groundwater levels for the Ogallala Aquifer.

### 3.1.3 Phase Separated Hydrocarbon (PSH)

An oil/water interface probe was used to determine the thicknesses of PSH during the four (4) groundwater monitoring events. Generally, PSH thicknesses have fluctuated from quarter to quarter during 2010 but have exhibited an overall increase by an average of 2.08 feet. The increase of PSH thicknesses has ranged from a sheen to 4.01 feet during the year 2010. Monitor wells MW-1A, MW-5, MW-24 and MW-25 exhibited declines in thicknesses of PSH ranging from 0.48 feet to 5.43 feet in MW-1A.

In addition to potentiometric surface maps, isopleth maps were prepared depicting the measured PSH thicknesses and PSH plume geometry. PSH plume delineation and thickness maps are presented in Appendix A as Figures 3a through 3d. Currently, the PSH plume is not delineated cross-gradient to the northeast by the current monitor well array.

### 3.1.4 Groundwater Analytical Results

During the first quarter, February 2010, groundwater monitoring event, groundwater samples were collected from monitor wells MW-14 and MW-16 through MW-20. Samples were not collected from monitor wells MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13, and MW-15 due to the presence of PSH. Groundwater samples collected during the event exhibited the following analytical results:

- Benzene concentrations ranged from <0.00100 mg/L to 39.6 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-14, and MW-16.
- Toluene concentrations ranged from <0.00100 mg/L to 8.18 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater samples collected from monitor wells MW-14 and MW-16.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.40 mg/L. Ethylbenzene concentrations exceed the NMWQCC groundwater standard of 0.750 mg/L in the groundwater samples collected from monitor wells MW-14 and MW-16.
- Xylene concentrations ranged from 0.00100 mg/L to 4.07 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater samples collected from monitor wells MW-14 and MW-16.

During the second quarter, June 2010 sampling event, groundwater samples were collected from monitor wells MW-14, MW-16 through MW-23, and MW-26 through MW-29. Samples were not collected from monitor wells MW-1A, MW-2, MW-3, MW-4A, MW-5

through MW-13, MW-15, MW-24 and MW-25 due to the presence of PSH. The groundwater samples that were collected exhibited the following analytical results:

- Benzene concentrations ranged from <0.00100 mg/L to 42.4 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-14, MW-16, MW-20, and MW-27 through MW-29.
- Toluene concentrations ranged from <0.00100 mg/L to 7.28 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater samples collected from monitor wells MW-14, MW-16 and MW-29.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.18 mg/L. The Ethylbenzene concentration exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-16.
- Xylene concentrations ranged from <0.00100 mg/L to 2.44 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater samples collected from monitor wells MW-14, MW-16, and MW-29.

During the third quarter, September 2010 sampling event, groundwater samples were collected from monitor wells MW-14, MW-16 through MW-23, MW-26 through MW-29, and MW-34 through MW-36. Samples were not collected from monitor wells MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-13, MW-15, MW-24, MW-25, and MW-30 through MW-33 due to the presence of PSH. The groundwater samples that were collected exhibited the following analytical results:

- Benzene concentrations ranged from <0.00100 mg/L to 29.7 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-14, MW-16 and MW-29.
- Toluene concentrations ranged from <0.00100 mg/L to 4.29 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in groundwater samples collected from monitor wells MW-14, MW-16 and MW-29.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.996 mg/L. Ethylbenzene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in groundwater samples collected from monitor well MW-16.
- Xylene concentrations ranged from <0.00100 mg/L to 1.90 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in groundwater samples collected from monitor wells MW-16 and MW-29.

During the fourth quarter, December 2010 sampling event, groundwater samples were collected from monitor wells MW-16, MW-17 through MW-20, MW-22, MW-23, MW-26, MW-27 and MW-34. Samples were not collected from monitor wells MW-1A, MW-2, MW-3, MW-4A, MW-5 through MW-21, MW-24, MW-25, and MW-28 through MW-33 due to the presence of PSH. The groundwater samples that were collected exhibited the following analytical results:

- Benzene concentrations ranged from <0.00100 mg/L to 0.00790 mg/L. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from any of the monitor wells.
- Toluene concentrations did not exceed the reporting limit of <0.00100 mg/L;

therefore, toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in groundwater samples collected from any of the monitor wells.

- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.00320 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the groundwater samples collected.
- Xylene concentrations ranged from <0.00100 mg/L to 0.00810 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the groundwater samples collected from the monitor wells.
- The naphthalene concentration in the MW-16 sample was quantified at 0.0394 mg/L. The naphthalene concentration exceeded the NMWQCC groundwater standard of 0.030 mg/L in the MW-16 sample. No other concentration of poly-nuclear aromatic hydrocarbon (PAH) has exceeded the NMWQCC groundwater standard in the MW-16 groundwater sample.

Down-gradient monitor wells MW-28 and MW-29 have exhibited concentrations exceeding the NMWQCC groundwater standard and during the fourth quarter groundwater monitoring event those wells have exhibited a sheen of PSH. This indicates that the dissolved-phase plume is not stable and appears to be migrating down-gradient and currently, the groundwater dissolved-phase plume is not delineated down-gradient.

The results of the laboratory analyses are summarized in Table 2 – Summary of Groundwater Analytical Results in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C. In addition, cumulative historical analytical data is located in the tables section on the CD that is an adjunct to this report.

## **4.0 CONCLUSIONS AND RECOMMENDATIONS**

---

The following section presents a summary of findings in regards to the four (4) groundwater monitoring events and provides recommendations for future corrective action.

### **4.1 Summary of Findings**

- The groundwater flow direction is to southeast at an approximate gradient of 0.0039 feet/foot or 21 feet per mile.
- Groundwater levels at the subject site have exhibited a steady decline for the year 2010 that appears to be associated with a regional trend of declining groundwater levels for the Ogallala Aquifer.
- Generally, PSH thicknesses have fluctuated from quarter to quarter during the year 2010, but the PSH thicknesses have exhibited an overall increase averaging 2.08 feet.
- Currently, the PSH plume is not delineated by the current monitor well array cross-gradient to the southeast.
- Down-gradient monitor wells MW-28 and MW-29 have exhibited concentrations exceeding the NMWQCC groundwater standard and during the fourth quarter groundwater monitoring event those wells have exhibited a sheen of PSH. This indicates that the dissolved-phase plume is not stable and appears to be migrating down-gradient and currently, the groundwater dissolved-phase plume is not delineated down-gradient.
- The PSH recovery system has removed 174 bbls of crude oil from the groundwater during 2010 indicating that the system is performing its function.

## **4.2 Recommendations**

Based upon the results of the four (4) quarterly groundwater monitoring events and PSH recovery efforts, Talon proposes the following actions:

- Continue operation and maintenance of the skimmer/bladder pump and total fluids pumps recovery system. Monitor the system on a weekly basis to optimize PSH recovery efficiency.
- Add or reposition pumps as necessary to optimize PSH recovery and inhibit plume migration.
- Perform quarterly groundwater monitoring events in accordance with NMOCD directives.
- Install a poly-line and transfer pump to dispose of recovered groundwater more efficiently directly to a disposal facility. Add total fluid pumps to recovery wells in order to increase PSH recovery. In addition, this retrofit should increase system run time thereby inhibit migration of the PSH and dissolve-phase plumes.

## **APPENDIX A**

### **Figures**

**Figure 1 - Site Plan with Proposed Monitor Well Locations**

**Figure 2a - Groundwater Gradient Map - 02/17/2010**

**Figure 2b - Groundwater Gradient Map - 06/02/2010**

**Figure 2c - Groundwater Gradient Map - 09/23/2010**

**Figure 2d - Groundwater Gradient Map - 12/28/2010**

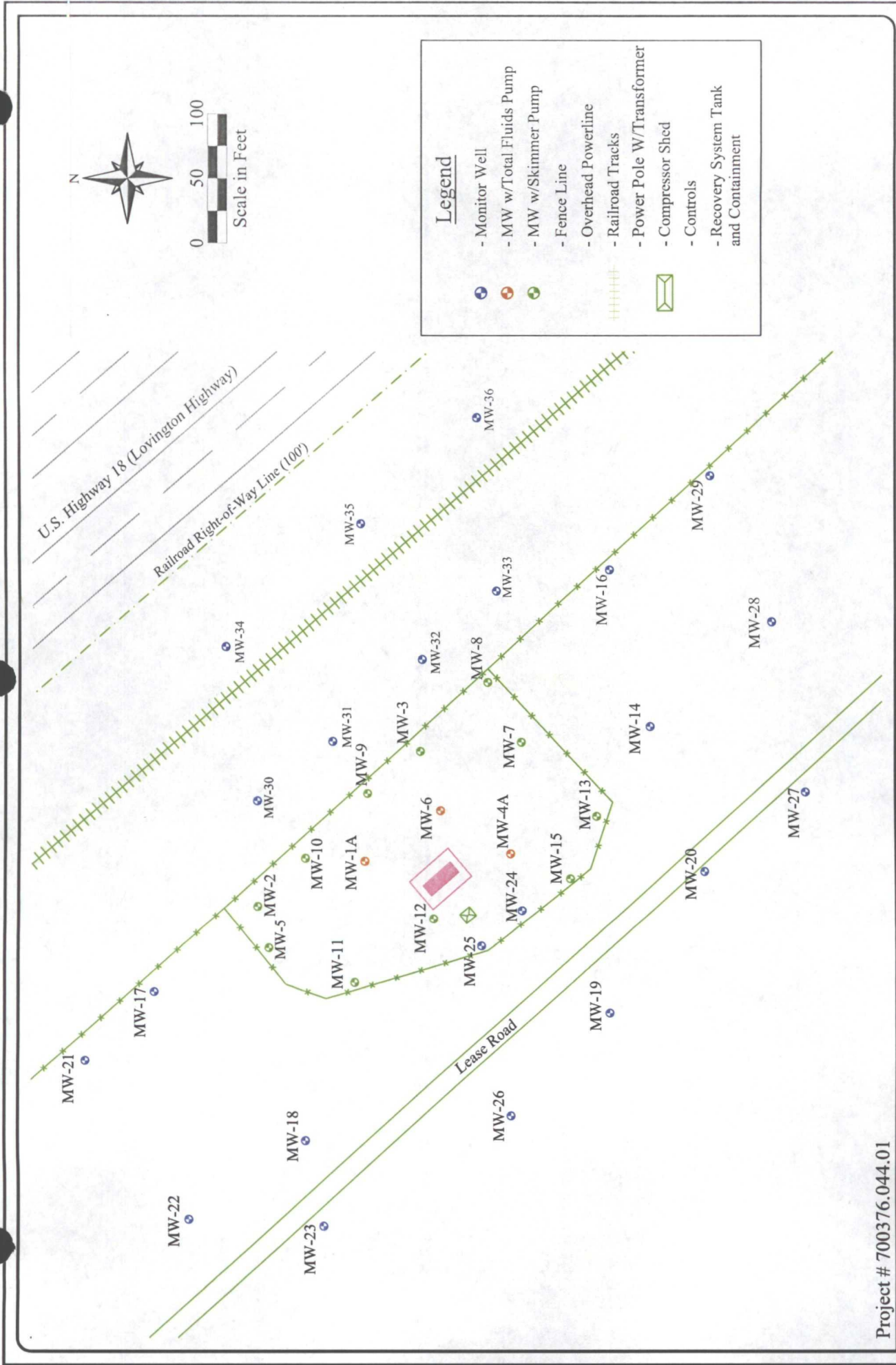
**Figure 3a - PSH Thickness & Groundwater Concentration Map - 02/17//2010**

**Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/02/2010**

**Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/23/2010**

**Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/28/2010**



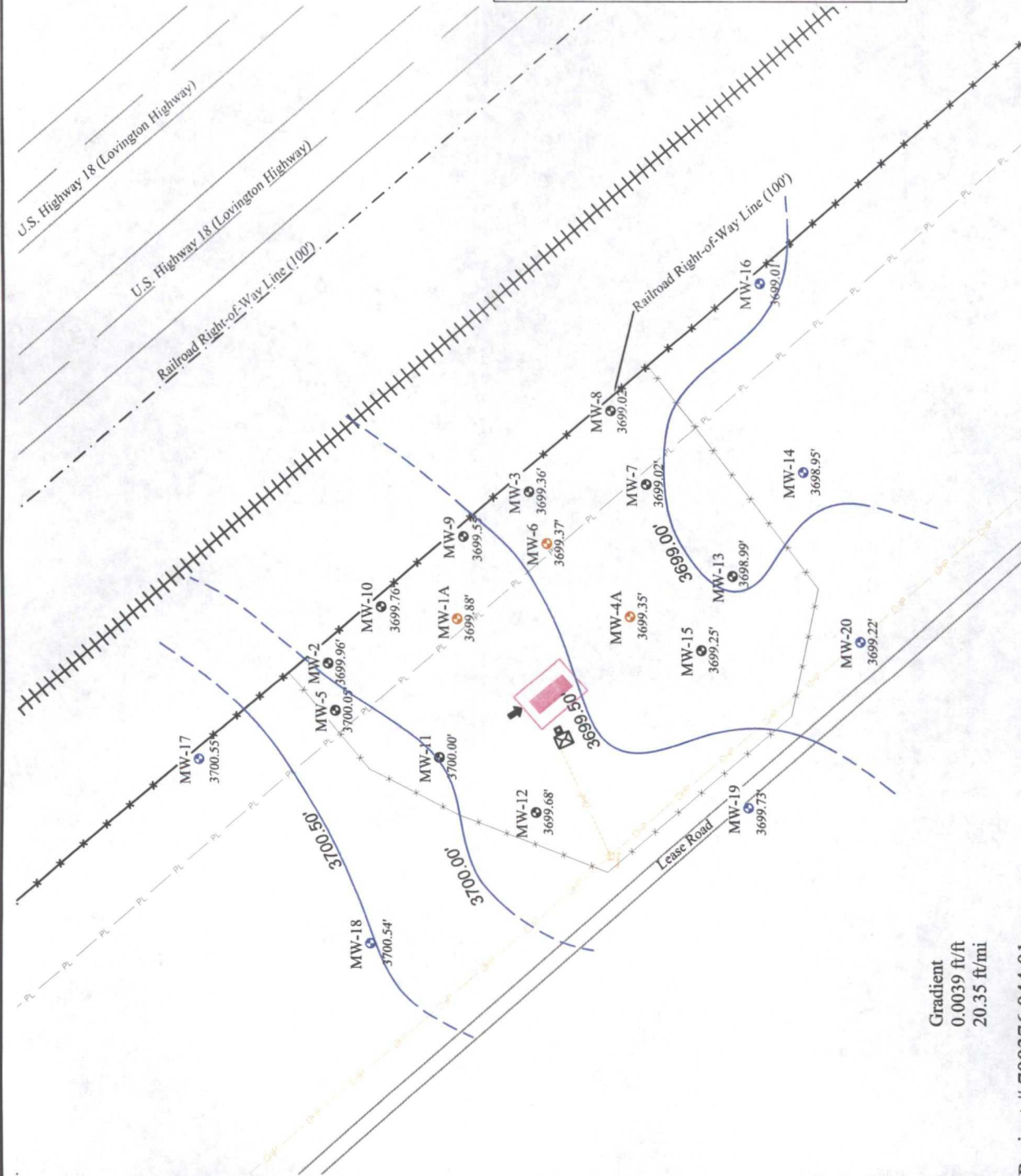


Project # 700376.044.01



Date: 06/18/2010  
 Scale: 1" = 100'  
 Drawn By: TJS

8" Moore to Jal #1  
 SRS # 2002-10270, NMOCD REF. # AP-91  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 1 - Site Plan



Gradient  
0.0039 ft/ft  
20.35 ft/mi

Project # 700376.044.01



Date: 03/25/2010

Scale: 1" = 100'

Drawn By: TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91  
9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
Figure 2a - Groundwater Gradient Map - 02/17/2010





0 50 100  
Scale in Feet

### Legend

- Monitor Well
- MW w/Total Fluids Pump
- MW w/Skimmer Pump
- Fence Line
- Overhead Powerline
- Railroad Tracks
- Power Pole W/Transformer
- Compressor Shed
- Controls
- Recovery System Tank and Containment



Project # 700376.044.01



Date: 06/18/2010

Scale: 1" = 100'

Drawn By: TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

9.2 Miles SE of Lovington, NM, Lea County, New Mexico

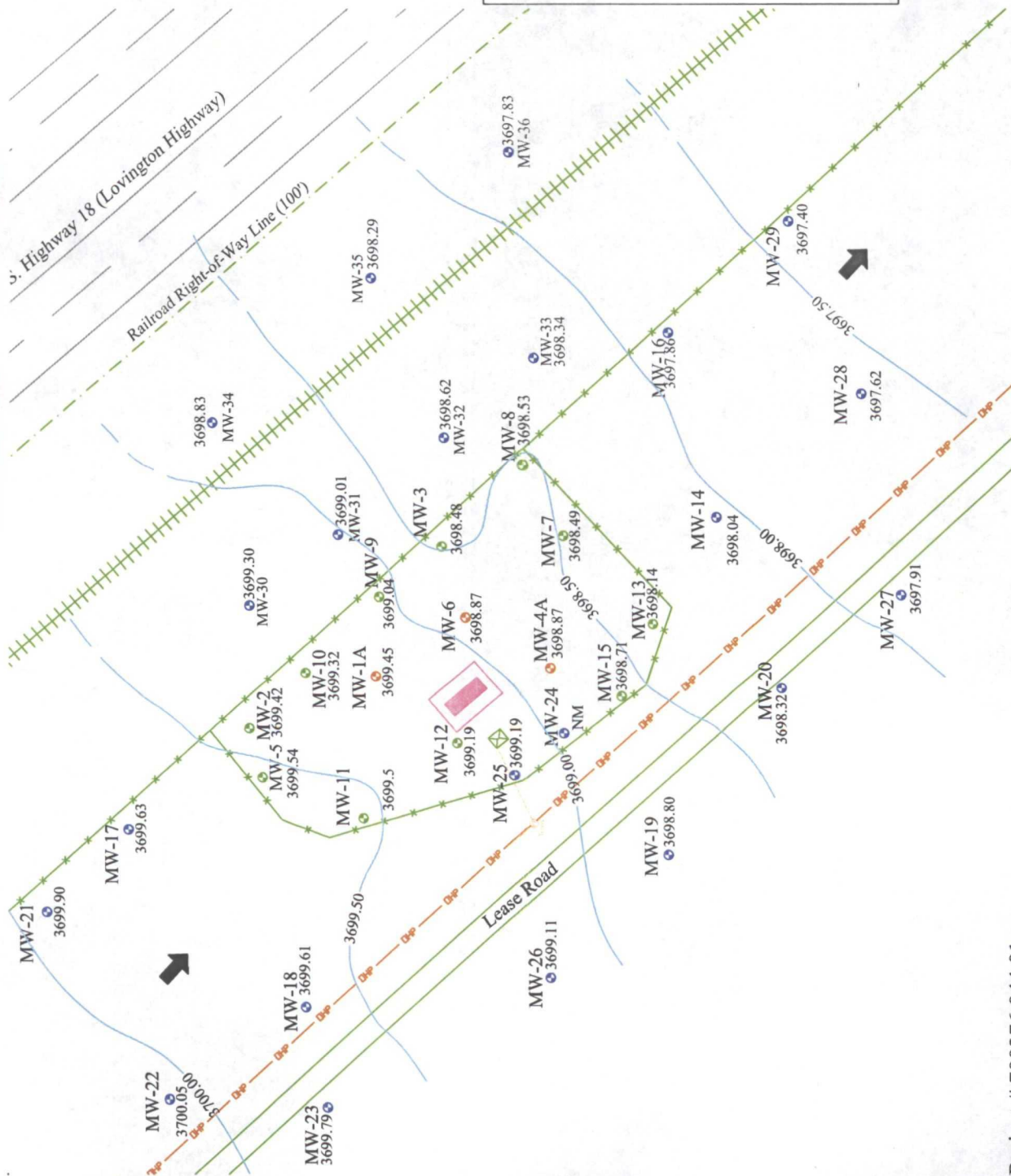
Figure 2b - Groundwater Gradient Map (06/02/2010)



0 50 100  
Scale in Feet

### Legend

- Monitor Well
- MW w/Total Fluids Pump
- MW w/Skimmer Pump
- Fence Line
- Overhead Powerline
- Railroad Tracks
- Power Pole W/Transformer
- Compressor Shed
- Controls
- Recovery System Tank and Containment
- Groundwater Gradient Contour Line
- Groundwater Gradient Contour Elevation
- Groundwater Flow Direction



Project # 700376.044.01



Date: 11/12/2010

Scale: 1" = 100'

Drawn By: TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91  
9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
Figure 2c - Groundwater Gradient Map (09/23/2010)

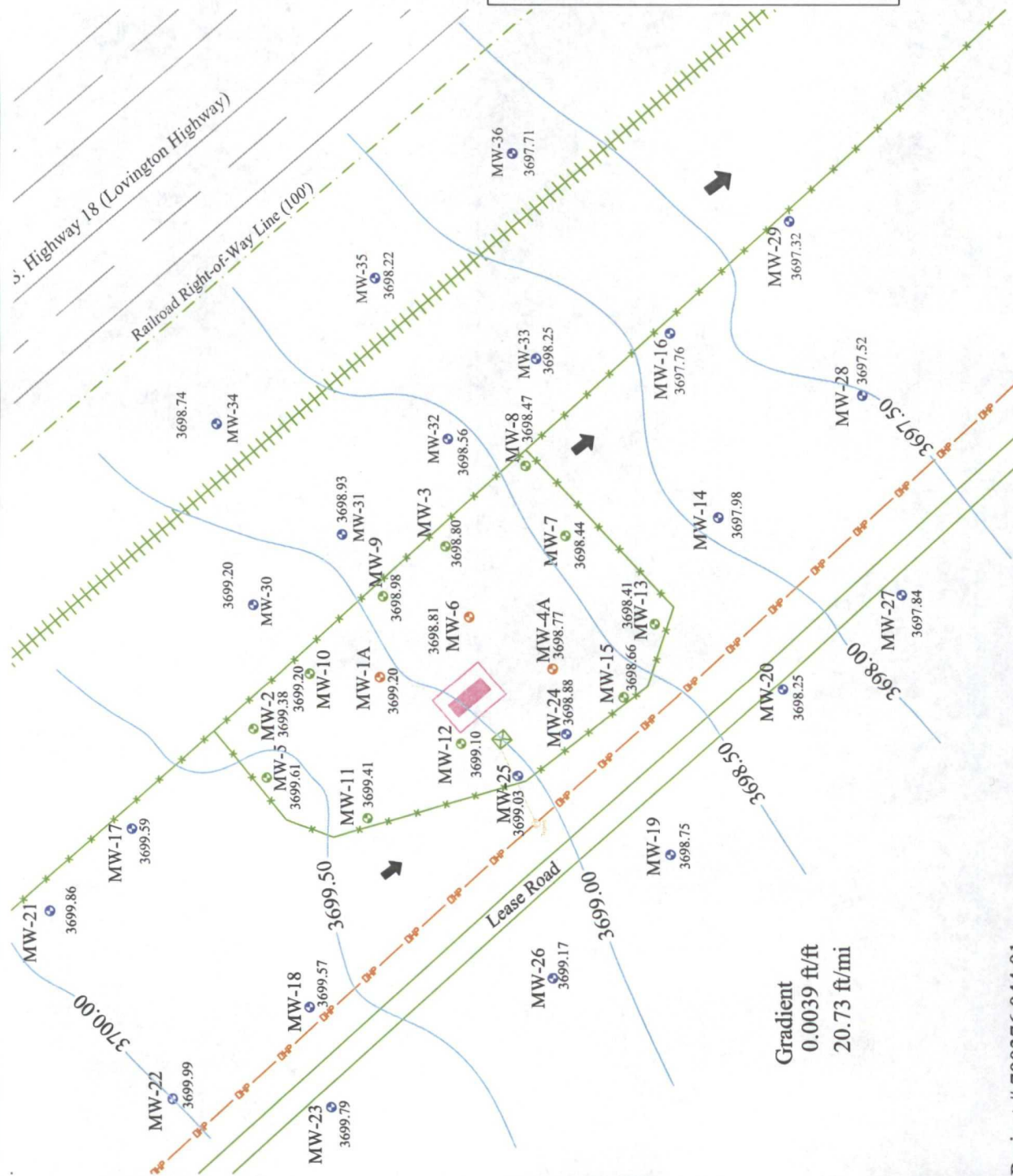




0 50 100  
Scale in Feet

### Legend

- Monitor Well
- MW w/Total Fluids Pump
- MW w/Skimmer Pump
- Fence Line
- Overhead Powerline
- Railroad Tracks
- Power Pole W/Transformer
- Compressor Shed
- Controls
- Recovery System Tank and Containment
- Groundwater Gradient Contour Line
- Groundwater Gradient Contour Elevation
- Groundwater Flow Direction



Gradient  
0.0039 ft/ft  
20.73 ft/mi

Project # 700376.044.01



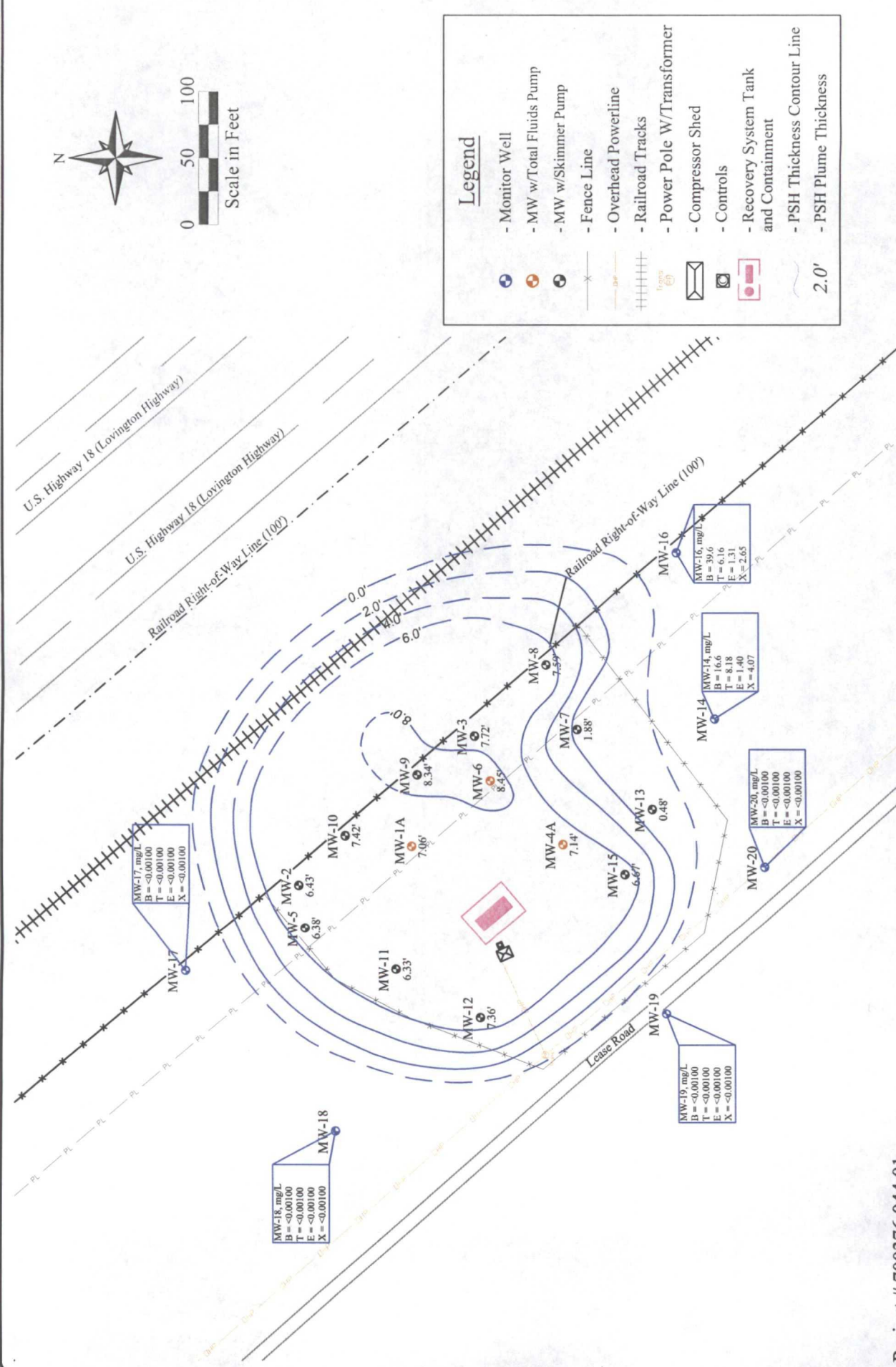
Date: 01/11/2011

Scale: 1" = 100'

Drawn By: TJS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91  
9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
Figure 2d - Groundwater Gradient Map (12/28/2010)



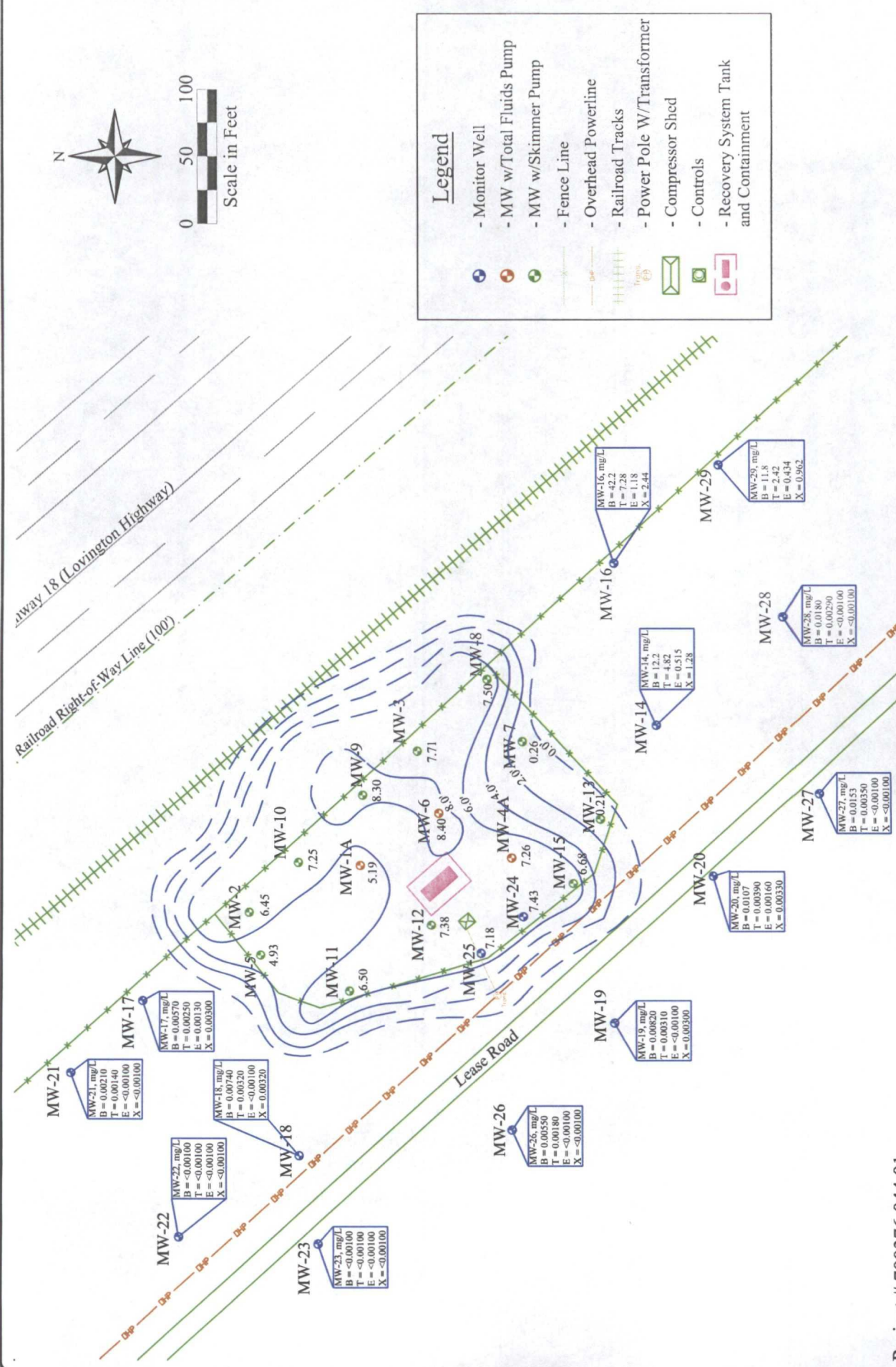
Project # 700376.044.01



Date: 03/25/2010  
 Scale: 1" = 100'  
 Drawn By: TJS

8" Moore to Jal #1  
 SRS # 2002-10270, NMOCD REF. # AP-91  
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico  
 Figure 3a - PSH Thickness & Groundwater Concentration Map - 02/17/2010





**TALON LPE**

Project # 700376.044.01

Date: 06/18/2010

Scale: 1" = 100'

Drawn By: TJS

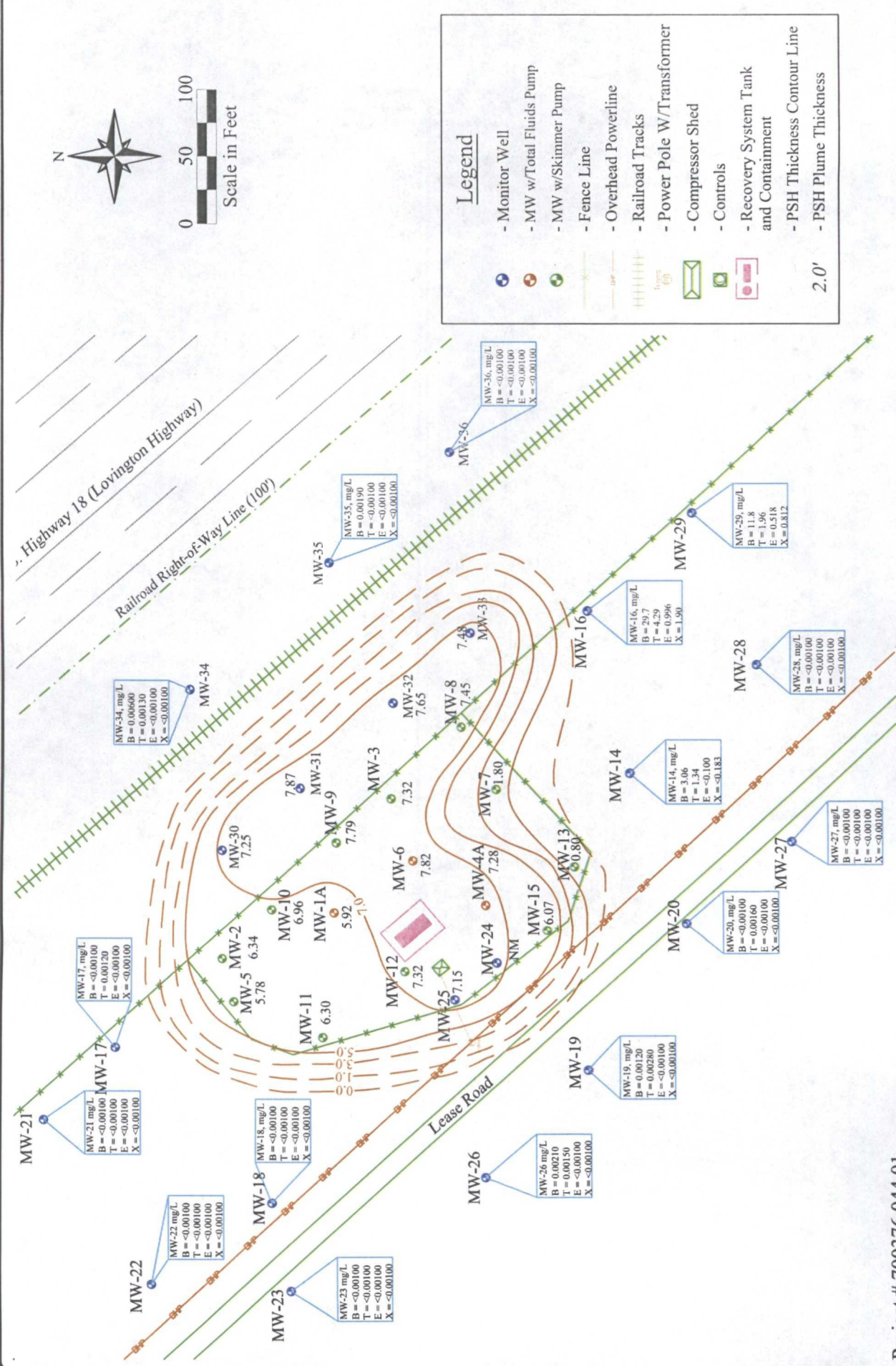
8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

9.2 Miles SE of Lovington, NM, Lea County, New Mexico

Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/02/2010





Project # 700376.044.01



Date: 11/12/2010

Scale: 1" = 100'

Drawn By: TJS

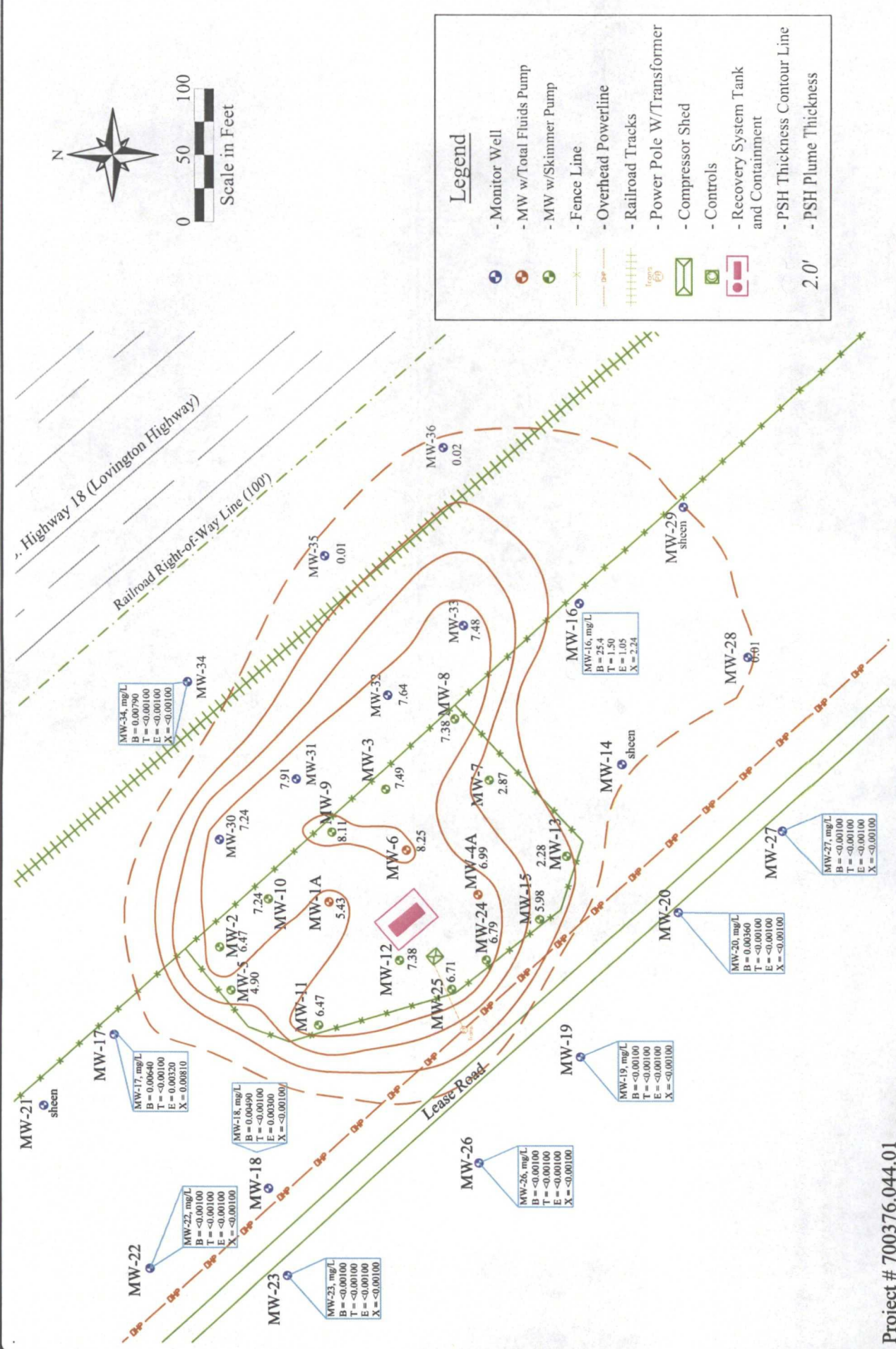
8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

9.2 Miles SE of Lovington, NM, Lea County, New Mexico

Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/23/2010





**TALON LPE**

Project # 700376.044.01

Date: 01/11/2011

Scale: 1" = 100'

Drawn By: TJIS

8" Moore to Jal #1

SRS # 2002-10270, NMOCD REF. # AP-91

9.2 Miles SE of Lovington, NM, Lea County, New Mexico

Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/28/2010

## **APPENDIX B**

### **Tables**

**Table 1 - Summary of Historical Fluid Level Measurements**

**Table 2 - Summary of Groundwater Analytical Results for BTEX**

**Table 3 - Summary of Groundwater Analytical Results for Poly-nuclear  
Aromatic Hydrocarbon (PAH)**



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>amsl)* (ft |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|------------------------------------------------------|
| MW-1A   | 10/08/04    | 3765.34                               | 53.48                                         | 56.38                                           | 2.90                       | 3711.38                                              |
| MW-1A   | 10/14/04    | 3765.34                               | 53.25                                         | 68.36                                           | 15.11                      | 3709.60                                              |
| MW-1A   | 10/20/04    | 3765.34                               | 54.11                                         | 65.92                                           | 11.81                      | 3709.28                                              |
| MW-1A   | 10/29/04    | 3765.34                               |                                               | 55.09                                           | 55.09                      | 3756.25                                              |
| MW-1A   | 11/04/04    | 3765.34                               | 55.51                                         | 63.71                                           | 8.20                       | 3708.48                                              |
| MW-1A   | 11/10/04    | 3765.34                               | 55.72                                         | 63.49                                           | 7.77                       | 3708.34                                              |
| MW-1A   | 11/17/04    | 3765.34                               | 55.93                                         | 63.49                                           | 7.56                       | 3708.16                                              |
| MW-1A   | 11/24/04    | 3765.34                               | 55.23                                         | 66.10                                           | 10.87                      | 3708.32                                              |
| MW-1A   | 12/02/04    | 3765.34                               | 55.26                                         | 65.63                                           | 10.37                      | 3708.37                                              |
| MW-1A   | 12/08/04    | 3765.34                               | 55.22                                         | 65.60                                           | 10.38                      | 3708.41                                              |
| MW-1A   | 12/15/04    | 3765.34                               | 56.06                                         | 63.65                                           | 7.59                       | 3708.03                                              |
| MW-1A   | 12/27/04    | 3765.34                               | 56.35                                         | 63.59                                           | 7.24                       | 3707.80                                              |
| MW-1A   | 12/29/04    | 3765.34                               | 56.34                                         | 63.58                                           | 7.24                       | 3707.81                                              |
| MW-1A   | 01/06/05    | 3765.34                               | 56.41                                         | 63.64                                           | 7.23                       | 3707.74                                              |
| MW-1A   | 01/13/05    | 3765.34                               | 56.56                                         | 63.76                                           | 7.20                       | 3707.59                                              |
| MW-1A   | 01/19/05    | 3765.34                               | 56.57                                         | 63.78                                           | 7.21                       | 3707.58                                              |
| MW-1A   | 01/26/05    | 3765.34                               | 56.61                                         | 63.78                                           | 7.17                       | 3707.55                                              |
| MW-1A   | 02/02/05    | 3765.34                               | 56.63                                         | 64.00                                           | 7.37                       | 3707.49                                              |
| MW-1A   | 02/09/05    | 3765.34                               | 56.65                                         | 64.11                                           | 7.46                       | 3707.46                                              |
| MW-1A   | 02/16/05    | 3765.34                               | 56.68                                         | 64.21                                           | 7.53                       | 3707.42                                              |
| MW-1A   | 02/24/05    | 3765.34                               | 56.69                                         | 64.25                                           | 7.56                       | 3707.40                                              |
| MW-1A   | 03/03/05    | 3765.34                               | 56.71                                         | 64.41                                           | 7.70                       | 3707.36                                              |
| MW-1A   | 03/11/05    | 3765.34                               | 56.86                                         | 63.54                                           | 6.68                       | 3707.38                                              |
| MW-1A   | 03/18/05    | 3765.34                               | 56.72                                         | 64.51                                           | 7.79                       | 3707.33                                              |
| MW-1A   | 04/01/05    | 3765.34                               | 56.74                                         | 64.65                                           | 7.91                       | 3707.29                                              |
| MW-1A   | 04/07/05    | 3765.34                               | 56.75                                         | 64.68                                           | 7.93                       | 3707.28                                              |
| MW-1A   | 05/18/05    | 3765.34                               | 56.80                                         | 64.99                                           | 8.19                       | 3707.19                                              |
| MW-1A   | 05/23/05    | 3765.34                               | 56.81                                         | 65.00                                           | 8.19                       | 3707.18                                              |
| MW-1A   | 05/26/05    | 3765.34                               | 56.83                                         | 65.02                                           | 8.19                       | 3707.16                                              |
| MW-1A   | 06/01/05    | 3765.34                               | 56.82                                         | 65.03                                           | 8.21                       | 3707.17                                              |
| MW-1A   | 06/03/05    | 3765.34                               | 56.84                                         | 65.01                                           | 8.17                       | 3707.15                                              |
| MW-1A   | 06/07/05    | 3765.34                               | 56.85                                         | 65.03                                           | 8.18                       | 3707.14                                              |
| MW-1A   | 06/10/05    | 3765.34                               | 56.85                                         | 65.07                                           | 8.22                       | 3707.13                                              |
| MW-1A   | 06/13/05    | 3765.34                               | 56.87                                         | 65.10                                           | 8.23                       | 3707.11                                              |
| MW-1A   | 06/16/05    | 3765.34                               | 56.86                                         | 65.06                                           | 8.20                       | 3707.13                                              |
| MW-1A   | 06/20/05    | 3765.34                               | 56.88                                         | 65.12                                           | 8.24                       | 3707.10                                              |
| MW-1A   | 06/22/05    | 3765.34                               | 56.90                                         | 65.10                                           | 8.20                       | 3707.09                                              |
| MW-1A   | 06/29/05    | 3765.34                               | 56.89                                         | 65.17                                           | 8.28                       | 3707.08                                              |
| MW-1A   | 07/01/05    | 3765.34                               | 56.91                                         | 65.15                                           | 8.24                       | 3707.07                                              |
| MW-1A   | 07/06/05    | 3765.34                               | 56.91                                         | 65.17                                           | 8.26                       | 3707.07                                              |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>amsl)* (ft |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|------------------------------------------------------|
| MW-1A   | 07/08/05    | 3765.34                               | 56.91                                         | 65.04                                           | 8.13                       | 3707.09                                              |
| MW-1A   | 07/12/05    | 3765.34                               | 56.95                                         | 65.25                                           | 8.30                       | 3707.02                                              |
| MW-1A   | 07/14/05    | 3765.34                               | 56.92                                         | 65.21                                           | 8.29                       | 3707.05                                              |
| MW-1A   | 07/19/05    | 3765.34                               | 56.93                                         | 65.26                                           | 8.33                       | 3707.04                                              |
| MW-1A   | 07/21/05    | 3765.34                               | 56.96                                         | 65.29                                           | 8.33                       | 3707.01                                              |
| MW-1A   | 07/26/05    | 3765.34                               | 56.95                                         | 65.31                                           | 8.36                       | 3707.01                                              |
| MW-1A   | 07/28/05    | 3765.34                               | 56.58                                         | 65.30                                           | 8.72                       | 3707.32                                              |
| MW-1A   | 08/02/05    | 3765.34                               | 56.98                                         | 65.27                                           | 8.29                       | 3706.99                                              |
| MW-1A   | 08/04/05    | 3765.34                               | 57.00                                         | 65.33                                           | 8.33                       | 3706.97                                              |
| MW-1A   | 08/09/05    | 3765.34                               | 57.00                                         | 65.38                                           | 8.38                       | 3706.96                                              |
| MW-1A   | 08/11/05    | 3765.34                               | 56.99                                         | 65.37                                           | 8.38                       | 3706.97                                              |
| MW-1A   | 08/16/05    | 3765.34                               | 57.02                                         | 65.42                                           | 8.40                       | 3706.93                                              |
| MW-1A   | 08/18/05    | 3765.34                               | 57.01                                         | 65.40                                           | 8.39                       | 3706.95                                              |
| MW-1A   | 08/24/05    | 3765.34                               | 57.03                                         | 65.44                                           | 8.41                       | 3706.92                                              |
| MW-1A   | 08/26/05    | 3765.34                               | 57.04                                         | 65.44                                           | 8.40                       | 3706.91                                              |
| MW-1A   | 08/30/05    | 3765.34                               | 56.45                                         | 66.48                                           | 10.03                      | 3707.24                                              |
| MW-1A   | 09/01/05    | 3765.34                               | 56.52                                         | 66.74                                           | 10.22                      | 3707.13                                              |
| MW-1A   | 09/06/05    | 3765.34                               | 56.65                                         | 66.28                                           | 9.63                       | 3707.10                                              |
| MW-1A   | 09/08/05    | 3765.34                               | 56.73                                         | 65.88                                           | 9.15                       | 3707.10                                              |
| MW-1A   | 09/13/05    | 3765.34                               | 56.86                                         | 65.64                                           | 8.78                       | 3707.03                                              |
| MW-1A   | 09/16/05    | 3765.34                               | 56.94                                         | 65.46                                           | 8.52                       | 3706.99                                              |
| MW-1A   | 09/20/05    | 3765.34                               | 57.01                                         | 65.31                                           | 8.30                       | 3706.96                                              |
| MW-1A   | 09/23/05    | 3765.34                               | 57.04                                         | 65.23                                           | 8.19                       | 3706.95                                              |
| MW-1A   | 09/27/05    | 3765.34                               | 57.07                                         | 65.17                                           | 8.10                       | 3706.93                                              |
| MW-1A   | 09/29/05    | 3765.34                               | 57.09                                         | 65.10                                           | 8.01                       | 3706.93                                              |
| MW-1A   | 10/04/05    | 3765.34                               | 57.08                                         | 65.18                                           | 8.10                       | 3706.92                                              |
| MW-1A   | 10/06/05    | 3765.34                               | 57.09                                         | 65.21                                           | 8.12                       | 3706.91                                              |
| MW-1A   | 10/11/05    | 3765.34                               | 57.09                                         | 65.31                                           | 8.22                       | 3706.89                                              |
| MW-1A   | 10/13/05    | 3765.34                               | 57.10                                         | 65.28                                           | 8.18                       | 3706.89                                              |
| MW-1A   | 10/18/05    | 3765.34                               | 57.12                                         | 65.31                                           | 8.19                       | 3706.87                                              |
| MW-1A   | 10/21/05    | 3765.34                               | 57.13                                         | 65.29                                           | 8.16                       | 3706.86                                              |
| MW-1A   | 10/26/05    | 3765.34                               | 57.15                                         | 65.34                                           | 8.19                       | 3706.84                                              |
| MW-1A   | 10/28/05    | 3765.34                               | 57.14                                         | 65.28                                           | 8.14                       | 3706.86                                              |
| MW-1A   | 11/01/05    | 3765.34                               | 57.16                                         | 65.34                                           | 8.18                       | 3706.83                                              |
| MW-1A   | 11/04/05    | 3765.34                               | 57.17                                         | 65.33                                           | 8.16                       | 3706.82                                              |
| MW-1A   | 11/09/05    | 3765.34                               | 57.21                                         | 65.38                                           | 8.17                       | 3706.78                                              |
| MW-1A   | 11/11/05    | 3765.34                               | 57.24                                         | 65.36                                           | 8.12                       | 3706.76                                              |
| MW-1A   | 11/16/05    | 3765.34                               | 57.21                                         | 65.42                                           | 8.21                       | 3706.78                                              |
| MW-1A   | 11/18/05    | 3765.34                               | 57.25                                         | 65.36                                           | 8.11                       | 3706.75                                              |
| MW-1A   | 11/22/05    | 3765.34                               | 57.24                                         | 65.42                                           | 8.18                       | 3706.75                                              |
| MW-1A   | 11/30/05    | 3765.34                               | 57.25                                         | 65.49                                           | 8.24                       | 3706.73                                              |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>amsl)* (ft) |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|-------------------------------------------------------|
| MW-1A   | 12/02/05    | 3765.34                               | 57.28                                         | 65.45                                           | 8.17                       | 3706.71                                               |
| MW-1A   | 12/06/05    | 3765.34                               | 57.27                                         | 65.52                                           | 8.25                       | 3706.71                                               |
| MW-1A   | 12/14/05    | 3765.34                               | 57.30                                         | 65.57                                           | 8.27                       | 3706.68                                               |
| MW-1A   | 12/16/05    | 3765.34                               | 57.31                                         | 65.51                                           | 8.20                       | 3706.68                                               |
| MW-1A   | 12/21/05    | 3765.34                               | 57.31                                         | 65.61                                           | 8.30                       | 3706.66                                               |
| MW-1A   | 12/23/05    | 3765.34                               | 57.33                                         | 65.53                                           | 8.20                       | 3706.66                                               |
| MW-1A   | 12/27/05    | 3765.34                               | 57.33                                         | 65.63                                           | 8.30                       | 3706.64                                               |
| MW-1A   | 12/30/05    | 3765.34                               | 57.34                                         | 65.63                                           | 8.29                       | 3706.63                                               |
| MW-1A   | 01/03/06    | 3765.34                               | 57.35                                         | 65.69                                           | 8.34                       | 3706.61                                               |
| MW-1A   | 01/05/06    | 3765.34                               | 57.36                                         | 65.66                                           | 8.30                       | 3706.61                                               |
| MW-1A   | 01/11/06    | 3765.34                               | 57.37                                         | 65.75                                           | 8.38                       | 3706.59                                               |
| MW-1A   | 01/13/06    | 3765.34                               | 57.40                                         | 65.68                                           | 8.28                       | 3706.57                                               |
| MW-1A   | 01/18/06    | 3765.34                               | 57.38                                         | 65.77                                           | 8.39                       | 3706.58                                               |
| MW-1A   | 01/20/06    | 3765.34                               | 57.39                                         | 65.69                                           | 8.30                       | 3706.58                                               |
| MW-1A   | 01/24/06    | 3765.34                               | 57.41                                         | 65.83                                           | 8.42                       | 3706.54                                               |
| MW-1A   | 01/26/06    | 3765.34                               | 57.40                                         | 65.80                                           | 8.40                       | 3706.55                                               |
| MW-1A   | 02/02/06    | 3765.34                               | 57.40                                         | 65.87                                           | 8.47                       | 3706.54                                               |
| MW-1A   | 02/08/06    | 3765.34                               | 57.41                                         | 65.91                                           | 8.50                       | 3706.53                                               |
| MW-1A   | 02/10/06    | 3765.34                               | 57.40                                         | 65.87                                           | 8.47                       | 3706.54                                               |
| MW-1A   | 02/14/06    | 3765.34                               | 57.43                                         | 65.91                                           | 8.48                       | 3706.51                                               |
| MW-1A   | 02/16/06    | 3765.34                               | 57.46                                         | 65.83                                           | 8.37                       | 3706.50                                               |
| MW-1A   | 02/21/06    | 3765.34                               | 57.45                                         | 66.00                                           | 8.55                       | 3706.48                                               |
| MW-1A   | 02/24/06    | 3765.34                               | 57.47                                         | 65.91                                           | 8.44                       | 3706.48                                               |
| MW-1A   | 02/28/06    | 3765.34                               | 57.21                                         | 71.50                                           | 14.29                      | 3705.77                                               |
| MW-1A   | 03/03/06    | 3765.34                               | 57.43                                         | 66.00                                           | 8.57                       | 3706.50                                               |
| MW-1A   | 03/06/06    | 3765.34                               | 57.45                                         | 66.00                                           | 8.55                       | 3706.48                                               |
| MW-1A   | 03/08/06    | 3765.34                               | 57.50                                         | 65.87                                           | 8.37                       | 3706.46                                               |
| MW-1A   | 03/15/06    | 3765.34                               | 57.51                                         | 66.03                                           | 8.52                       | 3706.42                                               |
| MW-1A   | 03/17/06    | 3765.34                               | 57.53                                         | 65.93                                           | 8.40                       | 3706.42                                               |
| MW-1A   | 03/21/06    | 3765.34                               | 57.51                                         | 66.04                                           | 8.53                       | 3706.42                                               |
| MW-1A   | 03/23/06    | 3765.34                               | 57.42                                         | 65.83                                           | 8.41                       | 3706.53                                               |
| MW-1A   | 03/28/06    | 3765.34                               | 57.52                                         | 66.03                                           | 8.51                       | 3706.42                                               |
| MW-1A   | 03/30/06    | 3765.34                               | 57.54                                         | 65.95                                           | 8.41                       | 3706.41                                               |
| MW-1A   | 04/04/06    | 3765.34                               | 57.55                                         | 66.07                                           | 8.52                       | 3706.38                                               |
| MW-1A   | 04/07/06    | 3765.34                               | 57.57                                         | 66.05                                           | 8.48                       | 3706.37                                               |
| MW-1A   | 04/12/06    | 3765.34                               | 57.59                                         | 66.10                                           | 8.51                       | 3706.35                                               |
| MW-1A   | 04/14/06    | 3765.34                               | 57.58                                         | 66.01                                           | 8.43                       | 3706.37                                               |
| MW-1A   | 04/18/06    | 3765.34                               | 57.55                                         | 66.10                                           | 8.55                       | 3706.38                                               |
| MW-1A   | 04/21/06    | 3765.34                               | 57.61                                         | 61.18                                           | 3.57                       | 3707.14                                               |
| MW-1A   | 04/26/06    | 3765.34                               | 57.56                                         | 66.10                                           | 8.54                       | 3706.37                                               |
| MW-1A   | 04/28/06    | 3765.34                               | 57.60                                         | 65.98                                           | 8.38                       | 3706.36                                               |





**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-1A   | 05/04/06    | 3765.34                               | 57.61                                         | 66.13                                           | 8.52                       | 3706.32                                                 |
| MW-1A   | 05/05/06    | 3765.34                               | 57.62                                         | 66.11                                           | 8.49                       | 3706.32                                                 |
| MW-1A   | 05/10/06    | 3765.34                               | 57.66                                         | 66.20                                           | 8.54                       | 3706.27                                                 |
| MW-1A   | 05/12/06    | 3765.34                               | 57.65                                         | 66.05                                           | 8.40                       | 3706.30                                                 |
| MW-1A   | 05/16/06    | 3765.34                               | 57.66                                         | 66.20                                           | 8.54                       | 3706.27                                                 |
| MW-1A   | 05/18/06    | 3765.34                               | 57.66                                         | 66.08                                           | 8.42                       | 3706.29                                                 |
| MW-1A   | 05/23/06    | 3765.34                               | 57.67                                         | 66.22                                           | 8.55                       | 3706.26                                                 |
| MW-1A   | 05/26/06    | 3765.34                               | 57.87                                         | 66.16                                           | 8.29                       | 3706.10                                                 |
| MW-1A   | 05/30/06    | 3765.34                               | 57.68                                         | 66.23                                           | 8.55                       | 3706.25                                                 |
| MW-1A   | 06/01/06    | 3765.34                               | 57.70                                         | 66.11                                           | 8.41                       | 3706.25                                                 |
| MW-1A   | 06/06/06    | 3765.34                               | 57.70                                         | 66.25                                           | 8.55                       | 3706.23                                                 |
| MW-1A   | 06/09/06    | 3765.34                               | 57.70                                         | 66.26                                           | 8.56                       | 3706.23                                                 |
| MW-1A   | 06/13/06    | 3765.34                               | 57.71                                         | 66.27                                           | 8.56                       | 3706.22                                                 |
| MW-1A   | 06/16/06    | 3765.34                               | 57.72                                         | 66.25                                           | 8.53                       | 3706.21                                                 |
| MW-1A   | 06/20/06    | 3765.34                               | 57.72                                         | 66.27                                           | 8.55                       | 3706.21                                                 |
| MW-1A   | 06/23/06    | 3765.34                               | 57.72                                         | 66.26                                           | 8.54                       | 3706.21                                                 |
| MW-1A   | 06/27/06    | 3765.34                               | 57.74                                         | 66.28                                           | 8.54                       | 3706.19                                                 |
| MW-1A   | 06/30/06    | 3765.34                               | 57.75                                         | 66.25                                           | 8.50                       | 3706.19                                                 |
| MW-1A   | 07/05/06    | 3765.34                               | 57.75                                         | 66.27                                           | 8.52                       | 3706.18                                                 |
| MW-1A   | 07/07/06    | 3765.34                               | 57.77                                         | 66.31                                           | 8.54                       | 3706.16                                                 |
| MW-1A   | 07/11/06    | 3765.34                               | 57.78                                         | 66.30                                           | 8.52                       | 3706.15                                                 |
| MW-1A   | 07/13/06    | 3765.34                               | 57.79                                         | 66.20                                           | 8.41                       | 3706.16                                                 |
| MW-1A   | 07/18/06    | 3765.34                               | 57.80                                         | 66.36                                           | 8.56                       | 3706.13                                                 |
| MW-1A   | 07/21/06    | 3765.34                               | 57.80                                         | 66.30                                           | 8.50                       | 3706.14                                                 |
| MW-1A   | 07/25/06    | 3765.34                               | 57.81                                         | 66.38                                           | 8.57                       | 3706.12                                                 |
| MW-1A   | 07/27/06    | 3765.34                               | 57.81                                         | 66.28                                           | 8.47                       | 3706.13                                                 |
| MW-1A   | 08/01/06    | 3765.34                               | 57.83                                         | 66.41                                           | 8.58                       | 3706.09                                                 |
| MW-1A   | 08/03/06    | 3765.34                               | 57.85                                         | 66.36                                           | 8.51                       | 3706.09                                                 |
| MW-1A   | 08/09/06    | 3765.34                               | 57.87                                         | 66.44                                           | 8.57                       | 3706.06                                                 |
| MW-1A   | 08/11/06    | 3765.34                               | 57.87                                         | 66.35                                           | 8.48                       | 3706.07                                                 |
| MW-1A   | 08/15/06    | 3765.34                               | 57.89                                         | 66.46                                           | 8.57                       | 3706.04                                                 |
| MW-1A   | 08/15/06    | 3765.34                               | 57.89                                         | 66.46                                           | 8.57                       | 3706.04                                                 |
| MW-1A   | 08/18/06    | 3765.34                               | 57.89                                         | 66.46                                           | 8.57                       | 3706.04                                                 |
| MW-1A   | 08/25/06    | 3765.34                               | 57.92                                         | 66.51                                           | 8.59                       | 3706.00                                                 |
| MW-1A   | 08/30/06    | 3765.34                               | 57.94                                         | 66.43                                           | 8.49                       | 3706.00                                                 |
| MW-1A   | 09/15/06    | 3765.34                               | 57.27                                         | 67.55                                           | 10.28                      | 3706.37                                                 |
| MW-1A   | 09/20/06    | 3765.34                               | 57.74                                         | 66.64                                           | 8.90                       | 3706.13                                                 |
| MW-1A   | 09/26/06    | 3765.34                               | 57.92                                         | 66.16                                           | 8.24                       | 3706.06                                                 |
| MW-1A   | 09/29/06    | 3765.34                               | 57.98                                         | 66.03                                           | 8.05                       | 3706.03                                                 |
| MW-1A   | 10/04/06    | 3765.34                               | 58.01                                         | 66.03                                           | 8.02                       | 3706.01                                                 |
| MW-1A   | 10/06/06    | 3765.34                               | 58.03                                         | 65.94                                           | 7.91                       | 3706.00                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-1A   | 10/12/06    | 3765.34                               | 58.06                                         | 63.14                                           | 5.08                       | 3706.44                                                 |
| MW-1A   | 10/17/06    | 3765.34                               | 58.90                                         | 66.30                                           | 7.40                       | 3705.22                                                 |
| MW-1A   | 10/20/06    | 3765.34                               | 58.08                                         | 66.04                                           | 7.96                       | 3705.95                                                 |
| MW-1A   | 10/24/06    | 3765.34                               | 58.10                                         | 66.02                                           | 7.92                       | 3705.93                                                 |
| MW-1A   | 10/26/06    | 3765.34                               | 58.90                                         | 66.02                                           | 7.12                       | 3705.27                                                 |
| MW-1A   | 11/22/06    | 3765.34                               | 58.16                                         | 66.34                                           | 8.18                       | 3705.83                                                 |
| MW-1A   | 11/28/06    | 3765.34                               | 58.19                                         | 66.41                                           | 8.22                       | 3705.79                                                 |
| MW-1A   | 12/06/06    | 3765.34                               | 58.25                                         | 66.49                                           | 8.24                       | 3705.73                                                 |
| MW-1A   | 12/08/06    | 3765.34                               | 58.44                                         | 68.14                                           | 9.70                       | 3705.30                                                 |
| MW-1A   | 12/12/06    | 3765.34                               | 58.25                                         | 66.49                                           | 8.24                       | 3705.73                                                 |
| MW-1A   | 12/15/06    | 3765.34                               | 58.92                                         | 66.01                                           | 7.09                       | 3705.25                                                 |
| MW-1A   | 12/20/06    | 3765.34                               | NM                                            | NM                                              |                            |                                                         |
| MW-1A   | 12/22/06    | 3765.34                               | 58.34                                         | 66.41                                           | 8.07                       | 3705.67                                                 |
| MW-1A   | 12/27/06    | 3765.34                               | 58.30                                         | 66.65                                           | 8.35                       | 3705.66                                                 |
| MW-1A   | 01/03/07    | 3765.34                               | 58.34                                         | 66.69                                           | 8.35                       | 3705.62                                                 |
| MW-1A   | 01/05/07    | 3765.34                               | 58.32                                         | 66.72                                           | 8.40                       | 3705.63                                                 |
| MW-1A   | 01/12/07    | 3765.34                               | 58.35                                         | 66.76                                           | 8.41                       | 3705.60                                                 |
| MW-1A   | 01/15/07    | 3765.34                               | 58.40                                         | 66.72                                           | 8.32                       | 3705.57                                                 |
| MW-1A   | 01/18/07    | 3765.34                               | 58.38                                         | 66.78                                           | 8.40                       | 3705.57                                                 |
| MW-1A   | 01/31/07    | 3765.34                               | 58.41                                         | 66.87                                           | 8.46                       | 3705.53                                                 |
| MW-1A   | 02/07/07    | 3765.34                               | 58.31                                         | 67.78                                           | 9.47                       | 3705.47                                                 |
| MW-1A   | 02/09/07    | 3765.34                               | 58.43                                         | 66.69                                           | 8.26                       | 3705.55                                                 |
| MW-1A   | 02/13/07    | 3765.34                               | 58.44                                         | 66.85                                           | 8.41                       | 3705.51                                                 |
| MW-1A   | 02/16/07    | 3765.34                               | 58.42                                         | 66.79                                           | 8.37                       | 3705.54                                                 |
| MW-1A   | 02/19/07    | 3765.34                               | 58.48                                         | 66.42                                           | 7.94                       | 3705.55                                                 |
| MW-1A   | 03/09/07    | 3765.34                               | 65.02                                         | 73.50                                           | 8.48                       | 3698.92                                                 |
| MW-1A   | 03/13/07    | 3765.34                               | 65.67                                         | 74.02                                           | 8.35                       | 3698.29                                                 |
| MW-1A   | 03/23/07    | 3765.34                               | 65.10                                         | 73.47                                           | 8.37                       | 3698.86                                                 |
| MW-1A   | 03/27/07    | 3768.36                               | 65.09                                         | 73.55                                           | 8.46                       | 3701.87                                                 |
| MW-1A   | 04/06/07    |                                       | 65.13                                         | 73.52                                           | 8.39                       | 3701.85                                                 |
| MW-1A   | 04/11/07    |                                       | 66.17                                         | 72.20                                           | 6.03                       | 3701.20                                                 |
| MW-1A   | 04/17/07    |                                       | 65.15                                         | 73.65                                           | 8.50                       | 3701.81                                                 |
| MW-1A   | 04/19/07    |                                       | 65.15                                         | 73.42                                           | 8.27                       | 3701.85                                                 |
| MW-1A   | 04/24/07    |                                       | 65.15                                         | 73.76                                           | 8.61                       | 3701.79                                                 |
| MW-1A   | 05/01/07    |                                       | 65.20                                         | 72.21                                           | 7.01                       | 3702.00                                                 |
| MW-1A   | 05/21/07    |                                       | 65.23                                         | 73.54                                           | 8.31                       | 3701.76                                                 |
| MW-1A   | 05/24/07    |                                       | 65.45                                         | 73.84                                           | 8.39                       | 3701.53                                                 |
| MW-1A   | 06/28/07    |                                       | 65.38                                         | 73.90                                           | 8.52                       | 3701.57                                                 |
| MW-1A   | 08/07/07    |                                       | 65.31                                         | 73.92                                           | 8.61                       | 3701.63                                                 |
| MW-1A   | 08/17/07    |                                       | 64.25                                         | 71.76                                           | 7.51                       | 3702.87                                                 |
| MW-1A   | 08/23/07    |                                       | 65.34                                         | 73.86                                           | 8.52                       | 3701.61                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-1A   | 08/31/07    |                                       | 65.37                                         | 73.89                                           | 8.52                       | 3701.58                                                 |
| MW-1A   | 09/21/07    |                                       | 65.43                                         | 73.60                                           | 8.17                       | 3701.58                                                 |
| MW-1A   | 09/28/07    |                                       | 65.45                                         | 73.96                                           | 8.51                       | 3701.51                                                 |
| MW-1A   | 10/11/07    |                                       | 65.48                                         | 72.48                                           | 7.00                       | 3701.73                                                 |
| MW-1A   | 10/18/07    |                                       | 65.51                                         | 73.98                                           | 8.47                       | 3701.45                                                 |
| MW-1A   | 11/13/07    |                                       | 64.68                                         | 73.17                                           | 8.49                       | 3702.28                                                 |
| MW-1A   | 11/27/07    |                                       | 64.72                                         | 73.21                                           | 8.49                       | 3702.24                                                 |
| MW-1A   | 12/13/07    |                                       | 64.76                                         | 73.29                                           | 8.53                       | 3702.19                                                 |
| MW-1A   | 12/17/07    |                                       | 64.83                                         | 73.28                                           | 8.45                       | 3702.14                                                 |
| MW-1A   | 12/31/07    |                                       | 64.84                                         | 73.36                                           | 8.52                       | 3702.11                                                 |
| MW-1A   | 01/06/08    |                                       | 64.91                                         | 73.29                                           | 8.38                       | 3702.07                                                 |
| MW-1A   | 03/05/08    |                                       | 65.06                                         | 73.57                                           | 8.51                       | 3701.90                                                 |
| MW-1A   | 03/26/08    |                                       | 65.12                                         | 73.37                                           | 8.25                       | 3701.88                                                 |
| MW-1A   | 04/02/08    |                                       | 65.17                                         | 73.46                                           | 8.29                       | 3701.82                                                 |
| MW-1A   | 04/04/08    |                                       | 65.28                                         | 73.49                                           | 8.21                       | 3701.73                                                 |
| MW-1A   | 04/24/08    |                                       | 65.23                                         | 73.63                                           | 8.40                       | 3701.74                                                 |
| MW-1A   | 05/06/08    |                                       | 65.31                                         | 73.77                                           | 8.46                       | 3701.65                                                 |
| MW-1A   | 05/27/08    |                                       | 65.42                                         | 73.88                                           | 8.46                       | 3701.54                                                 |
| MW-1A   | 06/04/08    |                                       | 65.47                                         | 73.92                                           | 8.45                       | 3701.50                                                 |
| MW-1A   | 06/24/08    |                                       | 65.61                                         | 74.09                                           | 8.48                       | 3701.35                                                 |
| MW-1A   | 07/02/08    |                                       | 65.68                                         | 74.17                                           | 8.49                       | 3701.28                                                 |
| MW-1A   | 07/15/08    |                                       | 65.78                                         | 74.21                                           | 8.43                       | 3701.19                                                 |
| MW-1A   | 07/22/08    |                                       | 65.83                                         | 74.21                                           | 8.38                       | 3701.15                                                 |
| MW-1A   | 07/31/08    |                                       | 65.94                                         | 74.35                                           | 8.41                       | 3701.03                                                 |
| MW-1A   | 08/07/08    |                                       | 66.03                                         | 74.36                                           | 8.33                       | 3700.96                                                 |
| MW-1A   | 08/29/08    |                                       | 65.42                                         | 73.88                                           | 8.46                       | 3701.54                                                 |
| MW-1A   | 09/16/08    |                                       | 65.49                                         | 74.00                                           | 8.51                       | 3701.47                                                 |
| MW-1A   | 12/16/08    |                                       | 65.73                                         | 73.61                                           | 7.88                       | 3701.33                                                 |
| MW-1A   | 01/29/09    |                                       | 65.82                                         | 73.96                                           | 8.14                       | 3701.20                                                 |
| MW-1A   | 02/04/09    |                                       | 65.85                                         | 73.95                                           | 8.10                       | 3701.17                                                 |
| MW-1A   | 05/26/09    |                                       | 66.15                                         | 74.02                                           | 7.87                       | 3700.91                                                 |
| MW-1A   | 08/12/09    |                                       | 66.43                                         | 74.15                                           | 7.72                       | 3700.66                                                 |
| MW-1A   | 11/19/09    |                                       | 66.95                                         | 74.21                                           | 7.26                       | 3700.21                                                 |
| MW-1A   | 02/17/10    |                                       | 67.32                                         | 74.38                                           | 7.06                       | 3699.88                                                 |
| MW-1A   | 06/02/10    |                                       | 67.85                                         | 73.04                                           | 5.19                       | 3699.71                                                 |
| MW-1A   | 09/23/10    |                                       | 68.00                                         | 73.92                                           | 5.92                       | 3699.45                                                 |
| MW-1A   | 12/28/10    |                                       | 68.32                                         | 73.75                                           | 5.43                       | 3699.20                                                 |
| MW-1    | 09/22/04    | 3766.03                               | 56.74                                         | 67.29                                           | 10.55                      | 3707.55                                                 |
| MW-1    | 10/08/04    |                                       | 52.27                                         | 75.25                                           | 22.98                      | 3709.97                                                 |
| MW-1    | 10/14/04    |                                       | 53.67                                         | 71.20                                           | 17.53                      | 3709.47                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-1    | 10/20/04    |                                       | 54.64                                         | 68.31                                           | 13.67                      | 3709.13                                                 |
| MW-1    | 10/29/04    |                                       | 56.08                                         | 63.66                                           | 7.58                       | 3708.70                                                 |
| MW-1    | 11/04/04    |                                       | 57.49                                         | 58.46                                           | 0.97                       | 3708.38                                                 |
| MW-1    | 11/10/04    |                                       | 57.69                                         | 58.40                                           | 0.71                       | 3708.22                                                 |
| MW-1    | 11/17/04    |                                       | 57.88                                         | 58.22                                           | 0.34                       | 3708.09                                                 |
| MW-1    | 11/24/04    |                                       | 57.91                                         | 58.13                                           | 0.22                       | 3708.08                                                 |
| MW-1    | 12/02/04    |                                       | 57.75                                         | 58.67                                           | 0.92                       | 3708.13                                                 |
| MW-1    | 12/08/04    |                                       | 57.70                                         | 58.64                                           | 0.94                       | 3708.17                                                 |
| MW-1    | 12/15/04    |                                       | 57.89                                         | 59.15                                           | 1.26                       | 3707.93                                                 |
| MW-1    | 12/27/04    |                                       | 58.20                                         | 58.64                                           | 0.44                       | 3707.76                                                 |
| MW-1    | 12/29/04    |                                       | 58.17                                         | 58.60                                           | 0.43                       | 3707.79                                                 |
| MW-1    | 01/06/05    |                                       | 58.29                                         | 58.72                                           | 0.43                       | 3707.67                                                 |
| MW-1    | 01/13/05    |                                       | 58.40                                         | 58.72                                           | 0.32                       | 3707.58                                                 |
| MW-1    | 01/19/05    |                                       | 58.42                                         | 58.71                                           | 0.29                       | 3707.56                                                 |
| MW-1    | 01/26/05    |                                       | 58.48                                         | 58.83                                           | 0.35                       | 3707.49                                                 |
| MW-1    | 02/02/05    |                                       | 58.49                                         | 58.81                                           | 0.32                       | 3707.49                                                 |
| MW-1    | 02/09/05    |                                       | 58.48                                         | 58.80                                           | 0.32                       | 3707.50                                                 |
| MW-1    | 02/16/05    |                                       | 58.54                                         | 58.86                                           | 0.32                       | 3707.44                                                 |
| MW-1    | 02/24/05    |                                       | 58.57                                         | 58.89                                           | 0.32                       | 3707.41                                                 |
| MW-1    | 03/03/05    |                                       | 58.62                                         | 58.89                                           | 0.27                       | 3707.37                                                 |
| MW-1    | 03/11/05    |                                       | 58.54                                         | 58.63                                           | 0.09                       | 3707.48                                                 |
| MW-1    | 03/18/05    |                                       | 58.63                                         | 59.08                                           | 0.45                       | 3707.33                                                 |
| MW-1    | 04/01/05    |                                       | 58.60                                         | 59.07                                           | 0.47                       | 3707.35                                                 |
| MW-1    | 04/07/05    |                                       | 58.65                                         | 59.17                                           | 0.52                       | 3707.29                                                 |
| MW-1    | 05/18/05    |                                       | 58.77                                         | 59.30                                           | 0.53                       | 3707.17                                                 |
| MW-1    | 05/23/05    |                                       | 58.88                                         | 58.94                                           | 0.06                       | 3707.14                                                 |
| MW-1    | 05/26/05    |                                       | 58.89                                         | 58.91                                           | 0.02                       | 3707.14                                                 |
| MW-1    | 06/01/05    |                                       | 58.89                                         | 58.97                                           | 0.08                       | 3707.13                                                 |
| MW-1    | 06/03/05    |                                       | 58.86                                         | 58.98                                           | 0.12                       | 3707.15                                                 |
| MW-1    | 06/07/05    |                                       | 58.90                                         | 59.03                                           | 0.13                       | 3707.11                                                 |
| MW-1    | 06/10/05    |                                       | 58.90                                         | 59.02                                           | 0.12                       | 3707.11                                                 |
| MW-1    | 06/13/05    |                                       | 58.90                                         | 59.12                                           | 0.22                       | 3707.09                                                 |
| MW-1    | 06/16/05    |                                       | 58.91                                         | 59.02                                           | 0.11                       | 3707.10                                                 |
| MW-1    | 06/20/05    |                                       | 58.95                                         | 59.12                                           | 0.17                       | 3707.05                                                 |
| MW-1    | 06/22/05    |                                       | 58.94                                         | 59.14                                           | 0.20                       | 3707.06                                                 |
| MW-1    | 06/29/05    |                                       | 58.95                                         | 59.08                                           | 0.13                       | 3707.06                                                 |
| MW-1    | 07/01/05    |                                       | 58.97                                         | 59.09                                           | 0.12                       | 3707.04                                                 |
| MW-1    | 07/06/05    |                                       | 58.99                                         | 59.08                                           | 0.09                       | 3707.03                                                 |
| MW-1    | 07/08/05    |                                       | 58.90                                         | 59.02                                           | 0.12                       | 3707.11                                                 |
| MW-1    | 07/12/05    |                                       | 59.02                                         | 59.11                                           | 0.09                       | 3707.00                                                 |
| MW-1    | 07/14/05    |                                       | 58.99                                         | 59.22                                           | 0.23                       | 3707.00                                                 |
| MW-1    | 07/19/05    |                                       | 59.01                                         | 59.18                                           | 0.17                       | 3706.99                                                 |
| MW-1    | 07/21/05    |                                       | 59.04                                         | 59.38                                           | 0.34                       | 3706.93                                                 |
| MW-1    | 07/26/05    |                                       | 59.04                                         | 59.13                                           | 0.09                       | 3706.98                                                 |
| MW-1    | 07/28/05    |                                       | 59.17                                         | 59.65                                           | 0.48                       | 3706.78                                                 |
| MW-1    | 08/02/05    |                                       | 59.04                                         | 59.23                                           | 0.19                       | 3706.96                                                 |
| MW-1    | 08/04/05    |                                       | 59.05                                         | 59.28                                           | 0.23                       | 3706.94                                                 |
| MW-1    | 08/09/05    |                                       | 59.04                                         | 59.33                                           | 0.29                       | 3706.94                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>amsl)* (ft) |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|-------------------------------------------------------|
| MW-1    | 08/11/05    |                                       | 59.04                                         | 59.37                                           | 0.33                       | 3706.94                                               |
| MW-1    | 08/16/05    |                                       | 59.05                                         | 59.46                                           | 0.41                       | 3706.91                                               |
| MW-1    | 08/18/05    |                                       | 59.04                                         | 59.48                                           | 0.44                       | 3706.92                                               |
| MW-1    | 08/24/05    |                                       | 59.03                                         | 59.56                                           | 0.53                       | 3706.91                                               |
| MW-1    | 08/26/05    |                                       | 59.04                                         | 59.61                                           | 0.57                       | 3706.90                                               |
| MW-1    | 08/30/05    |                                       | 58.91                                         | 59.71                                           | 0.80                       | 3706.99                                               |
| MW-1    | 09/01/05    |                                       | 58.82                                         | 60.17                                           | 1.35                       | 3706.99                                               |
| MW-1    | 09/06/05    |                                       | 58.85                                         | 59.63                                           | 0.78                       | 3707.05                                               |
| MW-1    | 09/08/05    |                                       | 59.02                                         | 59.38                                           | 0.36                       | 3706.95                                               |
| MW-1    | 09/13/05    |                                       | 58.92                                         | 59.92                                           | 1.00                       | 3706.95                                               |
| MW-1    | 09/16/05    |                                       | 59.07                                         | 59.37                                           | 0.30                       | 3706.91                                               |
| MW-1    | 09/20/05    |                                       | 59.05                                         | 59.67                                           | 0.62                       | 3706.88                                               |
| MW-1    | 09/23/05    |                                       | 59.03                                         | 59.82                                           | 0.79                       | 3706.87                                               |
| MW-1    | 09/27/05    |                                       | 58.98                                         | 59.98                                           | 1.00                       | 3706.89                                               |
| MW-1    | 09/29/05    |                                       | 59.15                                         | 59.25                                           | 0.10                       | 3706.86                                               |
| MW-1    | 10/04/05    |                                       | 59.11                                         | 59.44                                           | 0.33                       | 3706.87                                               |
| MW-1    | 10/06/05    |                                       | 59.14                                         | 59.56                                           | 0.42                       | 3706.82                                               |
| MW-1    | 10/11/05    |                                       | 59.08                                         | 59.78                                           | 0.70                       | 3706.83                                               |
| MW-1    | 10/13/05    |                                       | 59.06                                         | 59.92                                           | 0.86                       | 3706.83                                               |
| MW-1    | 10/18/05    |                                       | 59.04                                         | 60.42                                           | 1.38                       | 3706.76                                               |
| MW-1    | 10/21/05    |                                       | 59.03                                         | 60.24                                           | 1.21                       | 3706.80                                               |
| MW-1    | 10/26/05    |                                       | 58.94                                         | 60.40                                           | 1.46                       | 3706.85                                               |
| MW-1    | 10/28/05    |                                       | 59.18                                         | 59.50                                           | 0.32                       | 3706.80                                               |
| MW-1    | 11/01/05    |                                       | 59.16                                         | 59.70                                           | 0.54                       | 3706.78                                               |
| MW-1    | 11/04/05    |                                       | 59.14                                         | 59.81                                           | 0.67                       | 3706.78                                               |
| MW-1    | 11/09/05    |                                       | 59.26                                         | 59.54                                           | 0.28                       | 3706.72                                               |
| MW-1    | 11/11/05    |                                       | 59.26                                         | 59.54                                           | 0.28                       | 3706.72                                               |
| MW-1    | 11/16/05    |                                       | 59.21                                         | 59.84                                           | 0.63                       | 3706.72                                               |
| MW-1    | 11/18/05    |                                       | 59.26                                         | 59.86                                           | 0.60                       | 3706.67                                               |
| MW-1    | 11/22/05    |                                       | 59.17                                         | 60.10                                           | 0.93                       | 3706.71                                               |
| MW-1    | 11/30/05    |                                       | 59.11                                         | 60.46                                           | 1.35                       | 3706.70                                               |
| MW-1    | 12/02/05    |                                       | 59.11                                         | 60.46                                           | 1.35                       | 3706.70                                               |
| MW-1    | 12/06/05    |                                       | 59.05                                         | 60.75                                           | 1.70                       | 3706.70                                               |
| MW-1    | 12/14/05    |                                       | 59.27                                         | 60.04                                           | 0.77                       | 3706.63                                               |
| MW-1    | 12/16/05    |                                       | 59.28                                         | 60.04                                           | 0.76                       | 3706.62                                               |
| MW-1    | 12/21/05    |                                       | 59.28                                         | 60.04                                           | 0.76                       | 3706.62                                               |
| MW-1    | 12/23/05    |                                       | 59.19                                         | 59.53                                           | 0.34                       | 3706.78                                               |
| MW-1    | 12/27/05    |                                       | 59.19                                         | 59.53                                           | 0.34                       | 3706.78                                               |
| MW-1    | 12/30/05    |                                       | 59.03                                         | 59.91                                           | 0.88                       | 3706.85                                               |
| MW-1    | 01/03/06    |                                       | 59.11                                         | 61.18                                           | 2.07                       | 3706.58                                               |
| MW-1    | 01/05/06    |                                       | 59.16                                         | 59.43                                           | 0.27                       | 3706.83                                               |
| MW-1    | 01/11/06    |                                       | 59.38                                         | 60.03                                           | 0.65                       | 3706.54                                               |
| MW-1    | 01/13/06    |                                       | 59.40                                         | 60.18                                           | 0.78                       | 3706.50                                               |
| MW-1    | 01/18/06    |                                       | 59.28                                         | 60.45                                           | 1.17                       | 3706.56                                               |
| MW-1    | 01/20/06    |                                       | 59.29                                         | 60.61                                           | 1.32                       | 3706.52                                               |
| MW-1    | 01/24/06    |                                       | 59.24                                         | 60.87                                           | 1.63                       | 3706.52                                               |
| MW-1    | 01/26/06    |                                       | 59.23                                         | 60.82                                           | 1.59                       | 3706.54                                               |
| MW-1    | 02/02/06    |                                       | 59.08                                         | 61.49                                           | 2.41                       | 3706.55                                               |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-1    | 02/08/06    |                                       | 59.00                                         | 61.90                                           | 2.90                       | 3706.55                                                 |
| MW-1    | 02/10/06    |                                       | 58.97                                         | 61.83                                           | 2.86                       | 3706.59                                                 |
| MW-1    | 02/14/06    |                                       | 59.44                                         | 60.11                                           | 0.67                       | 3706.48                                                 |
| MW-1    | 02/16/06    |                                       | 59.55                                         | 59.76                                           | 0.21                       | 3706.45                                                 |
| MW-1    | 02/21/06    |                                       | 57.45                                         | 60.15                                           | 2.70                       | 3708.13                                                 |
| MW-1    | 02/24/06    |                                       | 59.52                                         | 60.00                                           | 0.48                       | 3706.43                                                 |
| MW-1    | 02/28/06    |                                       | 59.40                                         | 60.32                                           | 0.92                       | 3706.48                                                 |
| MW-1    | 03/03/06    |                                       | 59.37                                         | 60.61                                           | 1.24                       | 3706.46                                                 |
| MW-1    | 03/06/06    |                                       | 59.45                                         | 60.84                                           | 1.39                       | 3706.35                                                 |
| MW-1    | 03/08/06    |                                       | 59.30                                         | 61.05                                           | 1.75                       | 3706.44                                                 |
| MW-1    | 03/15/06    |                                       | 59.39                                         | 60.30                                           | 0.91                       | 3706.49                                                 |
| MW-1    | 03/17/06    |                                       | 59.38                                         | 60.30                                           | 0.92                       | 3706.50                                                 |
| MW-1    | 03/21/06    |                                       | 59.52                                         | 60.28                                           | 0.76                       | 3706.38                                                 |
| MW-1    | 03/23/06    |                                       | 59.39                                         | 60.33                                           | 0.94                       | 3706.48                                                 |
| MW-1    | 03/28/06    |                                       | 59.45                                         | 60.60                                           | 1.15                       | 3706.39                                                 |
| MW-1    | 03/30/06    |                                       | 59.49                                         | 60.65                                           | 1.16                       | 3706.35                                                 |
| MW-1    | 04/04/06    |                                       | 59.38                                         | 60.98                                           | 1.60                       | 3706.39                                                 |
| MW-1    | 04/07/06    |                                       | 59.35                                         | 61.30                                           | 1.95                       | 3706.36                                                 |
| MW-1    | 04/12/06    |                                       | 59.23                                         | 61.80                                           | 2.57                       | 3706.38                                                 |
| MW-1    | 04/14/06    |                                       | 59.55                                         | 60.47                                           | 0.92                       | 3706.33                                                 |
| MW-1    | 04/18/06    |                                       | 59.43                                         | 60.82                                           | 1.39                       | 3706.37                                                 |
| MW-1    | 04/21/06    |                                       | 59.41                                         | 61.18                                           | 1.77                       | 3706.33                                                 |
| MW-1    | 04/26/06    |                                       | 59.25                                         | 61.65                                           | 2.40                       | 3706.38                                                 |
| MW-1    | 04/28/06    |                                       | 59.50                                         | 60.80                                           | 1.30                       | 3706.32                                                 |
| MW-1    | 05/04/06    |                                       | 59.41                                         | 61.25                                           | 1.84                       | 3706.32                                                 |
| MW-1    | 05/05/06    |                                       | 59.41                                         | 60.37                                           | 0.96                       | 3706.46                                                 |
| MW-1    | 05/10/06    |                                       | 59.35                                         | 60.95                                           | 1.60                       | 3706.42                                                 |
| MW-1    | 05/12/06    |                                       | 59.27                                         | 62.15                                           | 2.88                       | 3706.28                                                 |
| MW-1    | 05/16/06    |                                       | 59.37                                         | 61.82                                           | 2.45                       | 3706.26                                                 |
| MW-1    | 05/18/06    |                                       | 59.41                                         | 61.55                                           | 2.14                       | 3706.27                                                 |
| MW-1    | 05/23/06    |                                       | 59.35                                         | 61.87                                           | 2.52                       | 3706.26                                                 |
| MW-1    | 05/26/06    |                                       | 59.38                                         | 61.75                                           | 2.37                       | 3706.26                                                 |
| MW-1    | 05/30/06    |                                       | 59.43                                         | 61.62                                           | 2.19                       | 3706.24                                                 |
| MW-1    | 06/01/06    |                                       | 59.41                                         | 60.80                                           | 1.39                       | 3706.39                                                 |
| MW-1    | 06/06/06    |                                       | 59.28                                         | 62.40                                           | 3.12                       | 3706.24                                                 |
| MW-1    | 06/09/06    |                                       | 59.18                                         | 62.74                                           | 3.56                       | 3706.26                                                 |
| MW-1    | 06/13/06    |                                       | 59.27                                         | 62.50                                           | 3.23                       | 3706.23                                                 |
| MW-1    | 06/16/06    |                                       | 59.30                                         | 62.25                                           | 2.95                       | 3706.24                                                 |
| MW-1    | 06/20/06    |                                       | 59.46                                         | 61.59                                           | 2.13                       | 3706.22                                                 |
| MW-1    | 06/23/06    |                                       | 59.38                                         | 62.02                                           | 2.64                       | 3706.21                                                 |
| MW-1    | 06/27/06    |                                       | 59.74                                         | 62.08                                           | 2.34                       | 3705.90                                                 |
| MW-1    | 06/30/06    |                                       | 59.65                                         | 60.92                                           | 1.27                       | 3706.17                                                 |
| MW-1    | 07/05/06    |                                       | 59.54                                         | 61.50                                           | 1.96                       | 3706.17                                                 |
| MW-1    | 07/07/06    |                                       | 59.59                                         | 61.80                                           | 2.21                       | 3706.08                                                 |
| MW-1    | 07/11/06    |                                       | 59.62                                         | 61.31                                           | 1.69                       | 3706.13                                                 |
| MW-1    | 07/13/06    |                                       | 59.58                                         | 61.51                                           | 1.93                       | 3706.13                                                 |
| MW-1    | 07/18/06    |                                       | 59.58                                         | 61.55                                           | 1.97                       | 3706.12                                                 |
| MW-1    | 07/21/06    |                                       | 59.78                                         | 60.59                                           | 0.81                       | 3706.12                                                 |





**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCDF REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-1    | 07/25/06    |                                       | 59.67                                         | 61.20                                           | 1.53                       | 3706.11                                                 |
| MW-1    | 07/27/06    |                                       | 59.65                                         | 61.31                                           | 1.66                       | 3706.11                                                 |
| MW-1    | 08/01/06    |                                       | 59.71                                         | 61.15                                           | 1.44                       | 3706.08                                                 |
| MW-1    | 08/03/06    |                                       | 59.65                                         | 61.46                                           | 1.81                       | 3706.08                                                 |
| MW-1    | 08/09/06    |                                       | 59.62                                         | 61.74                                           | 2.12                       | 3706.06                                                 |
| MW-1    | 08/11/06    |                                       | 59.27                                         | 61.12                                           | 1.85                       | 3706.45                                                 |
| MW-1    | 08/15/06    |                                       | 59.65                                         | 61.82                                           | 2.17                       | 3706.02                                                 |
| MW-1    | 08/18/06    |                                       | 59.52                                         | 62.35                                           | 2.83                       | 3706.04                                                 |
| MW-1    | 08/25/06    |                                       | 59.67                                         | 61.80                                           | 2.13                       | 3706.01                                                 |
| MW-1    | 08/30/06    |                                       | 59.68                                         | 61.81                                           | 2.13                       | 3706.00                                                 |
| MW-1    | 09/12/06    |                                       | NM                                            | NM                                              | #VALUE!                    | #VALUE!                                                 |
| MW-1    | 09/15/06    |                                       | 58.27                                         | 61.35                                           | 3.08                       | 3707.25                                                 |
| MW-1    | 09/20/06    |                                       | 58.88                                         | 65.01                                           | 6.13                       | 3706.14                                                 |
| MW-1    | 09/26/06    |                                       | 59.08                                         | 64.38                                           | 5.30                       | 3706.08                                                 |
| MW-1    | 09/29/06    |                                       | 59.61                                         | 62.10                                           | 2.49                       | 3706.01                                                 |
| MW-1    | 10/04/06    |                                       | 59.26                                         | 63.81                                           | 4.55                       | 3706.02                                                 |
| MW-1    | 10/06/06    |                                       | 59.81                                         | 61.34                                           | 1.53                       | 3705.97                                                 |
| MW-1    | 10/12/06    |                                       | 59.44                                         | 63.14                                           | 3.70                       | 3705.98                                                 |
| MW-1    | 10/17/06    |                                       | 59.88                                         | 61.21                                           | 1.33                       | 3705.93                                                 |
| MW-1    | 10/24/06    |                                       | 59.88                                         | 61.21                                           | 1.33                       | 3705.93                                                 |
| MW-1    | 10/26/06    |                                       | 59.44                                         | 62.97                                           | 3.53                       | 3706.01                                                 |
| MW-1    | 11/22/06    |                                       | 58.91                                         | 66.21                                           | 7.30                       | 3705.92                                                 |
| MW-1    | 11/28/06    |                                       | 58.96                                         | 66.12                                           | 7.16                       | 3705.89                                                 |
| MW-1    | 12/06/06    |                                       | 58.93                                         | 66.70                                           | 7.77                       | 3705.82                                                 |
| MW-1    | 12/08/06    |                                       | 58.06                                         | 66.02                                           | 7.96                       | 3706.66                                                 |
| MW-1    | 12/12/06    |                                       | 59.34                                         | 64.75                                           | 5.41                       | 3705.80                                                 |
| MW-1    | 12/15/06    |                                       | 59.48                                         | 62.95                                           | 3.47                       | 3705.98                                                 |
| MW-1    | 12/20/06    |                                       | NM                                            | NM                                              |                            |                                                         |
| MW-1    | 12/22/06    |                                       | 59.19                                         | 65.57                                           | 6.38                       | 3705.79                                                 |
| MW-1    | 12/27/06    |                                       | 59.04                                         | 66.32                                           | 7.28                       | 3705.79                                                 |
| MW-1    | 01/03/07    |                                       | 58.79                                         | 66.93                                           | 8.14                       | 3705.90                                                 |
| MW-1    | 01/05/07    |                                       | 58.96                                         | 66.98                                           | 8.02                       | 3705.75                                                 |
| MW-1    | 01/12/07    |                                       | 58.96                                         | 67.16                                           | 8.20                       | 3705.72                                                 |
| MW-1    | 01/15/07    |                                       | 59.76                                         | 63.69                                           | 3.93                       | 3705.62                                                 |
| MW-1    | 01/18/07    |                                       | 59.35                                         | 65.54                                           | 6.19                       | 3705.66                                                 |
| MW-1    | 01/31/07    |                                       | 59.10                                         | 66.88                                           | 7.78                       | 3705.65                                                 |
| MW-1    | 02/07/07    |                                       | 58.91                                         | 67.12                                           | 8.21                       | 3705.77                                                 |
| MW-1    | 02/09/07    |                                       | 59.84                                         | 63.81                                           | 3.97                       | 3705.53                                                 |
| MW-1    | 02/13/07    |                                       | 59.64                                         | 64.67                                           | 5.03                       | 3705.56                                                 |
| MW-1    | 02/16/07    |                                       | 59.86                                         | 63.61                                           | 3.75                       | 3705.55                                                 |
| MW-1    | 02/19/07    |                                       | 59.78                                         | 63.93                                           | 4.15                       | 3705.57                                                 |
| MW-1    | 03/09/07    |                                       | 66.68                                         | 73.94                                           | 7.26                       | 3698.15                                                 |
| MW-1    | 03/13/04    |                                       | 65.05                                         | 73.54                                           | 8.49                       | 3699.58                                                 |
| MW-1    | 03/14/07    | Plugged Well                          |                                               |                                                 |                            |                                                         |
| MW-2    | 10/29/04    | 3770.91                               |                                               |                                                 |                            |                                                         |
| MW-2    | 11/04/04    |                                       | 61.70                                         | 65.44                                           | 3.74                       | 3708.59                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-2    | 11/10/04    |                                       | 61.48                                         | 67.15                                           | 5.67                       | 3708.49                                                 |
| MW-2    | 11/17/04    |                                       | 61.72                                         | 66.74                                           | 5.02                       | 3708.36                                                 |
| MW-2    | 11/24/04    |                                       | 61.81                                         | 67.10                                           | 5.29                       | 3708.23                                                 |
| MW-2    | 12/02/04    |                                       | 61.44                                         | 68.41                                           | 6.97                       | 3708.32                                                 |
| MW-2    | 12/08/04    |                                       | 61.38                                         | 68.39                                           | 7.01                       | 3708.37                                                 |
| MW-2    | 12/15/04    |                                       | 61.52                                         | 68.86                                           | 7.34                       | 3708.18                                                 |
| MW-2    | 12/27/04    |                                       | 61.65                                         | 69.09                                           | 7.44                       | 3708.03                                                 |
| MW-2    | 12/29/04    |                                       | 61.66                                         | 69.08                                           | 7.42                       | 3708.03                                                 |
| MW-2    | 01/06/05    |                                       | 61.72                                         | 69.18                                           | 7.46                       | 3707.96                                                 |
| MW-2    | 01/13/05    |                                       | 61.81                                         | 69.21                                           | 7.40                       | 3707.88                                                 |
| MW-2    | 01/19/05    |                                       | 61.85                                         | 69.25                                           | 7.40                       | 3707.84                                                 |
| MW-2    | 01/26/05    |                                       | 61.89                                         | 69.41                                           | 7.52                       | 3707.78                                                 |
| MW-2    | 02/02/05    |                                       | 61.93                                         | 69.45                                           | 7.52                       | 3707.74                                                 |
| MW-2    | 02/09/05    |                                       | 61.92                                         | 69.48                                           | 7.56                       | 3707.74                                                 |
| MW-2    | 02/16/05    |                                       | 61.96                                         | 69.57                                           | 7.61                       | 3707.69                                                 |
| MW-2    | 02/24/05    |                                       | 62.01                                         | 69.59                                           | 7.58                       | 3707.65                                                 |
| MW-2    | 03/03/05    |                                       | 62.00                                         | 69.65                                           | 7.65                       | 3707.65                                                 |
| MW-2    | 03/11/05    |                                       | 62.18                                         | 67.69                                           | 5.51                       | 3707.82                                                 |
| MW-2    | 03/18/05    |                                       | 62.04                                         | 69.69                                           | 7.65                       | 3707.61                                                 |
| MW-2    | 04/01/05    |                                       | 62.08                                         | 69.79                                           | 7.71                       | 3707.56                                                 |
| MW-2    | 04/07/05    |                                       | 62.08                                         | 69.74                                           | 7.66                       | 3707.57                                                 |
| MW-2    | 05/18/05    |                                       | 62.16                                         | 69.89                                           | 7.73                       | 3707.47                                                 |
| MW-2    | 05/23/05    |                                       | 62.19                                         | 69.90                                           | 7.71                       | 3707.45                                                 |
| MW-2    | 05/26/05    |                                       | 62.24                                         | 69.80                                           | 7.56                       | 3707.42                                                 |
| MW-2    | 06/01/05    |                                       | 62.21                                         | 69.91                                           | 7.70                       | 3707.43                                                 |
| MW-2    | 06/03/05    |                                       | 62.30                                         | 69.50                                           | 7.20                       | 3707.42                                                 |
| MW-2    | 06/07/05    |                                       | 62.24                                         | 69.91                                           | 7.67                       | 3707.40                                                 |
| MW-2    | 06/10/05    |                                       | 62.26                                         | 69.81                                           | 7.55                       | 3707.40                                                 |
| MW-2    | 06/13/05    |                                       | 62.26                                         | 69.90                                           | 7.64                       | 3707.39                                                 |
| MW-2    | 06/16/05    |                                       | 62.28                                         | 69.80                                           | 7.52                       | 3707.39                                                 |
| MW-2    | 06/20/05    |                                       | 62.29                                         | 69.95                                           | 7.66                       | 3707.36                                                 |
| MW-2    | 06/22/05    |                                       | 62.36                                         | 69.57                                           | 7.21                       | 3707.36                                                 |
| MW-2    | 06/29/05    |                                       | 62.28                                         | 69.96                                           | 7.68                       | 3707.36                                                 |
| MW-2    | 07/01/05    |                                       | 62.35                                         | 69.61                                           | 7.26                       | 3707.36                                                 |
| MW-2    | 07/06/05    |                                       | 62.31                                         | 69.99                                           | 7.68                       | 3707.33                                                 |
| MW-2    | 07/08/05    |                                       | 62.41                                         | 69.54                                           | 7.13                       | 3707.32                                                 |
| MW-2    | 07/12/05    |                                       | 62.33                                         | 70.29                                           | 7.96                       | 3707.27                                                 |
| MW-2    | 07/14/05    |                                       | 62.40                                         | 69.68                                           | 7.28                       | 3707.31                                                 |
| MW-2    | 07/19/05    |                                       | 62.35                                         | 70.04                                           | 7.69                       | 3707.29                                                 |
| MW-2    | 07/21/05    |                                       | 62.44                                         | 69.69                                           | 7.25                       | 3707.27                                                 |
| MW-2    | 07/26/05    |                                       | 62.38                                         | 70.02                                           | 7.64                       | 3707.27                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>amsl)* (ft) |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|-------------------------------------------------------|
| MW-2    | 07/28/05    |                                       | 62.49                                         | 69.74                                           | 7.25                       | 3707.22                                               |
| MW-2    | 08/02/05    |                                       | 62.40                                         | 70.03                                           | 7.63                       | 3707.25                                               |
| MW-2    | 08/04/05    |                                       | 62.47                                         | 69.76                                           | 7.29                       | 3707.24                                               |
| MW-2    | 08/09/05    |                                       | 62.41                                         | 70.05                                           | 7.64                       | 3707.24                                               |
| MW-2    | 08/11/05    |                                       | 62.48                                         | 69.82                                           | 7.34                       | 3707.22                                               |
| MW-2    | 08/16/05    |                                       | 62.45                                         | 70.09                                           | 7.64                       | 3707.20                                               |
| MW-2    | 08/18/05    |                                       | 62.50                                         | 69.85                                           | 7.35                       | 3707.20                                               |
| MW-2    | 08/24/05    |                                       | 62.41                                         | 70.11                                           | 7.70                       | 3707.23                                               |
| MW-2    | 08/26/05    |                                       | 62.51                                         | 69.89                                           | 7.38                       | 3707.18                                               |
| MW-2    | 08/30/05    |                                       | 62.46                                         | 70.08                                           | 7.62                       | 3707.19                                               |
| MW-2    | 09/01/05    |                                       | 62.52                                         | 69.83                                           | 7.31                       | 3707.18                                               |
| MW-2    | 09/06/05    |                                       | 62.47                                         | 70.08                                           | 7.61                       | 3707.18                                               |
| MW-2    | 09/08/05    |                                       | 62.51                                         | 69.81                                           | 7.30                       | 3707.20                                               |
| MW-2    | 09/13/05    |                                       | 62.48                                         | 70.07                                           | 7.59                       | 3707.18                                               |
| MW-2    | 09/16/05    |                                       | 62.51                                         | 70.04                                           | 7.53                       | 3707.16                                               |
| MW-2    | 09/20/05    |                                       | 62.50                                         | 70.09                                           | 7.59                       | 3707.16                                               |
| MW-2    | 09/23/05    |                                       | 62.53                                         | 70.03                                           | 7.50                       | 3707.14                                               |
| MW-2    | 09/27/05    |                                       | 62.50                                         | 70.15                                           | 7.65                       | 3707.15                                               |
| MW-2    | 09/29/05    |                                       | 62.56                                         | 69.94                                           | 7.38                       | 3707.13                                               |
| MW-2    | 10/04/05    |                                       | 62.52                                         | 70.12                                           | 7.60                       | 3707.14                                               |
| MW-2    | 10/06/05    |                                       | 62.61                                         | 69.98                                           | 7.37                       | 3707.08                                               |
| MW-2    | 10/11/05    |                                       | 62.53                                         | 70.14                                           | 7.61                       | 3707.12                                               |
| MW-2    | 10/13/05    |                                       | 62.55                                         | 70.08                                           | 7.53                       | 3707.12                                               |
| MW-2    | 10/18/05    |                                       | 62.56                                         | 70.18                                           | 7.62                       | 3707.09                                               |
| MW-2    | 10/21/05    |                                       | 62.58                                         | 70.17                                           | 7.59                       | 3707.08                                               |
| MW-2    | 10/26/05    |                                       | 62.57                                         | 70.20                                           | 7.63                       | 3707.08                                               |
| MW-2    | 10/28/05    |                                       | 62.61                                         | 70.07                                           | 7.46                       | 3707.07                                               |
| MW-2    | 11/01/05    |                                       | 62.59                                         | 70.21                                           | 7.62                       | 3707.06                                               |
| MW-2    | 11/04/05    |                                       | 62.60                                         | 70.20                                           | 7.60                       | 3707.06                                               |
| MW-2    | 11/09/05    |                                       | 62.64                                         | 70.28                                           | 7.64                       | 3707.01                                               |
| MW-2    | 11/11/05    |                                       | 62.64                                         | 70.29                                           | 7.65                       | 3707.01                                               |
| MW-2    | 11/16/05    |                                       | 62.63                                         | 70.27                                           | 7.64                       | 3707.02                                               |
| MW-2    | 11/18/05    |                                       | 62.68                                         | 70.17                                           | 7.49                       | 3706.99                                               |
| MW-2    | 11/22/05    |                                       | 62.65                                         | 70.29                                           | 7.64                       | 3707.00                                               |
| MW-2    | 11/30/05    |                                       | 62.66                                         | 70.33                                           | 7.67                       | 3706.98                                               |
| MW-2    | 12/02/05    |                                       | 62.71                                         | 70.22                                           | 7.51                       | 3706.96                                               |
| MW-2    | 12/06/05    |                                       | 62.70                                         | 70.36                                           | 7.66                       | 3706.95                                               |
| MW-2    | 12/14/05    |                                       | 62.72                                         | 70.39                                           | 7.67                       | 3706.92                                               |
| MW-2    | 12/16/05    |                                       | 62.73                                         | 70.38                                           | 7.65                       | 3706.92                                               |
| MW-2    | 12/21/05    |                                       | 62.75                                         | 70.25                                           | 7.50                       | 3706.92                                               |
| MW-2    | 12/23/05    |                                       | 62.78                                         | 70.23                                           | 7.45                       | 3706.90                                               |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>amsl)* (ft |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|------------------------------------------------------|
| MW-2    | 12/27/05    |                                       | 62.75                                         | 70.39                                           | 7.64                       | 3706.90                                              |
| MW-2    | 12/30/05    |                                       | 62.78                                         | 70.39                                           | 7.61                       | 3706.87                                              |
| MW-2    | 01/03/06    |                                       | 62.76                                         | 70.39                                           | 7.63                       | 3706.89                                              |
| MW-2    | 01/05/06    |                                       | 62.80                                         | 70.34                                           | 7.54                       | 3706.87                                              |
| MW-2    | 01/11/06    |                                       | 62.81                                         | 70.44                                           | 7.63                       | 3706.84                                              |
| MW-2    | 01/13/06    |                                       | 62.83                                         | 70.37                                           | 7.54                       | 3706.84                                              |
| MW-2    | 01/18/06    |                                       | 62.80                                         | 70.43                                           | 7.63                       | 3706.85                                              |
| MW-2    | 01/20/06    |                                       | 62.85                                         | 70.36                                           | 7.51                       | 3706.82                                              |
| MW-2    | 01/24/06    |                                       | 62.85                                         | 72.50                                           | 9.65                       | 3706.47                                              |
| MW-2    | 01/26/06    |                                       | 62.80                                         | 72.43                                           | 9.63                       | 3706.52                                              |
| MW-2    | 02/02/06    |                                       | 62.82                                         | 70.51                                           | 7.69                       | 3706.82                                              |
| MW-2    | 02/08/06    |                                       | 62.85                                         | 70.50                                           | 7.65                       | 3706.80                                              |
| MW-2    | 02/10/06    |                                       | 62.81                                         | 70.48                                           | 7.67                       | 3706.83                                              |
| MW-2    | 02/14/06    |                                       | 62.87                                         | 70.55                                           | 7.68                       | 3706.77                                              |
| MW-2    | 02/16/06    |                                       | 62.91                                         | 70.46                                           | 7.55                       | 3706.75                                              |
| MW-2    | 02/21/06    |                                       | 62.95                                         | 70.51                                           | 7.56                       | 3706.71                                              |
| MW-2    | 02/24/06    |                                       | 62.92                                         | 70.54                                           | 7.62                       | 3706.73                                              |
| MW-2    | 02/28/06    |                                       | 62.90                                         | 72.50                                           | 9.60                       | 3706.43                                              |
| MW-2    | 03/03/06    |                                       | 62.92                                         | 69.60                                           | 6.68                       | 3706.89                                              |
| MW-2    | 03/06/06    |                                       | 62.93                                         | 70.57                                           | 7.64                       | 3706.72                                              |
| MW-2    | 03/08/06    |                                       | 62.95                                         | 69.52                                           | 6.57                       | 3706.88                                              |
| MW-2    | 03/15/06    |                                       | 62.97                                         | 70.63                                           | 7.66                       | 3706.68                                              |
| MW-2    | 03/17/06    |                                       | 63.00                                         | 70.54                                           | 7.54                       | 3706.67                                              |
| MW-2    | 03/21/06    |                                       | 62.90                                         | 70.60                                           | 7.70                       | 3706.74                                              |
| MW-2    | 03/23/06    |                                       | 62.90                                         | 70.40                                           | 7.50                       | 3706.77                                              |
| MW-2    | 03/28/06    |                                       | 63.30                                         | 70.60                                           | 7.30                       | 3706.41                                              |
| MW-2    | 03/30/06    |                                       | 63.03                                         | 70.60                                           | 7.57                       | 3706.63                                              |
| MW-2    | 04/04/06    |                                       | 63.01                                         | 70.65                                           | 7.64                       | 3706.64                                              |
| MW-2    | 04/07/06    |                                       | 63.05                                         | 70.65                                           | 7.60                       | 3706.61                                              |
| MW-2    | 04/12/06    |                                       | 63.02                                         | 70.29                                           | 7.27                       | 3706.69                                              |
| MW-2    | 04/14/06    |                                       | 63.06                                         | 70.60                                           | 7.54                       | 3706.61                                              |
| MW-2    | 04/18/06    |                                       | 63.01                                         | 70.61                                           | 7.60                       | 3706.65                                              |
| MW-2    | 04/21/06    |                                       | 63.08                                         | 70.66                                           | 7.58                       | 3706.58                                              |
| MW-2    | 04/26/06    |                                       | 63.03                                         | 70.62                                           | 7.59                       | 3706.63                                              |
| MW-2    | 04/28/06    |                                       | 63.07                                         | 70.60                                           | 7.53                       | 3706.60                                              |
| MW-2    | 05/04/06    |                                       | 63.08                                         | 70.68                                           | 7.60                       | 3706.58                                              |
| MW-2    | 05/05/06    |                                       | 63.10                                         | 70.69                                           | 7.59                       | 3706.56                                              |
| MW-2    | 05/10/06    |                                       | 63.13                                         | 70.74                                           | 7.61                       | 3706.52                                              |
| MW-2    | 05/12/06    |                                       | 63.13                                         | 70.67                                           | 7.54                       | 3706.54                                              |
| MW-2    | 05/16/06    |                                       | 63.46                                         | 70.71                                           | 7.25                       | 3706.25                                              |
| MW-2    | 05/18/06    |                                       | 63.14                                         | 70.69                                           | 7.55                       | 3706.52                                              |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-2    | 05/23/06    |                                       | 63.14                                         | 70.73                                           | 7.59                       | 3706.52                                                 |
| MW-2    | 05/26/06    |                                       | 63.15                                         | 70.73                                           | 7.58                       | 3706.51                                                 |
| MW-2    | 05/30/06    |                                       | 63.16                                         | 70.37                                           | 7.21                       | 3706.56                                                 |
| MW-2    | 06/01/06    |                                       | 63.18                                         | 70.74                                           | 7.56                       | 3706.48                                                 |
| MW-2    | 06/06/06    |                                       | 63.17                                         | 70.28                                           | 7.11                       | 3706.57                                                 |
| MW-2    | 06/09/06    |                                       | 63.16                                         | 70.77                                           | 7.61                       | 3706.49                                                 |
| MW-2    | 06/13/06    |                                       | 63.19                                         | 70.80                                           | 7.61                       | 3706.46                                                 |
| MW-2    | 06/16/06    |                                       | 63.20                                         | 70.77                                           | 7.57                       | 3706.46                                                 |
| MW-2    | 06/20/06    |                                       | 63.20                                         | 70.77                                           | 7.57                       | 3706.46                                                 |
| MW-2    | 06/23/06    |                                       | 63.19                                         | 70.79                                           | 7.60                       | 3706.47                                                 |
| MW-2    | 06/27/06    |                                       | 63.22                                         | 70.81                                           | 7.59                       | 3706.44                                                 |
| MW-2    | 06/30/06    |                                       | 63.21                                         | 70.78                                           | 7.57                       | 3706.45                                                 |
| MW-2    | 07/05/06    |                                       | 63.22                                         | 70.80                                           | 7.58                       | 3706.44                                                 |
| MW-2    | 07/07/06    |                                       | 63.26                                         | 70.77                                           | 7.51                       | 3706.41                                                 |
| MW-2    | 07/11/06    |                                       | 63.25                                         | 70.81                                           | 7.56                       | 3706.41                                                 |
| MW-2    | 07/13/06    |                                       | 63.27                                         | 70.75                                           | 7.48                       | 3706.41                                                 |
| MW-2    | 07/18/06    |                                       | 63.28                                         | 70.84                                           | 7.56                       | 3706.38                                                 |
| MW-2    | 07/21/06    |                                       | 63.28                                         | 70.80                                           | 7.52                       | 3706.39                                                 |
| MW-2    | 07/25/06    |                                       | 63.30                                         | 70.84                                           | 7.54                       | 3706.37                                                 |
| MW-2    | 07/27/06    |                                       | 63.30                                         | 70.84                                           | 7.54                       | 3706.37                                                 |
| MW-2    | 08/01/06    |                                       | 63.33                                         | 70.87                                           | 7.54                       | 3706.34                                                 |
| MW-2    | 08/03/06    |                                       | 63.34                                         | 70.84                                           | 7.50                       | 3706.33                                                 |
| MW-2    | 08/09/06    |                                       | 63.35                                         | 70.89                                           | 7.54                       | 3706.32                                                 |
| MW-2    | 08/11/06    |                                       | 63.35                                         | 70.83                                           | 7.48                       | 3706.33                                                 |
| MW-2    | 08/15/06    |                                       | 63.38                                         | 70.91                                           | 7.53                       | 3706.29                                                 |
| MW-2    | 08/18/06    |                                       | 63.38                                         | 70.90                                           | 7.52                       | 3706.29                                                 |
| MW-2    | 08/25/06    |                                       | 63.40                                         | 70.95                                           | 7.55                       | 3706.26                                                 |
| MW-2    | 08/30/06    |                                       | 62.44                                         | 71.40                                           | 8.96                       | 3706.99                                                 |
| MW-2    | 09/15/06    |                                       | 63.40                                         | 70.98                                           | 7.58                       | 3706.26                                                 |
| MW-2    | 09/20/06    |                                       | 63.43                                         | 71.01                                           | 7.58                       | 3706.23                                                 |
| MW-2    | 09/29/06    |                                       | 63.45                                         | 71.00                                           | 7.55                       | 3706.21                                                 |
| MW-2    | 10/04/06    |                                       | 63.46                                         | 71.02                                           | 7.56                       | 3706.20                                                 |
| MW-2    | 10/06/06    |                                       | 63.49                                         | 71.97                                           | 8.48                       | 3706.02                                                 |
| MW-2    | 10/12/06    |                                       | 63.49                                         | 71.05                                           | 7.56                       | 3706.17                                                 |
| MW-2    | 10/17/06    |                                       | 63.52                                         | 71.07                                           | 7.55                       | 3706.14                                                 |
| MW-2    | 10/20/06    |                                       | 63.51                                         | 71.07                                           | 7.56                       | 3706.15                                                 |
| MW-2    | 10/24/06    |                                       | 63.48                                         | 71.07                                           | 7.59                       | 3706.18                                                 |
| MW-2    | 10/26/06    |                                       | 63.59                                         | 71.07                                           | 7.48                       | 3706.09                                                 |
| MW-2    | 11/22/06    |                                       | 63.60                                         | 71.19                                           | 7.59                       | 3706.06                                                 |
| MW-2    | 11/28/06    |                                       | 63.62                                         | 71.20                                           | 7.58                       | 3706.04                                                 |
| MW-2    | 12/06/06    |                                       | 63.71                                         | 71.28                                           | 7.57                       | 3705.95                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-2    | 12/08/06    |                                       | 63.48                                         | 71.05                                           | 7.57                       | 3706.18                                                 |
| MW-2    | 12/12/06    |                                       | 63.68                                         | 71.26                                           | 7.58                       | 3705.98                                                 |
| MW-2    | 12/15/06    |                                       | 63.62                                         | 71.07                                           | 7.45                       | 3706.06                                                 |
| MW-2    | 12/22/06    |                                       | 63.72                                         | 71.25                                           | 7.53                       | 3705.95                                                 |
| MW-2    | 12/27/06    |                                       | 63.78                                         | 71.29                                           | 7.51                       | 3705.89                                                 |
| MW-2    | 01/03/07    |                                       | 63.78                                         | 71.38                                           | 7.60                       | 3705.88                                                 |
| MW-2    | 01/05/07    |                                       | 63.82                                         | 71.36                                           | 7.54                       | 3705.85                                                 |
| MW-2    | 01/12/07    |                                       | 63.82                                         | 71.42                                           | 7.60                       | 3705.84                                                 |
| MW-2    | 01/15/07    |                                       | 63.88                                         | 71.40                                           | 7.52                       | 3705.79                                                 |
| MW-2    | 01/18/07    |                                       | 63.86                                         | 71.43                                           | 7.57                       | 3705.80                                                 |
| MW-2    | 01/31/07    |                                       | 63.88                                         | 71.46                                           | 7.58                       | 3705.78                                                 |
| MW-2    | 02/07/07    |                                       | 63.75                                         | 71.50                                           | 7.75                       | 3705.88                                                 |
| MW-2    | 02/09/07    |                                       | 63.90                                         | 71.48                                           | 7.58                       | 3705.76                                                 |
| MW-2    | 02/13/07    |                                       | 63.89                                         | 76.48                                           | 12.59                      | 3704.94                                                 |
| MW-2    | 02/16/07    |                                       | 63.89                                         | 74.46                                           | 10.57                      | 3705.28                                                 |
| MW-2    | 02/19/07    |                                       | 63.87                                         | 71.48                                           | 7.61                       | 3705.78                                                 |
| MW-2    | 02/21/07    |                                       | 63.90                                         | 71.49                                           | 7.59                       | 3705.76                                                 |
| MW-2    | 02/26/07    |                                       | 63.95                                         | 71.53                                           | 7.58                       | 3705.71                                                 |
| MW-2    | 03/01/07    |                                       | 63.96                                         | 71.55                                           | 7.59                       | 3705.70                                                 |
| MW-2    | 03/06/07    |                                       | 63.90                                         | 71.49                                           | 7.59                       | 3705.76                                                 |
| MW-2    | 03/09/07    |                                       | 63.91                                         | 71.65                                           | 7.74                       | 3705.72                                                 |
| MW-2    | 03/13/07    |                                       | 63.95                                         | 71.53                                           | 7.58                       | 3705.71                                                 |
| MW-2    | 03/23/07    |                                       | 63.97                                         | 71.53                                           | 7.56                       | 3705.69                                                 |
| MW-2    | 03/27/07    | 3768.35                               | 63.86                                         | 71.54                                           | 7.68                       | 3703.22                                                 |
| MW-2    | 04/06/07    |                                       | 64.03                                         | 71.59                                           | 7.56                       | 3703.07                                                 |
| MW-2    | 04/11/07    |                                       | 64.03                                         | 71.57                                           | 7.54                       | 3703.08                                                 |
| MW-2    | 04/17/07    |                                       | 64.03                                         | 71.50                                           | 7.47                       | 3703.09                                                 |
| MW-2    | 04/19/07    |                                       | 64.04                                         | 71.50                                           | 7.46                       | 3703.08                                                 |
| MW-2    | 04/24/07    |                                       | 64.05                                         | 71.61                                           | 7.56                       | 3703.05                                                 |
| MW-2    | 05/01/07    |                                       | 64.05                                         | 71.67                                           | 7.62                       | 3703.04                                                 |
| MW-2    | 05/21/07    |                                       | 64.11                                         | 71.67                                           | 7.56                       | 3702.99                                                 |
| MW-2    | 05/24/07    |                                       | 64.15                                         | 73.84                                           | 9.69                       | 3702.60                                                 |
| MW-2    | 06/28/07    |                                       | 64.28                                         | 71.82                                           | 7.54                       | 3702.83                                                 |
| MW-2    | 08/07/07    |                                       | 64.21                                         | 71.26                                           | 7.05                       | 3702.98                                                 |
| MW-2    | 08/17/07    |                                       | 65.34                                         | 73.88                                           | 8.54                       | 3701.60                                                 |
| MW-2    | 08/23/07    |                                       | 64.27                                         | 71.75                                           | 7.48                       | 3702.85                                                 |
| MW-2    | 08/31/07    |                                       | 64.28                                         | 71.76                                           | 7.48                       | 3702.84                                                 |
| MW-2    | 09/21/07    |                                       | 64.37                                         | 71.84                                           | 7.47                       | 3702.75                                                 |
| MW-2    | 09/28/07    |                                       | 64.36                                         | 71.84                                           | 7.48                       | 3702.76                                                 |
| MW-2    | 10/11/07    |                                       | 64.42                                         | 71.87                                           | 7.45                       | 3702.70                                                 |
| MW-2    | 10/18/07    |                                       | 64.44                                         | 71.89                                           | 7.45                       | 3702.68                                                 |





**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>amsl)* (ft |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|------------------------------------------------------|
| MW-2    | 11/13/07    |                                       | 65.40                                         | 71.98                                           | 6.58                       | 3701.86                                              |
| MW-2    | 11/27/07    |                                       | 64.57                                         | 72.05                                           | 7.48                       | 3702.55                                              |
| MW-2    | 12/13/07    |                                       | 64.65                                         | 72.12                                           | 7.47                       | 3702.47                                              |
| MW-2    | 12/17/07    |                                       | 64.67                                         | 72.12                                           | 7.45                       | 3702.45                                              |
| MW-2    | 12/31/07    |                                       | 64.42                                         | 72.18                                           | 7.76                       | 3702.65                                              |
| MW-2    | 01/16/08    |                                       | 64.47                                         | 72.21                                           | 7.74                       | 3702.60                                              |
| MW-2    | 03/05/08    |                                       | 64.92                                         | 72.36                                           | 7.44                       | 3702.20                                              |
| MW-2    | 03/26/08    |                                       | 64.99                                         | 72.40                                           | 7.41                       | 3702.14                                              |
| MW-2    | 04/02/08    |                                       | 65.04                                         | 72.47                                           | 7.43                       | 3702.08                                              |
| MW-2    | 04/04/08    |                                       | 65.03                                         | 72.48                                           | 7.45                       | 3702.09                                              |
| MW-2    | 04/24/08    |                                       | 65.08                                         | 72.53                                           | 7.45                       | 3702.04                                              |
| MW-2    | 05/06/08    |                                       | 65.16                                         | 72.59                                           | 7.43                       | 3701.96                                              |
| MW-2    | 05/27/08    |                                       | 65.32                                         | 72.32                                           | 7.00                       | 3701.88                                              |
| MW-2    | 06/04/08    |                                       | 65.32                                         | 72.73                                           | 7.41                       | 3701.81                                              |
| MW-2    | 06/24/08    |                                       | 65.49                                         | 72.90                                           | 7.41                       | 3701.64                                              |
| MW-2    | 07/02/08    |                                       | 65.56                                         | 72.95                                           | 7.39                       | 3701.57                                              |
| MW-2    | 07/15/08    |                                       | 65.65                                         | 73.04                                           | 7.39                       | 3701.48                                              |
| MW-2    | 07/22/08    |                                       | 65.71                                         | 73.06                                           | 7.35                       | 3701.43                                              |
| MW-2    | 07/31/08    |                                       | 66.82                                         | 73.17                                           | 6.35                       | 3700.48                                              |
| MW-2    | 08/07/08    |                                       | 65.91                                         | 73.25                                           | 7.34                       | 3701.23                                              |
| MW-2    | 08/29/08    |                                       | 65.30                                         | 72.63                                           | 7.33                       | 3701.84                                              |
| MW-2    | 09/16/08    |                                       | 65.33                                         | 72.69                                           | 7.36                       | 3701.81                                              |
| MW-2    | 12/16/08    |                                       | 66.02                                         | 70.54                                           | 4.52                       | 3701.58                                              |
| MW-2    | 01/29/09    |                                       | 65.80                                         | 72.45                                           | 6.65                       | 3701.45                                              |
| MW-2    | 02/04/09    |                                       | 66.27                                         | 70.44                                           | 4.17                       | 3701.39                                              |
| MW-2    | 05/26/09    |                                       | 66.02                                         | 73.15                                           | 7.13                       | 3701.15                                              |
| MW-2    | 08/12/09    |                                       | 66.52                                         | 72.49                                           | 5.97                       | 3700.84                                              |
| MW-2    | 11/19/09    |                                       | 67.63                                         | 70.09                                           | 2.46                       | 3700.31                                              |
| MW-2    | 02/17/10    |                                       | 67.33                                         | 73.76                                           | 6.43                       | 3699.96                                              |
| MW-2    | 06/02/10    |                                       | 67.80                                         | 74.25                                           | 6.45                       | 3699.56                                              |
| MW-2    | 09/23/10    |                                       | 67.95                                         | 74.29                                           | 6.34                       | 3699.42                                              |
| MW-2    | 12/28/10    |                                       | 67.97                                         | 74.44                                           | 6.47                       | 3699.38                                              |
| MW-3    | 10/29/04    | 3769.96                               | 62.90                                         | 72.15                                           | 9.25                       | 3705.53                                              |
| MW-3    | 11/04/04    |                                       | 60.05                                         | 70.21                                           | 10.16                      | 3708.23                                              |
| MW-3    | 11/10/04    |                                       | 60.19                                         | 70.25                                           | 10.06                      | 3708.11                                              |
| MW-3    | 11/17/04    |                                       | 60.34                                         | 70.26                                           | 9.92                       | 3707.98                                              |
| MW-3    | 11/24/04    |                                       | 60.50                                         | 70.26                                           | 9.76                       | 3707.85                                              |
| MW-3    | 12/02/04    |                                       | 60.52                                         | 70.10                                           | 9.58                       | 3707.86                                              |
| MW-3    | 12/08/04    |                                       | 60.48                                         | 70.02                                           | 9.54                       | 3707.91                                              |
| MW-3    | 12/15/04    |                                       | 60.68                                         | 70.22                                           | 9.54                       | 3707.71                                              |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-3    | 12/27/04    |                                       | 60.81                                         | 70.39                                           | 9.58                       | 3707.57                                                 |
| MW-3    | 12/29/04    |                                       | 60.78                                         | 70.39                                           | 9.61                       | 3707.59                                                 |
| MW-3    | 01/06/05    |                                       | 60.91                                         | 70.40                                           | 9.49                       | 3707.48                                                 |
| MW-3    | 01/13/05    |                                       | 61.04                                         | 70.46                                           | 9.42                       | 3707.37                                                 |
| MW-3    | 01/19/05    |                                       | 61.04                                         | 70.46                                           | 9.42                       | 3707.37                                                 |
| MW-3    | 01/26/05    |                                       | 61.11                                         | 70.56                                           | 9.45                       | 3707.29                                                 |
| MW-3    | 02/02/05    |                                       | 61.17                                         | 70.58                                           | 9.41                       | 3707.24                                                 |
| MW-3    | 02/09/05    |                                       | 61.28                                         | 70.55                                           | 9.27                       | 3707.15                                                 |
| MW-3    | 02/16/05    |                                       | 61.19                                         | 70.54                                           | 9.35                       | 3707.23                                                 |
| MW-3    | 02/24/05    |                                       | 61.21                                         | 70.55                                           | 9.34                       | 3707.21                                                 |
| MW-3    | 03/03/05    |                                       | 61.21                                         | 70.57                                           | 9.36                       | 3707.21                                                 |
| MW-3    | 03/11/05    |                                       | 61.19                                         | 70.45                                           | 9.26                       | 3707.24                                                 |
| MW-3    | 03/18/05    |                                       | 61.31                                         | 70.55                                           | 9.24                       | 3707.13                                                 |
| MW-3    | 04/01/05    |                                       | 61.38                                         | 70.58                                           | 9.20                       | 3707.06                                                 |
| MW-3    | 04/07/05    |                                       | 61.35                                         | 70.54                                           | 9.19                       | 3707.09                                                 |
| MW-3    | 05/18/05    |                                       | 61.45                                         | 70.60                                           | 9.15                       | 3707.00                                                 |
| MW-3    | 05/23/05    |                                       | 61.49                                         | 70.60                                           | 9.11                       | 3706.97                                                 |
| MW-3    | 05/26/05    |                                       | 61.53                                         | 70.64                                           | 9.11                       | 3706.93                                                 |
| MW-3    | 06/01/05    |                                       | 61.51                                         | 70.90                                           | 9.39                       | 3706.90                                                 |
| MW-3    | 06/03/05    |                                       | 61.51                                         | 70.59                                           | 9.08                       | 3706.95                                                 |
| MW-3    | 06/07/05    |                                       | 61.55                                         | 70.65                                           | 9.10                       | 3706.91                                                 |
| MW-3    | 06/10/05    |                                       | 61.54                                         | 70.61                                           | 9.07                       | 3706.92                                                 |
| MW-3    | 06/13/05    |                                       | 61.55                                         | 70.63                                           | 9.08                       | 3706.91                                                 |
| MW-3    | 06/16/05    |                                       | 61.56                                         | 70.60                                           | 9.04                       | 3706.91                                                 |
| MW-3    | 06/20/05    |                                       | 61.58                                         | 70.66                                           | 9.08                       | 3706.88                                                 |
| MW-3    | 06/22/05    |                                       | 61.60                                         | 70.75                                           | 9.15                       | 3706.85                                                 |
| MW-3    | 06/29/05    |                                       | 61.59                                         | 70.69                                           | 9.10                       | 3706.87                                                 |
| MW-3    | 07/01/05    |                                       | 61.62                                         | 70.74                                           | 9.12                       | 3706.84                                                 |
| MW-3    | 07/06/05    |                                       | 61.65                                         | 70.66                                           | 9.01                       | 3706.82                                                 |
| MW-3    | 07/08/05    |                                       | 61.63                                         | 70.64                                           | 9.01                       | 3706.84                                                 |
| MW-3    | 07/12/05    |                                       | 61.65                                         | 70.85                                           | 9.20                       | 3706.79                                                 |
| MW-3    | 07/14/05    |                                       | 61.64                                         | 70.67                                           | 9.03                       | 3706.83                                                 |
| MW-3    | 07/19/05    |                                       | 61.65                                         | 70.71                                           | 9.06                       | 3706.82                                                 |
| MW-3    | 07/21/05    |                                       | 61.68                                         | 70.74                                           | 9.06                       | 3706.79                                                 |
| MW-3    | 07/26/05    |                                       | 61.69                                         | 70.73                                           | 9.04                       | 3706.78                                                 |
| MW-3    | 07/28/05    |                                       | 61.70                                         | 70.71                                           | 9.01                       | 3706.77                                                 |
| MW-3    | 08/02/05    |                                       | 60.70                                         | 70.75                                           | 10.05                      | 3707.60                                                 |
| MW-3    | 08/04/05    |                                       | 61.72                                         | 70.73                                           | 9.01                       | 3706.75                                                 |
| MW-3    | 08/09/05    |                                       | 61.72                                         | 70.77                                           | 9.05                       | 3706.75                                                 |
| MW-3    | 08/11/05    |                                       | 61.73                                         | 70.75                                           | 9.02                       | 3706.74                                                 |
| MW-3    | 08/16/05    |                                       | 61.75                                         | 70.79                                           | 9.04                       | 3706.72                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-3    | 08/18/05    |                                       | 61.74                                         | 70.76                                           | 9.02                       | 3706.73                                                 |
| MW-3    | 08/24/05    |                                       | 61.76                                         | 70.86                                           | 9.10                       | 3706.70                                                 |
| MW-3    | 08/26/05    |                                       | 61.68                                         | 70.79                                           | 9.11                       | 3706.78                                                 |
| MW-3    | 08/30/05    |                                       | 61.74                                         | 70.77                                           | 9.03                       | 3706.73                                                 |
| MW-3    | 09/01/05    |                                       | 61.66                                         | 70.76                                           | 9.10                       | 3706.80                                                 |
| MW-3    | 09/06/05    |                                       | 61.75                                         | 70.81                                           | 9.06                       | 3706.72                                                 |
| MW-3    | 09/08/05    |                                       | 61.76                                         | 70.79                                           | 9.03                       | 3706.71                                                 |
| MW-3    | 09/13/05    |                                       | 61.76                                         | 70.83                                           | 9.07                       | 3706.70                                                 |
| MW-3    | 09/16/05    |                                       | 61.79                                         | 70.85                                           | 9.06                       | 3706.68                                                 |
| MW-3    | 09/20/05    |                                       | 61.81                                         | 70.80                                           | 8.99                       | 3706.67                                                 |
| MW-3    | 09/23/05    |                                       | 61.82                                         | 70.88                                           | 9.06                       | 3706.65                                                 |
| MW-3    | 09/27/05    |                                       | 61.80                                         | 70.88                                           | 9.08                       | 3706.66                                                 |
| MW-3    | 09/29/05    |                                       | 61.81                                         | 70.86                                           | 9.05                       | 3706.66                                                 |
| MW-3    | 10/04/05    |                                       | 61.81                                         | 70.83                                           | 9.02                       | 3706.66                                                 |
| MW-3    | 10/06/05    |                                       | 61.87                                         | 70.91                                           | 9.04                       | 3706.60                                                 |
| MW-3    | 10/11/05    |                                       | 61.84                                         | 70.91                                           | 9.07                       | 3706.62                                                 |
| MW-3    | 10/13/05    |                                       | 61.84                                         | 70.90                                           | 9.06                       | 3706.63                                                 |
| MW-3    | 10/18/05    |                                       | 61.84                                         | 70.92                                           | 9.08                       | 3706.62                                                 |
| MW-3    | 10/21/05    |                                       | 61.88                                         | 70.95                                           | 9.07                       | 3706.58                                                 |
| MW-3    | 10/26/05    |                                       | 61.86                                         | 70.97                                           | 9.11                       | 3706.60                                                 |
| MW-3    | 10/28/05    |                                       | 61.86                                         | 70.95                                           | 9.09                       | 3706.60                                                 |
| MW-3    | 11/01/05    |                                       | 61.89                                         | 70.98                                           | 9.09                       | 3706.57                                                 |
| MW-3    | 11/04/05    |                                       | 61.90                                         | 70.97                                           | 9.07                       | 3706.56                                                 |
| MW-3    | 11/09/05    |                                       | 61.93                                         | 71.02                                           | 9.09                       | 3706.53                                                 |
| MW-3    | 11/11/05    |                                       | 61.90                                         | 71.03                                           | 9.13                       | 3706.55                                                 |
| MW-3    | 11/16/05    |                                       | 61.96                                         | 71.04                                           | 9.08                       | 3706.50                                                 |
| MW-3    | 11/18/05    |                                       | 61.66                                         | 71.01                                           | 9.35                       | 3706.76                                                 |
| MW-3    | 11/22/05    |                                       | 61.96                                         | 71.04                                           | 9.08                       | 3706.50                                                 |
| MW-3    | 11/30/05    |                                       | 62.00                                         | 71.06                                           | 9.06                       | 3706.47                                                 |
| MW-3    | 12/02/05    |                                       | 62.00                                         | 71.05                                           | 9.05                       | 3706.47                                                 |
| MW-3    | 12/06/05    |                                       | 61.97                                         | 71.06                                           | 9.09                       | 3706.49                                                 |
| MW-3    | 12/14/05    |                                       | 62.02                                         | 71.08                                           | 9.06                       | 3706.45                                                 |
| MW-3    | 12/16/05    |                                       | 62.03                                         | 71.05                                           | 9.02                       | 3706.44                                                 |
| MW-3    | 12/21/05    |                                       | 62.03                                         | 71.07                                           | 9.04                       | 3706.44                                                 |
| MW-3    | 12/23/05    |                                       | 62.06                                         | 71.06                                           | 9.00                       | 3706.42                                                 |
| MW-3    | 12/27/05    |                                       | 62.07                                         | 71.11                                           | 9.04                       | 3706.40                                                 |
| MW-3    | 12/30/05    |                                       | 62.09                                         | 71.06                                           | 8.97                       | 3706.39                                                 |
| MW-3    | 01/03/06    |                                       | 62.10                                         | 71.11                                           | 9.01                       | 3706.37                                                 |
| MW-3    | 01/05/06    |                                       | 62.09                                         | 71.10                                           | 9.01                       | 3706.38                                                 |
| MW-3    | 01/11/06    |                                       | 62.10                                         | 71.14                                           | 9.04                       | 3706.37                                                 |
| MW-3    | 01/13/06    |                                       | 62.17                                         | 71.15                                           | 8.98                       | 3706.31                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-3    | 01/18/06    |                                       | 62.11                                         | 71.13                                           | 9.02                       | 3706.36                                                 |
| MW-3    | 01/20/06    |                                       | 62.18                                         | 71.14                                           | 8.96                       | 3706.30                                                 |
| MW-3    | 01/24/06    |                                       | 62.20                                         | 71.20                                           | 9.00                       | 3706.28                                                 |
| MW-3    | 01/26/06    |                                       | 62.19                                         | 71.21                                           | 9.02                       | 3706.28                                                 |
| MW-3    | 02/02/06    |                                       | 62.15                                         | 71.15                                           | 9.00                       | 3706.33                                                 |
| MW-3    | 02/08/06    |                                       | 62.17                                         | 71.15                                           | 8.98                       | 3706.31                                                 |
| MW-3    | 02/10/06    |                                       | 62.16                                         | 71.13                                           | 8.97                       | 3706.32                                                 |
| MW-3    | 02/14/06    |                                       | 62.20                                         | 71.20                                           | 9.00                       | 3706.28                                                 |
| MW-3    | 02/16/06    |                                       | 62.23                                         | 71.20                                           | 8.97                       | 3706.25                                                 |
| MW-3    | 02/21/06    |                                       | 62.23                                         | 71.21                                           | 8.98                       | 3706.25                                                 |
| MW-3    | 02/24/06    |                                       | 62.26                                         | 71.21                                           | 8.95                       | 3706.22                                                 |
| MW-3    | 02/28/06    |                                       | 62.21                                         | 71.50                                           | 9.29                       | 3706.22                                                 |
| MW-3    | 03/03/06    |                                       | 62.25                                         | 71.25                                           | 9.00                       | 3706.23                                                 |
| MW-3    | 03/06/06    |                                       | 62.22                                         | 71.20                                           | 8.98                       | 3706.26                                                 |
| MW-3    | 03/08/06    |                                       | 62.24                                         | 71.20                                           | 8.96                       | 3706.24                                                 |
| MW-3    | 03/15/06    |                                       | 62.28                                         | 71.23                                           | 8.95                       | 3706.20                                                 |
| MW-3    | 03/17/06    |                                       | 62.33                                         | 71.25                                           | 8.92                       | 3706.16                                                 |
| MW-3    | 03/21/06    |                                       | 62.30                                         | 71.27                                           | 8.97                       | 3706.18                                                 |
| MW-3    | 03/23/06    |                                       | 62.18                                         | 71.00                                           | 8.82                       | 3706.32                                                 |
| MW-3    | 03/28/06    |                                       | 62.30                                         | 71.25                                           | 8.95                       | 3706.18                                                 |
| MW-3    | 03/30/06    |                                       | 62.32                                         | 71.21                                           | 8.89                       | 3706.17                                                 |
| MW-3    | 04/04/06    |                                       | 62.34                                         | 71.27                                           | 8.93                       | 3706.15                                                 |
| MW-3    | 04/07/06    |                                       | 62.35                                         | 71.28                                           | 8.93                       | 3706.14                                                 |
| MW-3    | 04/12/06    |                                       | 62.35                                         | 71.29                                           | 8.94                       | 3706.13                                                 |
| MW-3    | 04/14/06    |                                       | 62.38                                         | 71.28                                           | 8.90                       | 3706.11                                                 |
| MW-3    | 04/18/06    |                                       | 62.23                                         | 71.27                                           | 9.04                       | 3706.24                                                 |
| MW-3    | 04/21/06    |                                       | 62.40                                         | 71.31                                           | 8.91                       | 3706.09                                                 |
| MW-3    | 04/26/06    |                                       | 62.34                                         | 71.28                                           | 8.94                       | 3706.14                                                 |
| MW-3    | 04/28/06    |                                       | 62.38                                         | 71.26                                           | 8.88                       | 3706.11                                                 |
| MW-3    | 05/04/06    |                                       | 62.38                                         | 71.30                                           | 8.92                       | 3706.11                                                 |
| MW-3    | 05/05/06    |                                       | 62.42                                         | 71.31                                           | 8.89                       | 3706.07                                                 |
| MW-3    | 05/10/06    |                                       | 62.45                                         | 71.35                                           | 8.90                       | 3706.04                                                 |
| MW-3    | 05/12/06    |                                       | 62.44                                         | 71.31                                           | 8.87                       | 3706.06                                                 |
| MW-3    | 05/16/06    |                                       | 62.46                                         | 71.35                                           | 8.89                       | 3706.03                                                 |
| MW-3    | 05/18/06    |                                       | 62.45                                         | 71.33                                           | 8.88                       | 3706.04                                                 |
| MW-3    | 05/23/06    |                                       | 62.45                                         | 71.38                                           | 8.93                       | 3706.04                                                 |
| MW-3    | 05/26/06    |                                       | 62.49                                         | 71.36                                           | 8.87                       | 3706.01                                                 |
| MW-3    | 05/30/06    |                                       | 62.48                                         | 71.37                                           | 8.89                       | 3706.01                                                 |
| MW-3    | 06/01/06    |                                       | 62.49                                         | 71.35                                           | 8.86                       | 3706.01                                                 |
| MW-3    | 06/06/06    |                                       | 62.50                                         | 71.37                                           | 8.87                       | 3706.00                                                 |
| MW-3    | 06/09/06    |                                       | 62.48                                         | 71.38                                           | 8.90                       | 3706.01                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-3    | 06/13/06    |                                       | 62.50                                         | 71.40                                           | 8.90                       | 3705.99                                                 |
| MW-3    | 06/16/06    |                                       | 62.57                                         | 71.43                                           | 8.86                       | 3705.93                                                 |
| MW-3    | 06/20/06    |                                       | 62.51                                         | 71.39                                           | 8.88                       | 3705.98                                                 |
| MW-3    | 06/23/06    |                                       | 62.19                                         | 70.78                                           | 8.59                       | 3706.35                                                 |
| MW-3    | 06/27/06    |                                       | 62.54                                         | 71.40                                           | 8.86                       | 3705.96                                                 |
| MW-3    | 06/30/06    |                                       | 62.54                                         | 71.40                                           | 8.86                       | 3705.96                                                 |
| MW-3    | 07/05/06    |                                       | 62.53                                         | 71.41                                           | 8.88                       | 3705.96                                                 |
| MW-3    | 07/07/06    |                                       | 62.58                                         | 71.43                                           | 8.85                       | 3705.92                                                 |
| MW-3    | 07/11/06    |                                       | 62.57                                         | 71.42                                           | 8.85                       | 3705.93                                                 |
| MW-3    | 07/13/06    |                                       | 62.59                                         | 71.43                                           | 8.84                       | 3705.91                                                 |
| MW-3    | 07/18/06    |                                       | 62.60                                         | 71.45                                           | 8.85                       | 3705.90                                                 |
| MW-3    | 07/21/06    |                                       | 62.60                                         | 71.43                                           | 8.83                       | 3705.90                                                 |
| MW-3    | 07/25/06    |                                       | 62.60                                         | 71.45                                           | 8.85                       | 3705.90                                                 |
| MW-3    | 07/27/06    |                                       | 62.61                                         | 71.44                                           | 8.83                       | 3705.89                                                 |
| MW-3    | 08/01/06    |                                       | 62.74                                         | 71.48                                           | 8.74                       | 3705.78                                                 |
| MW-3    | 08/03/06    |                                       | 62.66                                         | 71.47                                           | 8.81                       | 3705.85                                                 |
| MW-3    | 08/09/06    |                                       | 62.67                                         | 71.50                                           | 8.83                       | 3705.83                                                 |
| MW-3    | 08/11/06    |                                       | 62.66                                         | 71.47                                           | 8.81                       | 3705.85                                                 |
| MW-3    | 08/15/06    |                                       | 62.70                                         | 71.55                                           | 8.85                       | 3705.80                                                 |
| MW-3    | 08/18/06    |                                       | 62.70                                         | 71.52                                           | 8.82                       | 3705.80                                                 |
| MW-3    | 08/25/06    |                                       | 62.73                                         | 71.58                                           | 8.85                       | 3705.77                                                 |
| MW-3    | 08/30/06    |                                       | 62.44                                         | 71.60                                           | 9.16                       | 3706.01                                                 |
| MW-3    | 09/15/06    |                                       | 62.70                                         | 71.65                                           | 8.95                       | 3705.78                                                 |
| MW-3    | 09/20/06    |                                       | 62.72                                         | 71.63                                           | 8.91                       | 3705.77                                                 |
| MW-3    | 09/26/06    |                                       | 62.75                                         | 71.65                                           | 8.90                       | 3705.74                                                 |
| MW-3    | 09/29/06    |                                       | 62.77                                         | 71.68                                           | 8.91                       | 3705.72                                                 |
| MW-3    | 10/04/06    |                                       | 62.71                                         | 71.72                                           | 9.01                       | 3705.76                                                 |
| MW-3    | 10/06/06    |                                       | 62.81                                         | 71.68                                           | 8.87                       | 3705.69                                                 |
| MW-3    | 10/12/06    |                                       | 62.82                                         | 71.71                                           | 8.89                       | 3705.67                                                 |
| MW-3    | 10/17/06    |                                       | 62.82                                         | 71.73                                           | 8.91                       | 3705.67                                                 |
| MW-3    | 10/20/06    |                                       | 62.82                                         | 71.73                                           | 8.91                       | 3705.67                                                 |
| MW-3    | 10/24/06    |                                       | 62.80                                         | 71.71                                           | 8.91                       | 3705.69                                                 |
| MW-3    | 10/26/06    |                                       | 62.80                                         | 71.74                                           | 8.94                       | 3705.68                                                 |
| MW-3    | 11/22/06    |                                       | 62.95                                         | 71.83                                           | 8.88                       | 3705.54                                                 |
| MW-3    | 11/28/06    |                                       | 62.95                                         | 71.80                                           | 8.85                       | 3705.55                                                 |
| MW-3    | 12/06/06    |                                       | 63.05                                         | 71.90                                           | 8.85                       | 3705.45                                                 |
| MW-3    | 12/08/06    |                                       | 62.82                                         | 71.00                                           | 8.18                       | 3705.79                                                 |
| MW-3    | 12/12/06    |                                       | 63.02                                         | 71.80                                           | 8.78                       | 3705.49                                                 |
| MW-3    | 12/15/06    |                                       | 62.80                                         | 71.74                                           | 8.94                       | 3705.68                                                 |
| MW-3    | 12/20/06    |                                       | NM                                            | NM                                              |                            |                                                         |
| MW-3    | 12/22/06    |                                       | 63.06                                         | 71.90                                           | 8.84                       | 3705.44                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-3    | 12/27/06    |                                       | 63.02                                         | 71.92                                           | 8.90                       | 3705.47                                                 |
| MW-3    | 01/03/07    |                                       | 63.12                                         | 71.98                                           | 8.86                       | 3705.38                                                 |
| MW-3    | 01/05/07    |                                       | 63.09                                         | 71.04                                           | 7.95                       | 3705.56                                                 |
| MW-3    | 01/12/07    |                                       | 63.16                                         | 72.02                                           | 8.86                       | 3705.34                                                 |
| MW-3    | 01/15/07    |                                       | 63.18                                         | 71.80                                           | 8.62                       | 3705.36                                                 |
| MW-3    | 01/18/07    |                                       | 63.18                                         | 72.04                                           | 8.86                       | 3705.32                                                 |
| MW-3    | 01/31/07    |                                       | 63.19                                         | 72.04                                           | 8.85                       | 3705.31                                                 |
| MW-3    | 02/07/07    |                                       | 63.10                                         | 71.45                                           | 8.35                       | 3705.48                                                 |
| MW-3    | 02/09/07    |                                       | 63.21                                         | 72.07                                           | 8.86                       | 3705.29                                                 |
| MW-3    | 02/13/07    |                                       | 63.22                                         | 72.07                                           | 8.85                       | 3705.28                                                 |
| MW-3    | 02/16/07    |                                       | 62.23                                         | 72.07                                           | 9.84                       | 3706.11                                                 |
| MW-3    | 02/19/07    |                                       | 63.22                                         | 72.08                                           | 8.86                       | 3705.28                                                 |
| MW-3    | 02/21/07    |                                       | 63.22                                         | 72.11                                           | 8.89                       | 3705.27                                                 |
| MW-3    | 02/26/07    |                                       | 65.23                                         | 72.11                                           | 6.88                       | 3703.59                                                 |
| MW-3    | 03/01/07    |                                       | 63.27                                         | 72.08                                           | 8.81                       | 3705.24                                                 |
| MW-3    | 03/06/07    |                                       | 63.23                                         | 72.24                                           | 9.01                       | 3705.24                                                 |
| MW-3    | 03/09/07    |                                       | 63.25                                         | 72.09                                           | 8.84                       | 3705.25                                                 |
| MW-3    | 03/23/07    |                                       | 63.30                                         | 72.12                                           | 8.82                       | 3705.20                                                 |
| MW-3    | 03/27/07    | 3767.24                               | 63.31                                         | 72.31                                           | 9.00                       | 3702.45                                                 |
| MW-3    | 04/06/07    |                                       | 63.35                                         | 72.18                                           | 8.83                       | 3702.43                                                 |
| MW-3    | 04/11/07    |                                       | 66.13                                         | 73.17                                           | 7.04                       | 3699.95                                                 |
| MW-3    | 04/17/07    |                                       | 63.35                                         | 72.18                                           | 8.83                       | 3702.43                                                 |
| MW-3    | 04/19/07    |                                       | 63.38                                         | 72.18                                           | 8.80                       | 3702.41                                                 |
| MW-3    | 04/24/07    |                                       | 63.36                                         | 72.19                                           | 8.83                       | 3702.42                                                 |
| MW-3    | 05/01/07    |                                       | 63.41                                         | 72.21                                           | 8.80                       | 3702.38                                                 |
| MW-3    | 05/21/07    |                                       | 63.43                                         | 72.25                                           | 8.82                       | 3702.35                                                 |
| MW-3    | 05/24/07    |                                       | 63.48                                         | 72.26                                           | 8.78                       | 3702.31                                                 |
| MW-3    | 06/28/07    |                                       | 63.58                                         | 72.40                                           | 8.82                       | 3702.20                                                 |
| MW-3    | 08/07/07    |                                       | 63.52                                         | 72.36                                           | 8.84                       | 3702.26                                                 |
| MW-3    | 08/17/07    |                                       | 63.61                                         | 72.38                                           | 8.77                       | 3702.18                                                 |
| MW-3    | 08/23/07    |                                       | 63.58                                         | 72.34                                           | 8.76                       | 3702.21                                                 |
| MW-3    | 08/31/07    |                                       | 63.92                                         | 72.36                                           | 8.44                       | 3701.93                                                 |
| MW-3    | 09/21/07    |                                       | 63.71                                         | 72.44                                           | 8.73                       | 3702.09                                                 |
| MW-3    | 09/28/07    |                                       | 63.69                                         | 72.43                                           | 8.74                       | 3702.11                                                 |
| MW-3    | 10/11/07    |                                       | 63.43                                         | 72.48                                           | 9.05                       | 3702.32                                                 |
| MW-3    | 10/18/07    |                                       | 63.77                                         | 72.48                                           | 8.71                       | 3702.03                                                 |
| MW-3    | 11/13/07    |                                       | 63.83                                         | 72.56                                           | 8.73                       | 3701.97                                                 |
| MW-3    | 11/27/07    |                                       | 63.87                                         | 72.61                                           | 8.74                       | 3701.93                                                 |
| MW-3    | 12/13/07    |                                       | 63.98                                         | 72.70                                           | 8.72                       | 3701.82                                                 |
| MW-3    | 12/17/07    |                                       | 64.00                                         | 72.72                                           | 8.72                       | 3701.80                                                 |
| MW-3    | 12/31/07    |                                       | 64.05                                         | 72.73                                           | 8.68                       | 3701.76                                                 |





**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-3    | 01/16/08    |                                       | 64.08                                         | 72.77                                           | 8.69                       | 3701.73                                                 |
| MW-3    | 03/05/08    |                                       | 64.25                                         | 72.93                                           | 8.68                       | 3701.56                                                 |
| MW-3    | 03/26/08    |                                       | 64.30                                         | 72.96                                           | 8.66                       | 3701.51                                                 |
| MW-3    | 04/02/08    |                                       | 64.34                                         | 73.03                                           | 8.69                       | 3701.47                                                 |
| MW-3    | 04/04/08    |                                       | 64.36                                         | 73.05                                           | 8.69                       | 3701.45                                                 |
| MW-3    | 04/24/08    |                                       | 64.40                                         | 73.01                                           | 8.61                       | 3701.42                                                 |
| MW-3    | 05/06/08    |                                       | 64.45                                         | 73.04                                           | 8.59                       | 3701.37                                                 |
| MW-3    | 05/27/08    |                                       | 64.63                                         | 73.29                                           | 8.66                       | 3701.18                                                 |
| MW-3    | 06/04/08    |                                       | 64.75                                         | 73.32                                           | 8.57                       | 3701.08                                                 |
| MW-3    | 06/24/08    |                                       | 64.79                                         | 73.45                                           | 8.66                       | 3701.02                                                 |
| MW-3    | 07/02/08    |                                       | 64.87                                         | 73.52                                           | 8.65                       | 3700.94                                                 |
| MW-3    | 07/15/08    |                                       | 64.47                                         | 73.61                                           | 9.14                       | 3701.26                                                 |
| MW-3    | 07/22/08    |                                       | 65.04                                         | 73.66                                           | 8.62                       | 3700.78                                                 |
| MW-3    | 07/31/08    |                                       | 65.12                                         | 73.75                                           | 8.63                       | 3700.70                                                 |
| MW-3    | 08/07/08    |                                       | 65.23                                         | 73.83                                           | 8.60                       | 3700.59                                                 |
| MW-3    | 08/29/08    |                                       | 64.61                                         | 73.22                                           | 8.61                       | 3701.21                                                 |
| MW-3    | 09/16/08    |                                       | 64.71                                         | 72.97                                           | 8.26                       | 3701.17                                                 |
| MW-3    | 12/16/08    |                                       | 64.90                                         | 73.13                                           | 8.23                       | 3700.98                                                 |
| MW-3    | 01/29/09    |                                       | 65.07                                         | 73.04                                           | 7.97                       | 3700.85                                                 |
| MW-3    | 02/04/09    |                                       | 65.04                                         | 73.47                                           | 8.43                       | 3700.81                                                 |
| MW-3    | 05/26/09    |                                       | 65.32                                         | 73.75                                           | 8.43                       | 3700.53                                                 |
| MW-3    | 08/12/09    |                                       | 65.73                                         | 73.31                                           | 7.58                       | 3700.26                                                 |
| MW-3    | 11/19/09    |                                       | 66.55                                         | 72.65                                           | 6.10                       | 3699.68                                                 |
| MW-3    | 02/17/10    |                                       | 66.61                                         | 74.33                                           | 7.72                       | 3699.36                                                 |
| MW-3    | 06/02/10    |                                       | 67.09                                         | 74.80                                           | 7.71                       | 3698.96                                                 |
| MW-3    | 09/23/10    |                                       | 67.63                                         | 74.95                                           | 7.32                       | 3698.48                                                 |
| MW-3    | 12/28/10    |                                       | 67.29                                         | 74.78                                           | 7.49                       | 3698.80                                                 |
| MW-4    | 10/29/04    | 3772.74                               | 59.80                                         | 71.07                                           | 11.27                      | 3711.08                                                 |
| MW-4    | 11/04/04    |                                       | 63.06                                         | 72.51                                           | 9.45                       | 3708.12                                                 |
| MW-4    | 11/10/04    |                                       | 63.12                                         | 72.78                                           | 9.66                       | 3708.03                                                 |
| MW-4    | 11/17/04    |                                       | 63.21                                         | 73.09                                           | 9.88                       | 3707.90                                                 |
| MW-4    | 11/24/04    |                                       | 63.30                                         | 73.31                                           | 10.01                      | 3707.79                                                 |
| MW-4    | 12/02/04    |                                       | 63.31                                         | 73.30                                           | 9.99                       | 3707.78                                                 |
| MW-4    | 12/08/04    |                                       | 63.27                                         | 73.29                                           | 10.02                      | 3707.82                                                 |
| MW-4    | 12/15/04    |                                       | 63.39                                         | 73.52                                           | 10.13                      | 3707.68                                                 |
| MW-4    | 12/27/04    |                                       | 63.53                                         | 73.71                                           | 10.18                      | 3707.53                                                 |
| MW-4    | 12/29/04    |                                       | 63.54                                         | 73.61                                           | 10.07                      | 3707.54                                                 |
| MW-4    | 01/06/05    |                                       | 63.57                                         | 73.70                                           | 10.13                      | 3707.50                                                 |
| MW-4    | 01/13/05    |                                       | 63.71                                         | 73.79                                           | 10.08                      | 3707.37                                                 |
| MW-4    | 01/19/05    |                                       | 63.72                                         | 73.76                                           | 10.04                      | 3707.36                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCDF REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-4    | 01/26/05    |                                       | 61.89                                         | 69.41                                           | 7.52                       | 3709.61                                                 |
| MW-4    | 02/02/05    |                                       | 63.82                                         | 73.76                                           | 9.94                       | 3707.28                                                 |
| MW-4    | 02/09/05    |                                       | 63.86                                         | 73.77                                           | 9.91                       | 3707.24                                                 |
| MW-4    | 02/16/05    |                                       | 63.86                                         | 73.73                                           | 9.87                       | 3707.25                                                 |
| MW-4    | 02/24/05    |                                       | 63.93                                         | 73.76                                           | 9.83                       | 3707.19                                                 |
| MW-4    | 03/03/05    |                                       | 63.92                                         | 73.74                                           | 9.82                       | 3707.20                                                 |
| MW-4    | 03/11/05    |                                       | 63.79                                         | 73.26                                           | 9.47                       | 3707.39                                                 |
| MW-4    | 03/18/05    |                                       | 63.97                                         | 73.74                                           | 9.77                       | 3707.16                                                 |
| MW-4    | 04/01/05    |                                       | 64.02                                         | 73.76                                           | 9.74                       | 3707.11                                                 |
| MW-4    | 04/07/05    |                                       | 64.05                                         | 73.73                                           | 9.68                       | 3707.09                                                 |
| MW-4    | 05/18/05    |                                       | 64.11                                         | 73.76                                           | 9.65                       | 3707.04                                                 |
| MW-4    | 05/23/05    |                                       | 64.18                                         | 73.76                                           | 9.58                       | 3706.98                                                 |
| MW-4    | 05/26/05    |                                       | 64.20                                         | 73.73                                           | 9.53                       | 3706.97                                                 |
| MW-4    | 06/01/05    |                                       | 64.20                                         | 73.70                                           | 9.50                       | 3706.97                                                 |
| MW-4    | 06/03/05    |                                       | 64.20                                         | 73.64                                           | 9.44                       | 3706.98                                                 |
| MW-4    | 06/07/05    |                                       | 64.22                                         | 73.43                                           | 9.21                       | 3707.00                                                 |
| MW-4    | 06/10/05    |                                       | 64.23                                         | 73.69                                           | 9.46                       | 3706.95                                                 |
| MW-4    | 06/13/05    |                                       | 64.21                                         | 73.75                                           | 9.54                       | 3706.96                                                 |
| MW-4    | 06/16/05    |                                       | 64.24                                         | 73.66                                           | 9.42                       | 3706.95                                                 |
| MW-4    | 06/20/05    |                                       | 64.26                                         | 73.72                                           | 9.46                       | 3706.92                                                 |
| MW-4    | 06/22/05    |                                       | 64.28                                         | 73.64                                           | 9.36                       | 3706.92                                                 |
| MW-4    | 06/29/05    |                                       | 64.27                                         | 73.74                                           | 9.47                       | 3706.91                                                 |
| MW-4    | 07/01/05    |                                       | 64.29                                         | 73.62                                           | 9.33                       | 3706.91                                                 |
| MW-4    | 07/06/05    |                                       | 64.30                                         | 73.74                                           | 9.44                       | 3706.88                                                 |
| MW-4    | 07/08/05    |                                       | 64.33                                         | 73.63                                           | 9.30                       | 3706.88                                                 |
| MW-4    | 07/12/05    |                                       | 64.34                                         | 73.72                                           | 9.38                       | 3706.85                                                 |
| MW-4    | 07/14/05    |                                       | 64.34                                         | 73.66                                           | 9.32                       | 3706.86                                                 |
| MW-4    | 07/19/05    |                                       | 64.34                                         | 73.80                                           | 9.46                       | 3706.84                                                 |
| MW-4    | 07/21/05    |                                       | 64.38                                         | 73.73                                           | 9.35                       | 3706.82                                                 |
| MW-4    | 07/26/05    |                                       | 62.39                                         | 70.02                                           | 7.63                       | 3709.09                                                 |
| MW-4    | 07/28/05    |                                       | 64.41                                         | 73.69                                           | 9.28                       | 3706.80                                                 |
| MW-4    | 08/02/05    |                                       | 64.40                                         | 73.74                                           | 9.34                       | 3706.80                                                 |
| MW-4    | 08/04/05    |                                       | 64.43                                         | 73.64                                           | 9.21                       | 3706.79                                                 |
| MW-4    | 08/09/05    |                                       | 64.42                                         | 73.75                                           | 9.33                       | 3706.78                                                 |
| MW-4    | 08/11/05    |                                       | 64.45                                         | 73.64                                           | 9.19                       | 3706.77                                                 |
| MW-4    | 08/16/05    |                                       | 64.44                                         | 73.75                                           | 9.31                       | 3706.76                                                 |
| MW-4    | 08/18/05    |                                       | 64.47                                         | 73.62                                           | 9.15                       | 3706.76                                                 |
| MW-4    | 08/24/05    |                                       | 64.47                                         | 73.74                                           | 9.27                       | 3706.74                                                 |
| MW-4    | 08/26/05    |                                       | 64.48                                         | 73.65                                           | 9.17                       | 3706.75                                                 |
| MW-4    | 08/30/05    |                                       | 64.46                                         | 73.67                                           | 9.21                       | 3706.76                                                 |
| MW-4    | 09/01/05    |                                       | 64.51                                         | 73.52                                           | 9.01                       | 3706.74                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>amsl)* (ft |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|------------------------------------------------------|
| MW-4    | 09/06/05    |                                       | 64.43                                         | 73.64                                           | 9.21                       | 3706.79                                              |
| MW-4    | 09/08/05    |                                       | 64.51                                         | 73.53                                           | 9.02                       | 3706.74                                              |
| MW-4    | 09/13/05    |                                       | 64.49                                         | 73.68                                           | 9.19                       | 3706.73                                              |
| MW-4    | 09/16/05    |                                       | 64.54                                         | 73.66                                           | 9.12                       | 3706.70                                              |
| MW-4    | 09/20/05    |                                       | 64.50                                         | 73.65                                           | 9.15                       | 3706.73                                              |
| MW-4    | 09/23/05    |                                       | 64.56                                         | 73.72                                           | 9.16                       | 3706.67                                              |
| MW-4    | 09/27/05    |                                       | 64.55                                         | 74.73                                           | 10.18                      | 3706.51                                              |
| MW-4    | 09/29/05    |                                       | 64.56                                         | 73.63                                           | 9.07                       | 3706.68                                              |
| MW-4    | 10/04/05    |                                       | 64.56                                         | 73.74                                           | 9.18                       | 3706.67                                              |
| MW-4    | 10/06/05    |                                       | 64.64                                         | 73.65                                           | 9.01                       | 3706.61                                              |
| MW-4    | 10/11/05    |                                       | 64.57                                         | 73.76                                           | 9.19                       | 3706.65                                              |
| MW-4    | 10/13/05    |                                       | 64.58                                         | 73.64                                           | 9.06                       | 3706.67                                              |
| MW-4    | 10/18/05    |                                       | 64.61                                         | 73.78                                           | 9.17                       | 3706.62                                              |
| MW-4    | 10/21/05    |                                       | 64.63                                         | 73.44                                           | 8.81                       | 3706.66                                              |
| MW-4    | 10/26/05    |                                       | 64.62                                         | 73.77                                           | 9.15                       | 3706.61                                              |
| MW-4    | 10/28/05    |                                       | 64.62                                         | 73.67                                           | 9.05                       | 3706.63                                              |
| MW-4    | 11/01/05    |                                       | 64.63                                         | 73.78                                           | 9.15                       | 3706.60                                              |
| MW-4    | 11/04/05    |                                       | 64.64                                         | 73.75                                           | 9.11                       | 3706.60                                              |
| MW-4    | 11/09/05    |                                       | 64.70                                         | 73.85                                           | 9.15                       | 3706.53                                              |
| MW-4    | 11/11/05    |                                       | 64.72                                         | 73.83                                           | 9.11                       | 3706.52                                              |
| MW-4    | 11/16/05    |                                       | 64.68                                         | 73.81                                           | 9.13                       | 3706.55                                              |
| MW-4    | 11/18/05    |                                       | 64.73                                         | 73.71                                           | 8.98                       | 3706.53                                              |
| MW-4    | 11/22/05    |                                       | 64.71                                         | 73.82                                           | 9.11                       | 3706.53                                              |
| MW-4    | 11/30/05    |                                       | 64.71                                         | 73.85                                           | 9.14                       | 3706.52                                              |
| MW-4    | 12/02/05    |                                       | 64.76                                         | 73.76                                           | 9.00                       | 3706.50                                              |
| MW-4    | 12/06/05    |                                       | 64.75                                         | 73.87                                           | 9.12                       | 3706.49                                              |
| MW-4    | 12/14/05    |                                       | 64.77                                         | 73.88                                           | 9.11                       | 3706.47                                              |
| MW-4    | 12/16/05    |                                       | 64.80                                         | 73.86                                           | 9.06                       | 3706.45                                              |
| MW-4    | 12/21/05    |                                       | 64.80                                         | 73.89                                           | 9.09                       | 3706.44                                              |
| MW-4    | 12/23/05    |                                       | 64.83                                         | 73.72                                           | 8.89                       | 3706.44                                              |
| MW-4    | 12/27/05    |                                       | 64.82                                         | 73.88                                           | 9.06                       | 3706.43                                              |
| MW-4    | 12/30/05    |                                       | 64.86                                         | 73.88                                           | 9.02                       | 3706.39                                              |
| MW-4    | 01/03/06    |                                       | 64.82                                         | 73.83                                           | 9.01                       | 3706.43                                              |
| MW-4    | 01/05/06    |                                       | 64.85                                         | 73.80                                           | 8.95                       | 3706.41                                              |
| MW-4    | 01/11/06    |                                       | 64.84                                         | 73.92                                           | 9.08                       | 3706.40                                              |
| MW-4    | 01/13/06    |                                       | 64.91                                         | 73.81                                           | 8.90                       | 3706.36                                              |
| MW-4    | 01/18/06    |                                       | 64.86                                         | 73.92                                           | 9.06                       | 3706.39                                              |
| MW-4    | 01/20/06    |                                       | 64.95                                         | 73.80                                           | 8.85                       | 3706.33                                              |
| MW-4    | 01/24/06    |                                       | 64.94                                         | 73.98                                           | 9.04                       | 3706.31                                              |
| MW-4    | 01/26/06    |                                       | 64.90                                         | 73.93                                           | 9.03                       | 3706.35                                              |
| MW-4    | 02/02/06    |                                       | 64.87                                         | 73.90                                           | 9.03                       | 3706.38                                              |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-4    | 02/08/06    |                                       | 64.90                                         | 73.98                                           | 9.08                       | 3706.34                                                 |
| MW-4    | 02/10/06    |                                       | 64.87                                         | 73.97                                           | 9.10                       | 3706.37                                                 |
| MW-4    | 02/14/06    |                                       | 64.93                                         | 74.00                                           | 9.07                       | 3706.31                                                 |
| MW-4    | 02/16/06    |                                       | 65.00                                         | 73.90                                           | 8.90                       | 3706.27                                                 |
| MW-4    | 02/21/06    |                                       | 65.00                                         | 74.10                                           | 9.10                       | 3706.24                                                 |
| MW-4    | 02/24/06    |                                       | 65.00                                         | 74.00                                           | 9.00                       | 3706.26                                                 |
| MW-4    | 02/28/06    |                                       | 64.96                                         | 73.98                                           | 9.02                       | 3706.29                                                 |
| MW-4    | 03/03/06    |                                       | 64.80                                         | 74.04                                           | 9.24                       | 3706.42                                                 |
| MW-4    | 03/06/06    |                                       | 64.95                                         | 74.00                                           | 9.05                       | 3706.30                                                 |
| MW-4    | 03/08/06    |                                       | 65.02                                         | 73.93                                           | 8.91                       | 3706.25                                                 |
| MW-4    | 03/15/06    |                                       | 65.02                                         | 74.05                                           | 9.03                       | 3706.23                                                 |
| MW-4    | 03/17/06    |                                       | 65.07                                         | 73.95                                           | 8.88                       | 3706.20                                                 |
| MW-4    | 03/21/06    |                                       | 65.02                                         | 74.00                                           | 8.98                       | 3706.24                                                 |
| MW-4    | 03/23/06    |                                       | 64.96                                         | 73.81                                           | 8.85                       | 3706.32                                                 |
| MW-4    | 03/28/06    |                                       | 65.05                                         | 74.04                                           | 8.99                       | 3706.21                                                 |
| MW-4    | 03/30/06    |                                       | 65.08                                         | 73.95                                           | 8.87                       | 3706.20                                                 |
| MW-4    | 04/04/06    |                                       | 65.05                                         | 74.05                                           | 9.00                       | 3706.21                                                 |
| MW-4    | 04/07/06    |                                       | 65.10                                         | 74.05                                           | 8.95                       | 3706.16                                                 |
| MW-4    | 04/12/06    |                                       | 65.09                                         | 74.07                                           | 8.98                       | 3706.17                                                 |
| MW-4    | 04/14/06    |                                       | 65.11                                         | 74.00                                           | 8.89                       | 3706.16                                                 |
| MW-4    | 04/18/06    |                                       | 65.10                                         | 74.03                                           | 8.93                       | 3706.17                                                 |
| MW-4    | 04/21/06    |                                       | 65.15                                         | 74.05                                           | 8.90                       | 3706.12                                                 |
| MW-4    | 04/26/06    |                                       | 65.07                                         | 74.03                                           | 8.96                       | 3706.19                                                 |
| MW-4    | 04/28/06    |                                       | 65.14                                         | 73.95                                           | 8.81                       | 3706.15                                                 |
| MW-4    | 05/04/06    |                                       | 65.14                                         | 74.05                                           | 8.91                       | 3706.13                                                 |
| MW-4    | 05/05/06    |                                       | 65.17                                         | 74.08                                           | 8.91                       | 3706.10                                                 |
| MW-4    | 05/10/06    |                                       | 65.22                                         | 74.13                                           | 8.91                       | 3706.05                                                 |
| MW-4    | 05/12/06    |                                       | 65.17                                         | 74.10                                           | 8.93                       | 3706.10                                                 |
| MW-4    | 05/16/06    |                                       | 65.20                                         | 74.13                                           | 8.93                       | 3706.07                                                 |
| MW-4    | 05/18/06    |                                       | 65.20                                         | 74.03                                           | 8.83                       | 3706.08                                                 |
| MW-4    | 05/23/06    |                                       | 65.20                                         | 74.13                                           | 8.93                       | 3706.07                                                 |
| MW-4    | 05/26/06    |                                       | 65.20                                         | 74.07                                           | 8.87                       | 3706.08                                                 |
| MW-4    | 05/30/06    |                                       | 65.32                                         | 74.14                                           | 8.82                       | 3705.96                                                 |
| MW-4    | 06/01/06    |                                       | 65.23                                         | 74.05                                           | 8.82                       | 3706.05                                                 |
| MW-4    | 06/06/06    |                                       | 65.25                                         | 74.10                                           | 8.85                       | 3706.03                                                 |
| MW-4    | 06/09/06    |                                       | 65.21                                         | 74.13                                           | 8.92                       | 3706.06                                                 |
| MW-4    | 06/13/06    |                                       | 65.23                                         | 74.15                                           | 8.92                       | 3706.04                                                 |
| MW-4    | 06/16/06    |                                       | 65.25                                         | 74.15                                           | 8.90                       | 3706.02                                                 |
| MW-4    | 06/20/06    |                                       | 65.24                                         | 74.16                                           | 8.92                       | 3706.03                                                 |
| MW-4    | 06/23/06    |                                       | 65.23                                         | 74.18                                           | 8.95                       | 3706.03                                                 |
| MW-4    | 06/27/06    |                                       | 65.29                                         | 74.20                                           | 8.91                       | 3705.98                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-4    | 06/30/06    |                                       | 65.28                                         | 74.17                                           | 8.89                       | 3705.99                                                 |
| MW-4    | 07/05/06    |                                       | 65.27                                         | 74.18                                           | 8.91                       | 3706.00                                                 |
| MW-4    | 07/07/06    |                                       | 65.33                                         | 74.16                                           | 8.83                       | 3705.95                                                 |
| MW-4    | 07/11/06    |                                       | 65.31                                         | 74.21                                           | 8.90                       | 3705.96                                                 |
| MW-4    | 07/13/06    |                                       | 65.34                                         | 74.11                                           | 8.77                       | 3705.95                                                 |
| MW-4    | 07/18/06    |                                       | 65.35                                         | 74.21                                           | 8.86                       | 3705.93                                                 |
| MW-4    | 07/21/06    |                                       | 65.34                                         | 74.20                                           | 8.86                       | 3705.94                                                 |
| MW-4    | 07/25/06    |                                       | 65.36                                         | 74.25                                           | 8.89                       | 3705.91                                                 |
| MW-4    | 07/27/06    |                                       | 65.33                                         | 74.14                                           | 8.81                       | 3705.96                                                 |
| MW-4    | 08/01/06    |                                       | 65.38                                         | 74.25                                           | 8.87                       | 3705.90                                                 |
| MW-4    | 08/03/06    |                                       | 65.66                                         | 74.17                                           | 8.51                       | 3705.68                                                 |
| MW-4    | 08/09/06    |                                       | 65.40                                         | 74.27                                           | 8.87                       | 3705.88                                                 |
| MW-4    | 08/11/06    |                                       | 65.74                                         | 74.15                                           | 8.41                       | 3705.61                                                 |
| MW-4    | 08/15/06    |                                       | 65.45                                         | 74.32                                           | 8.87                       | 3705.83                                                 |
| MW-4    | 08/18/06    |                                       | 65.45                                         | 74.28                                           | 8.83                       | 3705.83                                                 |
| MW-4    | 08/25/06    |                                       | 65.46                                         | 74.35                                           | 8.89                       | 3705.81                                                 |
| MW-4    | 08/30/06    |                                       | 65.48                                         | 74.37                                           | 8.89                       | 3705.79                                                 |
| MW-4    | 09/12/06    |                                       | NM                                            | NM                                              |                            |                                                         |
| MW-4    | 09/15/06    |                                       | 65.48                                         | 74.40                                           | 8.92                       | 3705.79                                                 |
| MW-4    | 09/20/06    |                                       | 65.48                                         | 74.38                                           | 8.90                       | 3705.79                                                 |
| MW-4    | 09/26/06    |                                       | 65.51                                         | 74.40                                           | 8.89                       | 3705.76                                                 |
| MW-4    | 09/29/06    |                                       | 65.52                                         | 74.39                                           | 8.87                       | 3705.76                                                 |
| MW-4    | 10/04/06    |                                       | 65.54                                         | 74.46                                           | 8.92                       | 3705.73                                                 |
| MW-4    | 10/06/06    |                                       | 65.57                                         | 74.37                                           | 8.80                       | 3705.72                                                 |
| MW-4    | 10/12/06    |                                       | 65.57                                         | 74.48                                           | 8.91                       | 3705.70                                                 |
| MW-4    | 10/17/06    |                                       | 65.59                                         | 74.50                                           | 8.91                       | 3705.68                                                 |
| MW-4    | 10/20/06    |                                       | 65.59                                         | 74.46                                           | 8.87                       | 3705.69                                                 |
| MW-4    | 10/24/06    |                                       | 65.55                                         | 74.50                                           | 8.95                       | 3705.71                                                 |
| MW-4    | 10/26/06    |                                       | 65.59                                         | 74.48                                           | 8.89                       | 3705.68                                                 |
| MW-4    | 11/22/06    |                                       | 65.65                                         | 74.66                                           | 9.01                       | 3705.60                                                 |
| MW-4    | 11/28/06    |                                       | 65.66                                         | 74.66                                           | 9.00                       | 3705.60                                                 |
| MW-4    | 12/06/06    |                                       | 65.78                                         | 74.78                                           | 9.00                       | 3705.48                                                 |
| MW-4    | 12/08/06    |                                       | 65.57                                         | 74.48                                           | 8.91                       | 3705.70                                                 |
| MW-4    | 12/12/06    |                                       | 65.72                                         | 74.72                                           | 9.00                       | 3705.54                                                 |
| MW-4    | 12/15/06    |                                       | 65.55                                         | 74.48                                           | 8.93                       | 3705.72                                                 |
| MW-4    | 12/20/06    |                                       | NM                                            | NM                                              |                            |                                                         |
| MW-4    | 12/22/06    |                                       | 65.78                                         | 74.82                                           | 9.04                       | 3705.47                                                 |
| MW-4    | 12/27/06    |                                       | 65.8                                          | 74.82                                           | 9.02                       | 3705.45                                                 |
| MW-4    | 01/03/07    |                                       | 65.85                                         | 74.89                                           | 9.04                       | 3705.40                                                 |
| MW-4    | 01/05/07    |                                       | 65.85                                         | 74.84                                           | 8.99                       | 3705.41                                                 |
| MW-4    | 01/12/07    |                                       | 65.88                                         | 74.88                                           | 9.00                       | 3705.38                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-4    | 01/15/07    |                                       | 65.92                                         | 74.88                                           | 8.96                       | 3705.34                                                 |
| MW-4    | 01/18/07    |                                       | 65.90                                         | 74.92                                           | 9.02                       | 3705.35                                                 |
| MW-4    | 01/31/07    |                                       | 65.90                                         | 74.98                                           | 9.08                       | 3705.34                                                 |
| MW-4    | 02/07/07    |                                       | 65.81                                         | 74.84                                           | 9.03                       | 3705.44                                                 |
| MW-4    | 02/09/07    |                                       | 66.03                                         | 74.84                                           | 8.81                       | 3705.26                                                 |
| MW-4    | 02/13/07    |                                       | 65.98                                         | 74.93                                           | 8.95                       | 3705.28                                                 |
| MW-4    | 02/16/07    |                                       | 65.97                                         | 74.87                                           | 8.90                       | 3705.30                                                 |
| MW-4    | 02/19/07    |                                       | 65.97                                         | 74.84                                           | 8.87                       | 3705.31                                                 |
| MW-4    | 02/21/07    |                                       | 66.02                                         | 74.44                                           | 8.42                       | 3705.33                                                 |
| MW-4    | 02/26/07    |                                       | 66.28                                         | 75.19                                           | 8.91                       | 3704.99                                                 |
| MW-4    | 03/13/07    |                                       | 63.27                                         | 72.09                                           | 8.82                       | 3708.01                                                 |
| MW-4    | 03/14/07    | Plugged Well                          |                                               |                                                 |                            |                                                         |
| MW-4A   | 11/08/07    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-4A   | 11/13/07    | 3770.64                               | 68.70                                         | 68.94                                           | 0.24                       | 3701.90                                                 |
| MW-4A   | 11/27/07    |                                       | 68.61                                         | 69.88                                           | 1.27                       | 3701.82                                                 |
| MW-4A   | 12/13/07    |                                       | 68.38                                         | 80.20                                           | 11.82                      | 3700.31                                                 |
| MW-4A   | 12/17/07    |                                       | 68.62                                         | 70.38                                           | 1.76                       | 3701.73                                                 |
| MW-4A   | 12/31/07    |                                       | 68.16                                         | 72.71                                           | 4.55                       | 3701.73                                                 |
| MW-4A   | 01/16/08    |                                       | 68.23                                         | 72.63                                           | 4.40                       | 3701.68                                                 |
| MW-4A   | 03/05/08    |                                       | 67.58                                         | 76.52                                           | 8.94                       | 3701.58                                                 |
| MW-4A   | 03/26/08    |                                       | 67.64                                         | 76.58                                           | 8.94                       | 3701.52                                                 |
| MW-4A   | 04/02/08    |                                       | 67.72                                         | 76.63                                           | 8.91                       | 3701.45                                                 |
| MW-4A   | 04/04/08    |                                       | 67.70                                         | 76.64                                           | 8.94                       | 3701.46                                                 |
| MW-4A   | 04/24/08    |                                       | 67.76                                         | 76.66                                           | 8.90                       | 3701.41                                                 |
| MW-4A   | 05/06/08    |                                       | 67.84                                         | 76.72                                           | 8.88                       | 3701.33                                                 |
| MW-4A   | 05/27/08    |                                       | 67.94                                         | 76.84                                           | 8.90                       | 3701.23                                                 |
| MW-4A   | 06/24/08    |                                       | 68.11                                         | 76.99                                           | 8.88                       | 3701.06                                                 |
| MW-4A   | 07/02/08    |                                       | 68.19                                         | 77.08                                           | 8.89                       | 3700.98                                                 |
| MW-4A   | 07/15/08    |                                       | 68.67                                         | 75.45                                           | 6.78                       | 3700.85                                                 |
| MW-4A   | 07/22/08    |                                       | 69.28                                         | 72.85                                           | 3.57                       | 3700.77                                                 |
| MW-4A   | 07/31/08    |                                       | 69.45                                         | 72.68                                           | 3.23                       | 3700.66                                                 |
| MW-4A   | 08/07/08    |                                       | 69.54                                         | 72.42                                           | 2.88                       | 3700.62                                                 |
| MW-4A   | 08/29/08    |                                       | 64.78                                         | 74.41                                           | 9.63                       | 3704.27                                                 |
| MW-4A   | 09/16/08    |                                       | 68.12                                         | 76.21                                           | 8.09                       | 3701.19                                                 |
| MW-4A   | 12/16/08    |                                       | 68.32                                         | 76.38                                           | 8.06                       | 3700.99                                                 |
| MW-4A   | 01/29/09    |                                       | 68.48                                         | 76.48                                           | 8.00                       | 3700.84                                                 |
| MW-4A   | 02/04/09    |                                       | 68.51                                         | 76.51                                           | 8.00                       | 3700.81                                                 |
| MW-4A   | 05/26/09    |                                       | 68.74                                         | 77.02                                           | 8.28                       | 3700.53                                                 |
| MW-4A   | 08/12/09    |                                       | 69.59                                         | 74.62                                           | 5.03                       | 3700.22                                                 |
| MW-4A   | 08/17/09    |                                       | 69.45                                         | 75.35                                           | 5.90                       | 3700.22                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-4A   | 11/19/09    |                                       | 70.29                                         | 74.54                                           | 4.25                       | 3699.65                                                 |
| MW-4A   | 02/17/10    |                                       | 70.11                                         | 77.25                                           | 7.14                       | 3699.35                                                 |
| MW-4A   | 06/02/10    |                                       | 70.55                                         | 77.81                                           | 7.26                       | 3698.97                                                 |
| MW-4A   | 09/23/10    |                                       | 70.65                                         | 77.93                                           | 7.28                       | 3698.87                                                 |
| MW-4A   | 12/28/10    |                                       | 70.79                                         | 77.78                                           | 6.99                       | 3698.77                                                 |
| MW-5    | 11/06/07    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-5    | 11/13/07    | 3768.85                               | 66.26                                         | 67.62                                           | 1.36                       | 3702.37                                                 |
| MW-5    | 11/27/07    |                                       | 65.36                                         | 70.91                                           | 5.55                       | 3702.57                                                 |
| MW-5    | 12/13/07    |                                       | 65.26                                         | 72.21                                           | 6.95                       | 3702.44                                                 |
| MW-5    | 12/17/07    |                                       | 65.20                                         | 72.17                                           | 6.97                       | 3702.50                                                 |
| MW-5    | 12/31/07    |                                       | 65.21                                         | 72.29                                           | 7.08                       | 3702.47                                                 |
| MW-5    | 01/16/08    |                                       | 65.28                                         | 72.37                                           | 7.09                       | 3702.40                                                 |
| MW-5    | 03/05/08    |                                       | 65.41                                         | 72.50                                           | 7.09                       | 3702.27                                                 |
| MW-5    | 03/26/08    |                                       | 65.48                                         | 72.52                                           | 7.04                       | 3702.21                                                 |
| MW-5    | 04/02/08    |                                       | 65.55                                         | 72.61                                           | 7.06                       | 3702.14                                                 |
| MW-5    | 04/04/08    |                                       | 65.56                                         | 72.63                                           | 7.07                       | 3702.12                                                 |
| MW-5    | 04/24/08    |                                       | 65.61                                         | 72.64                                           | 7.03                       | 3702.08                                                 |
| MW-5    | 05/06/08    |                                       | 65.67                                         | 72.69                                           | 7.02                       | 3702.02                                                 |
| MW-5    | 05/27/08    |                                       | 65.81                                         | 72.86                                           | 7.05                       | 3701.88                                                 |
| MW-5    | 06/04/08    |                                       | 65.82                                         | 72.88                                           | 7.06                       | 3701.87                                                 |
| MW-5    | 06/24/08    |                                       | 65.99                                         | 73.02                                           | 7.03                       | 3701.70                                                 |
| MW-5    | 07/02/08    |                                       | 66.04                                         | 73.08                                           | 7.04                       | 3701.65                                                 |
| MW-5    | 07/15/08    |                                       | 66.14                                         | 73.18                                           | 7.04                       | 3701.55                                                 |
| MW-5    | 07/22/08    |                                       | 66.21                                         | 73.18                                           | 6.97                       | 3701.49                                                 |
| MW-5    | 07/31/08    |                                       | 66.30                                         | 73.27                                           | 6.97                       | 3701.40                                                 |
| MW-5    | 08/07/08    |                                       | 66.39                                         | 73.34                                           | 6.95                       | 3701.31                                                 |
| MW-5    | 08/29/08    |                                       | 65.79                                         | 72.74                                           | 6.95                       | 3701.91                                                 |
| MW-5    | 10/07/08    |                                       | 66.26                                         | 70.89                                           | 4.63                       | 3701.83                                                 |
| MW-5    | 12/16/08    |                                       | 66.18                                         | 72.42                                           | 6.24                       | 3701.64                                                 |
| MW-5    | 01/29/09    |                                       | 66.26                                         | 72.67                                           | 6.41                       | 3701.53                                                 |
| MW-5    | 02/04/09    |                                       | 66.38                                         | 72.28                                           | 5.90                       | 3701.50                                                 |
| MW-5    | 05/26/09    |                                       | 66.53                                         | 73.24                                           | 6.71                       | 3701.21                                                 |
| MW-5    | 08/12/09    |                                       | 66.92                                         | 73.05                                           | 6.13                       | 3700.92                                                 |
| MW-5    | 11/19/09    |                                       | 67.35                                         | 73.74                                           | 6.39                       | 3700.45                                                 |
| MW-5    | 02/17/10    |                                       | 67.75                                         | 74.13                                           | 6.38                       | 3700.05                                                 |
| MW-5    | 06/02/10    |                                       | 68.48                                         | 73.41                                           | 4.93                       | 3699.61                                                 |
| MW-5    | 09/23/10    |                                       | 68.42                                         | 74.20                                           | 5.78                       | 3699.54                                                 |
| MW-5    | 12/28/10    |                                       | 68.49                                         | 73.39                                           | 4.90                       | 3699.61                                                 |
| MW-6    | 11/06/07    | Installed Well                        |                                               |                                                 |                            |                                                         |





**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-6    | 11/13/07    | 3769.50                               | 66.27                                         | 75.46                                           | 9.19                       | 3701.71                                                 |
| MW-6    | 11/27/07    |                                       | 66.08                                         | 75.29                                           | 9.21                       | 3701.90                                                 |
| MW-6    | 12/13/07    |                                       | 66.10                                         | 75.36                                           | 9.26                       | 3701.87                                                 |
| MW-6    | 12/17/07    |                                       | 66.16                                         | 75.39                                           | 9.23                       | 3701.82                                                 |
| MW-6    | 12/31/07    |                                       | 66.19                                         | 75.42                                           | 9.23                       | 3701.79                                                 |
| MW-6    | 01/16/08    |                                       | 66.26                                         | 75.48                                           | 9.22                       | 3701.72                                                 |
| MW-6    | 03/05/08    |                                       | 66.40                                         | 75.61                                           | 9.21                       | 3701.58                                                 |
| MW-6    | 03/26/08    |                                       | 66.47                                         | 75.65                                           | 9.18                       | 3701.52                                                 |
| MW-6    | 04/02/08    |                                       | 66.52                                         | 75.71                                           | 9.19                       | 3701.46                                                 |
| MW-6    | 04/04/08    |                                       | 66.51                                         | 75.72                                           | 9.21                       | 3701.47                                                 |
| MW-6    | 04/24/08    |                                       | 66.59                                         | 75.75                                           | 9.16                       | 3701.40                                                 |
| MW-6    | 05/06/08    |                                       | 66.65                                         | 75.83                                           | 9.18                       | 3701.34                                                 |
| MW-6    | 05/27/08    |                                       | 66.76                                         | 75.95                                           | 9.19                       | 3701.22                                                 |
| MW-6    | 06/04/08    |                                       | 66.85                                         | 76.03                                           | 9.18                       | 3701.14                                                 |
| MW-6    | 06/24/08    |                                       | 66.93                                         | 76.11                                           | 9.18                       | 3701.06                                                 |
| MW-6    | 07/02/08    |                                       | 67.02                                         | 76.09                                           | 9.07                       | 3700.98                                                 |
| MW-6    | 07/15/08    |                                       | 67.11                                         | 76.26                                           | 9.15                       | 3700.88                                                 |
| MW-6    | 07/22/08    |                                       | 67.16                                         | 76.30                                           | 9.14                       | 3700.83                                                 |
| MW-6    | 07/31/08    |                                       | 67.28                                         | 76.41                                           | 9.13                       | 3700.71                                                 |
| MW-6    | 08/07/08    |                                       | 67.35                                         | 76.48                                           | 9.13                       | 3700.64                                                 |
| MW-6    | 08/29/08    |                                       | 66.77                                         | 75.88                                           | 9.11                       | 3701.23                                                 |
| MW-6    | 09/16/08    |                                       | 66.83                                         | 75.97                                           | 9.14                       | 3701.16                                                 |
| MW-6    | 12/16/08    |                                       | 67.08                                         | 75.77                                           | 8.69                       | 3700.99                                                 |
| MW-6    | 01/29/09    |                                       | 67.27                                         | 75.61                                           | 8.34                       | 3700.85                                                 |
| MW-6    | 02/04/09    |                                       | 67.30                                         | 75.93                                           | 8.63                       | 3700.78                                                 |
| MW-6    | 05/26/09    |                                       | 67.47                                         | 76.46                                           | 8.99                       | 3700.55                                                 |
| MW-6    | 08/12/09    |                                       | 67.82                                         | 76.34                                           | 8.52                       | 3700.27                                                 |
| MW-6    | 11/19/09    |                                       | 68.73                                         | 75.31                                           | 6.58                       | 3699.68                                                 |
| MW-6    | 02/17/10    |                                       | 68.74                                         | 77.19                                           | 8.45                       | 3699.37                                                 |
| MW-6    | 06/02/10    |                                       | 69.20                                         | 77.6                                            | 8.40                       | 3699.01                                                 |
| MW-6    | 09/23/10    |                                       | 69.43                                         | 77.25                                           | 7.82                       | 3698.87                                                 |
| MW-6    | 12/28/10    |                                       | 69.42                                         | 77.67                                           | 8.25                       | 3698.81                                                 |
| MW-7    | 11/06/07    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-7    | 11/13/07    | 3770.20                               | 68.16                                         | 70.54                                           | 2.38                       | 3701.65                                                 |
| MW-7    | 11/27/07    |                                       | 67.51                                         | 73.93                                           | 6.42                       | 3701.63                                                 |
| MW-7    | 12/13/07    |                                       | 67.30                                         | 75.02                                           | 7.72                       | 3701.63                                                 |
| MW-7    | 12/17/07    |                                       | 67.68                                         | 73.56                                           | 5.88                       | 3701.55                                                 |
| MW-7    | 12/31/07    |                                       | 67.37                                         | 75.08                                           | 7.71                       | 3701.56                                                 |
| MW-7    | 01/16/08    |                                       | 67.74                                         | 75.61                                           | 7.87                       | 3701.16                                                 |
| MW-7    | 03/05/08    |                                       | 67.56                                         | 75.39                                           | 7.83                       | 3701.35                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-7    | 03/26/08    |                                       | 67.79                                         | 74.66                                           | 6.87                       | 3701.28                                                 |
| MW-7    | 04/02/08    |                                       | 67.69                                         | 75.30                                           | 7.61                       | 3701.25                                                 |
| MW-7    | 04/04/08    |                                       | 67.70                                         | 75.31                                           | 7.61                       | 3701.24                                                 |
| MW-7    | 04/24/08    |                                       | 67.77                                         | 75.36                                           | 7.59                       | 3701.18                                                 |
| MW-7    | 05/06/08    |                                       | 67.84                                         | 75.43                                           | 7.59                       | 3701.11                                                 |
| MW-7    | 05/27/08    |                                       | 67.94                                         | 75.69                                           | 7.75                       | 3700.98                                                 |
| MW-7    | 06/04/08    |                                       | 68.00                                         | 75.78                                           | 7.78                       | 3700.92                                                 |
| MW-7    | 06/24/08    |                                       | 68.04                                         | 75.66                                           | 7.62                       | 3700.90                                                 |
| MW-7    | 07/02/08    |                                       | 68.19                                         | 75.88                                           | 7.69                       | 3700.74                                                 |
| MW-7    | 07/15/08    |                                       | 68.47                                         | 75.11                                           | 6.64                       | 3700.63                                                 |
| MW-7    | 07/22/08    |                                       | 69.13                                         | 72.37                                           | 3.24                       | 3700.54                                                 |
| MW-7    | 07/31/08    |                                       | 68.88                                         | 74.13                                           | 5.25                       | 3700.45                                                 |
| MW-7    | 08/07/08    |                                       | 69.25                                         | 72.76                                           | 3.51                       | 3700.37                                                 |
| MW-7    | 08/29/08    |                                       | 68.04                                         | 75.22                                           | 7.18                       | 3700.98                                                 |
| MW-7    | 09/16/08    |                                       | 68.09                                         | 75.37                                           | 7.28                       | 3700.91                                                 |
| MW-7    | 12/16/08    |                                       | 69.38                                         | 70.35                                           | 0.97                       | 3700.66                                                 |
| MW-7    | 01/29/09    |                                       | 68.85                                         | 73.51                                           | 4.66                       | 3700.58                                                 |
| MW-7    | 02/04/09    |                                       | 69.70                                         | 69.93                                           | 0.23                       | 3700.46                                                 |
| MW-7    | 05/26/09    |                                       | 68.68                                         | 76.03                                           | 7.35                       | 3700.31                                                 |
| MW-7    | 08/12/09    |                                       | 70.20                                         | 70.59                                           | 0.39                       | 3699.94                                                 |
| MW-7    | 08/17/09    |                                       | 70.20                                         | 70.82                                           | 0.62                       | 3699.90                                                 |
| MW-7    | 11/19/09    |                                       | 70.79                                         | 71.96                                           | 1.17                       | 3699.22                                                 |
| MW-7    | 02/17/10    |                                       | 70.87                                         | 72.75                                           | 1.88                       | 3699.02                                                 |
| MW-7    | 06/02/10    |                                       | 71.61                                         | 71.87                                           | 0.26                       | 3698.55                                                 |
| MW-7    | 09/23/10    |                                       | 71.43                                         | 73.23                                           | 1.80                       | 3698.49                                                 |
| MW-7    | 12/28/10    |                                       | 71.32                                         | 74.19                                           | 2.87                       | 3698.44                                                 |
| MW-8    | 11/06/07    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-8    | 11/13/07    | 3768.09                               | 65.52                                         | 73.36                                           | 7.84                       | 3701.28                                                 |
| MW-8    | 11/27/07    |                                       | 67.01                                         | 72.16                                           | 5.15                       | 3700.23                                                 |
| MW-8    | 12/13/07    |                                       | 63.26                                         | 73.17                                           | 9.91                       | 3703.19                                                 |
| MW-8    | 12/17/07    |                                       | 65.29                                         | 73.18                                           | 7.89                       | 3701.50                                                 |
| MW-8    | 12/31/07    |                                       | 65.36                                         | 73.24                                           | 7.88                       | 3701.43                                                 |
| MW-8    | 01/16/08    |                                       | 65.38                                         | 73.27                                           | 7.89                       | 3701.41                                                 |
| MW-8    | 03/05/08    |                                       | 65.53                                         | 73.45                                           | 7.92                       | 3701.25                                                 |
| MW-8    | 03/26/08    |                                       | 65.61                                         | 73.47                                           | 7.86                       | 3701.18                                                 |
| MW-8    | 04/02/08    |                                       | 65.65                                         | 73.54                                           | 7.89                       | 3701.14                                                 |
| MW-8    | 04/04/08    |                                       | 65.67                                         | 73.54                                           | 7.87                       | 3701.12                                                 |
| MW-8    | 04/24/08    |                                       | 65.71                                         | 73.62                                           | 7.91                       | 3701.07                                                 |
| MW-8    | 05/06/08    |                                       | 65.79                                         | 73.7                                            | 7.91                       | 3700.99                                                 |
| MW-8    | 05/27/08    |                                       | 65.90                                         | 73.83                                           | 7.93                       | 3700.88                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-8    | 06/04/08    |                                       | 65.94                                         | 73.87                                           | 7.93                       | 3700.84                                                 |
| MW-8    | 06/24/08    |                                       | 66.06                                         | 73.98                                           | 7.92                       | 3700.72                                                 |
| MW-8    | 07/02/08    |                                       | 66.15                                         | 74.09                                           | 7.94                       | 3700.63                                                 |
| MW-8    | 07/15/08    |                                       | 66.24                                         | 74.16                                           | 7.92                       | 3700.54                                                 |
| MW-8    | 07/22/08    |                                       | 66.29                                         | 74.19                                           | 7.90                       | 3700.50                                                 |
| MW-8    | 07/31/08    |                                       | 66.41                                         | 74.31                                           | 7.90                       | 3700.38                                                 |
| MW-8    | 08/07/08    |                                       | 66.48                                         | 74.37                                           | 7.89                       | 3700.31                                                 |
| MW-8    | 08/29/08    |                                       | 65.90                                         | 73.80                                           | 7.90                       | 3700.89                                                 |
| MW-8    | 09/16/08    |                                       | 66.04                                         | 74.68                                           | 8.64                       | 3700.62                                                 |
| MW-8    | 12/16/08    |                                       | 66.15                                         | 73.92                                           | 7.77                       | 3700.66                                                 |
| MW-8    | 01/29/09    |                                       | 66.29                                         | 73.91                                           | 7.62                       | 3700.54                                                 |
| MW-8    | 02/04/09    |                                       | 66.30                                         | 74.13                                           | 7.83                       | 3700.50                                                 |
| MW-8    | 05/26/09    |                                       | 66.58                                         | 74.51                                           | 7.93                       | 3700.20                                                 |
| MW-8    | 08/12/09    |                                       | 66.90                                         | 74.23                                           | 7.33                       | 3699.98                                                 |
| MW-8    | 11/19/09    |                                       | 67.50                                         | 74.52                                           | 7.02                       | 3699.43                                                 |
| MW-8    | 02/17/10    |                                       | 67.82                                         | 75.41                                           | 7.59                       | 3699.02                                                 |
| MW-8    | 06/02/10    |                                       | 68.28                                         | 75.78                                           | 7.50                       | 3698.66                                                 |
| MW-8    | 09/23/10    |                                       | 68.41                                         | 75.86                                           | 7.45                       | 3698.53                                                 |
| MW-8    | 12/28/10    |                                       | 68.48                                         | 75.86                                           | 7.38                       | 3698.47                                                 |
|         |             |                                       |                                               |                                                 |                            |                                                         |
| MW-9    | 11/07/07    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-9    | 11/13/07    | 3767.64                               | 64.07                                         | 72.74                                           | 8.67                       | 3702.14                                                 |
| MW-9    | 11/27/07    |                                       | 65.72                                         | 72.38                                           | 6.66                       | 3700.82                                                 |
| MW-9    | 12/13/07    |                                       | 64.17                                         | 73.11                                           | 8.94                       | 3701.99                                                 |
| MW-9    | 12/17/07    |                                       | 64.21                                         | 73.06                                           | 8.85                       | 3701.97                                                 |
| MW-9    | 12/31/07    |                                       | 64.23                                         | 73.06                                           | 8.83                       | 3701.95                                                 |
| MW-9    | 01/16/08    |                                       | 64.28                                         | 73.16                                           | 8.88                       | 3701.89                                                 |
| MW-9    | 03/05/08    |                                       | 64.44                                         | 73.30                                           | 8.86                       | 3701.74                                                 |
| MW-9    | 03/26/08    |                                       | 64.49                                         | 73.31                                           | 8.82                       | 3701.69                                                 |
| MW-9    | 04/02/08    |                                       | 64.54                                         | 73.39                                           | 8.85                       | 3701.64                                                 |
| MW-9    | 04/04/08    |                                       | 64.56                                         | 73.40                                           | 8.84                       | 3701.62                                                 |
| MW-9    | 04/24/08    |                                       | 64.59                                         | 73.44                                           | 8.85                       | 3701.59                                                 |
| MW-9    | 05/06/08    |                                       | 64.66                                         | 73.51                                           | 8.85                       | 3701.52                                                 |
| MW-9    | 05/27/08    |                                       | 64.80                                         | 73.63                                           | 8.83                       | 3701.38                                                 |
| MW-9    | 06/04/08    |                                       | 64.82                                         | 73.68                                           | 8.86                       | 3701.36                                                 |
| MW-9    | 06/24/08    |                                       | 64.97                                         | 73.81                                           | 8.84                       | 3701.21                                                 |
| MW-9    | 07/02/08    |                                       | 65.05                                         | 73.89                                           | 8.84                       | 3701.13                                                 |
| MW-9    | 07/15/08    |                                       | 65.14                                         | 73.98                                           | 8.84                       | 3701.04                                                 |
| MW-9    | 07/22/08    |                                       | 65.21                                         | 74.03                                           | 8.82                       | 3700.97                                                 |
| MW-9    | 07/31/08    |                                       | 65.32                                         | 74.12                                           | 8.80                       | 3700.87                                                 |
| MW-9    | 08/07/08    |                                       | 65.41                                         | 74.21                                           | 8.80                       | 3700.78                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCDF REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-9    | 08/29/08    |                                       | 64.78                                         | 73.59                                           | 8.81                       | 3701.41                                                 |
| MW-9    | 09/16/08    |                                       | 64.80                                         | 73.64                                           | 8.84                       | 3701.38                                                 |
| MW-9    | 12/16/08    |                                       | 65.06                                         | 73.48                                           | 8.42                       | 3701.19                                                 |
| MW-9    | 01/29/09    |                                       | 65.21                                         | 73.65                                           | 8.44                       | 3701.04                                                 |
| MW-9    | 02/04/09    |                                       | 65.25                                         | 73.66                                           | 8.41                       | 3701.00                                                 |
| MW-9    | 05/26/09    |                                       | 65.46                                         | 74.18                                           | 8.72                       | 3700.74                                                 |
| MW-9    | 08/12/09    |                                       | 65.89                                         | 73.89                                           | 8.00                       | 3700.43                                                 |
| MW-9    | 11/19/09    |                                       | 66.46                                         | 74.14                                           | 7.68                       | 3699.91                                                 |
| MW-9    | 02/17/10    |                                       | 66.71                                         | 75.05                                           | 8.34                       | 3699.55                                                 |
| MW-9    | 06/02/10    |                                       | 67.20                                         | 75.50                                           | 8.30                       | 3699.16                                                 |
| MW-9    | 09/23/10    |                                       | 67.36                                         | 75.15                                           | 7.79                       | 3699.08                                                 |
| MW-9    | 12/28/10    |                                       | 67.41                                         | 75.52                                           | 8.11                       | 3698.98                                                 |
| MW-10   | 11/07/07    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-10   | 11/13/07    | 3767.51                               | 64.94                                         | 66.57                                           | 1.63                       | 3702.30                                                 |
| MW-10   | 11/27/07    |                                       | 64.05                                         | 71.04                                           | 6.99                       | 3702.31                                                 |
| MW-10   | 12/13/07    |                                       | 63.92                                         | 72.03                                           | 8.11                       | 3702.25                                                 |
| MW-10   | 12/17/07    |                                       | 63.96                                         | 72.02                                           | 8.06                       | 3702.22                                                 |
| MW-10   | 12/31/07    |                                       | 63.94                                         | 72.09                                           | 8.15                       | 3702.23                                                 |
| MW-10   | 01/16/08    |                                       | 64.03                                         | 72.17                                           | 8.14                       | 3702.14                                                 |
| MW-10   | 03/05/08    |                                       | 64.19                                         | 72.32                                           | 8.13                       | 3701.98                                                 |
| MW-10   | 03/26/08    |                                       | 64.24                                         | 72.35                                           | 8.11                       | 3701.93                                                 |
| MW-10   | 04/02/08    |                                       | 64.29                                         | 72.42                                           | 8.13                       | 3701.88                                                 |
| MW-10   | 04/04/08    |                                       | 64.30                                         | 72.41                                           | 8.11                       | 3701.87                                                 |
| MW-10   | 04/24/08    |                                       | 64.33                                         | 72.47                                           | 8.14                       | 3701.84                                                 |
| MW-10   | 05/06/08    |                                       | 64.41                                         | 72.55                                           | 8.14                       | 3701.76                                                 |
| MW-10   | 05/27/08    |                                       | 64.57                                         | 72.69                                           | 8.12                       | 3701.60                                                 |
| MW-10   | 06/04/08    |                                       | 64.58                                         | 72.73                                           | 8.15                       | 3701.59                                                 |
| MW-10   | 06/24/08    |                                       | 64.73                                         | 72.85                                           | 8.12                       | 3701.44                                                 |
| MW-10   | 07/02/08    |                                       | 64.81                                         | 72.92                                           | 8.11                       | 3701.36                                                 |
| MW-10   | 07/15/08    |                                       | 64.90                                         | 73.02                                           | 8.12                       | 3701.27                                                 |
| MW-10   | 07/22/08    |                                       | 64.97                                         | 73.08                                           | 8.11                       | 3701.20                                                 |
| MW-10   | 07/31/08    |                                       | 65.07                                         | 73.15                                           | 8.08                       | 3701.11                                                 |
| MW-10   | 08/07/08    |                                       | 65.17                                         | 73.22                                           | 8.05                       | 3701.01                                                 |
| MW-10   | 08/29/08    |                                       | 64.53                                         | 72.67                                           | 8.14                       | 3701.64                                                 |
| MW-10   | 09/16/08    |                                       | 64.57                                         | 72.74                                           | 8.17                       | 3701.59                                                 |
| MW-10   | 12/16/08    |                                       | 65.06                                         | 71.39                                           | 6.33                       | 3701.41                                                 |
| MW-10   | 01/29/09    |                                       | 65.00                                         | 72.51                                           | 7.51                       | 3701.27                                                 |
| MW-10   | 02/04/09    |                                       | 65.16                                         | 72.00                                           | 6.84                       | 3701.22                                                 |
| MW-10   | 05/26/09    |                                       | 65.26                                         | 73.03                                           | 7.77                       | 3700.97                                                 |
| MW-10   | 08/12/09    |                                       | 65.64                                         | 72.86                                           | 7.22                       | 3700.68                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-10   | 11/19/09    |                                       | 66.31                                         | 72.59                                           | 6.28                       | 3700.16                                                 |
| MW-10   | 02/17/10    |                                       | 66.53                                         | 73.95                                           | 7.42                       | 3699.76                                                 |
| MW-10   | 06/02/10    |                                       | 66.99                                         | 74.24                                           | 7.25                       | 3699.40                                                 |
| MW-10   | 09/23/10    |                                       | 67.12                                         | 74.08                                           | 6.96                       | 3699.32                                                 |
| MW-10   | 12/28/10    |                                       | 67.20                                         | 74.44                                           | 7.24                       | 3699.20                                                 |
| MW-11   | 11/07/07    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-11   | 11/13/07    | 3769.37                               | 66.58                                         | 68.13                                           | 1.55                       | 3702.53                                                 |
| MW-11   | 11/27/07    |                                       | 65.36                                         | 72.38                                           | 7.02                       | 3702.85                                                 |
| MW-11   | 12/13/07    |                                       | 65.39                                         | 72.82                                           | 7.43                       | 3702.75                                                 |
| MW-11   | 12/17/07    |                                       | 64.46                                         | 72.84                                           | 8.38                       | 3703.53                                                 |
| MW-11   | 12/31/07    |                                       | 65.77                                         | 72.90                                           | 7.13                       | 3702.42                                                 |
| MW-11   | 01/16/08    |                                       | 65.86                                         | 72.99                                           | 7.13                       | 3702.33                                                 |
| MW-11   | 03/05/08    |                                       | 65.98                                         | 73.10                                           | 7.12                       | 3702.22                                                 |
| MW-11   | 03/26/08    |                                       | 66.04                                         | 73.17                                           | 7.13                       | 3702.15                                                 |
| MW-11   | 04/02/08    |                                       | 66.10                                         | 73.24                                           | 7.14                       | 3702.09                                                 |
| MW-11   | 04/04/08    |                                       | 66.10                                         | 73.25                                           | 7.15                       | 3702.09                                                 |
| MW-11   | 04/24/08    |                                       | 66.14                                         | 73.26                                           | 7.12                       | 3702.06                                                 |
| MW-11   | 05/06/08    |                                       | 66.22                                         | 73.33                                           | 7.11                       | 3701.98                                                 |
| MW-11   | 05/27/08    |                                       | 66.37                                         | 73.37                                           | 7.00                       | 3701.85                                                 |
| MW-11   | 06/24/08    |                                       | 66.54                                         | 73.64                                           | 7.10                       | 3701.66                                                 |
| MW-11   | 07/02/08    |                                       | 66.61                                         | 73.69                                           | 7.08                       | 3701.59                                                 |
| MW-11   | 07/15/08    |                                       | 66.72                                         | 73.77                                           | 7.05                       | 3701.49                                                 |
| MW-11   | 07/22/08    |                                       | 66.77                                         | 73.80                                           | 7.03                       | 3701.44                                                 |
| MW-11   | 07/31/08    |                                       | 66.86                                         | 73.89                                           | 7.03                       | 3701.35                                                 |
| MW-11   | 08/07/08    |                                       | 66.97                                         | 73.98                                           | 7.01                       | 3701.24                                                 |
| MW-11   | 08/29/08    |                                       | 66.35                                         | 73.29                                           | 6.94                       | 3701.87                                                 |
| MW-11   | 09/16/08    |                                       | 66.40                                         | 73.28                                           | 6.88                       | 3701.83                                                 |
| MW-11   | 12/16/08    |                                       | 66.67                                         | 73.35                                           | 6.68                       | 3701.60                                                 |
| MW-11   | 01/29/09    |                                       | 66.85                                         | 73.24                                           | 6.39                       | 3701.47                                                 |
| MW-11   | 02/04/09    |                                       | 67.07                                         | 72.40                                           | 5.33                       | 3701.42                                                 |
| MW-11   | 05/26/09    |                                       | 67.16                                         | 73.90                                           | 6.74                       | 3701.10                                                 |
| MW-11   | 08/12/09    |                                       | 67.50                                         | 73.55                                           | 6.05                       | 3700.87                                                 |
| MW-11   | 11/19/09    |                                       | 68.52                                         | 71.42                                           | 2.90                       | 3700.37                                                 |
| MW-11   | 02/17/10    |                                       | 68.33                                         | 74.66                                           | 6.33                       | 3700.00                                                 |
| MW-11   | 06/02/10    |                                       | 68.78                                         | 75.28                                           | 6.50                       | 3699.59                                                 |
| MW-11   | 09/23/10    |                                       | 68.88                                         | 75.18                                           | 6.30                       | 3699.52                                                 |
| MW-11   | 12/28/10    |                                       | 68.96                                         | 75.43                                           | 6.47                       | 3699.41                                                 |
| MW-12   | 11/07/07    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-12   | 11/13/07    | 3769.68                               | 67.36                                         | 68.13                                           | 0.77                       | 3702.19                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-12   | 11/27/07    |                                       | 66.41                                         | 72.84                                           | 6.43                       | 3702.21                                                 |
| MW-12   | 12/13/08    |                                       | 66.16                                         | 73.31                                           | 7.15                       | 3702.34                                                 |
| MW-12   | 12/17/07    |                                       | 66.22                                         | 74.29                                           | 8.07                       | 3702.13                                                 |
| MW-12   | 12/31/07    |                                       | 66.23                                         | 74.36                                           | 8.13                       | 3702.11                                                 |
| MW-12   | 01/16/08    |                                       | 66.41                                         | 74.53                                           | 8.12                       | 3701.93                                                 |
| MW-12   | 03/05/08    |                                       | 66.44                                         | 74.58                                           | 8.14                       | 3701.90                                                 |
| MW-12   | 03/26/08    |                                       | 66.49                                         | 74.63                                           | 8.14                       | 3701.85                                                 |
| MW-12   | 04/02/08    |                                       | 66.57                                         | 74.71                                           | 8.14                       | 3701.77                                                 |
| MW-12   | 04/04/08    |                                       | 66.59                                         | 74.7                                            | 8.11                       | 3701.75                                                 |
| MW-12   | 04/24/08    |                                       | 66.61                                         | 74.73                                           | 8.12                       | 3701.73                                                 |
| MW-12   | 05/06/08    |                                       | 66.68                                         | 74.8                                            | 8.12                       | 3701.66                                                 |
| MW-12   | 05/27/08    |                                       | 66.82                                         | 74.92                                           | 8.10                       | 3701.52                                                 |
| MW-12   | 06/24/08    |                                       | 67.00                                         | 75.09                                           | 8.09                       | 3701.35                                                 |
| MW-12   | 07/02/08    |                                       | 67.07                                         | 75.17                                           | 8.10                       | 3701.27                                                 |
| MW-12   | 07/15/08    |                                       | 67.17                                         | 75.23                                           | 8.06                       | 3701.18                                                 |
| MW-12   | 07/22/08    |                                       | 67.22                                         | 75.24                                           | 8.02                       | 3701.14                                                 |
| MW-12   | 07/31/08    |                                       | 67.33                                         | 75.33                                           | 8.00                       | 3701.03                                                 |
| MW-12   | 08/07/08    |                                       | 67.42                                         | 75.4                                            | 7.98                       | 3700.94                                                 |
| MW-12   | 08/29/08    |                                       | 66.82                                         | 74.78                                           | 7.96                       | 3701.55                                                 |
| MW-12   | 09/16/08    |                                       | 66.88                                         | 73.40                                           | 6.52                       | 3701.72                                                 |
| MW-12   | 12/16/08    |                                       | 67.12                                         | 74.78                                           | 7.66                       | 3701.30                                                 |
| MW-12   | 01/29/09    |                                       | 67.31                                         | 74.75                                           | 7.44                       | 3701.14                                                 |
| MW-12   | 02/04/09    |                                       | 67.27                                         | 75.05                                           | 7.78                       | 3701.13                                                 |
| MW-12   | 05/26/09    |                                       | 67.54                                         | 75.38                                           | 7.84                       | 3700.85                                                 |
| MW-12   | 08/12/09    |                                       | 67.93                                         | 75.09                                           | 7.16                       | 3700.57                                                 |
| MW-12   | 11/19/09    |                                       | 68.85                                         | 73.79                                           | 4.94                       | 3700.01                                                 |
| MW-12   | 02/17/10    |                                       | 68.79                                         | 76.15                                           | 7.36                       | 3699.68                                                 |
| MW-12   | 06/02/10    |                                       | 69.25                                         | 76.63                                           | 7.38                       | 3699.29                                                 |
| MW-12   | 09/23/10    |                                       | 69.36                                         | 76.68                                           | 7.32                       | 3699.19                                                 |
| MW-12   | 12/28/10    |                                       | 69.44                                         | 76.82                                           | 7.38                       | 3699.10                                                 |
| MW-13   | 11/08/07    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-13   | 11/13/07    | 3771.14                               |                                               | 69.50                                           |                            | 3701.64                                                 |
| MW-13   | 11/27/07    |                                       |                                               | 69.61                                           |                            | 3701.53                                                 |
| MW-13   | 12/17/07    |                                       |                                               | 69.66                                           |                            | 3701.48                                                 |
| MW-13   | 12/19/07    |                                       |                                               | 69.65                                           |                            | 3701.49                                                 |
| MW-13   | 03/05/08    |                                       | 69.74                                         | 70.88                                           |                            | 3700.26                                                 |
| MW-13   | 03/26/08    |                                       | 69.73                                         | 71.22                                           | 1.49                       | 3701.16                                                 |
| MW-13   | 04/02/08    |                                       | 69.45                                         | 71.37                                           | 1.92                       | 3701.37                                                 |
| MW-13   | 04/04/08    |                                       | 69.46                                         | 71.36                                           | 1.90                       | 3701.37                                                 |
| MW-13   | 04/24/08    |                                       | 69.74                                         | 71.81                                           | 2.07                       | 3701.06                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-13   | 05/06/08    |                                       | 69.79                                         | 71.88                                           | 2.09                       | 3701.01                                                 |
| MW-13   | 05/27/08    |                                       | 69.82                                         | 72.53                                           | 2.71                       | 3700.87                                                 |
| MW-13   | 06/04/08    |                                       | 69.85                                         | 73.73                                           | 3.88                       | 3700.65                                                 |
| MW-13   | 06/24/08    |                                       | 70.25                                         | 71.40                                           | 1.15                       | 3700.70                                                 |
| MW-13   | 07/02/08    |                                       | 70.29                                         | 72.66                                           | 2.37                       | 3700.46                                                 |
| MW-13   | 07/15/08    |                                       | 70.53                                         | 71.11                                           | 0.58                       | 3700.51                                                 |
| MW-13   | 07/22/08    |                                       | 70.60                                         | 70.99                                           | 0.39                       | 3700.48                                                 |
| MW-13   | 07/31/08    |                                       | 70.69                                         | 71.13                                           | 0.44                       | 3700.38                                                 |
| MW-13   | 08/07/08    |                                       | 70.75                                         | 71.31                                           | 0.56                       | 3700.30                                                 |
| MW-13   | 08/29/08    |                                       | 70.13                                         | 71.04                                           | 0.91                       | 3700.86                                                 |
| MW-13   | 09/16/08    |                                       | 70.10                                         | 71.11                                           | 1.01                       | 3700.87                                                 |
| MW-13   | 12/16/08    |                                       | 70.48                                         | 70.70                                           | 0.22                       | 3700.62                                                 |
| MW-13   | 01/29/09    |                                       | 70.38                                         | 72.01                                           | 1.63                       | 3700.49                                                 |
| MW-13   | 02/04/09    |                                       | 70.68                                         | 70.80                                           | 0.12                       | 3700.44                                                 |
| MW-13   | 05/26/09    |                                       | 70.72                                         | 72.06                                           | 1.34                       | 3700.20                                                 |
| MW-13   | 08/12/09    |                                       | 71.18                                         | 71.38                                           | 0.20                       | 3699.93                                                 |
| MW-13   | 08/17/09    |                                       | 71.23                                         | 71.50                                           | 0.27                       | 3699.87                                                 |
| MW-13   | 11/19/10    |                                       | 71.73                                         | 71.86                                           | 0.13                       | 3699.39                                                 |
| MW-13   | 02/17/10    |                                       | 72.07                                         | 72.55                                           | 0.48                       | 3698.99                                                 |
| MW-13   | 06/02/10    |                                       | 72.58                                         | 72.79                                           | 0.21                       | 3698.53                                                 |
| MW-13   | 09/23/10    |                                       | 72.58                                         | 73.38                                           | 0.80                       | 3698.44                                                 |
| MW-13   | 12/28/10    |                                       | 72.38                                         | 74.66                                           | 2.28                       | 3698.41                                                 |
| MW-14   | 11/08/07    | Installed Well                        | TD=95.25                                      |                                                 |                            |                                                         |
| MW-14   | 11/13/07    | 3771.62                               |                                               | 70.34                                           |                            | 3701.28                                                 |
| MW-14   | 11/27/07    |                                       |                                               | 70.44                                           |                            | 3701.18                                                 |
| MW-14   | 12/17/07    |                                       |                                               | 70.48                                           |                            | 3701.14                                                 |
| MW-14   | 12/19/07    |                                       |                                               | 70.48                                           |                            | 3701.14                                                 |
| MW-14   | 03/05/08    |                                       |                                               | 70.78                                           |                            | 3700.84                                                 |
| MW-14   | 03/26/08    |                                       |                                               | 70.85                                           |                            | 3700.77                                                 |
| MW-14   | 04/02/08    |                                       |                                               | 70.74                                           |                            | 3700.88                                                 |
| MW-14   | 04/24/08    |                                       |                                               | 70.81                                           |                            | 3700.81                                                 |
| MW-14   | 05/27/08    |                                       |                                               | 70.87                                           |                            | 3700.75                                                 |
| MW-14   | 06/24/08    |                                       |                                               | 70.91                                           |                            | 3700.71                                                 |
| MW-14   | 08/29/08    |                                       |                                               | 71.12                                           |                            | 3700.50                                                 |
| MW-14   | 09/16/08    |                                       |                                               | 71.17                                           |                            | 3700.45                                                 |
| MW-14   | 12/16/08    |                                       |                                               | 71.35                                           |                            | 3700.27                                                 |
| MW-14   | 01/29/09    |                                       |                                               | 71.52                                           |                            | 3700.10                                                 |
| MW-14   | 02/04/09    |                                       |                                               | 71.54                                           |                            | 3700.08                                                 |
| MW-14   | 05/26/09    |                                       |                                               | 71.80                                           |                            | 3699.82                                                 |
| MW-14   | 08/12/09    |                                       |                                               | 72.03                                           |                            | 3699.59                                                 |





**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-14   | 11/19/10    |                                       |                                               | 72.40                                           |                            | 3699.22                                                 |
| MW-14   | 02/17/10    |                                       |                                               | 72.67                                           |                            | 3698.95                                                 |
| MW-14   | 06/02/10    |                                       |                                               | 72.99                                           |                            | 3698.63                                                 |
| MW-14   | 09/23/10    |                                       |                                               | 73.58                                           |                            | 3698.04                                                 |
| MW-14   | 12/28/10    |                                       |                                               | 73.64                                           | sheen                      | 3697.98                                                 |
| MW-15   | 11/08/07    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-15   | 11/13/07    | 3771.49                               |                                               | 69.94                                           | 0.00                       | 3701.55                                                 |
| MW-15   | 11/27/07    |                                       | 69.70                                         | 70.07                                           | 0.37                       | 3701.73                                                 |
| MW-15   | 12/13/07    |                                       | 68.08                                         | 69.74                                           | 1.66                       | 3703.14                                                 |
| MW-15   | 12/17/07    |                                       | 69.67                                         | 70.59                                           | 0.92                       | 3701.67                                                 |
| MW-15   | 12/31/08    |                                       | 69.68                                         | 71.07                                           | 1.39                       | 3701.58                                                 |
| MW-15   | 01/16/08    |                                       | 69.82                                         | 71.42                                           | 1.60                       | 3701.41                                                 |
| MW-15   | 03/05/08    |                                       | 68.97                                         | 75.52                                           | 6.55                       | 3701.44                                                 |
| MW-15   | 03/26/08    |                                       | 68.85                                         | 76.27                                           | 7.42                       | 3701.42                                                 |
| MW-15   | 04/02/08    |                                       | 68.88                                         | 76.37                                           | 7.49                       | 3701.37                                                 |
| MW-15   | 04/04/08    |                                       | 68.89                                         | 76.36                                           | 7.47                       | 3701.37                                                 |
| MW-15   | 04/24/08    |                                       | 68.92                                         | 76.56                                           | 7.64                       | 3701.31                                                 |
| MW-15   | 05/06/08    |                                       | 68.98                                         | 76.63                                           | 7.65                       | 3701.25                                                 |
| MW-15   | 05/27/08    |                                       | 69.09                                         | 76.82                                           | 7.73                       | 3701.12                                                 |
| MW-15   | 06/04/08    |                                       | 69.05                                         | 76.92                                           | 7.87                       | 3701.14                                                 |
| MW-15   | 06/24/08    |                                       | 69.31                                         | 76.67                                           | 7.36                       | 3700.97                                                 |
| MW-15   | 07/02/08    |                                       | 69.35                                         | 77.00                                           | 7.65                       | 3700.88                                                 |
| MW-15   | 07/15/08    |                                       | 69.50                                         | 76.85                                           | 7.35                       | 3700.78                                                 |
| MW-15   | 07/22/08    |                                       | 70.00                                         | 74.73                                           | 4.73                       | 3700.71                                                 |
| MW-15   | 07/31/08    |                                       | 70.02                                         | 75.22                                           | 5.20                       | 3700.61                                                 |
| MW-15   | 08/07/08    |                                       | 70.24                                         | 74.63                                           | 4.39                       | 3700.53                                                 |
| MW-15   | 08/29/08    |                                       | 69.15                                         | 76.49                                           | 7.34                       | 3701.13                                                 |
| MW-15   | 09/16/08    |                                       | 69.19                                         | 76.51                                           | 7.32                       | 3701.09                                                 |
| MW-15   | 12/16/08    |                                       | 70.47                                         | 71.82                                           | 1.35                       | 3700.80                                                 |
| MW-15   | 01/29/09    |                                       | 69.55                                         | 76.77                                           | 7.22                       | 3700.75                                                 |
| MW-15   | 02/04/09    |                                       | 70.69                                         | 71.77                                           | 1.08                       | 3700.62                                                 |
| MW-15   | 05/26/09    |                                       | 69.78                                         | 77.37                                           | 7.59                       | 3700.46                                                 |
| MW-15   | 08/12/09    |                                       | 70.88                                         | 73.71                                           | 2.83                       | 3700.14                                                 |
| MW-15   | 08/17/09    |                                       | 70.35                                         | 76.48                                           | 6.13                       | 3700.13                                                 |
| MW-15   | 11/19/10    |                                       | 71.88                                         | 72.28                                           | 0.40                       | 3699.54                                                 |
| MW-15   | 02/17/10    |                                       | 71.14                                         | 77.81                                           | 6.67                       | 3699.25                                                 |
| MW-15   | 06/02/10    |                                       | 71.61                                         | 78.29                                           | 6.68                       | 3698.85                                                 |
| MW-15   | 09/23/10    |                                       | 71.85                                         | 77.92                                           | 6.07                       | 3698.71                                                 |
| MW-15   | 12/28/10    |                                       | 71.91                                         | 77.89                                           | 5.98                       | 3698.66                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-16   | 11/09/07    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-16   | 11/13/07    | 3769.23                               |                                               | 68.22                                           |                            | 3701.01                                                 |
| MW-16   | 11/27/07    |                                       |                                               | 68.23                                           |                            | 3701.00                                                 |
| MW-16   | 12/17/07    |                                       |                                               | 68.32                                           |                            | 3700.91                                                 |
| MW-16   | 12/19/07    |                                       |                                               | 68.31                                           |                            | 3700.92                                                 |
| MW-16   | 03/05/08    |                                       |                                               | 68.63                                           |                            | 3700.60                                                 |
| MW-16   | 03/26/08    |                                       |                                               | 66.58                                           |                            | 3702.65                                                 |
| MW-16   | 04/02/08    |                                       |                                               | 68.59                                           |                            | 3700.64                                                 |
| MW-16   | 04/24/08    |                                       |                                               | 68.64                                           |                            | 3700.59                                                 |
| MW-16   | 05/27/08    |                                       |                                               | 68.71                                           |                            | 3700.52                                                 |
| MW-16   | 06/24/08    |                                       |                                               | 68.85                                           |                            | 3700.38                                                 |
| MW-16   | 08/29/08    |                                       |                                               | 68.96                                           |                            | 3700.27                                                 |
| MW-16   | 09/16/08    |                                       |                                               | 69.02                                           |                            | 3700.21                                                 |
| MW-16   | 12/16/08    |                                       |                                               | 69.17                                           |                            | 3700.06                                                 |
| MW-16   | 01/29/09    |                                       |                                               | 69.35                                           |                            | 3699.88                                                 |
| MW-16   | 02/04/09    |                                       |                                               | 69.36                                           |                            | 3699.87                                                 |
| MW-16   | 05/26/09    |                                       |                                               | 69.63                                           |                            | 3699.60                                                 |
| MW-16   | 08/12/09    |                                       |                                               | 69.88                                           |                            | 3699.35                                                 |
| MW-16   | 11/19/09    |                                       |                                               | 70.22                                           |                            | 3699.01                                                 |
| MW-16   | 06/02/10    |                                       |                                               | 70.82                                           |                            | 3698.41                                                 |
| MW-16   | 09/23/10    |                                       |                                               | 71.37                                           |                            | 3697.86                                                 |
| MW-16   | 12/28/10    |                                       |                                               | 71.47                                           | sheen                      | 3697.76                                                 |
| MW-17   | 11/13/07    | Installed Well                        | TD=87.80                                      |                                                 |                            |                                                         |
| MW-17   | 11/14/07    | 3767.45                               |                                               | 64.61                                           |                            | 3702.84                                                 |
| MW-17   | 11/27/07    |                                       |                                               | 64.67                                           |                            | 3702.78                                                 |
| MW-17   | 12/17/07    |                                       |                                               | 64.41                                           |                            | 3703.04                                                 |
| MW-17   | 12/20/07    |                                       |                                               | 64.40                                           |                            | 3703.05                                                 |
| MW-17   | 03/05/08    |                                       |                                               | 65.02                                           |                            | 3702.43                                                 |
| MW-17   | 03/26/08    |                                       |                                               | 64.97                                           |                            | 3702.48                                                 |
| MW-17   | 04/02/08    |                                       |                                               | 64.99                                           |                            | 3702.46                                                 |
| MW-17   | 04/24/08    |                                       |                                               | 65.04                                           |                            | 3702.41                                                 |
| MW-17   | 05/27/08    |                                       |                                               | 70.87                                           |                            | 3696.58                                                 |
| MW-17   | 06/10/08    |                                       |                                               | 65.18                                           |                            | 3702.27                                                 |
| MW-17   | 06/24/08    |                                       |                                               | 65.19                                           |                            | 3702.26                                                 |
| MW-17   | 08/29/08    |                                       |                                               | 65.46                                           |                            | 3701.99                                                 |
| MW-17   | 09/16/08    |                                       |                                               | 65.41                                           |                            | 3702.04                                                 |
| MW-17   | 12/16/08    |                                       |                                               | 65.59                                           |                            | 3701.86                                                 |
| MW-17   | 01/29/09    |                                       |                                               | 65.75                                           |                            | 3701.70                                                 |
| MW-17   | 02/04/09    |                                       |                                               | 65.77                                           |                            | 3701.68                                                 |
| MW-17   | 05/26/09    |                                       |                                               | 66.06                                           |                            | 3701.39                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-17   | 08/12/09    |                                       |                                               | 66.30                                           |                            | 3701.15                                                 |
| MW-17   | 11/19/09    |                                       |                                               | 66.59                                           |                            | 3700.86                                                 |
| MW-17   | 02/17/10    |                                       |                                               | 66.90                                           |                            | 3700.55                                                 |
| MW-17   | 06/02/10    |                                       |                                               | 67.22                                           |                            | 3700.23                                                 |
| MW-17   | 09/23/10    |                                       |                                               | 67.82                                           |                            | 3699.63                                                 |
| MW-17   | 12/28/10    |                                       |                                               | 67.86                                           |                            | 3699.59                                                 |
|         |             |                                       |                                               |                                                 |                            |                                                         |
| MW-18   | 11/13/07    | Installed Well                        | TD=82.22                                      |                                                 |                            |                                                         |
| MW-18   | 11/14/07    | 3769.79                               |                                               | 71.39                                           |                            | 3698.40                                                 |
| MW-18   | 11/27/07    |                                       |                                               | 67.03                                           |                            | 3702.76                                                 |
| MW-18   | 12/17/07    |                                       |                                               | 67.05                                           |                            | 3702.74                                                 |
| MW-18   | 12/20/07    |                                       |                                               | 67.03                                           |                            | 3702.76                                                 |
| MW-18   | 03/05/08    |                                       |                                               | 67.36                                           |                            | 3702.43                                                 |
| MW-18   | 03/26/08    |                                       |                                               | 67.31                                           |                            | 3702.48                                                 |
| MW-18   | 04/02/08    |                                       |                                               | 67.33                                           |                            | 3702.46                                                 |
| MW-18   | 04/24/08    |                                       |                                               | 67.38                                           |                            | 3702.41                                                 |
| MW-18   | 05/27/08    |                                       |                                               | 67.44                                           |                            | 3702.35                                                 |
| MW-18   | 06/24/08    |                                       |                                               | 67.49                                           |                            | 3702.30                                                 |
| MW-18   | 08/29/08    |                                       |                                               | 67.69                                           |                            | 3702.10                                                 |
| MW-18   | 09/16/08    |                                       |                                               | 67.74                                           |                            | 3702.05                                                 |
| MW-18   | 12/16/08    |                                       |                                               | 67.94                                           |                            | 3701.85                                                 |
| MW-18   | 01/29/09    |                                       |                                               | 68.11                                           |                            | 3701.68                                                 |
| MW-18   | 02/04/09    |                                       |                                               | 68.13                                           |                            | 3701.66                                                 |
| MW-18   | 05/26/09    |                                       |                                               | 68.39                                           |                            | 3701.40                                                 |
| MW-18   | 08/12/09    |                                       |                                               | 68.64                                           |                            | 3701.15                                                 |
| MW-18   | 11/19/09    |                                       |                                               | 68.95                                           |                            | 3700.84                                                 |
| MW-18   | 02/17/10    |                                       |                                               | 69.25                                           |                            | 3700.54                                                 |
| MW-18   | 06/02/10    |                                       |                                               | 69.56                                           |                            | 3700.23                                                 |
| MW-18   | 09/23/10    |                                       |                                               | 70.18                                           |                            | 3699.61                                                 |
| MW-18   | 12/28/10    |                                       |                                               | 70.22                                           |                            | 3699.57                                                 |
|         |             |                                       |                                               |                                                 |                            |                                                         |
| MW-19   | 11/13/07    | Installed Well                        | TD=88.38                                      |                                                 |                            |                                                         |
| MW-19   | 11/14/07    | 3773.35                               |                                               | 71.49                                           |                            | 3701.86                                                 |
| MW-19   | 11/27/07    |                                       |                                               | 71.32                                           |                            | 3702.03                                                 |
| MW-19   | 12/17/07    |                                       |                                               | 71.39                                           |                            | 3701.96                                                 |
| MW-19   | 12/20/07    |                                       |                                               | 71.38                                           |                            | 3701.97                                                 |
| MW-19   | 03/05/08    |                                       |                                               | 71.74                                           |                            | 3701.61                                                 |
| MW-19   | 03/26/08    |                                       |                                               | 71.67                                           |                            | 3701.68                                                 |
| MW-19   | 04/02/08    |                                       |                                               | 71.65                                           |                            | 3701.70                                                 |
| MW-19   | 04/24/08    |                                       |                                               | 71.69                                           |                            | 3701.66                                                 |
| MW-19   | 05/27/08    |                                       |                                               | 71.81                                           |                            | 3701.54                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-19   | 06/24/08    |                                       |                                               | 71.82                                           |                            | 3701.53                                                 |
| MW-19   | 08/29/08    |                                       |                                               | 72.03                                           |                            | 3701.32                                                 |
| MW-19   | 09/16/08    |                                       |                                               | 72.11                                           |                            | 3701.24                                                 |
| MW-19   | 12/16/08    |                                       |                                               | 70.30                                           |                            | 3703.05                                                 |
| MW-19   | 12/22/08    |                                       |                                               | 72.26                                           |                            | 3701.09                                                 |
| MW-19   | 01/29/09    |                                       |                                               | 72.49                                           |                            | 3700.86                                                 |
| MW-19   | 02/04/09    |                                       |                                               | 72.50                                           |                            | 3700.85                                                 |
| MW-19   | 05/26/09    |                                       |                                               | 72.76                                           |                            | 3700.59                                                 |
| MW-19   | 08/12/09    |                                       |                                               | 72.95                                           |                            | 3700.40                                                 |
| MW-19   | 11/19/09    |                                       |                                               | 73.33                                           |                            | 3700.02                                                 |
| MW-19   | 02/17/10    |                                       |                                               | 73.62                                           |                            | 3699.73                                                 |
| MW-19   | 06/02/10    |                                       |                                               | 73.92                                           |                            | 3699.43                                                 |
| MW-19   | 09/23/10    |                                       |                                               | 74.55                                           |                            | 3698.80                                                 |
| MW-19   | 12/28/10    |                                       |                                               | 74.60                                           |                            | 3698.75                                                 |
|         |             |                                       |                                               |                                                 |                            |                                                         |
| MW-20   | 11/13/07    | Installed Well                        | TD=93.63                                      |                                                 |                            |                                                         |
| MW-20   | 11/14/07    | 3773.11                               |                                               | 67.03                                           |                            | 3706.08                                                 |
| MW-20   | 11/27/07    |                                       |                                               | 71.64                                           |                            | 3701.47                                                 |
| MW-20   | 12/17/07    |                                       |                                               | 71.67                                           |                            | 3701.44                                                 |
| MW-20   | 12/20/07    |                                       |                                               | 71.66                                           |                            | 3701.45                                                 |
| MW-20   | 03/05/08    |                                       |                                               | 72.01                                           |                            | 3701.10                                                 |
| MW-20   | 03/26/08    |                                       |                                               | 71.93                                           |                            | 3701.18                                                 |
| MW-20   | 04/02/08    |                                       |                                               | 74.93                                           |                            | 3698.18                                                 |
| MW-20   | 04/24/08    |                                       |                                               | 71.99                                           |                            | 3701.12                                                 |
| MW-20   | 05/27/08    |                                       |                                               | 72.08                                           |                            | 3701.03                                                 |
| MW-20   | 06/24/08    |                                       |                                               | 72.09                                           |                            | 3701.02                                                 |
| MW-20   | 08/29/08    |                                       |                                               | 72.30                                           |                            | 3700.81                                                 |
| MW-20   | 09/16/08    |                                       |                                               | 72.38                                           |                            | 3700.73                                                 |
| MW-20   | 12/16/08    |                                       |                                               | 72.57                                           |                            | 3700.54                                                 |
| MW-20   | 01/29/09    |                                       |                                               | 72.75                                           |                            | 3700.36                                                 |
| MW-20   | 02/04/09    |                                       |                                               | 72.76                                           |                            | 3700.35                                                 |
| MW-20   | 05/26/09    |                                       |                                               | 73.02                                           |                            | 3700.09                                                 |
| MW-20   | 08/12/09    |                                       |                                               | 73.22                                           |                            | 3699.89                                                 |
| MW-20   | 11/19/09    |                                       |                                               | 73.59                                           |                            | 3699.52                                                 |
| MW-20   | 02/17/10    |                                       |                                               | 73.89                                           |                            | 3699.22                                                 |
| MW-20   | 06/02/10    |                                       |                                               | 74.20                                           |                            | 3698.91                                                 |
| MW-20   | 09/23/10    |                                       |                                               | 74.79                                           |                            | 3698.32                                                 |
| MW-20   | 12/28/10    |                                       |                                               | 74.86                                           |                            | 3698.25                                                 |
|         |             |                                       |                                               |                                                 |                            |                                                         |
| MW-21   | 03/02/10    | Installed Well                        | TD=100.00                                     |                                                 |                            |                                                         |
| MW-21   | 04/15/10    | 3767.35                               |                                               | 66.71                                           |                            | 3700.64                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-21   | 06/02/10    |                                       |                                               | 66.84                                           |                            | 3700.51                                                 |
| MW-21   | 09/23/10    |                                       |                                               | 67.45                                           |                            | 3699.90                                                 |
| MW-21   | 12/28/10    |                                       |                                               | 67.49                                           | sheen                      | 3699.86                                                 |
| MW-22   | 03/02/10    | Installed Well                        | TD=90                                         |                                                 |                            |                                                         |
| MW-22   | 04/15/10    | 3769.17                               |                                               | 68.36                                           |                            | 3700.81                                                 |
| MW-22   | 06/02/10    |                                       |                                               | 68.51                                           |                            | 3700.66                                                 |
| MW-22   | 09/23/10    |                                       |                                               | 69.12                                           |                            | 3700.05                                                 |
| MW-22   | 12/28/10    |                                       |                                               | 69.18                                           |                            | 3699.99                                                 |
| MW-23   | 02/25/10    | Installed Well                        | TD=92.79                                      |                                                 |                            |                                                         |
| MW-23   | 04/15/10    | 3771.00                               |                                               | 70.45                                           |                            | 3700.55                                                 |
| MW-23   | 06/02/10    |                                       |                                               | 70.08                                           |                            | 3700.92                                                 |
| MW-23   | 09/23/10    |                                       |                                               | 71.21                                           |                            | 3699.79                                                 |
| MW-23   | 12/28/10    |                                       |                                               | 71.21                                           |                            | 3699.79                                                 |
| MW-24   | 03/02/10    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-24   | 04/15/10    | 3770.97                               | 70.63                                         | 77.97                                           | 7.34                       | 3699.18                                                 |
| MW-24   | 06/02/10    |                                       | 70.76                                         | 78.19                                           | 7.43                       | 3699.07                                                 |
| MW-24   | 09/23/10    |                                       | NM                                            | NM                                              | ???                        | ???                                                     |
| MW-24   | 12/28/10    |                                       | 71.04                                         | 77.83                                           | 6.79                       | 3698.88                                                 |
| MW-25   | 03/02/10    | Installed Well                        |                                               |                                                 |                            |                                                         |
| MW-25   | 04/15/10    | 3770.54                               | 70.06                                         | 77.25                                           | 7.19                       | 3699.34                                                 |
| MW-25   | 06/02/10    |                                       | 70.21                                         | 77.39                                           | 7.18                       | 3699.22                                                 |
| MW-25   | 09/23/10    |                                       | 70.25                                         | 77.40                                           | 7.15                       | 3699.19                                                 |
| MW-25   | 12/28/10    |                                       | 70.48                                         | 77.19                                           | 6.71                       | 3699.03                                                 |
| MW-26   | 02/25/10    | Installed Well                        | TD=94.75                                      |                                                 |                            |                                                         |
| MW-26   | 04/15/10    | 3772.89                               |                                               | 72.91                                           |                            | 3699.98                                                 |
| MW-26   | 06/02/10    |                                       |                                               | 73.05                                           |                            | 3699.84                                                 |
| MW-26   | 09/23/10    |                                       |                                               | 73.78                                           |                            | 3699.11                                                 |
| MW-26   | 12/28/10    |                                       |                                               | 73.72                                           |                            | 3699.17                                                 |
| MW-27   | 02/25/10    | Installed Well                        | TD=90.78                                      |                                                 |                            |                                                         |
| MW-27   | 04/15/10    | 3774.53                               |                                               | 75.85                                           |                            | 3698.68                                                 |
| MW-27   | 06/02/10    |                                       |                                               | 76.03                                           |                            | 3698.50                                                 |
| MW-27   | 09/23/10    |                                       |                                               | 76.62                                           |                            | 3697.91                                                 |
| MW-27   | 12/28/10    |                                       |                                               | 76.69                                           |                            | 3697.84                                                 |
| MW-28   | 02/24/10    | Installed Well                        |                                               |                                                 |                            |                                                         |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-28   | 04/15/10    | 3772.18                               |                                               | 73.85                                           |                            | 3698.33                                                 |
| MW-28   | 06/02/10    |                                       |                                               | 74.00                                           |                            | 3698.18                                                 |
| MW-28   | 09/23/10    |                                       |                                               | 74.56                                           |                            | 3697.62                                                 |
| MW-28   | 12/28/10    |                                       | 74.65                                         | 74.66                                           | 0.01                       | 3697.52                                                 |
| MW-29   | 02/25/10    | Installed Well                        |                                               |                                                 |                            |                                                         |
|         | 04/15/10    | 3769.79                               |                                               | 71.67                                           |                            | 3698.12                                                 |
|         | 06/02/10    |                                       |                                               | 71.82                                           |                            | 3697.97                                                 |
|         | 09/23/10    |                                       |                                               | 72.39                                           |                            | 3697.40                                                 |
|         | 12/28/10    |                                       |                                               | 72.47                                           | sheen                      | 3697.32                                                 |
| MW-30   | 08/10/10    | Installed Well                        |                                               |                                                 |                            |                                                         |
|         | 09/28/10    | 3766.52                               |                                               |                                                 |                            |                                                         |
|         | 09/23/10    |                                       | 66.10                                         | 73.35                                           | 7.25                       | 3699.30                                                 |
|         | 12/28/10    |                                       | 66.21                                         | 73.45                                           | 7.24                       | 3699.20                                                 |
| MW-31   | 08/10/10    | Installed Well                        |                                               |                                                 |                            |                                                         |
|         | 09/28/10    | 3766.45                               |                                               |                                                 |                            |                                                         |
|         | 09/23/10    |                                       | 66.23                                         | 74.10                                           | 7.87                       | 3699.01                                                 |
|         | 12/28/10    |                                       | 66.30                                         | 74.21                                           | 7.91                       | 3698.93                                                 |
| MW-32   | 08/10/10    | Installed Well                        |                                               |                                                 |                            |                                                         |
|         | 09/28/10    | 3766.75                               |                                               |                                                 |                            |                                                         |
|         | 09/23/10    |                                       | 66.95                                         | 74.60                                           | 7.65                       | 3698.62                                                 |
|         | 12/28/10    |                                       | 67.01                                         | 74.65                                           | 7.64                       | 3698.56                                                 |
| MW-33   | 08/10/10    | Installed Well                        |                                               |                                                 |                            |                                                         |
|         | 09/28/10    | 3767.44                               |                                               |                                                 |                            |                                                         |
|         | 09/23/10    |                                       | 67.95                                         | 75.43                                           | 7.48                       | 3698.34                                                 |
|         | 12/28/10    |                                       | 68.04                                         | 75.52                                           | 7.48                       | 3698.25                                                 |
| MW-34   | 08/19/10    | Installed Well                        |                                               |                                                 |                            |                                                         |
|         | 09/28/10    | 3766.32                               |                                               |                                                 |                            |                                                         |
|         | 09/23/10    |                                       |                                               | 67.49                                           |                            | 3698.83                                                 |
|         | 12/28/10    |                                       |                                               | 67.58                                           |                            | 3698.74                                                 |
| MW-35   | 08/19/10    | Installed Well                        |                                               |                                                 |                            |                                                         |
|         | 09/28/10    | 3765.67                               |                                               |                                                 |                            |                                                         |
|         | 09/23/10    |                                       |                                               | 67.38                                           |                            | 3698.29                                                 |
|         | 12/28/10    |                                       | 67.44                                         | 67.45                                           | 0.01                       | 3698.22                                                 |



**TABLE 1**  
**SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS**  
**PLAINS PIPELINE, L.P.**  
**8" MOORE TO JAL #1 - SRS# 2002-10270**  
**NMOCD REF. # AP-91**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER 700376.044.01**

| WELL ID | DATE GAUGED | Top of Casing Elevation<br>(ft amsl)* | Depth to PSH<br>Below Top of<br>Casing (Feet) | Depth to Water<br>Below Top of<br>Casing (Feet) | PSH<br>Thickness<br>(feet) | Corrected<br>Potentiometric<br>Surface<br>(ft<br>amsl)* |
|---------|-------------|---------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|---------------------------------------------------------|
| MW-36   | 08/19/10    | Installed Well                        |                                               |                                                 |                            |                                                         |
|         | 09/28/10    | 3765.37                               |                                               |                                                 |                            |                                                         |
|         | 09/23/10    |                                       |                                               | 67.54                                           |                            | 3697.83                                                 |
|         | 12/28/10    |                                       | 67.64                                         | 67.66                                           | 0.02                       | 3697.71                                                 |

ft amsl - feet above mean sea level

Corrected Potentiometric Surface = Top of casing elevation - [depth to water + (PSH thickness x specific gravity of PSH)]

Specific gravity of PSH = 0.848

NM - not measured



**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS MARKETING, L.P. - SRS # 2002-10270**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER: 700376.044.01**

*All concentrations are in mg/L*

| Sample Location | Sample Date | Benzene                                                     | Toluene | Ethylbenzene | Total Xylenes | Total BTEX |
|-----------------|-------------|-------------------------------------------------------------|---------|--------------|---------------|------------|
| MW-1A           | 03/27/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 06/28/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 09/21/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 12/17/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 09/16/08    | Not sampled Due to Not Enough Water                         |         |              |               |            |
| MW-1A           | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 08/18/09    | Not Sampled Due to Not Enough Water                         |         |              |               |            |
| MW-1A           | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-1A           | 12/29/11    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 03/27/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 06/28/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 09/21/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 12/17/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 09/18/08    | 6.29                                                        | 3.21    | 0.592        | 1.28          | 11.37      |
| MW-2            | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 08/18/09    | 14.5                                                        | 12.1    | 1.80         | 4.34          | 32.7       |
| MW-2            | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-2            | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 03/27/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 06/28/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |





**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS MARKETING, L.P. - SRS # 2002-10270**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER: 700376.044.01**

*All concentrations are in mg/L*

| Sample Location | Sample Date | Benzene                                                     | Toluene | Ethylbenzene | Total Xylenes | Total BTEX |
|-----------------|-------------|-------------------------------------------------------------|---------|--------------|---------------|------------|
| MW-3            | 09/21/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 12/17/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 09/18/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 08/18/09    | 35.1                                                        | 8.96    | 2.44         | 5.86          | 52.4       |
| MW-3            | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-3            | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-4A           | 11/08/07    | Well Installation                                           |         |              |               |            |
| MW-4A           | 12/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-4A           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-4A           | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-4A           | 09/17/08    | 4.95                                                        | 4.14    | 0.501        | 1.02          | 10.611     |
| MW-4A           | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-4A           | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-4A           | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-4A           | 08/18/09    | 19.7                                                        | 16.5    | 2.52         | 6.02          | 44.74      |
| MW-4A           | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-4A           | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-4A           | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-4A           | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-4A           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-5            | 11/06/07    | Well Installation                                           |         |              |               |            |
| MW-5            | 12/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-5            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-5            | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-5            | 09/16/08    | Not sampled Due to Not Enough Water                         |         |              |               |            |
| MW-5            | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-5            | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |



**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS MARKETING, L.P. - SRS # 2002-10270**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER: 700376.044.01**

*All concentrations are in mg/L*

| Sample Location | Sample Date | Benzene                                                     | Toluene | Ethylbenzene | Total Xylenes | Total BTEX |
|-----------------|-------------|-------------------------------------------------------------|---------|--------------|---------------|------------|
| MW-5            | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-5            | 08/18/09    | 20.3                                                        | 20.4    | 4.26         | 10.3          | 55.26      |
| MW-5            | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-5            | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-5            | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-5            | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-5            | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
|                 |             |                                                             |         |              |               |            |
| MW-6            | 11/06/07    | Well Installation                                           |         |              |               |            |
| MW-6            | 12/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-6            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-6            | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-6            | 09/18/08    | 38.9                                                        | 3.80    | 1.50         | 1.96          | 46.16      |
| MW-6            | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-6            | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-6            | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-6            | 08/18/09    | 31.6                                                        | 14.7    | 2.25         | 4.88          | 53.43      |
| MW-6            | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-6            | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-6            | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-6            | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-6            | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
|                 |             |                                                             |         |              |               |            |
| MW-7            | 11/06/07    | Well Installation                                           |         |              |               |            |
| MW-7            | 12/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-7            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-7            | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-7            | 09/17/08    | 38.6                                                        | 10.3    | 1.80         | 3.59          |            |
| MW-7            | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-7            | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-7            | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-7            | 08/18/09    | 35.7                                                        | 18.8    | 4.03         | 10.6          |            |
| MW-7            | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-7            | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-7            | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-7            | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |



**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS MARKETING, L.P. - SRS # 2002-10270**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER: 700376.044.01**

*All concentrations are in mg/L*

| Sample Location | Sample Date | Benzene                                                     | Toluene | Ethylbenzene | Total Xylenes | Total BTEX |
|-----------------|-------------|-------------------------------------------------------------|---------|--------------|---------------|------------|
| MW-7            | 12/29/11    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-8            | 11/06/07    | Well Installation                                           |         |              |               |            |
| MW-8            | 12/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-8            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-8            | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-8            | 09/18/08    | 26.1                                                        | 5.35    | 0.983        | 1.37          | 33.803     |
| MW-8            | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-8            | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-8            | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-8            | 08/18/09    | 27.6                                                        | 10.1    | 1.84         | 3.63          | 43.17      |
| MW-8            | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-8            | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-8            | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-8            | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-8            | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-9            | 11/07/07    | Well Installation                                           |         |              |               |            |
| MW-9            | 12/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-9            | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-9            | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-9            | 09/20/08    | 25.4                                                        | 7.58    | 1.65         | 3.70          | 38.33      |
| MW-9            | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-9            | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-9            | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-9            | 08/18/09    | 29.5                                                        | 15.0    | 2.61         | 5.52          | 52.63      |
| MW-9            | 11/19/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-9            | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-9            | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-9            | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-9            | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-10           | 11/07/07    | Well Installation                                           |         |              |               |            |
| MW-10           | 12/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-10           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-10           | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |



**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS MARKETING, L.P. - SRS # 2002-10270**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER: 700376.044.01**

*All concentrations are in mg/L*

| Sample Location | Sample Date | Benzene                                                     | Toluene | Ethylbenzene | Total Xylenes | Total BTEX |
|-----------------|-------------|-------------------------------------------------------------|---------|--------------|---------------|------------|
| MW-10           | 09/18/08    | 11.0                                                        | 5.25    | 1.10         | 2.05          | 19.4       |
| MW-10           | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-10           | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-10           | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-10           | 08/18/09    | 29.3                                                        | 25.9    | 5.44         | 13.0          | 73.6       |
| MW-10           | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-10           | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-10           | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-10           | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-10           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-11           | 11/07/07    | Well Installation                                           |         |              |               |            |
| MW-11           | 12/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-11           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-11           | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-11           | 09/18/08    | 4.06                                                        | 1.70    | 0.308        | 0.575         | 6.643      |
| MW-11           | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-11           | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-11           | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-11           | 08/18/09    | 5.52                                                        | 5.37    | 1.04         | 2.64          | 14.57      |
| MW-11           | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-11           | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-11           | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-11           | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-11           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-12           | 11/07/07    | Well Installation                                           |         |              |               |            |
| MW-12           | 12/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-12           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-12           | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-12           | 09/17/08    | 4.44                                                        | 2.92    | 0.401        | 0.711         | 8.472      |
| MW-12           | 12/16/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-12           | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-12           | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |
| MW-12           | 08/18/09    | 7.67                                                        | 6.80    | 1.28         | 3.40          | 19.15      |
| MW-12           | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |         |              |               |            |



**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS MARKETING, L.P. - SRS # 2002-10270**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER: 700376.044.01**

*All concentrations are in mg/L*

| Sample Location | Sample Date | Benzene                                                     | Toluene  | Ethylbenzene | Total Xylenes | Total BTEX |
|-----------------|-------------|-------------------------------------------------------------|----------|--------------|---------------|------------|
| MW-12           | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-12           | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-12           | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-12           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
|                 |             |                                                             |          |              |               |            |
| MW-13           | 11/08/07    | Well Installation                                           |          |              |               |            |
| MW-13           | 12/19/07    | 5.79                                                        | 0.683    | 1.64         | 4.98          | 13.09      |
| MW-13           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-13           | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-13           | 09/17/08    | 4.04                                                        | 4.48     | 0.550        | 1.05          | 1.05       |
| MW-13           | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-13           | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-13           | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-13           | 08/13/09    | 5.22                                                        | 6.39     | 1.24         | 2.44          | 15.29      |
| MW-13           | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-13           | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-13           | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-13           | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-13           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
|                 |             |                                                             |          |              |               |            |
| MW-14           | 11/08/07    | Well Installation                                           |          |              |               |            |
| MW-14           | 12/19/07    | 0.0301                                                      | <0.00500 | 0.0158       | <0.00500      | 0.0459     |
| MW-14           | 03/26/08    | 0.470                                                       | <0.00500 | <0.00500     | 0.0449        | 0.0449     |
| MW-14           | 06/25/08    | 1.23                                                        | 0.0493   | <0.00500     | 0.199         | 1.4783     |
| MW-14           | 09/17/08    | 3.69                                                        | 0.196    | 0.0929       | 0.740         | 4.7189     |
| MW-14           | 12/16/08    | 4.99                                                        | 0.0537   | <0.0500      | 0.505         | 5.55       |
| MW-14           | 02/04/09    | 11.0                                                        | <0.0500  | <0.0500      | 0.683         | 11.68      |
| MW-14           | 05/27/09    | 8.14                                                        | 0.140    | 0.208        | 0.715         | 9.203      |
| MW-14           | 08/13/09    | 1.79                                                        | <0.0200  | 0.0838       | 0.174         | 2.0478     |
| MW-14           | 11/19/09    | 3.46                                                        | 0.783    | 0.088        | 0.213         | 4.544      |
| MW-14           | 02/17/10    | 16.6                                                        | 8.18     | 1.40         | 4.07          | 30.25      |
| MW-14           | 06/02/10    | 12.2                                                        | 4.82     | 0.5150       | 1.28          | 18.815     |
| MW-14           | 09/27/10    | 3.06                                                        | 1.34     | <0.100       | 1.83          | 6.23       |
| MW-14           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
|                 |             |                                                             |          |              |               |            |
| MW-15           | 11/08/07    | Well Installation                                           |          |              |               |            |



**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS MARKETING, L.P. - SRS # 2002-10270**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER: 700376.044.01**

*All concentrations are in mg/L*

| Sample Location | Sample Date | Benzene                                                     | Toluene  | Ethylbenzene | Total Xylenes | Total BTEX |
|-----------------|-------------|-------------------------------------------------------------|----------|--------------|---------------|------------|
| MW-15           | 12/19/07    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-15           | 03/26/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-15           | 06/25/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-15           | 09/17/08    | 3.76                                                        | 2.58     | 0.397        | 0.664         | 7.401      |
| MW-15           | 12/16/08    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-15           | 02/04/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-15           | 05/27/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-15           | 08/13/09    | Not sampled Due to Not Enough Water                         |          |              |               |            |
| MW-15           | 11/19/09    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-15           | 02/17/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-15           | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-15           | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-15           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-16           | 11/09/07    | Well Installation                                           |          |              |               |            |
| MW-16           | 12/19/07    | 15.1                                                        | 0.605    | 1.66         | 6.60          | 24.0       |
| MW-16           | 03/26/08    | 26.8                                                        | 11.1     | 0.891        | 2.18          | 40.971     |
| MW-16           | 06/25/08    | 25.6                                                        | 8.52     | 0.850        | 2.07          | 37.0       |
| MW-16           | 09/17/08    | 36.8                                                        | 9.55     | 1.12         | 2.16          | 49.63      |
| MW-16           | 12/16/08    | 30.4                                                        | 5.28     | 1.12         | 2.58          | 39.4       |
| MW-16           | 02/04/09    | 18.3                                                        | 2.74     | 0.521        | 1.02          | 22.581     |
| MW-16           | 05/27/09    | 26.9                                                        | 4.35     | 1.17         | 2.52          | 34.94      |
| MW-16           | 08/13/09    | 22.7                                                        | 3.04     | 1.05         | 1.99          | 28.78      |
| MW-16           | 11/19/09    | 26.5                                                        | 1.28     | 0.648        | 0.771         | 29.199     |
| MW-16           | 02/17/10    | 39.6                                                        | 6.16     | 1.31         | 2.65          | 49.72      |
| MW-16           | 06/02/10    | 42.4                                                        | 7.28     | 1.18         | 2.44          | 53.3       |
| MW-16           | 09/27/10    | 29.7                                                        | 4.29     | 0.996        | 1.90          | 36.886     |
| MW-16           | 01/03/11    | 25.4                                                        | 1.50     | 1.05         | 2.24          | 30.19      |
| MW-17           | 11/13/07    | Well Installation                                           |          |              |               |            |
| MW-17           | 12/20/07    | 0.00120                                                     | <0.00100 | <0.00100     | <0.00100      | 0.0012     |
| MW-17           | 03/26/08    | 0.131                                                       | 0.0767   | 0.00700      | 0.0170        | 0.2077     |
| MW-17           | 06/25/08    | 0.150                                                       | 0.0566   | 0.00480      | 0.0113        | 0.218      |
| MW-17           | 09/17/08    | 0.0299                                                      | 0.0117   | 0.00200      | 0.00380       | 0.0474     |
| MW-17           | 12/16/08    | 0.0388                                                      | 0.00710  | <0.00100     | 0.00540       | 0.0513     |
| MW-17           | 02/04/09    | 0.00120                                                     | <0.00100 | <0.00100     | <0.00100      | 0.0012     |
| MW-17           | 05/27/09    | <0.00100                                                    | <0.00100 | <0.00100     | <0.00100      | <0.00100   |



**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS MARKETING, L.P. - SRS # 2002-10270**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER: 700376.044.01**

*All concentrations are in mg/L*

| Sample Location | Sample Date | Benzene           | Toluene  | Ethylbenzene | Total Xylenes | Total BTEX |
|-----------------|-------------|-------------------|----------|--------------|---------------|------------|
| MW-17           | 08/13/09    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-17           | 11/19/09    | 0.0100            | 0.00330  | <0.00100     | <0.00100      | 0.0100     |
| MW-17           | 02/17/10    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-17           | 06/02/10    | 0.00570           | 0.00250  | 0.00130      | 0.00300       | 0.01250    |
| MW-17           | 09/24/10    | <0.00100          | 0.0012   | <0.00100     | <0.00100      | 0.00120    |
| MW-17           | 12/29/10    | 0.0064            | <0.00100 | 0.00320      | 0.00810       | 0.01770    |
|                 |             |                   |          |              |               |            |
| MW-18           | 11/13/07    | Well Installation |          |              |               |            |
| MW-18           | 12/20/07    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-18           | 03/26/08    | 0.112             | 0.0856   | 0.00980      | 0.0244        | 0.222      |
| MW-18           | 06/25/08    | 0.113             | 0.0483   | 0.00420      | 0.0100        | 0.1713     |
| MW-18           | 09/17/08    | 0.0383            | 0.0141   | 0.00220      | 0.00430       | 0.00650    |
| MW-18           | 12/16/08    | 0.0315            | 0.00500  | 0.00250      | 0.00370       | 0.00620    |
| MW-18           | 02/04/09    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-18           | 05/27/09    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-18           | 08/13/09    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-18           | 11/19/09    | 0.0123            | 0.0037   | 0.00140      | <0.00100      | 0.0174     |
| MW-18           | 02/17/10    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-18           | 06/02/10    | 0.00740           | 0.00320  | <0.00100     | 0.00320       | 0.01380    |
| MW-18           | 09/24/10    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-18           | 12/29/10    | 0.00490           | <0.00100 | 0.00300      | <0.00100      | 0.00790    |
|                 |             |                   |          |              |               |            |
| MW-19           | 11/13/07    | Well Installation |          |              |               |            |
| MW-19           | 12/20/07    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-19           | 03/26/08    | 0.0711            | 0.0434   | 0.00470      | 0.0119        | 0.1264     |
| MW-19           | 06/25/08    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-19           | 09/17/08    | 0.0604            | 0.0214   | 0.00300      | 0.00580       | 0.0906     |
| MW-19           | 12/16/08    | 0.0514            | 0.00670  | 0.00280      | 0.00590       | 0.0668     |
| MW-19           | 02/04/09    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-19           | 05/27/09    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-19           | 08/13/09    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-19           | 11/19/09    | 0.00570           | 0.00200  | <0.00100     | <0.00100      | 0.00770    |
| MW-19           | 02/17/10    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-19           | 06/02/10    | 0.00830           | 0.00310  | <0.00100     | 0.00300       | 0.01440    |
| MW-19           | 09/24/10    | 0.00120           | 0.00280  | <0.00100     | <0.00100      | 0.00400    |
| MW-19           | 12/29/10    | <0.00100          | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
|                 |             |                   |          |              |               |            |



**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS MARKETING, L.P. - SRS # 2002-10270**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER: 700376.044.01**

*All concentrations are in mg/L*

| Sample Location | Sample Date | Benzene                                                            | Toluene  | Ethylbenzene | Total Xylenes | Total BTEX |
|-----------------|-------------|--------------------------------------------------------------------|----------|--------------|---------------|------------|
| MW-20           | 11/13/07    | <b>Well Installation</b>                                           |          |              |               |            |
| MW-20           | 12/20/07    | <0.00500                                                           | <0.00500 | <0.00500     | <0.00500      | <0.00500   |
| MW-20           | 03/26/08    | 0.0431                                                             | 0.0226   | 0.00230      | 0.00590       | 0.0657     |
| MW-20           | 06/25/08    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-20           | 09/17/08    | 0.108                                                              | 0.0290   | 0.00370      | 0.00710       | 0.1188     |
| MW-20           | 12/16/08    | 0.0483                                                             | 0.00670  | 0.00400      | 0.00870       | 0.0677     |
| MW-20           | 02/04/09    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-20           | 05/27/09    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-20           | 08/13/09    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-20           | 11/19/09    | 0.0049                                                             | 0.0016   | <0.00100     | <0.00100      | 0.0065     |
| MW-20           | 02/17/10    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-20           | 06/02/10    | 0.01070                                                            | 0.00390  | 0.00160      | 0.00330       | 0.01950    |
| MW-20           | 09/27/10    | <0.00100                                                           | 0.0016   | <0.00100     | <0.00100      | 0.00160    |
| MW-20           | 12/29/10    | 0.0036                                                             | <0.00100 | <0.00100     | <0.00100      | 0.00360    |
| MW-21           | 03/02/10    | <b>Well Installation</b>                                           |          |              |               |            |
| MW-21           | 04/21/10    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-21           | 06/03/10    | 0.00210                                                            | 0.00140  | <0.00100     | <0.00100      | 0.00350    |
| MW-21           | 09/24/10    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-21           | 12/29/10    | <b>Not sampled Due to Presence of Phase Separated Hydrocarbons</b> |          |              |               |            |
| MW-22           | 03/02/10    | <b>Well Installation</b>                                           |          |              |               |            |
| MW-22           | 04/21/10    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-22           | 06/03/10    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-22           | 09/24/10    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-22           | 12/29/10    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-23           | 02/25/10    | <b>Well Installation</b>                                           |          |              |               |            |
| MW-23           | 04/21/10    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-23           | 06/03/10    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-23           | 09/24/10    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-23           | 12/29/10    | <0.00100                                                           | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-24           | 03/02/10    | <b>Well Installation</b>                                           |          |              |               |            |
| MW-24           | 04/29/10    | <b>Not sampled Due to Presence of Phase Separated Hydrocarbons</b> |          |              |               |            |
| MW-24           | 06/02/10    | <b>Not sampled Due to Presence of Phase Separated Hydrocarbons</b> |          |              |               |            |





**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS MARKETING, L.P. - SRS # 2002-10270**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER: 700376.044.01**

*All concentrations are in mg/L*

| Sample Location | Sample Date | Benzene                                                     | Toluene  | Ethylbenzene | Total Xylenes | Total BTEX |
|-----------------|-------------|-------------------------------------------------------------|----------|--------------|---------------|------------|
| MW-24           | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-24           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-25           | 03/02/10    | Well Installation                                           |          |              |               |            |
| MW-25           | 04/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-25           | 06/02/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-25           | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-25           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-26           | 02/25/10    | Well Installation                                           |          |              |               |            |
| MW-26           | 04/29/10    | 0.00400                                                     | 0.00250  | <0.00100     | <0.00100      | 0.00650    |
| MW-26           | 06/02/10    | 0.00550                                                     | 0.00180  | <0.00100     | <0.00100      | 0.00730    |
| MW-26           | 09/24/10    | 0.00210                                                     | 0.00150  | <0.00100     | <0.00100      | 0.00360    |
| MW-26           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-27           | 02/25/10    | Well Installation                                           |          |              |               |            |
| MW-27           | 04/29/10    | 0.00720                                                     | 0.00340  | <0.00100     | <0.00100      | 0.03480    |
| MW-27           | 06/02/10    | 0.01530                                                     | 0.00350  | <0.00100     | <0.00100      | 0.01880    |
| MW-27           | 09/27/10    | <0.00100                                                    | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-27           | 12/29/10    | <0.00100                                                    | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-28           | 02/24/10    | Well Installation                                           |          |              |               |            |
| MW-28           | 04/29/10    | <0.00100                                                    | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-28           | 06/02/10    | 0.0180                                                      | 0.00290  | <0.00100     | <0.00100      | 0.0209     |
| MW-28           | 09/27/10    | <0.00100                                                    | <0.00100 | <0.00100     | <0.00100      | <0.00100   |
| MW-28           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-29           | 02/25/10    | Well Installation                                           |          |              |               |            |
| MW-29           | 04/29/10    | 10.7                                                        | 3.00     | 0.437        | 1.29          | 15.427     |
| MW-29           | 06/02/10    | 11.8                                                        | 2.42     | 0.434        | 0.962         | 15.616     |
| MW-29           | 09/27/10    | 11.8                                                        | 1.96     | 0.518        | 0.812         | 15.09      |
| MW-29           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-30           | 08/10/10    | Well Installation                                           |          |              |               |            |
| MW-30           | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |
| MW-30           | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |          |              |               |            |



**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**PLAINS MARKETING, L.P. - SRS # 2002-10270**  
**8" MOORE TO JAL #1**  
**NMOCD REF. # 1R-0380**  
**LEA COUNTY, NEW MEXICO**  
**TALON/LPE PROJECT NUMBER: 700376.044.01**

*All concentrations are in mg/L*

| Sample Location               | Sample Date | Benzene                                                     | Toluene       | Ethylbenzene  | Total Xylenes | Total BTEX |
|-------------------------------|-------------|-------------------------------------------------------------|---------------|---------------|---------------|------------|
| MW-31                         | 08/10/10    | Well Installation                                           |               |               |               |            |
| MW-31                         | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |               |               |            |
| MW-31                         | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |               |               |            |
| MW-32                         | 08/10/10    | Well Installation                                           |               |               |               |            |
| MW-32                         | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |               |               |            |
| MW-32                         | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |               |               |            |
| MW-33                         | 08/10/10    | Well Installation                                           |               |               |               |            |
| MW-33                         | 09/24/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |               |               |            |
| MW-33                         | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |               |               |            |
| MW-34                         | 08/19/10    | Well Installation                                           |               |               |               |            |
| MW-34                         | 09/28/10    | 0.00600                                                     | 0.00130       | <0.00100      | <0.00100      | 0.00730    |
| MW-34                         | 12/29/10    | 0.00790                                                     | <0.00100      | <0.00100      | <0.00100      | 0.00790    |
| MW-35                         | 08/19/10    | Well Installation                                           |               |               |               |            |
| MW-35                         | 09/28/10    | 0.0019                                                      | <0.00100      | <0.00100      | <0.00100      | 0.0019     |
| MW-35                         | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |               |               |            |
| MW-36                         | 08/19/10    | Well Installation                                           |               |               |               |            |
| MW-36                         | 09/28/10    | <0.00100                                                    | <0.00100      | <0.00100      | <0.00100      | <0.00100   |
| MW-36                         | 12/29/10    | Not sampled Due to Presence of Phase Separated Hydrocarbons |               |               |               |            |
| <b>NMWQCC Remedial Limits</b> |             | <b>0.010</b>                                                | <b>0.0750</b> | <b>0.0750</b> | <b>0.620</b>  | <b>NA</b>  |

<sup>1</sup> **Bolded values are in excess of the NMWQCC Remediation Limits**

BTEX analyzed by EPA Method 8021B





TABLE 3  
SUMMARY OF GROUNDWATER POLYNUCLEAR AROMATIC  
HYDROCARBON (PAH) ANALYTICAL RESULTS  
PLAINS PIPELINE, L.P.  
8" MOORE TO JAL #1 - SRS# 2002-10270  
NMOCD REF. # AP-91  
LEA COUNTY, NEW MEXICO  
TALON/LPE PROJECT NUMBER 700376.044.01

All concentrations are in mg/L

| Sample Location        | Sample Date | Acenaphthene | Acenaphthylene | Anthracene | Benzo[a]-anthracene | Benzo[a]-pyrene | Benzo[b]-fluoranthene | Benzo[g,h,i]-perylene | Benzo[k]-fluoranthene | Chrysene  | Dibenz[a,h]-anthracene | Dibenzofuran | Fluoranthene | Fluorene  | Indeno[1,2,3-cd]-pyrene | 2-Methylnaphthalene | 1-Methylnaphthalene | Naphthalene   | Total Naphthalenes | Phenanthrene | Pyrene    |
|------------------------|-------------|--------------|----------------|------------|---------------------|-----------------|-----------------------|-----------------------|-----------------------|-----------|------------------------|--------------|--------------|-----------|-------------------------|---------------------|---------------------|---------------|--------------------|--------------|-----------|
| MW-14                  | 09/17/08    | <0.000200    | <0.000200      | <0.000200  | <0.000200           | <0.000200       | <0.000200             | <0.000200             | <0.000200             | <0.000200 | <0.000200              | 0.000759     | <0.000200    | 0.000606  | <0.000200               | 0.00203             | 0.00995             | 0.00204       | 0.01402            | 0.000274     | <0.000200 |
|                        | 08/13/09    | <0.000184    | <0.000184      | <0.000184  | <0.000184           | <0.000184       | <0.000184             | <0.000184             | <0.000184             | <0.000184 | <0.000184              | <0.000184    | <0.000184    | <0.000184 | <0.000184               | 0.000773            | 0.000527            | 0.000895      | 0.002195           | <0.000184    | <0.000184 |
| MW-16                  | 09/17/08    | <0.000200    | <0.000200      | <0.000200  | <0.000200           | <0.000200       | <0.000200             | <0.000200             | <0.000200             | <0.000200 | <0.000200              | 0.002440     | <0.000200    | 0.000557  | <0.000200               | 0.0441              | 0.0390              | <b>0.0765</b> | <b>0.1596</b>      | 0.00144      | <0.000200 |
|                        | 08/13/09    | <0.000186    | <0.000186      | <0.000186  | <0.000186           | <0.000186       | <0.000186             | <0.000186             | <0.000186             | <0.000186 | <0.000186              | 0.00110      | <0.000186    | <0.000186 | <0.000186               | 0.0171              | 0.0183              | 0.0272        | <b>0.0626</b>      | 0.00110      | <0.000186 |
| MW-17                  | 01/03/11    | <0.000184    | <0.000184      | <0.000184  | <0.000184           | <0.000184       | <0.000184             | <0.000184             | <0.000184             | <0.000184 | <0.000184              | 0.00128      | <0.000184    | 0.002500  | <0.000184               | 0.0228              | 0.0204              | <b>0.0394</b> | <b>0.0826</b>      | 0.00156      | <0.000184 |
|                        | 09/17/08    | <0.000200    | <0.000200      | <0.000200  | <0.000200           | <0.000200       | <0.000200             | <0.000200             | <0.000200             | <0.000200 | <0.000200              | <0.000200    | <0.000200    | <0.000200 | <0.000200               | <0.000200           | <0.000200           | <0.000200     | <0.000200          | <0.000200    | <0.000200 |
| MW-18                  | 08/13/09    | <0.000186    | <0.000186      | <0.000186  | <0.000186           | <0.000186       | <0.000186             | <0.000186             | <0.000186             | <0.000186 | <0.000186              | <0.000186    | <0.000186    | <0.000186 | <0.000186               | <0.000186           | <0.000186           | <0.000186     | <0.000186          | <0.000186    | <0.000186 |
|                        | 09/17/08    | <0.000200    | <0.000200      | <0.000200  | <0.000200           | <0.000200       | <0.000200             | <0.000200             | <0.000200             | <0.000200 | <0.000200              | <0.000200    | <0.000200    | <0.000200 | <0.000200               | <0.000200           | 0.000405            | 0.000405      | 0.000405           | <0.000200    | <0.000200 |
| MW-19                  | 08/13/09    | <0.000185    | <0.000185      | <0.000185  | <0.000185           | <0.000185       | <0.000185             | <0.000185             | <0.000185             | <0.000185 | <0.000185              | <0.000185    | <0.000185    | <0.000185 | <0.000185               | <0.000185           | <0.000185           | 0.000246      | 0.000246           | <0.000185    | <0.000185 |
|                        | 09/17/08    | <0.000200    | <0.000200      | <0.000200  | <0.000200           | <0.000200       | <0.000200             | <0.000200             | <0.000200             | <0.000200 | <0.000200              | <0.000200    | <0.000200    | <0.000200 | <0.000200               | <0.000200           | 0.00103             | 0.00103       | 0.000268           | <0.000200    | <0.000200 |
| MW-20                  | 08/13/09    | <0.000188    | <0.000188      | <0.000188  | <0.000188           | <0.000188       | <0.000188             | <0.000188             | <0.000188             | <0.000188 | <0.000188              | <0.000188    | <0.000188    | <0.000188 | <0.000188               | <0.000188           | <0.000188           | 0.000205      | 0.000205           | <0.000188    | <0.000188 |
|                        | 09/17/08    | <0.000200    | <0.000200      | <0.000200  | <0.000200           | <0.000200       | <0.000200             | <0.000200             | <0.000200             | <0.000200 | <0.000200              | <0.000200    | <0.000200    | <0.000200 | <0.000200               | <0.000200           | 0.000256            | 0.000256      | 0.000256           | <0.000200    | <0.000200 |
| NMWQCC Remedial Limits | 08/13/09    | <0.000186    | <0.000186      | <0.000186  | <0.000186           | <0.000186       | <0.000186             | <0.000186             | <0.000186             | <0.000186 | <0.000186              | <0.000186    | <0.000186    | <0.000186 | <0.000186               | <0.000186           | <0.000186           | 0.000362      | 0.000362           | <0.000186    | <0.000186 |
|                        |             |              |                |            |                     | <b>0.007</b>    |                       |                       |                       |           |                        |              |              |           |                         |                     |                     |               | <b>0.030</b>       |              |           |

<sup>1</sup> **Bolded** values are in excess of the NMWQCC Remediation Limits  
PAH Analyzed by EPA Method 8270

## **APPENDIX C**

### **Laboratory Analytical Data Reports and Chains of Custody Documentation**



## Summary Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX 79706

Report Date: February 25, 2010

Work Order: 10021807



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 222839 | MW-14       | water  | 2010-02-17 | 14:21      | 2010-02-18    |
| 222840 | MW-16       | water  | 2010-02-17 | 15:13      | 2010-02-18    |
| 222841 | MW-17       | water  | 2010-02-17 | 12:37      | 2010-02-18    |
| 222842 | MW-18       | water  | 2010-02-17 | 12:58      | 2010-02-18    |
| 222843 | MW-19       | water  | 2010-02-17 | 13:15      | 2010-02-18    |
| 222844 | MW-20       | water  | 2010-02-17 | 13:33      | 2010-02-18    |

| Sample - Field Code | BTEX              |                   |                        |                  |
|---------------------|-------------------|-------------------|------------------------|------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene<br>(mg/L) |
| 222839 - MW-14      | 16.6              | 8.18              | 1.40                   | 4.07             |
| 222840 - MW-16      | 39.6              | 6.16              | 1.31                   | 2.65             |
| 222841 - MW-17      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 222842 - MW-18      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 222843 - MW-19      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 222844 - MW-20      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX, 79706

Report Date: February 25, 2010

Work Order: 10021807



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 222839 | MW-14       | water  | 2010-02-17 | 14:21      | 2010-02-18    |
| 222840 | MW-16       | water  | 2010-02-17 | 15:13      | 2010-02-18    |
| 222841 | MW-17       | water  | 2010-02-17 | 12:37      | 2010-02-18    |
| 222842 | MW-18       | water  | 2010-02-17 | 12:58      | 2010-02-18    |
| 222843 | MW-19       | water  | 2010-02-17 | 13:15      | 2010-02-18    |
| 222844 | MW-20       | water  | 2010-02-17 | 13:33      | 2010-02-18    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2010-02-18 and assigned to work order 10021807. Samples for work order 10021807 were received intact without headspace and at a temperature of 7.0 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|------|---------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 57960         | 2010-02-22 at 16:00 | 67748       | 2010-02-23 at 06:23 |
| BTEX | S 8021B | 58011         | 2010-02-24 at 11:00 | 67815       | 2010-02-24 at 12:32 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10021807 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



Report Date: February 25, 2010  
700376.044.01

Work Order: 10021807  
Moore to Jal #1

Page Number: 4 of 10  
Lovington, NM

## Analytical Report

### Sample: 222839 - MW-14

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 67815  
Prep Batch: 58011

Analytical Method: S 8021B  
Date Analyzed: 2010-02-24  
Sample Preparation: 2010-02-24

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL     | Units | Dilution | RL      |
|--------------|------|--------|-------|----------|---------|
|              |      | Result |       |          |         |
| Benzene      |      | 16.6   | mg/L  | 100      | 0.00100 |
| Toluene      |      | 8.18   | mg/L  | 100      | 0.00100 |
| Ethylbenzene |      | 1.40   | mg/L  | 100      | 0.00100 |
| Xylene       |      | 4.07   | mg/L  | 100      | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 9.22   | mg/L  | 100      | 10.0         | 92               | 65.9 - 129.8    |
| 4-Bromofluorobenzene (4-BFB) |      | 9.50   | mg/L  | 100      | 10.0         | 95               | 51.1 - 118.8    |

### Sample: 222840 - MW-16

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 67748  
Prep Batch: 57960

Analytical Method: S 8021B  
Date Analyzed: 2010-02-23  
Sample Preparation: 2010-02-22

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL     | Units | Dilution | RL      |
|--------------|------|--------|-------|----------|---------|
|              |      | Result |       |          |         |
| Benzene      |      | 39.6   | mg/L  | 100      | 0.00100 |
| Toluene      |      | 6.16   | mg/L  | 100      | 0.00100 |
| Ethylbenzene |      | 1.31   | mg/L  | 100      | 0.00100 |
| Xylene       |      | 2.65   | mg/L  | 100      | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 9.59   | mg/L  | 100      | 10.0         | 96               | 65.9 - 129.8    |
| 4-Bromofluorobenzene (4-BFB) |      | 8.20   | mg/L  | 100      | 10.0         | 82               | 51.1 - 118.8    |

### Sample: 222841 - MW-17

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 67748  
Prep Batch: 57960

Analytical Method: S 8021B  
Date Analyzed: 2010-02-23  
Sample Preparation: 2010-02-22

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

Report Date: February 25, 2010  
700376.044.01

Work Order: 10021807  
Moore to Jal #1

Page Number: 5 of 10  
Lovington, NM

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0989 | mg/L  | 1        | 0.100           | 99                  | 65.9 - 129.8       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0780 | mg/L  | 1        | 0.100           | 78                  | 51.1 - 118.8       |

**Sample: 222842 - MW-18**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 67748  
Prep Batch: 57960

Analytical Method: S 8021B  
Date Analyzed: 2010-02-23  
Sample Preparation: 2010-02-22

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0950 | mg/L  | 1        | 0.100           | 95                  | 65.9 - 129.8       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0720 | mg/L  | 1        | 0.100           | 72                  | 51.1 - 118.8       |

**Sample: 222843 - MW-19**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 67748  
Prep Batch: 57960

Analytical Method: S 8021B  
Date Analyzed: 2010-02-23  
Sample Preparation: 2010-02-22

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

Report Date: February 25, 2010  
700376.044.01

Work Order: 10021807  
Moore to Jal #1

Page Number: 6 of 10  
Lovington, NM

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0958 | mg/L  | 1        | 0.100        | 96               | 65.9 - 129.8    |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0730 | mg/L  | 1        | 0.100        | 73               | 51.1 - 118.8    |

**Sample: 222844 - MW-20**

Laboratory: Midland

Analysis: BTEX

QC Batch: 67748

Prep Batch: 57960

Analytical Method: S 8021B

Date Analyzed: 2010-02-23

Sample Preparation: 2010-02-22

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0966 | mg/L  | 1        | 0.100        | 97               | 65.9 - 129.8    |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0721 | mg/L  | 1        | 0.100        | 72               | 51.1 - 118.8    |

**Method Blank (1)**      QC Batch: 67748

QC Batch: 67748

Prep Batch: 57960

Date Analyzed: 2010-02-23

QC Preparation: 2010-02-22

Analyzed By: AG

Prepared By: AG

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000300     | mg/L  | 0.001 |
| Toluene      |      | <0.000200     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000200     | mg/L  | 0.001 |
| Xylene       |      | <0.000900     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0930 | mg/L  | 1        | 0.100        | 93               | 73.6 - 126.6    |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0669 | mg/L  | 1        | 0.100        | 67               | 62.6 - 117.5    |

Report Date: February 25, 2010  
700376.044.01

Work Order: 10021807  
Moore to Jal #1

Page Number: 7 of 10  
Lovington, NM

**Method Blank (1)**      QC Batch: 67815

QC Batch: 67815  
Prep Batch: 58011

Date Analyzed: 2010-02-24  
QC Preparation: 2010-02-24

Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000300     | mg/L  | 0.001 |
| Toluene      |      | <0.000200     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000200     | mg/L  | 0.001 |
| Xylene       |      | <0.000900     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0895 | mg/L  | 1        | 0.100           | 90                  | 73.6 - 126.6       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0842 | mg/L  | 1        | 0.100           | 84                  | 62.6 - 117.5       |

**Laboratory Control Spike (LCS-1)**

QC Batch: 67748  
Prep Batch: 57960

Date Analyzed: 2010-02-23  
QC Preparation: 2010-02-22

Analyzed By: AG  
Prepared By: AG

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0924        | mg/L  | 1    | 0.100           | <0.000300        | 92   | 79.4 - 112.4  |
| Toluene      | 0.0913        | mg/L  | 1    | 0.100           | <0.000200        | 91   | 79.3 - 110    |
| Ethylbenzene | 0.0916        | mg/L  | 1    | 0.100           | <0.000200        | 92   | 73.8 - 113.1  |
| Xylene       | 0.274         | mg/L  | 1    | 0.300           | <0.000900        | 91   | 73.9 - 113.6  |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.0930         | mg/L  | 1    | 0.100           | <0.000300        | 93   | 79.4 - 112.4  | 1   | 20           |
| Toluene      | 0.0921         | mg/L  | 1    | 0.100           | <0.000200        | 92   | 79.3 - 110    | 1   | 20           |
| Ethylbenzene | 0.0913         | mg/L  | 1    | 0.100           | <0.000200        | 91   | 73.8 - 113.1  | 0   | 20           |
| Xylene       | 0.275          | mg/L  | 1    | 0.300           | <0.000900        | 92   | 73.9 - 113.6  | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       | 0.0850        | 0.0843         | mg/L  | 1    | 0.100           | 85          | 84           | 76.2 - 129.6  |
| 4-Bromofluorobenzene (4-BFB) | 0.0865        | 0.0860         | mg/L  | 1    | 0.100           | 86          | 86           | 77.9 - 119.8  |

Report Date: February 25, 2010  
700376.044.01

Work Order: 10021807  
Moore to Jal #1

Page Number: 8 of 10  
Lovington, NM

### Laboratory Control Spike (LCS-1)

QC Batch: 67815  
Prep Batch: 58011

Date Analyzed: 2010-02-24  
QC Preparation: 2010-02-24

Analyzed By: AG  
Prepared By: AG

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0937        | mg/L  | 1    | 0.100           | <0.000300        | 94   | 79.4 - 112.4  |
| Toluene      | 0.0940        | mg/L  | 1    | 0.100           | <0.000200        | 94   | 79.3 - 110    |
| Ethylbenzene | 0.0935        | mg/L  | 1    | 0.100           | <0.000200        | 94   | 73.8 - 113.1  |
| Xylene       | 0.281         | mg/L  | 1    | 0.300           | <0.000900        | 94   | 73.9 - 113.6  |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.0932         | mg/L  | 1    | 0.100           | <0.000300        | 93   | 79.4 - 112.4  | 0   | 20           |
| Toluene      | 0.0933         | mg/L  | 1    | 0.100           | <0.000200        | 93   | 79.3 - 110    | 1   | 20           |
| Ethylbenzene | 0.0929         | mg/L  | 1    | 0.100           | <0.000200        | 93   | 73.8 - 113.1  | 1   | 20           |
| Xylene       | 0.280          | mg/L  | 1    | 0.300           | <0.000900        | 93   | 73.9 - 113.6  | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       | 0.0887        | 0.0933         | mg/L  | 1    | 0.100           | 89          | 93           | 76.2 - 129.6  |
| 4-Bromofluorobenzene (4-BFB) | 0.0941        | 0.0983         | mg/L  | 1    | 0.100           | 94          | 98           | 77.9 - 119.8  |

### Matrix Spike (MS-1) Spiked Sample: 222840

QC Batch: 67748  
Prep Batch: 57960

Date Analyzed: 2010-02-23  
QC Preparation: 2010-02-22

Analyzed By: AG  
Prepared By: AG

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 48.2         | mg/L  | 100  | 10.0            | 39.5949          | 86   | 77.3 - 117.4  |
| Toluene      | 15.2         | mg/L  | 100  | 10.0            | 6.1551           | 90   | 75 - 111.8    |
| Ethylbenzene | 10.2         | mg/L  | 100  | 10.0            | 1.3106           | 89   | 78.8 - 106.6  |
| Xylene       | 29.4         | mg/L  | 100  | 30.0            | 2.653            | 89   | 68.9 - 114    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 49.5          | mg/L  | 100  | 10.0            | 39.5949          | 99   | 77.3 - 117.4  | 3   | 20           |
| Toluene      | 15.6          | mg/L  | 100  | 10.0            | 6.1551           | 94   | 75 - 111.8    | 3   | 20           |
| Ethylbenzene | 10.4          | mg/L  | 100  | 10.0            | 1.3106           | 91   | 78.8 - 106.6  | 2   | 20           |
| Xylene       | 30.0          | mg/L  | 100  | 30.0            | 2.653            | 91   | 68.9 - 114    | 2   | 20           |

Report Date: February 25, 2010  
700376.044.01

Work Order: 10021807  
Moore to Jal #1

Page Number: 9 of 10  
Lovington, NM

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 8.96         | 8.71          | mg/L  | 100  | 10              | 90         | 87          | 76.3 - 129.8  |
| 4-Bromofluorobenzene (4-BFB) | 9.25         | 9.04          | mg/L  | 100  | 10              | 92         | 90          | 75.2 - 112.8  |

**Matrix Spike (MS-1)** Spiked Sample: 222839

QC Batch: 67815  
Prep Batch: 58011

Date Analyzed: 2010-02-24  
QC Preparation: 2010-02-24

Analyzed By: AG  
Prepared By: AG

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 25.6         | mg/L  | 100  | 10.0            | 16.6242          | 90   | 77.3 - 117.4  |
| Toluene      | 16.3         | mg/L  | 100  | 10.0            | 8.1788           | 81   | 75 - 111.8    |
| Ethylbenzene | 9.84         | mg/L  | 100  | 10.0            | 1.4033           | 84   | 78.8 - 106.6  |
| Xylene       | 29.3         | mg/L  | 100  | 30.0            | 4.0697           | 84   | 68.9 - 114    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 25.7          | mg/L  | 100  | 10.0            | 16.6242          | 91   | 77.3 - 117.4  | 0   | 20           |
| Toluene      | 16.4          | mg/L  | 100  | 10.0            | 8.1788           | 82   | 75 - 111.8    | 1   | 20           |
| Ethylbenzene | 10.0          | mg/L  | 100  | 10.0            | 1.4033           | 86   | 78.8 - 106.6  | 2   | 20           |
| Xylene       | 29.7          | mg/L  | 100  | 30.0            | 4.0697           | 85   | 68.9 - 114    | 1   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 8.60         | 8.44          | mg/L  | 100  | 10              | 86         | 84          | 76.3 - 129.8  |
| 4-Bromofluorobenzene (4-BFB) | 9.28         | 9.06          | mg/L  | 100  | 10              | 93         | 91          | 75.2 - 112.8  |

**Standard (CCV-2)**

QC Batch: 67748

Date Analyzed: 2010-02-23

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0870                 | 87                          | 80 - 120                      | 2010-02-23       |
| Toluene      |      | mg/L  | 0.100                 | 0.0865                 | 86                          | 80 - 120                      | 2010-02-23       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0874                 | 87                          | 80 - 120                      | 2010-02-23       |
| Xylene       |      | mg/L  | 0.300                 | 0.262                  | 87                          | 80 - 120                      | 2010-02-23       |

Report Date: February 25, 2010  
700376.044.01

Work Order: 10021807  
Moore to Jal #1

Page Number: 10 of 10  
Lovington, NM

**Standard (CCV-3)**

QC Batch: 67748

Date Analyzed: 2010-02-23

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0939                 | 94                          | 80 - 120                      | 2010-02-23       |
| Toluene      |      | mg/L  | 0.100                 | 0.0932                 | 93                          | 80 - 120                      | 2010-02-23       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0941                 | 94                          | 80 - 120                      | 2010-02-23       |
| Xylene       |      | mg/L  | 0.300                 | 0.281                  | 94                          | 80 - 120                      | 2010-02-23       |

**Standard (CCV-2)**

QC Batch: 67815

Date Analyzed: 2010-02-24

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0921                 | 92                          | 80 - 120                      | 2010-02-24       |
| Toluene      |      | mg/L  | 0.100                 | 0.0919                 | 92                          | 80 - 120                      | 2010-02-24       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0907                 | 91                          | 80 - 120                      | 2010-02-24       |
| Xylene       |      | mg/L  | 0.300                 | 0.274                  | 91                          | 80 - 120                      | 2010-02-24       |

**Standard (CCV-3)**

QC Batch: 67815

Date Analyzed: 2010-02-24

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0881                 | 88                          | 80 - 120                      | 2010-02-24       |
| Toluene      |      | mg/L  | 0.100                 | 0.0877                 | 88                          | 80 - 120                      | 2010-02-24       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0870                 | 87                          | 80 - 120                      | 2010-02-24       |
| Xylene       |      | mg/L  | 0.300                 | 0.262                  | 87                          | 80 - 120                      | 2010-02-24       |

**BioAquatic Testing**  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

FIELD CODE

**ANALYSIS REQUEST**  
**(Circle or Specify Method No.)**

|                                                                          |                                 |
|--------------------------------------------------------------------------|---------------------------------|
| MIBE                                                                     | 8021 / 602 / 8260 / 624         |
| BTEX                                                                     | 8027 / 602 / 8260 / 624         |
| TPH                                                                      | 418.1 / TX1005 / TX1005 EX(C35) |
| TPH                                                                      | 8015 GRO / DRO / TVHC           |
| PAH                                                                      | 8270 / 625                      |
| Total Metals Ag As Ba Cd Cr Pb Se Hg                                     | 6010/200.7                      |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg                                      |                                 |
| TCLP Volatiles                                                           |                                 |
| TCLP Semi Volatiles                                                      |                                 |
| TCLP Pesticides                                                          |                                 |
| RCI                                                                      |                                 |
| GC/MS Vol.                                                               | 8260 / 624                      |
| GC/MS Semi.                                                              | Vol. 8270 / 625                 |
| PCB's                                                                    | 8082 / 608                      |
| Pesticides                                                               | 8081 / 608                      |
| BOD, TSS, pH                                                             |                                 |
| Moisture Content                                                         |                                 |
| Cl, Fl, SO <sub>4</sub> , NO <sub>3</sub> , NO <sub>2</sub> , Alkalinity |                                 |
| Na, Ca, Mg, K, TDS, EC                                                   |                                 |
| Turn Around Time if different from standard                              |                                 |
| Hold                                                                     |                                 |

| Relinquished by:   | Company: | Date:   | Time: | Received by:       | Company: | Date:   | Time: | INST                                                         | LAB USE                                                                                                                            | REMARKS:                                                                                                                                                                                              |
|--------------------|----------|---------|-------|--------------------|----------|---------|-------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>[Signature]</i> | TALON    | 1/18/10 | 0700  | <i>[Signature]</i> | TALON    | 1/18/10 | 0700  | OBS <input type="checkbox"/><br>COR <input type="checkbox"/> | LAB USE ONLY                                                                                                                       | X All tests - Midland<br>Dry Weight Basis Required <input type="checkbox"/><br>TRRP Report Required <input type="checkbox"/><br>Check if Special Reporting Limits Are Needed <input type="checkbox"/> |
| <i>[Signature]</i> | TALON    | 1/18/10 | 0925  | <i>[Signature]</i> | Trace    | 2/18/10 | 0925  | OBS <input type="checkbox"/><br>COR <input type="checkbox"/> | Inter <input checked="" type="radio"/> N<br>Headpiece <input checked="" type="radio"/> NA<br>Login Review <input type="checkbox"/> |                                                                                                                                                                                                       |
| <i>[Signature]</i> | Company: | Date:   | Time: | Received by:       | Company: | Date:   | Time: | INST                                                         |                                                                                                                                    |                                                                                                                                                                                                       |

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY



## Summary Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX 79706

Report Date: April 26, 2010

Work Order: 10042325



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 229493 | MW-21       | water  | 2010-04-21 | 11:51      | 2010-04-23    |
| 229494 | MW-22       | water  | 2010-04-21 | 13:00      | 2010-04-23    |
| 229495 | MW-23       | water  | 2010-04-21 | 14:00      | 2010-04-23    |

| Sample - Field Code | BTEX              |                   |                        |                  |
|---------------------|-------------------|-------------------|------------------------|------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene<br>(mg/L) |
| 229493 - MW-21      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 229494 - MW-22      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 229495 - MW-23      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

**WBENC:** 237019

**HUB:** 1752439743100-86536  
**NCTRCA** WFWB38444Y0909

**DBE:** VN 20657

## NELAP Certifications

**Lubbock:** T104704219-08-TX  
LELAP-02003  
Kansas E-10317

**El Paso:** T104704221-08-TX  
LELAP-02002

**Midland:** T104704392-08-TX

## Analytical and Quality Control Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX, 79706

**Report Date:** April 26, 2010

**Work Order:** 10042325



**Project Location:** Lovington, NM  
**Project Name:** Moore to Jal #1  
**Project Number:** 700376.044.01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 229493 | MW-21       | water  | 2010-04-21 | 11:51      | 2010-04-23    |
| 229494 | MW-22       | water  | 2010-04-21 | 13:00      | 2010-04-23    |
| 229495 | MW-23       | water  | 2010-04-21 | 14:00      | 2010-04-23    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2010-04-23 and assigned to work order 10042325. Samples for work order 10042325 were received intact without headspace and at a temperature of 0.9 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|------|---------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 59403         | 2010-04-23 at 11:00 | 69404       | 2010-04-23 at 09:21 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10042325 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: April 26, 2010  
700376.044.01

Work Order: 10042325  
Moore to Jal #1

Page Number: 4 of 6  
Lovington, NM

## Analytical Report

### Sample: 229493 - MW-21

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 69404  
Prep Batch: 59403

Analytical Method: S 8021B  
Date Analyzed: 2010-04-23  
Sample Preparation: 2010-04-23

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0903 | mg/L  | 1        | 0.100           | 90                  | 65.2 - 130.3       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0597 | mg/L  | 1        | 0.100           | 60                  | 51.1 - 121.7       |

### Sample: 229494 - MW-22

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 69404  
Prep Batch: 59403

Analytical Method: S 8021B  
Date Analyzed: 2010-04-23  
Sample Preparation: 2010-04-23

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0871 | mg/L  | 1        | 0.100           | 87                  | 65.2 - 130.3       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0579 | mg/L  | 1        | 0.100           | 58                  | 51.1 - 121.7       |

### Sample: 229495 - MW-23

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 69404  
Prep Batch: 59403

Analytical Method: S 8021B  
Date Analyzed: 2010-04-23  
Sample Preparation: 2010-04-23

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

Report Date: April 26, 2010  
700376.044.01

Work Order: 10042325  
Moore to Jal #1

Page Number: 5 of 6  
Lovington, NM

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.105  | mg/L  | 1        | 0.100           | 105                 | 65.2 - 130.3       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0713 | mg/L  | 1        | 0.100           | 71                  | 51.1 - 121.7       |

**Method Blank (1)**      QC Batch: 69404

QC Batch: 69404  
Prep Batch: 59403

Date Analyzed: 2010-04-23  
QC Preparation: 2010-04-23

Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000300     | mg/L  | 0.001 |
| Toluene      |      | <0.000200     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000200     | mg/L  | 0.001 |
| Xylene       |      | <0.000900     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0990 | mg/L  | 1        | 0.100           | 99                  | 73.6 - 126.6       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0697 | mg/L  | 1        | 0.100           | 70                  | 62.6 - 117.5       |

**Laboratory Control Spike (LCS-1)**

QC Batch: 69404  
Prep Batch: 59403

Date Analyzed: 2010-04-23  
QC Preparation: 2010-04-23

Analyzed By: AG  
Prepared By: AG

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0977        | mg/L  | 1    | 0.100           | <0.000300        | 98   | 79.4 - 112.4  |
| Toluene      | 0.0973        | mg/L  | 1    | 0.100           | <0.000200        | 97   | 79.3 - 110    |
| Ethylbenzene | 0.0948        | mg/L  | 1    | 0.100           | <0.000200        | 95   | 73.8 - 113.1  |
| Xylene       | 0.288         | mg/L  | 1    | 0.300           | <0.000900        | 96   | 73.9 - 113.6  |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.101          | mg/L  | 1    | 0.100           | <0.000300        | 101  | 79.4 - 112.4  | 3   | 20           |
| Toluene      | 0.101          | mg/L  | 1    | 0.100           | <0.000200        | 101  | 79.3 - 110    | 4   | 20           |
| Ethylbenzene | 0.0987         | mg/L  | 1    | 0.100           | <0.000200        | 99   | 73.8 - 113.1  | 4   | 20           |
| Xylene       | 0.300          | mg/L  | 1    | 0.300           | <0.000900        | 100  | 73.9 - 113.6  | 4   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       | 0.0959        | 0.102          | mg/L  | 1    | 0.100           | 96          | 102          | 73.2 - 129.6  |
| 4-Bromofluorobenzene (4-BFB) | 0.0900        | 0.0961         | mg/L  | 1    | 0.100           | 90          | 96           | 77.9 - 119.8  |

#### Standard (CCV-1)

QC Batch: 69404

Date Analyzed: 2010-04-23

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0973                 | 97                          | 80 - 120                      | 2010-04-23       |
| Toluene      |      | mg/L  | 0.100                 | 0.0940                 | 94                          | 80 - 120                      | 2010-04-23       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0876                 | 88                          | 80 - 120                      | 2010-04-23       |
| Xylene       |      | mg/L  | 0.300                 | 0.266                  | 89                          | 80 - 120                      | 2010-04-23       |

#### Standard (CCV-2)

QC Batch: 69404

Date Analyzed: 2010-04-23

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0992                 | 99                          | 80 - 120                      | 2010-04-23       |
| Toluene      |      | mg/L  | 0.100                 | 0.0985                 | 98                          | 80 - 120                      | 2010-04-23       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0958                 | 96                          | 80 - 120                      | 2010-04-23       |
| Xylene       |      | mg/L  | 0.300                 | 0.290                  | 97                          | 80 - 120                      | 2010-04-23       |

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1286

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

BioAqatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

Company Name: Lab/LPE  
Address: (Street, City, Zip)  
Phone #: 432-522-2133  
Fax #:   
Contact Person: 2901 Rankin Hwy.  
E-mail: SKillingsworth@talonlpe.com  
Invoice to: Steve Killingsworth  
(If different from above) PLAINS Jason Henry  
Project #: 700376.044.01  
Project Name: Moore to Jal #1  
Project Location (including state): SRS # 2002-10270  
Sampler Signature:

## ANALYSIS REQUEST (Circle or Specify Method No.)

| LAB #  | LAB USE (ONLY) | FIELD CODE | # CONTAINERS | VOLUME / AMOUNT | MATRIX | PRESERVATIVE METHOD | SAMPLING | TIME | DATE    | MTBE 8021 / 602 / 8260 / 624 | BTEX 8021 / 602 / 8260 / 624 | TPH 418.1 / TX1005 / TX1005 Ext(C35) | TPH 8015 GRO / DRO / TVHC | PAH 8270 / 625 | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260 / 624 | GC/MS Seml. Vol. 8270 / 625 | PCBs 8082 / 608 | Pesticides 8081 / 608 | BOD, TSS, pH | Moisture Content | Cl, FI, SO4, NO3, NO2, Alkalinity | Na, Ca, Mg, K, TDS, EC | Turn Around Time if different from standard | Hold |   |
|--------|----------------|------------|--------------|-----------------|--------|---------------------|----------|------|---------|------------------------------|------------------------------|--------------------------------------|---------------------------|----------------|-------------------------------------------------|-------------------------------------|----------------|---------------------|-----------------|-----|-----------------------|-----------------------------|-----------------|-----------------------|--------------|------------------|-----------------------------------|------------------------|---------------------------------------------|------|---|
| 229993 |                | MW-21      | 3            | VDA             | X      | X                   | X        | X    | 4/21/04 | X                            | X                            | X                                    | X                         | X              | X                                               | X                                   | X              | X                   | X               | X   | X                     | X                           | X               | X                     | X            | X                | X                                 | X                      | X                                           | X    | X |
| 4994   |                | MW-22      | 3            | VDA             | X      | X                   | X        | X    | 4/21/04 | X                            | X                            | X                                    | X                         | X              | X                                               | X                                   | X              | X                   | X               | X   | X                     | X                           | X               | X                     | X            | X                | X                                 | X                      | X                                           | X    | X |
| 4995   |                | MW-23      | 3            | VDA             | X      | X                   | X        | X    | 4/21/04 | X                            | X                            | X                                    | X                         | X              | X                                               | X                                   | X              | X                   | X               | X   | X                     | X                           | X               | X                     | X            | X                | X                                 | X                      | X                                           | X    | X |

Relinquished by: Jason Henry Company: Trace Date: 4/23/04 Time: 10:30  
Relinquished by: Steve Killingsworth Company: Trace Date: 4/23/04 Time: 10:30  
Relinquished by: Steve Killingsworth Company: Trace Date: 4/23/04 Time: 10:30

LAB USE ONLY

REMARKS: 2000 tests - Midland

Dry Weight Basis Required ☐  
TRRP Report Required ☐  
Check if Special Reporting Limits Are Needed ☐



## Summary Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX 79706

Report Date: May 4, 2010

Work Order: 10043027



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 230144 | MW-26       | water  | 2010-04-29 | 13:00      | 2010-04-30    |
| 230145 | MW-27       | water  | 2010-04-29 | 12:00      | 2010-04-30    |
| 230146 | MW-28       | water  | 2010-04-29 | 10:00      | 2010-04-30    |
| 230147 | MW-29       | water  | 2010-04-29 | 11:00      | 2010-04-30    |

| Sample - Field Code | BTEX              |                   |                        |                  |
|---------------------|-------------------|-------------------|------------------------|------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene<br>(mg/L) |
| 230144 - MW-26      | 0.00400           | 0.00250           | <0.00100               | <0.00100         |
| 230145 - MW-27      | 0.00720           | 0.00340           | <0.00100               | <0.00100         |
| 230146 - MW-28      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 230147 - MW-29      | 10.7              | 3.00              | 0.437                  | 1.29             |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

**WBENC:** 237019

**HUB:** 1752439743100-86536  
**NCTRCA** WFWB38444Y0909

**DBE:** VN 20657

## NELAP Certifications

**Lubbock:** T104704219-08-TX  
LELAP-02003  
Kansas E-10317

**El Paso:** T104704221-08-TX  
LELAP-02002

**Midland:** T104704392-08-TX

## Analytical and Quality Control Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX, 79706

**Report Date:** May 4, 2010

**Work Order:** 10043027



**Project Location:** Lovington, NM  
**Project Name:** Moore to Jal #1  
**Project Number:** 700376.044.01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 230144 | MW-26       | water  | 2010-04-29 | 13:00      | 2010-04-30    |
| 230145 | MW-27       | water  | 2010-04-29 | 12:00      | 2010-04-30    |
| 230146 | MW-28       | water  | 2010-04-29 | 10:00      | 2010-04-30    |
| 230147 | MW-29       | water  | 2010-04-29 | 11:00      | 2010-04-30    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2010-04-30 and assigned to work order 10043027. Samples for work order 10043027 were received intact without headspace and at a temperature of 3.3 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|------|---------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 59629         | 2010-05-03 at 16:00 | 69662       | 2010-05-03 at 17:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10043027 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: May 4, 2010  
700376.044.01

Work Order: 10043027  
Moore to Jal #1

Page Number: 4 of 7  
Lovington, NM

## Analytical Report

### Sample: 230144 - MW-26

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 69662  
Prep Batch: 59629

Analytical Method: S 8021B  
Date Analyzed: 2010-05-03  
Sample Preparation: 2010-05-03

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.00400      | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00250      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.101  | mg/L  | 1        | 0.100           | 101                 | 65.2 - 130.3       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0834 | mg/L  | 1        | 0.100           | 83                  | 51.1 - 121.7       |

### Sample: 230145 - MW-27

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 69662  
Prep Batch: 59629

Analytical Method: S 8021B  
Date Analyzed: 2010-05-03  
Sample Preparation: 2010-05-03

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.00720      | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00340      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.104  | mg/L  | 1        | 0.100           | 104                 | 65.2 - 130.3       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0853 | mg/L  | 1        | 0.100           | 85                  | 51.1 - 121.7       |

### Sample: 230146 - MW-28

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 69662  
Prep Batch: 59629

Analytical Method: S 8021B  
Date Analyzed: 2010-05-03  
Sample Preparation: 2010-05-03

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

Report Date: May 4, 2010  
700376.044.01

Work Order: 10043027  
Moore to Jal #1

Page Number: 5 of 7  
Lovington, NM

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0896 | mg/L  | 1        | 0.100           | 90                  | 65.2 - 130.3       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0714 | mg/L  | 1        | 0.100           | 71                  | 51.1 - 121.7       |

**Sample: 230147 - MW-29**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 69662  
Prep Batch: 59629

Analytical Method: S 8021B  
Date Analyzed: 2010-05-03  
Sample Preparation: 2010-05-03

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 10.7         | mg/L  | 50       | 0.00100 |
| Toluene      |      | 3.00         | mg/L  | 50       | 0.00100 |
| Ethylbenzene |      | 0.437        | mg/L  | 50       | 0.00100 |
| Xylene       |      | 1.29         | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 4.74   | mg/L  | 50       | 5.00            | 95                  | 65.2 - 130.3       |
| 4-Bromofluorobenzene (4-BFB) |      | 4.05   | mg/L  | 50       | 5.00            | 81                  | 51.1 - 121.7       |

**Method Blank (1) QC Batch: 69662**

QC Batch: 69662  
Prep Batch: 59629

Date Analyzed: 2010-05-03  
QC Preparation: 2010-05-03

Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000300     | mg/L  | 0.001 |
| Toluene      |      | <0.000200     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000200     | mg/L  | 0.001 |
| Xylene       |      | <0.000900     | mg/L  | 0.001 |

Report Date: May 4, 2010  
700376.044.01

Work Order: 10043027  
Moore to Jal #1

Page Number: 6 of 7  
Lovington, NM

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.102  | mg/L  | 1        | 0.100        | 102              | 73.6 - 126.6    |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0914 | mg/L  | 1        | 0.100        | 91               | 62.6 - 117.5    |

#### Laboratory Control Spike (LCS-1)

QC Batch: 69662  
Prep Batch: 59629

Date Analyzed: 2010-05-03  
QC Preparation: 2010-05-03

Analyzed By: AG  
Prepared By: AG

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|--------------|------------|-------|------|--------------|---------------|------|--------------|
| Benzene      | 0.0965     | mg/L  | 1    | 0.100        | <0.000300     | 96   | 79.4 - 112.4 |
| Toluene      | 0.0975     | mg/L  | 1    | 0.100        | <0.000200     | 98   | 79.3 - 110   |
| Ethylbenzene | 0.0951     | mg/L  | 1    | 0.100        | <0.000200     | 95   | 73.8 - 113.1 |
| Xylene       | 0.286      | mg/L  | 1    | 0.300        | <0.000900     | 95   | 73.9 - 113.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene      | 0.0996     | mg/L  | 1    | 0.100        | <0.000300     | 100  | 79.4 - 112.4 | 3   | 20        |
| Toluene      | 0.101      | mg/L  | 1    | 0.100        | <0.000200     | 101  | 79.3 - 110   | 4   | 20        |
| Ethylbenzene | 0.100      | mg/L  | 1    | 0.100        | <0.000200     | 100  | 73.8 - 113.1 | 5   | 20        |
| Xylene       | 0.301      | mg/L  | 1    | 0.300        | <0.000900     | 100  | 73.9 - 113.6 | 5   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit   |
|------------------------------|------------|------------|-------|------|--------------|----------|----------|--------------|
| Trifluorotoluene (TFT)       | 0.103      | 0.102      | mg/L  | 1    | 0.100        | 103      | 102      | 73.2 - 129.6 |
| 4-Bromofluorobenzene (4-BFB) | 0.0974     | 0.0975     | mg/L  | 1    | 0.100        | 97       | 98       | 77.9 - 119.8 |

#### Standard (CCV-1)

QC Batch: 69662

Date Analyzed: 2010-05-03

Analyzed By: AG

| Param        | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Benzene      |      | mg/L  | 0.100           | 0.0937           | 94                    | 80 - 120                | 2010-05-03    |
| Toluene      |      | mg/L  | 0.100           | 0.107            | 107                   | 80 - 120                | 2010-05-03    |
| Ethylbenzene |      | mg/L  | 0.100           | 0.103            | 103                   | 80 - 120                | 2010-05-03    |
| Xylene       |      | mg/L  | 0.300           | 0.310            | 103                   | 80 - 120                | 2010-05-03    |

Report Date: May 4, 2010  
700376.044.01

Work Order: 10043027  
Moore to Jal #1

Page Number: 7 of 7  
Lovington, NM

**Standard (CCV-2)**

QC Batch: 69662

Date Analyzed: 2010-05-03

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0980                 | 98                          | 80 - 120                      | 2010-05-03       |
| Toluene      |      | mg/L  | 0.100                 | 0.0979                 | 98                          | 80 - 120                      | 2010-05-03       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0961                 | 96                          | 80 - 120                      | 2010-05-03       |
| Xylene       |      | mg/L  | 0.300                 | 0.291                  | 97                          | 80 - 120                      | 2010-05-03       |



LAB Order # 100436027

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

BioAquatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750  
1 (888) 588-3443

email: lab@traceanalysis.com

Company Name: TALON LPE Phone #: 210-245-8025 (432-522-2133)  
Address: 2901 RANVIN HWY (Street, City, Zip) Fax #: 432-522-2180  
Contact Person: STEVE KILLINGSWORTH E-mail: SKILLINGSWORTH@TALONLPE.COM  
Invoice to: PLAINS (If different from above) (JASON HENRY 2002-10-27)  
Project #: 700376.044.01 Project Name: MOORE TO TAL #1  
Project Location (including state): COUNTY TEN, NM Sampler Signature: [Signature]

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     |      | SAMPLING |       |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|----------|-------|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME  |
| 230144                  | mw-240     | 3            | ✓               | X      |      |     |        | X                   |                  |                                |      | X   |      | 4/29     | 13:00 |
| 145                     | mw-27      | 3            | ✓               | X      |      |     |        | X                   |                  |                                |      | X   |      | 4/29     | 12:00 |
| 146                     | mw-28      | 3            | ✓               | X      |      |     |        | X                   |                  |                                |      | X   |      | 4/29     | 10:00 |
| 147                     | mw-29      | 3            | ✓               | X      |      |     |        | X                   |                  |                                |      | X   |      | 4/29     | 11:00 |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |

## ANALYSIS REQUEST (Circle or Specify Method No.)

|                              |                            |                                      |                           |                |                                                 |                                     |                |                     |                 |     |                       |                             |                  |                       |              |                  |                                  |                        |                                             |
|------------------------------|----------------------------|--------------------------------------|---------------------------|----------------|-------------------------------------------------|-------------------------------------|----------------|---------------------|-----------------|-----|-----------------------|-----------------------------|------------------|-----------------------|--------------|------------------|----------------------------------|------------------------|---------------------------------------------|
| MTBE 8021 / 602 / 8260 / 624 | BTX (802) 602 / 8260 / 624 | TPH 418.1 / TX1005 / TX1005 Ext(C35) | TPH 8015 GRO / DRO / TVHC | PAH 8270 / 625 | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260 / 624 | GC/MS Semi. Vol. 8270 / 625 | PCB's 8082 / 608 | Pesticides 8081 / 608 | BOD, TSS, pH | Moisture Content | Cl, F, S04, NO3, NO2, Alkalinity | Na, Ca, Mg, K, TDS, EC | Turn Around Time if different from standard |
|------------------------------|----------------------------|--------------------------------------|---------------------------|----------------|-------------------------------------------------|-------------------------------------|----------------|---------------------|-----------------|-----|-----------------------|-----------------------------|------------------|-----------------------|--------------|------------------|----------------------------------|------------------------|---------------------------------------------|

REMARKS: ALL test - Midland

LAB USE ONLY

Relinquished by: [Signature] Company: TRACE Date: 4/30 Time: 13:00 INST: 33.3 OBS: 33.3 COR: 3.3

Relinquished by: [Signature] Company: TRACE Date: 4/30 Time: 13:00 INST: 33.3 OBS: 33.3 COR: 3.3

Relinquished by: [Signature] Company: TRACE Date: 4/30 Time: 13:00 INST: 33.3 OBS: 33.3 COR: 3.3

Dry Weight Basis Required ☐ TRRP Report Required ☐ Check if Special Reporting Limits Are Needed ☐

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Carrier # 507

## Summary Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX 79706

Report Date: June 10, 2010

Work Order: 10060434



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 233814 | MW-14       | water  | 2010-06-02 | 15:15      | 2010-06-04    |
| 233815 | MW-16       | water  | 2010-06-02 | 11:15      | 2010-06-04    |
| 233816 | MW-17       | water  | 2010-06-02 | 15:40      | 2010-06-04    |
| 233817 | MW-18       | water  | 2010-06-02 | 15:24      | 2010-06-04    |
| 233818 | MW-19       | water  | 2010-06-02 | 15:06      | 2010-06-04    |
| 233819 | MW-20       | water  | 2010-06-02 | 14:47      | 2010-06-04    |
| 233820 | MW-26       | water  | 2010-06-02 | 17:00      | 2010-06-04    |
| 233821 | MW-27       | water  | 2010-06-02 | 14:27      | 2010-06-04    |
| 233822 | MW-28       | water  | 2010-06-02 | 12:15      | 2010-06-04    |
| 233823 | MW-29       | water  | 2010-06-02 | 10:05      | 2010-06-04    |

| Sample - Field Code | BTEx              |                   |                        |                  |
|---------------------|-------------------|-------------------|------------------------|------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene<br>(mg/L) |
| 233814 - MW-14      | 12.2              | 4.82              | 0.515                  | 1.28             |
| 233815 - MW-16      | 42.4              | 7.28              | 1.18                   | 2.44             |
| 233816 - MW-17      | 0.00570           | 0.00250           | 0.00130                | 0.00300          |
| 233817 - MW-18      | 0.00740           | 0.00320           | <0.00100               | 0.00320          |
| 233818 - MW-19      | 0.00820           | 0.00310           | <0.00100               | 0.00300          |
| 233819 - MW-20      | 0.0107            | 0.00390           | 0.00160                | 0.00330          |
| 233820 - MW-26      | 0.00550           | 0.00180           | <0.00100               | <0.00100         |
| 233821 - MW-27      | 0.0153            | 0.00350           | <0.00100               | <0.00100         |
| 233822 - MW-28      | 0.0180            | 0.00290           | <0.00100               | <0.00100         |
| 233823 - MW-29      | 11.8              | 2.42              | 0.434                  | 0.962            |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

**WBENC:** 237019

**HUB:** 1752439743100-86536  
**NCTRCA** WFWB38444Y0909

**DBE:** VN 20657

## NELAP Certifications

**Lubbock:** T104704219-08-TX  
LELAP-02003  
Kansas E-10317

**El Paso:** T104704221-08-TX  
LELAP-02002

**Midland:** T104704392-08-TX

## Analytical and Quality Control Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX, 79706

**Report Date:** June 11, 2010

**Work Order:** 10060434



**Project Location:** Lovington, NM  
**Project Name:** Moore to Jal #1  
**Project Number:** 700376.044.01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 233814 | MW-14       | water  | 2010-06-02 | 15:15      | 2010-06-04    |
| 233815 | MW-16       | water  | 2010-06-02 | 11:15      | 2010-06-04    |
| 233816 | MW-17       | water  | 2010-06-02 | 15:40      | 2010-06-04    |
| 233817 | MW-18       | water  | 2010-06-02 | 15:24      | 2010-06-04    |
| 233818 | MW-19       | water  | 2010-06-02 | 15:06      | 2010-06-04    |
| 233819 | MW-20       | water  | 2010-06-02 | 14:47      | 2010-06-04    |
| 233820 | MW-26       | water  | 2010-06-02 | 17:00      | 2010-06-04    |
| 233821 | MW-27       | water  | 2010-06-02 | 14:27      | 2010-06-04    |
| 233822 | MW-28       | water  | 2010-06-02 | 12:15      | 2010-06-04    |
| 233823 | MW-29       | water  | 2010-06-02 | 10:05      | 2010-06-04    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2010-06-04 and assigned to work order 10060434. Samples for work order 10060434 were received intact without headspace and at a temperature of 1.6 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|------|---------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 60618         | 2010-06-09 at 09:00 | 70771       | 2010-06-10 at 02:37 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10060434 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: June 11, 2010  
700376.044.01

Work Order: 10060434  
Moore to Jal #1

Page Number: 4 of 10  
Lovington, NM

## Analytical Report

### Sample: 233814 - MW-14

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 70771  
Prep Batch: 60618

Analytical Method: S 8021B  
Date Analyzed: 2010-06-10  
Sample Preparation: 2010-06-09

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 12.2         | mg/L  | 100      | 0.00100 |
| Toluene      |      | 4.82         | mg/L  | 100      | 0.00100 |
| Ethylbenzene |      | 0.515        | mg/L  | 100      | 0.00100 |
| Xylene       |      | 1.28         | mg/L  | 100      | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 8.43   | mg/L  | 100      | 10.0            | 84                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 6.72   | mg/L  | 100      | 10.0            | 67                  | 51.1 - 128         |

### Sample: 233815 - MW-16

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 70771  
Prep Batch: 60618

Analytical Method: S 8021B  
Date Analyzed: 2010-06-10  
Sample Preparation: 2010-06-09

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 42.4         | mg/L  | 100      | 0.00100 |
| Toluene      |      | 7.28         | mg/L  | 100      | 0.00100 |
| Ethylbenzene |      | 1.18         | mg/L  | 100      | 0.00100 |
| Xylene       |      | 2.44         | mg/L  | 100      | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 9.47   | mg/L  | 100      | 10.0            | 95                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 7.76   | mg/L  | 100      | 10.0            | 78                  | 51.1 - 128         |

### Sample: 233816 - MW-17

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 70771  
Prep Batch: 60618

Analytical Method: S 8021B  
Date Analyzed: 2010-06-10  
Sample Preparation: 2010-06-09

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

Report Date: June 11, 2010  
700376.044.01

Work Order: 10060434  
Moore to Jal #1

Page Number: 5 of 10  
Lovington, NM

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.00570      | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00250      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 0.00130      | mg/L  | 1        | 0.00100 |
| Xylene       |      | 0.00300      | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0822 | mg/L  | 1        | 0.100           | 82                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0580 | mg/L  | 1        | 0.100           | 58                  | 51.1 - 128         |

**Sample: 233817 - MW-18**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 70771  
Prep Batch: 60618

Analytical Method: S 8021B  
Date Analyzed: 2010-06-10  
Sample Preparation: 2010-06-09

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.00740      | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00320      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | 0.00320      | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0921 | mg/L  | 1        | 0.100           | 92                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0660 | mg/L  | 1        | 0.100           | 66                  | 51.1 - 128         |

**Sample: 233818 - MW-19**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 70771  
Prep Batch: 60618

Analytical Method: S 8021B  
Date Analyzed: 2010-06-10  
Sample Preparation: 2010-06-09

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.00820      | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00310      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | 0.00300      | mg/L  | 1        | 0.00100 |

Report Date: June 11, 2010  
700376.044.01

Work Order: 10060434  
Moore to Jal #1

Page Number: 6 of 10  
Lovington, NM

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0864 | mg/L  | 1        | 0.100        | 86               | 67.8 - 126      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0606 | mg/L  | 1        | 0.100        | 61               | 51.1 - 128      |

**Sample: 233819 - MW-20**

Laboratory: Midland

Analysis: BTEX

QC Batch: 70771

Prep Batch: 60618

Analytical Method: S 8021B

Date Analyzed: 2010-06-10

Sample Preparation: 2010-06-09

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

| Parameter    | Flag | RL Result | Units | Dilution | RL      |
|--------------|------|-----------|-------|----------|---------|
| Benzene      |      | 0.0107    | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00390   | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 0.00160   | mg/L  | 1        | 0.00100 |
| Xylene       |      | 0.00330   | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0938 | mg/L  | 1        | 0.100        | 94               | 67.8 - 126      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0683 | mg/L  | 1        | 0.100        | 68               | 51.1 - 128      |

**Sample: 233820 - MW-26**

Laboratory: Midland

Analysis: BTEX

QC Batch: 70771

Prep Batch: 60618

Analytical Method: S 8021B

Date Analyzed: 2010-06-10

Sample Preparation: 2010-06-09

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

| Parameter    | Flag | RL Result | Units | Dilution | RL      |
|--------------|------|-----------|-------|----------|---------|
| Benzene      |      | 0.00550   | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00180   | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100  | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100  | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0768 | mg/L  | 1        | 0.100        | 77               | 67.8 - 126      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0537 | mg/L  | 1        | 0.100        | 54               | 51.1 - 128      |



Report Date: June 11, 2010  
700376.044.01

Work Order: 10060434  
Moore to Jal #1

Page Number: 7 of 10  
Lovington, NM

**Sample: 233821 - MW-27**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 70771  
Prep Batch: 60618

Analytical Method: S 8021B  
Date Analyzed: 2010-06-10  
Sample Preparation: 2010-06-09

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.0153       | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00350      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0921 | mg/L  | 1        | 0.100           | 92                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0677 | mg/L  | 1        | 0.100           | 68                  | 51.1 - 128         |

**Sample: 233822 - MW-28**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 70771  
Prep Batch: 60618

Analytical Method: S 8021B  
Date Analyzed: 2010-06-10  
Sample Preparation: 2010-06-09

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.0180       | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00290      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0933 | mg/L  | 1        | 0.100           | 93                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0680 | mg/L  | 1        | 0.100           | 68                  | 51.1 - 128         |

**Sample: 233823 - MW-29**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 70771  
Prep Batch: 60618

Analytical Method: S 8021B  
Date Analyzed: 2010-06-10  
Sample Preparation: 2010-06-09

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

Report Date: June 11, 2010  
700376.044.01

Work Order: 10060434  
Moore to Jal #1

Page Number: 8 of 10  
Lovington, NM

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 11.8         | mg/L  | 50       | 0.00100 |
| Toluene      |      | 2.42         | mg/L  | 50       | 0.00100 |
| Ethylbenzene |      | 0.434        | mg/L  | 50       | 0.00100 |
| Xylene       |      | 0.962        | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 4.52   | mg/L  | 50       | 5.00            | 90                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 3.83   | mg/L  | 50       | 5.00            | 77                  | 51.1 - 128         |

**Method Blank (1)**      QC Batch: 70771

QC Batch: 70771  
Prep Batch: 60618

Date Analyzed: 2010-06-10  
QC Preparation: 2010-06-09

Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000600     | mg/L  | 0.001 |
| Toluene      |      | <0.000600     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000800     | mg/L  | 0.001 |
| Xylene       |      | <0.000767     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0850 | mg/L  | 1        | 0.100           | 85                  | 70.2 - 118         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0620 | mg/L  | 1        | 0.100           | 62                  | 47.3 - 116         |

**Laboratory Control Spike (LCS-1)**

QC Batch: 70771  
Prep Batch: 60618

Date Analyzed: 2010-06-10  
QC Preparation: 2010-06-09

Analyzed By: AG  
Prepared By: AG

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0948        | mg/L  | 1    | 0.100           | <0.000600        | 95   | 82.9 - 108    |
| Toluene      | 0.0936        | mg/L  | 1    | 0.100           | <0.000600        | 94   | 82.7 - 107    |
| Ethylbenzene | 0.0899        | mg/L  | 1    | 0.100           | <0.000800        | 90   | 78.8 - 106    |
| Xylene       | 0.272         | mg/L  | 1    | 0.300           | <0.000767        | 91   | 79.3 - 106    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: June 11, 2010  
700376.044.01

Work Order: 10060434  
Moore to Jal #1

Page Number: 9 of 10  
Lovington, NM

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.0983         | mg/L  | 1    | 0.100           | <0.000600        | 98   | 82.9 - 108    | 4   | 20           |
| Toluene      | 0.0980         | mg/L  | 1    | 0.100           | <0.000600        | 98   | 82.7 - 107    | 5   | 20           |
| Ethylbenzene | 0.0949         | mg/L  | 1    | 0.100           | <0.000800        | 95   | 78.8 - 106    | 5   | 20           |
| Xylene       | 0.285          | mg/L  | 1    | 0.300           | <0.000767        | 95   | 79.3 - 106    | 5   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       | 0.0754        | 0.0908         | mg/L  | 1    | 0.100           | 75          | 91           | 67.3 - 113    |
| 4-Bromofluorobenzene (4-BFB) | 0.0701        | 0.0842         | mg/L  | 1    | 0.100           | 70          | 84           | 68.2 - 124    |

**Matrix Spike (MS-1)** Spiked Sample: 233815

QC Batch: 70771  
Prep Batch: 60618

Date Analyzed: 2010-06-10  
QC Preparation: 2010-06-09

Analyzed By: AG  
Prepared By: AG

| Param        | MS<br>Result      | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|-------------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | <sup>1</sup> 54.8 | mg/L  | 100  | 10.0            | 42.4519          | 123  | 77.9 - 114    |
| Toluene      | 17.7              | mg/L  | 100  | 10.0            | 7.2765           | 104  | 78.3 - 111    |
| Ethylbenzene | 10.8              | mg/L  | 100  | 10.0            | 1.1849           | 96   | 75.3 - 110    |
| Xylene       | 31.1              | mg/L  | 100  | 30.0            | 2.4352           | 96   | 75.7 - 109    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result     | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|-------------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | <sup>2</sup> 54.5 | mg/L  | 100  | 10.0            | 42.4519          | 120  | 77.9 - 114    | 0   | 20           |
| Toluene      | 17.6              | mg/L  | 100  | 10.0            | 7.2765           | 103  | 78.3 - 111    | 1   | 20           |
| Ethylbenzene | 10.8              | mg/L  | 100  | 10.0            | 1.1849           | 96   | 75.3 - 110    | 0   | 20           |
| Xylene       | 31.1              | mg/L  | 100  | 30.0            | 2.4352           | 96   | 75.7 - 109    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 9.23         | 8.84          | mg/L  | 100  | 10              | 92         | 88          | 68.3 - 107    |
| 4-Bromofluorobenzene (4-BFB) | 8.82         | 8.45          | mg/L  | 100  | 10              | 88         | 84          | 60.1 - 135    |

**Standard (CCV-1)**

QC Batch: 70771

Date Analyzed: 2010-06-10

Analyzed By: AG

<sup>1</sup> Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>2</sup> Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: June 11, 2010  
700376.044.01

Work Order: 10060434  
Moore to Jal #1

Page Number: 10 of 10  
Lovington, NM

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0933                 | 93                          | 80 - 120                      | 2010-06-10       |
| Toluene      |      | mg/L  | 0.100                 | 0.0929                 | 93                          | 80 - 120                      | 2010-06-10       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0902                 | 90                          | 80 - 120                      | 2010-06-10       |
| Xylene       |      | mg/L  | 0.300                 | 0.272                  | 91                          | 80 - 120                      | 2010-06-10       |

**Standard (CCV-2)**

QC Batch: 70771

Date Analyzed: 2010-06-10

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0974                 | 97                          | 80 - 120                      | 2010-06-10       |
| Toluene      |      | mg/L  | 0.100                 | 0.0958                 | 96                          | 80 - 120                      | 2010-06-10       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0924                 | 92                          | 80 - 120                      | 2010-06-10       |
| Xylene       |      | mg/L  | 0.300                 | 0.278                  | 93                          | 80 - 120                      | 2010-06-10       |

**Standard (CCV-3)**

QC Batch: 70771

Date Analyzed: 2010-06-10

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0967                 | 97                          | 80 - 120                      | 2010-06-10       |
| Toluene      |      | mg/L  | 0.100                 | 0.0958                 | 96                          | 80 - 120                      | 2010-06-10       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0922                 | 92                          | 80 - 120                      | 2010-06-10       |
| Xylene       |      | mg/L  | 0.300                 | 0.279                  | 93                          | 80 - 120                      | 2010-06-10       |

# TraceAnalysis, Inc.

**email: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)**

**6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296**

**22 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313**

**200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443**

**BloAquatic Testing**  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

Company Name: LaBunkle PC  
Address: (Street, City, Zip)  
2901 Rankin Hwy.  
Contact Person: Steve Killingsworth  
Invoice to: PLAINS SRS# 2002-10270  
(If different from above)  
Project #: 780376-044.01  
Project Location (including state): Louisiana, NM  
Phone #: 432-572-2133  
Fax #:   
E-mail: SKillingsworth@talenpe.com  
Project Name: Jason Henry  
Signature to Job #1: Jason Henry  
Sampler Signature: Carl

[illegible]

| Relinquished by:   | Company: | Date:  | Time: | Received by:       | Company: | Date:  | Time: | INST<br>OBS<br>COR |
|--------------------|----------|--------|-------|--------------------|----------|--------|-------|--------------------|
| <i>[Signature]</i> | Thelon   | 6/4/10 | 1:55  | <i>[Signature]</i> | Thelon   | 6/4/10 | 0:20  |                    |
| <i>[Signature]</i> | Thelon   | 6/4/10 | 1:10  | <i>[Signature]</i> | Thelon   | 6/4/10 | 11:40 |                    |
| <i>[Signature]</i> | Thelon   | 6/4/10 | 1:10  | <i>[Signature]</i> | Thelon   | 6/4/10 | 11:40 |                    |

[illegible][illegible]

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

**ORIGINAL COPY**

Carrier #

## Summary Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX 79706

Report Date: June 11, 2010

Work Order: 10060705



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 233833 | MW-21       | water  | 2010-06-03 | 10:30      | 2010-06-04    |
| 233834 | MW-22       | water  | 2010-06-03 | 09:30      | 2010-06-04    |
| 233835 | MW-23       | water  | 2010-06-03 | 08:35      | 2010-06-04    |

| Sample - Field Code | BTEX              |                   |                        |                  |
|---------------------|-------------------|-------------------|------------------------|------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene<br>(mg/L) |
| 233833 - MW-21      | 0.00210           | 0.00140           | <0.00100               | <0.00100         |
| 233834 - MW-22      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 233835 - MW-23      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

**WBENC:** 237019

**HUB:** 1752439743100-86536  
**NCTRCA** WFWB38444Y0909

**DBE:** VN 20657

## NELAP Certifications

**Lubbock:** T104704219-08-TX  
LELAP-02003  
Kansas E-10317

**El Paso:** T104704221-08-TX  
LELAP-02002

**Midland:** T104704392-08-TX

## Analytical and Quality Control Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX, 79706

**Report Date:** June 11, 2010

**Work Order:** 10060705



**Project Location:** Lovington, NM  
**Project Name:** Moore to Jal #1  
**Project Number:** 700376.044.01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 233833 | MW-21       | water  | 2010-06-03 | 10:30      | 2010-06-04    |
| 233834 | MW-22       | water  | 2010-06-03 | 09:30      | 2010-06-04    |
| 233835 | MW-23       | water  | 2010-06-03 | 08:35      | 2010-06-04    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.



## Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2010-06-04 and assigned to work order 10060705. Samples for work order 10060705 were received intact without headspace and at a temperature of 1.6 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|------|---------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 60618         | 2010-06-09 at 09:00 | 70771       | 2010-06-10 at 02:37 |
| BTEX | S 8021B | 60643         | 2010-06-10 at 10:00 | 70805       | 2010-06-10 at 17:24 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10060705 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: June 11, 2010  
700376.044.01

Work Order: 10060705  
Moore to Jal #1

Page Number: 4 of 9  
Lovington, NM

## Analytical Report

### Sample: 233833 - MW-21

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 70771  
Prep Batch: 60618

Analytical Method: S 8021B  
Date Analyzed: 2010-06-10  
Sample Preparation: 2010-06-09

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.00210      | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00140      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0828 | mg/L  | 1        | 0.100           | 83                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0587 | mg/L  | 1        | 0.100           | 59                  | 51.1 - 128         |

### Sample: 233834 - MW-22

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 70805  
Prep Batch: 60643

Analytical Method: S 8021B  
Date Analyzed: 2010-06-10  
Sample Preparation: 2010-06-10

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0897 | mg/L  | 1        | 0.100           | 90                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0626 | mg/L  | 1        | 0.100           | 63                  | 51.1 - 128         |

### Sample: 233835 - MW-23

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 70805  
Prep Batch: 60643

Analytical Method: S 8021B  
Date Analyzed: 2010-06-10  
Sample Preparation: 2010-06-10

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

Report Date: June 11, 2010  
700376.044.01

Work Order: 10060705  
Moore to Jal #1

Page Number: 5 of 9  
Lovington, NM

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0831 | mg/L  | 1        | 0.100           | 83                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0571 | mg/L  | 1        | 0.100           | 57                  | 51.1 - 128         |

**Method Blank (1)**      QC Batch: 70771

QC Batch: 70771  
Prep Batch: 60618

Date Analyzed: 2010-06-10  
QC Preparation: 2010-06-09

Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000600     | mg/L  | 0.001 |
| Toluene      |      | <0.000600     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000800     | mg/L  | 0.001 |
| Xylene       |      | <0.000767     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0850 | mg/L  | 1        | 0.100           | 85                  | 70.2 - 118         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0620 | mg/L  | 1        | 0.100           | 62                  | 47.3 - 116         |

**Method Blank (1)**      QC Batch: 70805

QC Batch: 70805  
Prep Batch: 60643

Date Analyzed: 2010-06-10  
QC Preparation: 2010-06-10

Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000600     | mg/L  | 0.001 |
| Toluene      |      | <0.000600     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000800     | mg/L  | 0.001 |
| Xylene       |      | <0.000767     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0884 | mg/L  | 1        | 0.100           | 88                  | 70.2 - 118         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0618 | mg/L  | 1        | 0.100           | 62                  | 47.3 - 116         |

Report Date: June 11, 2010  
700376.044.01

Work Order: 10060705  
Moore to Jal #1

Page Number: 6 of 9  
Lovington, NM

### Laboratory Control Spike (LCS-1)

QC Batch: 70771  
Prep Batch: 60618

Date Analyzed: 2010-06-10  
QC Preparation: 2010-06-09

Analyzed By: AG  
Prepared By: AG

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0948        | mg/L  | 1    | 0.100           | <0.000600        | 95   | 82.9 - 108    |
| Toluene      | 0.0936        | mg/L  | 1    | 0.100           | <0.000600        | 94   | 82.7 - 107    |
| Ethylbenzene | 0.0899        | mg/L  | 1    | 0.100           | <0.000800        | 90   | 78.8 - 106    |
| Xylene       | 0.272         | mg/L  | 1    | 0.300           | <0.000767        | 91   | 79.3 - 106    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.0983         | mg/L  | 1    | 0.100           | <0.000600        | 98   | 82.9 - 108    | 4   | 20           |
| Toluene      | 0.0980         | mg/L  | 1    | 0.100           | <0.000600        | 98   | 82.7 - 107    | 5   | 20           |
| Ethylbenzene | 0.0949         | mg/L  | 1    | 0.100           | <0.000800        | 95   | 78.8 - 106    | 5   | 20           |
| Xylene       | 0.285          | mg/L  | 1    | 0.300           | <0.000767        | 95   | 79.3 - 106    | 5   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       | 0.0754        | 0.0908         | mg/L  | 1    | 0.100           | 75          | 91           | 67.3 - 113    |
| 4-Bromofluorobenzene (4-BFB) | 0.0701        | 0.0842         | mg/L  | 1    | 0.100           | 70          | 84           | 68.2 - 124    |

### Laboratory Control Spike (LCS-1)

QC Batch: 70805  
Prep Batch: 60643

Date Analyzed: 2010-06-10  
QC Preparation: 2010-06-10

Analyzed By: AG  
Prepared By: AG

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0950        | mg/L  | 1    | 0.100           | <0.000600        | 95   | 82.9 - 108    |
| Toluene      | 0.0945        | mg/L  | 1    | 0.100           | <0.000600        | 94   | 82.7 - 107    |
| Ethylbenzene | 0.0919        | mg/L  | 1    | 0.100           | <0.000800        | 92   | 78.8 - 106    |
| Xylene       | 0.276         | mg/L  | 1    | 0.300           | <0.000767        | 92   | 79.3 - 106    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.0950         | mg/L  | 1    | 0.100           | <0.000600        | 95   | 82.9 - 108    | 0   | 20           |
| Toluene      | 0.0950         | mg/L  | 1    | 0.100           | <0.000600        | 95   | 82.7 - 107    | 0   | 20           |
| Ethylbenzene | 0.0920         | mg/L  | 1    | 0.100           | <0.000800        | 92   | 78.8 - 106    | 0   | 20           |
| Xylene       | 0.277          | mg/L  | 1    | 0.300           | <0.000767        | 92   | 79.3 - 106    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT)       | 0.0844     | 0.0857      | mg/L  | 1    | 0.100        | 84       | 86        | 67.3 - 113 |
| 4-Bromofluorobenzene (4-BFB) | 0.0770     | 0.0777      | mg/L  | 1    | 0.100        | 77       | 78        | 68.2 - 124 |

**Matrix Spike (MS-1)** Spiked Sample: 233815

QC Batch: 70771  
Prep Batch: 60618

Date Analyzed: 2010-06-10  
QC Preparation: 2010-06-09

Analyzed By: AG  
Prepared By: AG

| Param                | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------------------|-----------|-------|------|--------------|---------------|------|------------|
| Benzene <sup>1</sup> | 54.8      | mg/L  | 100  | 10.0         | 42.4519       | 123  | 77.9 - 114 |
| Toluene              | 17.7      | mg/L  | 100  | 10.0         | 7.2765        | 104  | 78.3 - 111 |
| Ethylbenzene         | 10.8      | mg/L  | 100  | 10.0         | 1.1849        | 96   | 75.3 - 110 |
| Xylene               | 31.1      | mg/L  | 100  | 30.0         | 2.4352        | 96   | 75.7 - 109 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param                | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------------------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene <sup>2</sup> | 54.5       | mg/L  | 100  | 10.0         | 42.4519       | 120  | 77.9 - 114 | 0   | 20        |
| Toluene              | 17.6       | mg/L  | 100  | 10.0         | 7.2765        | 103  | 78.3 - 111 | 1   | 20        |
| Ethylbenzene         | 10.8       | mg/L  | 100  | 10.0         | 1.1849        | 96   | 75.3 - 110 | 0   | 20        |
| Xylene               | 31.1       | mg/L  | 100  | 30.0         | 2.4352        | 96   | 75.7 - 109 | 0   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT)       | 9.23      | 8.84       | mg/L  | 100  | 10           | 92      | 88       | 68.3 - 107 |
| 4-Bromofluorobenzene (4-BFB) | 8.82      | 8.45       | mg/L  | 100  | 10           | 88      | 84       | 60.1 - 135 |

**Matrix Spike (MS-1)** Spiked Sample: 233886

QC Batch: 70805  
Prep Batch: 60643

Date Analyzed: 2010-06-10  
QC Preparation: 2010-06-10

Analyzed By: AG  
Prepared By: AG

| Param   | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | 16.4      | mg/L  | 100  | 10.0         | 6.3358        | 101  | 77.9 - 114 |
| Toluene | 11.6      | mg/L  | 100  | 10.0         | 1.8201        | 98   | 78.3 - 111 |

*continued ...*

<sup>1</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>2</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: June 11, 2010  
700376.044.01

Work Order: 10060705  
Moore to Jal #1

Page Number: 8 of 9  
Lovington, NM

*matrix spikes continued ...*

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Ethylbenzene | 9.79         | mg/L  | 100  | 10.0            | 0.534            | 92   | 75.3 - 110    |
| Xylene       | 28.1         | mg/L  | 100  | 30.0            | 0.3942           | 92   | 75.7 - 109    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 16.7          | mg/L  | 100  | 10.0            | 6.3358           | 104  | 77.9 - 114    | 2   | 20           |
| Toluene      | 11.8          | mg/L  | 100  | 10.0            | 1.8201           | 100  | 78.3 - 111    | 2   | 20           |
| Ethylbenzene | 10.1          | mg/L  | 100  | 10.0            | 0.534            | 96   | 75.3 - 110    | 3   | 20           |
| Xylene       | 28.8          | mg/L  | 100  | 30.0            | 0.3942           | 95   | 75.7 - 109    | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 8.58         | 8.77          | mg/L  | 100  | 10              | 86         | 88          | 68.3 - 107    |
| 4-Bromofluorobenzene (4-BFB) | 7.77         | 8.07          | mg/L  | 100  | 10              | 78         |             | 60.1 - 135    |

#### Standard (CCV-1)

QC Batch: 70771

Date Analyzed: 2010-06-10

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0933                 | 93                          | 80 - 120                      | 2010-06-10       |
| Toluene      |      | mg/L  | 0.100                 | 0.0929                 | 93                          | 80 - 120                      | 2010-06-10       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0902                 | 90                          | 80 - 120                      | 2010-06-10       |
| Xylene       |      | mg/L  | 0.300                 | 0.272                  | 91                          | 80 - 120                      | 2010-06-10       |

#### Standard (CCV-2)

QC Batch: 70771

Date Analyzed: 2010-06-10

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0974                 | 97                          | 80 - 120                      | 2010-06-10       |
| Toluene      |      | mg/L  | 0.100                 | 0.0958                 | 96                          | 80 - 120                      | 2010-06-10       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0924                 | 92                          | 80 - 120                      | 2010-06-10       |
| Xylene       |      | mg/L  | 0.300                 | 0.278                  | 93                          | 80 - 120                      | 2010-06-10       |

Report Date: June 11, 2010  
700376.044.01

Work Order: 10060705  
Moore to Jal #1

Page Number: 9 of 9  
Lovington, NM

**Standard (CCV-1)**

QC Batch: 70805

Date Analyzed: 2010-06-10

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0937                 | 94                          | 80 - 120                      | 2010-06-10       |
| Toluene      |      | mg/L  | 0.100                 | 0.0931                 | 93                          | 80 - 120                      | 2010-06-10       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0890                 | 89                          | 80 - 120                      | 2010-06-10       |
| Xylene       |      | mg/L  | 0.300                 | 0.268                  | 89                          | 80 - 120                      | 2010-06-10       |

**Standard (CCV-2)**

QC Batch: 70805

Date Analyzed: 2010-06-10

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0953                 | 95                          | 80 - 120                      | 2010-06-10       |
| Toluene      |      | mg/L  | 0.100                 | 0.0950                 | 95                          | 80 - 120                      | 2010-06-10       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0920                 | 92                          | 80 - 120                      | 2010-06-10       |
| Xylene       |      | mg/L  | 0.300                 | 0.276                  | 92                          | 80 - 120                      | 2010-06-10       |





## Summary Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX 79706

Report Date: October 1, 2010

Work Order: 10092709



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 245884 | MW 17       | water  | 2010-09-24 | 12:50      | 2010-09-24    |
| 245885 | MW 18       | water  | 2010-09-24 | 12:55      | 2010-09-24    |
| 245886 | MW 19       | water  | 2010-09-24 | 13:45      | 2010-09-24    |
| 245887 | MW 21       | water  | 2010-09-24 | 13:30      | 2010-09-24    |
| 245888 | MW 22       | water  | 2010-09-24 | 13:00      | 2010-09-24    |
| 245889 | MW 23       | water  | 2010-09-24 | 13:23      | 2010-09-24    |
| 245890 | MW 26       | water  | 2010-09-24 | 12:20      | 2010-09-24    |

| Sample - Field Code | BTEX              |                   |                        |                  |
|---------------------|-------------------|-------------------|------------------------|------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene<br>(mg/L) |
| 245884 - MW 17      | <0.00100          | 0.00120           | <0.00100               | <0.00100         |
| 245885 - MW 18      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 245886 - MW 19      | 0.00120           | 0.00280           | <0.00100               | <0.00100         |
| 245887 - MW 21      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 245888 - MW 22      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 245889 - MW 23      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 245890 - MW 26      | 0.00210           | 0.00150           | <0.00100               | <0.00100         |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

**WBENC:** 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657  
**NCTRCA** WFWB38444Y0909

## NELAP Certifications

**Lubbock:** T104704219-08-TX **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX  
LELAP-02003  
Kansas E-10317

## Analytical and Quality Control Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX, 79706

Report Date: October 1, 2010

Work Order: 10092709



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 245884 | MW 17       | water  | 2010-09-24 | 12:50      | 2010-09-24    |
| 245885 | MW 18       | water  | 2010-09-24 | 12:55      | 2010-09-24    |
| 245886 | MW 19       | water  | 2010-09-24 | 13:45      | 2010-09-24    |
| 245887 | MW 21       | water  | 2010-09-24 | 13:30      | 2010-09-24    |
| 245888 | MW 22       | water  | 2010-09-24 | 13:00      | 2010-09-24    |
| 245889 | MW 23       | water  | 2010-09-24 | 13:23      | 2010-09-24    |
| 245890 | MW 26       | water  | 2010-09-24 | 12:20      | 2010-09-24    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2010-09-24 and assigned to work order 10092709. Samples for work order 10092709 were received intact without headspace and at a temperature of 3.4 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|------|---------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 63498         | 2010-09-30 at 08:00 | 74006       | 2010-09-30 at 08:52 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10092709 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: October 1, 2010  
700376.044.01

Work Order: 10092709  
Moore to Jal #1

Page Number: 4 of 9  
Lovington, NM

## Analytical Report

### Sample: 245884 - MW 17

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74006  
Prep Batch: 63498

Analytical Method: S 8021B  
Date Analyzed: 2010-09-30  
Sample Preparation: 2010-09-30

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00120      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0896 | mg/L  | 1        | 0.100           | 90                  | 66.2 - 107         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0852 | mg/L  | 1        | 0.100           | 85                  | 39 - 138           |

### Sample: 245885 - MW 18

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74006  
Prep Batch: 63498

Analytical Method: S 8021B  
Date Analyzed: 2010-09-30  
Sample Preparation: 2010-09-30

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0877 | mg/L  | 1        | 0.100           | 88                  | 66.2 - 107         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0848 | mg/L  | 1        | 0.100           | 85                  | 39 - 138           |

### Sample: 245886 - MW 19

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74006  
Prep Batch: 63498

Analytical Method: S 8021B  
Date Analyzed: 2010-09-30  
Sample Preparation: 2010-09-30

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

Report Date: October 1, 2010  
700376.044.01

Work Order: 10092709  
Moore to Jal #1

Page Number: 5 of 9  
Lovington, NM

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.00120      | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00280      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0912 | mg/L  | 1        | 0.100           | 91                  | 66.2 - 107         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0878 | mg/L  | 1        | 0.100           | 88                  | 39 - 138           |

**Sample: 245887 - MW 21**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74006  
Prep Batch: 63498

Analytical Method: S 8021B  
Date Analyzed: 2010-09-30  
Sample Preparation: 2010-09-30

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0903 | mg/L  | 1        | 0.100           | 90                  | 66.2 - 107         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0861 | mg/L  | 1        | 0.100           | 86                  | 39 - 138           |

**Sample: 245888 - MW 22**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74006  
Prep Batch: 63498

Analytical Method: S 8021B  
Date Analyzed: 2010-09-30  
Sample Preparation: 2010-09-30

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

Report Date: October 1, 2010  
700376.044.01

Work Order: 10092709  
Moore to Jal #1

Page Number: 6 of 9  
Lovington, NM

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0828 | mg/L  | 1        | 0.100        | 83               | 66.2 - 107      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0811 | mg/L  | 1        | 0.100        | 81               | 39 - 138        |

**Sample: 245889 - MW 23**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74006  
Prep Batch: 63498

Analytical Method: S 8021B  
Date Analyzed: 2010-09-30  
Sample Preparation: 2010-09-30

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0904 | mg/L  | 1        | 0.100        | 90               | 66.2 - 107      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0862 | mg/L  | 1        | 0.100        | 86               | 39 - 138        |

**Sample: 245890 - MW 26**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74006  
Prep Batch: 63498

Analytical Method: S 8021B  
Date Analyzed: 2010-09-30  
Sample Preparation: 2010-09-30

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.00210      | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00150      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0909 | mg/L  | 1        | 0.100        | 91               | 66.2 - 107      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0878 | mg/L  | 1        | 0.100        | 88               | 39 - 138        |

Report Date: October 1, 2010  
700376.044.01

Work Order: 10092709  
Moore to Jal #1

Page Number: 7 of 9  
Lovington, NM

**Method Blank (1)**      QC Batch: 74006

QC Batch: 74006  
Prep Batch: 63498

Date Analyzed: 2010-09-30  
QC Preparation: 2010-09-30

Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000400     | mg/L  | 0.001 |
| Toluene      |      | <0.000800     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000400     | mg/L  | 0.001 |
| Xylene       |      | <0.000400     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0899 | mg/L  | 1        | 0.100           | 90                  | 61.8 - 106         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0866 | mg/L  | 1        | 0.100           | 87                  | 48.5 - 129         |

**Laboratory Control Spike (LCS-1)**

QC Batch: 74006  
Prep Batch: 63498

Date Analyzed: 2010-09-30  
QC Preparation: 2010-09-30

Analyzed By: AG  
Prepared By: AG

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0860        | mg/L  | 1    | 0.100           | <0.000400        | 86   | 80.7 - 117    |
| Toluene      | 0.0910        | mg/L  | 1    | 0.100           | <0.000800        | 91   | 80.5 - 117    |
| Ethylbenzene | 0.0923        | mg/L  | 1    | 0.100           | <0.000400        | 92   | 79.2 - 117    |
| Xylene       | 0.273         | mg/L  | 1    | 0.300           | <0.000400        | 91   | 74.1 - 120    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.0835         | mg/L  | 1    | 0.100           | <0.000400        | 84   | 80.7 - 117    | 3   | 20           |
| Toluene      | 0.0888         | mg/L  | 1    | 0.100           | <0.000800        | 89   | 80.5 - 117    | 2   | 20           |
| Ethylbenzene | 0.0905         | mg/L  | 1    | 0.100           | <0.000400        | 90   | 79.2 - 117    | 2   | 20           |
| Xylene       | 0.270          | mg/L  | 1    | 0.300           | <0.000400        | 90   | 74.1 - 120    | 1   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       | 0.0891        | 0.0912         | mg/L  | 1    | 0.100           | 89          | 91           | 72.5 - 126    |
| 4-Bromofluorobenzene (4-BFB) | 0.0855        | 0.0891         | mg/L  | 1    | 0.100           | 86          | 89           | 48.3 - 135    |



Report Date: October 1, 2010  
700376.044.01

Work Order: 10092709  
Moore to Jal #1

Page Number: 8 of 9  
Lovington, NM

**Matrix Spike (MS-1)** Spiked Sample: 245902

QC Batch: 74006  
Prep Batch: 63498

Date Analyzed: 2010-09-30  
QC Preparation: 2010-09-30

Analyzed By: AG  
Prepared By: AG

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.147        | mg/L  | 1    | 0.100           | 0.074            | 73   | 60.9 - 132    |
| Toluene      | 0.105        | mg/L  | 1    | 0.100           | 0.0168           | 88   | 65.7 - 129    |
| Ethylbenzene | 0.0973       | mg/L  | 1    | 0.100           | <0.000400        | 97   | 51.5 - 134    |
| Xylene       | 0.296        | mg/L  | 1    | 0.300           | 0.0153           | 94   | 62.6 - 124    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.155         | mg/L  | 1    | 0.100           | 0.074            | 81   | 60.9 - 132    | 5   | 20           |
| Toluene      | 0.108         | mg/L  | 1    | 0.100           | 0.0168           | 91   | 65.7 - 129    | 3   | 20           |
| Ethylbenzene | 0.0962        | mg/L  | 1    | 0.100           | <0.000400        | 96   | 51.5 - 134    | 1   | 20           |
| Xylene       | 0.296         | mg/L  | 1    | 0.300           | 0.0153           | 94   | 62.6 - 124    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.0871       | 0.0897        | mg/L  | 1    | 0.1             | 87         | 90          | 75.1 - 117    |
| 4-Bromofluorobenzene (4-BFB) | 0.0866       | 0.0900        | mg/L  | 1    | 0.1             | 87         | 90          | 31.3 - 143    |

**Standard (CCV-1)**

QC Batch: 74006

Date Analyzed: 2010-09-30

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0863                 | 86                          | 80 - 120                      | 2010-09-30       |
| Toluene      |      | mg/L  | 0.100                 | 0.0899                 | 90                          | 80 - 120                      | 2010-09-30       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0899                 | 90                          | 80 - 120                      | 2010-09-30       |
| Xylene       |      | mg/L  | 0.300                 | 0.269                  | 90                          | 80 - 120                      | 2010-09-30       |

**Standard (CCV-2)**

QC Batch: 74006

Date Analyzed: 2010-09-30

Analyzed By: AG

Report Date: October 1, 2010  
700376.044.01

Work Order: 10092709  
Moore to Jal #1

Page Number: 9 of 9  
Lovington, NM

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0819                 | 82                          | 80 - 120                      | 2010-09-30       |
| Toluene      |      | mg/L  | 0.100                 | 0.0855                 | 86                          | 80 - 120                      | 2010-09-30       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0845                 | 84                          | 80 - 120                      | 2010-09-30       |
| Xylene       |      | mg/L  | 0.300                 | 0.252                  | 84                          | 80 - 120                      | 2010-09-30       |

**Standard (CCV-3)**

QC Batch: 74006

Date Analyzed: 2010-09-30

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0808                 | 81                          | 80 - 120                      | 2010-09-30       |
| Toluene      |      | mg/L  | 0.100                 | 0.0878                 | 88                          | 80 - 120                      | 2010-09-30       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0902                 | 90                          | 80 - 120                      | 2010-09-30       |
| Xylene       |      | mg/L  | 0.300                 | 0.268                  | 89                          | 80 - 120                      | 2010-09-30       |

# TraceAnalysis, Inc.

**email: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)**

**6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296**

**5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313**

**200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443**

**BioAquatic Testing**  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

|                                     |                                           |                    |                            |
|-------------------------------------|-------------------------------------------|--------------------|----------------------------|
| Company Name:                       | Tabm LPE                                  | Phone #:           | 432-522-2133               |
| Address:                            | (Street, City, Zip)<br>2901 State Hwy 349 | Fax #:             |                            |
| Contact Person:                     | Steve Killingsworth                       | E-mail:            | SKillingsworth@TabmLPE.com |
| Invoice to:                         |                                           |                    |                            |
| (If different from above)           | Plains 2002-10270                         |                    |                            |
| Project #:                          | 700376, 044.01                            | Project Name:      | Moore to Tel No. 1         |
| Project Location (including state): | Hobbs, NM                                 | Sampler Signature: | <i>[Signature]</i>         |

[illegible]

| Relinquished by:   | Company:  | Date:   | Time: | Received by:       | Company:  | Date:   | Time: | INST                       |
|--------------------|-----------|---------|-------|--------------------|-----------|---------|-------|----------------------------|
| Bradley            | Talon LPE | 9-24-10 | 1615  | <i>[Signature]</i> | Talon LPE | 9/24/10 | 1615  | OBS _____<br>COR _____     |
| <i>[Signature]</i> | Talon LPE | 9/24/10 | 1652  | <i>[Signature]</i> | Trace     | 9/24/10 | 16:52 | OBS 3,4 _____<br>COR _____ |
| <i>[Signature]</i> | Talon LPE | 9/24/10 | 1652  | <i>[Signature]</i> | Trace     | 9/24/10 | 16:52 | OBS _____<br>COR _____     |

**LAB USE ONLY**

Contact (Y) / N

Headspace Y (N) NA

Log-In-Review

**Dry Weight Basis Required**  
**TRRP Report Required**  
**Check If Special Reporting**  
**Limits Are Needed**

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Carrier #

## Summary Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX 79706

Report Date: October 6, 2010

Work Order: 10092906



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 246110 | MW 14       | water  | 2010-09-27 | 12:54      | 2010-09-29    |
| 246111 | MW 16       | water  | 2010-09-27 | 14:43      | 2010-09-29    |
| 246112 | MW 20       | water  | 2010-09-27 | 11:17      | 2010-09-29    |
| 246113 | MW 27       | water  | 2010-09-27 | 12:08      | 2010-09-29    |
| 246114 | MW 28       | water  | 2010-09-27 | 13:15      | 2010-09-29    |
| 246115 | MW 29       | water  | 2010-09-27 | 14:17      | 2010-09-29    |
| 246116 | MW 34       | water  | 2010-09-28 | 09:19      | 2010-09-29    |
| 246117 | MW 35       | water  | 2010-09-28 | 09:36      | 2010-09-29    |
| 246118 | MW 36       | water  | 2010-09-28 | 10:12      | 2010-09-29    |

| Sample - Field Code | BTEX              |                   |                        |                  |
|---------------------|-------------------|-------------------|------------------------|------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene<br>(mg/L) |
| 246110 - MW 14      | 3.06              | 1.34              | <0.100                 | 0.183            |
| 246111 - MW 16      | 29.7              | 4.29              | 0.996                  | 1.90             |
| 246112 - MW 20      | <0.00100          | 0.00160           | <0.00100               | <0.00100         |
| 246113 - MW 27      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 246114 - MW 28      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 246115 - MW 29      | 11.8              | 1.96              | 0.518                  | 0.812            |
| 246116 - MW 34      | 0.00600           | 0.00130           | <0.00100               | <0.00100         |
| 246117 - MW 35      | 0.00190           | <0.00100          | <0.00100               | <0.00100         |
| 246118 - MW 36      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX, 79706

Report Date: October 6, 2010

Work Order: 10092906



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 246110 | MW 14       | water  | 2010-09-27 | 12:54      | 2010-09-29    |
| 246111 | MW 16       | water  | 2010-09-27 | 14:43      | 2010-09-29    |
| 246112 | MW 20       | water  | 2010-09-27 | 11:17      | 2010-09-29    |
| 246113 | MW 27       | water  | 2010-09-27 | 12:08      | 2010-09-29    |
| 246114 | MW 28       | water  | 2010-09-27 | 13:15      | 2010-09-29    |
| 246115 | MW 29       | water  | 2010-09-27 | 14:17      | 2010-09-29    |
| 246116 | MW 34       | water  | 2010-09-28 | 09:19      | 2010-09-29    |
| 246117 | MW 35       | water  | 2010-09-28 | 09:36      | 2010-09-29    |
| 246118 | MW 36       | water  | 2010-09-28 | 10:12      | 2010-09-29    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2010-09-29 and assigned to work order 10092906. Samples for work order 10092906 were received intact without headspace and at a temperature of 2.2 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|------|---------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 63569         | 2010-10-05 at 10:39 | 74116       | 2010-10-05 at 10:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10092906 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: October 6, 2010  
700376.044.01

Work Order: 10092906  
Moore to Jal #1

Page Number: 4 of 10  
Lovington, NM

## Analytical Report

### Sample: 246110 - MW 14

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74116  
Prep Batch: 63569

Analytical Method: S 8021B  
Date Analyzed: 2010-10-05  
Sample Preparation: 2010-10-05

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 3.06         | mg/L  | 100      | 0.00100 |
| Toluene      |      | 1.34         | mg/L  | 100      | 0.00100 |
| Ethylbenzene |      | <0.100       | mg/L  | 100      | 0.00100 |
| Xylene       |      | 0.183        | mg/L  | 100      | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 8.28   | mg/L  | 100      | 10.0            | 83                  | 66.2 - 107         |
| 4-Bromofluorobenzene (4-BFB) |      | 7.77   | mg/L  | 100      | 10.0            | 78                  | 39 - 138           |

### Sample: 246111 - MW 16

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74116  
Prep Batch: 63569

Analytical Method: S 8021B  
Date Analyzed: 2010-10-05  
Sample Preparation: 2010-10-05

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 29.7         | mg/L  | 100      | 0.00100 |
| Toluene      |      | 4.29         | mg/L  | 100      | 0.00100 |
| Ethylbenzene |      | 0.996        | mg/L  | 100      | 0.00100 |
| Xylene       |      | 1.90         | mg/L  | 100      | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 9.02   | mg/L  | 100      | 10.0            | 90                  | 66.2 - 107         |
| 4-Bromofluorobenzene (4-BFB) |      | 8.00   | mg/L  | 100      | 10.0            | 80                  | 39 - 138           |

### Sample: 246112 - MW 20

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74116  
Prep Batch: 63569

Analytical Method: S 8021B  
Date Analyzed: 2010-10-05  
Sample Preparation: 2010-10-05

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG



Report Date: October 6, 2010  
700376.044.01

Work Order: 10092906  
Moore to Jal #1

Page Number: 5 of 10  
Lovington, NM

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00160      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0880 | mg/L  | 1        | 0.100           | 88                  | 66.2 - 107         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0821 | mg/L  | 1        | 0.100           | 82                  | 39 - 138           |

**Sample: 246113 - MW 27**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74116  
Prep Batch: 63569

Analytical Method: S 8021B  
Date Analyzed: 2010-10-05  
Sample Preparation: 2010-10-05

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0890 | mg/L  | 1        | 0.100           | 89                  | 66.2 - 107         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0843 | mg/L  | 1        | 0.100           | 84                  | 39 - 138           |

**Sample: 246114 - MW 28**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74116  
Prep Batch: 63569

Analytical Method: S 8021B  
Date Analyzed: 2010-10-05  
Sample Preparation: 2010-10-05

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

Report Date: October 6, 2010  
700376.044.01

Work Order: 10092906  
Moore to Jal #1

Page Number: 6 of 10  
Lovington, NM

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0894 | mg/L  | 1        | 0.100        | 89               | 66.2 - 107      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0829 | mg/L  | 1        | 0.100        | 83               | 39 - 138        |

**Sample: 246115 - MW 29**

Laboratory: Midland

Analysis: BTEX

QC Batch: 74116

Prep Batch: 63569

Analytical Method: S 8021B

Date Analyzed: 2010-10-05

Sample Preparation: 2010-10-05

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

| Parameter    | Flag | RL Result | Units | Dilution | RL      |
|--------------|------|-----------|-------|----------|---------|
| Benzene      |      | 11.8      | mg/L  | 50       | 0.00100 |
| Toluene      |      | 1.96      | mg/L  | 50       | 0.00100 |
| Ethylbenzene |      | 0.518     | mg/L  | 50       | 0.00100 |
| Xylene       |      | 0.812     | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 4.16   | mg/L  | 50       | 5.00         | 83               | 66.2 - 107      |
| 4-Bromofluorobenzene (4-BFB) |      | 3.97   | mg/L  | 50       | 5.00         | 79               | 39 - 138        |

**Sample: 246116 - MW 34**

Laboratory: Midland

Analysis: BTEX

QC Batch: 74116

Prep Batch: 63569

Analytical Method: S 8021B

Date Analyzed: 2010-10-05

Sample Preparation: 2010-10-05

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

| Parameter    | Flag | RL Result | Units | Dilution | RL      |
|--------------|------|-----------|-------|----------|---------|
| Benzene      |      | 0.00600   | mg/L  | 1        | 0.00100 |
| Toluene      |      | 0.00130   | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100  | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100  | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0901 | mg/L  | 1        | 0.100        | 90               | 66.2 - 107      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0815 | mg/L  | 1        | 0.100        | 82               | 39 - 138        |

Report Date: October 6, 2010  
700376.044.01

Work Order: 10092906  
Moore to Jal #1

Page Number: 7 of 10  
Lovington, NM

**Sample: 246117 - MW 35**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74116  
Prep Batch: 63569

Analytical Method: S 8021B  
Date Analyzed: 2010-10-05  
Sample Preparation: 2010-10-05

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL       |  | Units | Dilution | RL      |
|--------------|------|----------|--|-------|----------|---------|
|              |      | Result   |  |       |          |         |
| Benzene      |      | 0.00190  |  | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100 |  | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100 |  | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100 |  | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0852 | mg/L  | 1        | 0.100        | 85               | 66.2 - 107      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0804 | mg/L  | 1        | 0.100        | 80               | 39 - 138        |

**Sample: 246118 - MW 36**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 74116  
Prep Batch: 63569

Analytical Method: S 8021B  
Date Analyzed: 2010-10-05  
Sample Preparation: 2010-10-05

Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

| Parameter    | Flag | RL       |  | Units | Dilution | RL      |
|--------------|------|----------|--|-------|----------|---------|
|              |      | Result   |  |       |          |         |
| Benzene      |      | <0.00100 |  | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100 |  | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100 |  | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100 |  | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0888 | mg/L  | 1        | 0.100        | 89               | 66.2 - 107      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0806 | mg/L  | 1        | 0.100        | 81               | 39 - 138        |

**Method Blank (1)**      QC Batch: 74116

QC Batch: 74116  
Prep Batch: 63569

Date Analyzed: 2010-10-05  
QC Preparation: 2010-10-05

Analyzed By: AG  
Prepared By: AG

Report Date: October 6, 2010  
700376.044.01

Work Order: 10092906  
Moore to Jal #1

Page Number: 8 of 10  
Lovington, NM

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000400     | mg/L  | 0.001 |
| Toluene      |      | <0.000800     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000400     | mg/L  | 0.001 |
| Xylene       |      | <0.000400     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0868 | mg/L  | 1        | 0.100           | 87                  | 61.8 - 106         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0787 | mg/L  | 1        | 0.100           | 79                  | 48.5 - 129         |

#### Laboratory Control Spike (LCS-1)

QC Batch: 74116  
Prep Batch: 63569

Date Analyzed: 2010-10-05  
QC Preparation: 2010-10-05

Analyzed By: AG  
Prepared By: AG

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0948        | mg/L  | 1    | 0.100           | <0.000400        | 95   | 80.7 - 117    |
| Toluene      | 0.0955        | mg/L  | 1    | 0.100           | <0.000800        | 96   | 80.5 - 117    |
| Ethylbenzene | 0.0946        | mg/L  | 1    | 0.100           | <0.000400        | 95   | 79.2 - 117    |
| Xylene       | 0.280         | mg/L  | 1    | 0.300           | <0.000400        | 93   | 74.1 - 120    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.0933         | mg/L  | 1    | 0.100           | <0.000400        | 93   | 80.7 - 117    | 2   | 20           |
| Toluene      | 0.0942         | mg/L  | 1    | 0.100           | <0.000800        | 94   | 80.5 - 117    | 1   | 20           |
| Ethylbenzene | 0.0947         | mg/L  | 1    | 0.100           | <0.000400        | 95   | 79.2 - 117    | 0   | 20           |
| Xylene       | 0.280          | mg/L  | 1    | 0.300           | <0.000400        | 93   | 74.1 - 120    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       | 0.0910        | 0.0905         | mg/L  | 1    | 0.100           | 91          | 90           | 72.5 - 126    |
| 4-Bromofluorobenzene (4-BFB) | 0.0822        | 0.0840         | mg/L  | 1    | 0.100           | 82          | 84           | 48.3 - 135    |

#### Matrix Spike (MS-1) Spiked Sample: 246115

QC Batch: 74116  
Prep Batch: 63569

Date Analyzed: 2010-10-05  
QC Preparation: 2010-10-05

Analyzed By: AG  
Prepared By: AG

Report Date: October 6, 2010  
700376.044.01

Work Order: 10092906  
Moore to Jal #1

Page Number: 9 of 10  
Lovington, NM

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 16.4         | mg/L  | 50   | 5.00            | 11.8446          | 91   | 60.9 - 132    |
| Toluene      | 6.52         | mg/L  | 50   | 5.00            | 1.9591           | 91   | 65.7 - 129    |
| Ethylbenzene | 4.97         | mg/L  | 50   | 5.00            | 0.5182           | 89   | 51.5 - 134    |
| Xylene       | 14.2         | mg/L  | 50   | 15.0            | 0.8119           | 89   | 62.6 - 124    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 16.5          | mg/L  | 50   | 5.00            | 11.8446          | 93   | 60.9 - 132    | 1   | 20           |
| Toluene      | 6.60          | mg/L  | 50   | 5.00            | 1.9591           | 93   | 65.7 - 129    | 1   | 20           |
| Ethylbenzene | 5.09          | mg/L  | 50   | 5.00            | 0.5182           | 91   | 51.5 - 134    | 2   | 20           |
| Xylene       | 14.4          | mg/L  | 50   | 15.0            | 0.8119           | 90   | 62.6 - 124    | 1   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 4.06         | 4.47          | mg/L  | 50   | 5               | 81         | 89          | 75.1 - 117    |
| 4-Bromofluorobenzene (4-BFB) | 3.96         | 4.13          | mg/L  | 50   | 5               | 79         | 83          | 31.3 - 143    |

#### Standard (CCV-1)

QC Batch: 74116

Date Analyzed: 2010-10-05

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0910                 | 91                          | 80 - 120                      | 2010-10-05       |
| Toluene      |      | mg/L  | 0.100                 | 0.0887                 | 89                          | 80 - 120                      | 2010-10-05       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0887                 | 89                          | 80 - 120                      | 2010-10-05       |
| Xylene       |      | mg/L  | 0.300                 | 0.263                  | 88                          | 80 - 120                      | 2010-10-05       |

#### Standard (CCV-2)

QC Batch: 74116

Date Analyzed: 2010-10-05

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0909                 | 91                          | 80 - 120                      | 2010-10-05       |
| Toluene      |      | mg/L  | 0.100                 | 0.0916                 | 92                          | 80 - 120                      | 2010-10-05       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0901                 | 90                          | 80 - 120                      | 2010-10-05       |
| Xylene       |      | mg/L  | 0.300                 | 0.267                  | 89                          | 80 - 120                      | 2010-10-05       |

Report Date: October 6, 2010  
700376.044.01

Work Order: 10092906  
Moore to Jal #1

Page Number: 10 of 10  
Lovington, NM

**Standard (CCV-3)**

QC Batch: 74116

Date Analyzed: 2010-10-05

Analyzed By: AG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0863                 | 86                          | 80 - 120                      | 2010-10-05       |
| Toluene      |      | mg/L  | 0.100                 | 0.0873                 | 87                          | 80 - 120                      | 2010-10-05       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0866                 | 87                          | 80 - 120                      | 2010-10-05       |
| Xylene       |      | mg/L  | 0.300                 | 0.256                  | 85                          | 80 - 120                      | 2010-10-05       |

# TraceAnalysis, Inc.

email: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

**5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313**

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

**BioAquatic Testing**  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

**ANALYSIS REQUEST**  
**(Circle or Specify Method No.)**

|                                     |                     |                    |                 |
|-------------------------------------|---------------------|--------------------|-----------------|
| Company Name:                       | Talon LPE           | Phone #:           |                 |
| Address:                            | (Street, City, Zip) | Fax #:             |                 |
| Contact Person:                     | Steve Killingsworth | E-mail:            |                 |
| Invoice to:                         | Planes 2002-10273   |                    |                 |
| Project #:                          | 700376.044.01       | Project Name:      | Moore to Jal #1 |
| Project Location (including state): | Hobbs, NM           | Sampler Signature: | [Signature]     |

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     |      | SAMPLING |      |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|----------|------|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME |
| 894610                  | MW 14      | 3            |                 | X      |      |     |        | X                   |                  |                                |      | X   |      | 9/27/10  | 1254 |
| 111                     | MW 16      |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          | 1443 |
| 112                     | MW 20      |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          | 1117 |
| 113                     | MW 27      |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          | 1208 |
| 114                     | MW 28      |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          | 1315 |
| 115                     | MW 29      |              |                 |        |      |     |        |                     |                  |                                |      |     |      | ↓        | 1417 |
| 116                     | MW 34      |              |                 |        |      |     |        |                     |                  |                                |      |     |      | 9/29/10  | 0919 |
| 117                     | MW 35      |              |                 |        |      |     |        |                     |                  |                                |      |     |      | 9/29/10  | 0936 |
| 118                     | MW 36      | ↓            |                 | ↓      |      |     |        | ↓                   |                  |                                |      | ↓   |      | 9/29/10  | 1012 |

| Relinquished by: | Company:  | Date:   | Time: | Received by: | Company:  | Date:   | Time: | INST       |
|------------------|-----------|---------|-------|--------------|-----------|---------|-------|------------|
| Bob Fry          | Talon LPF | 9/29/10 | 9:00  | [Signature]  | Talon LPF | 9/29/10 | 9:05  | OBS<br>COR |
| Bob Fry          | Talon     | 9/29/10 | 10:00 | [Signature]  | Talon     | 9/29/10 |       | OBS<br>COR |

|     |  |  |
|-----|--|--|
| 2.2 |  |  |
|-----|--|--|

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

## Summary Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX 79706

Report Date: January 5, 2011

Work Order: 10123104



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 254521 | MW 17       | water  | 2010-12-29 | 10:30      | 2010-12-30    |
| 254522 | MW 18       | water  | 2010-12-29 | 11:50      | 2010-12-30    |
| 254523 | MW 19       | water  | 2010-12-29 | 12:20      | 2010-12-30    |
| 254524 | MW 20       | water  | 2010-12-29 | 12:40      | 2010-12-30    |
| 254525 | MW 22       | water  | 2010-12-29 | 10:25      | 2010-12-30    |
| 254526 | MW 23       | water  | 2010-12-29 | 10:45      | 2010-12-30    |
| 254527 | MW 26       | water  | 2010-12-29 | 12:05      | 2010-12-30    |
| 254528 | MW 27       | water  | 2010-12-29 | 12:20      | 2010-12-30    |
| 254529 | MW 34       | water  | 2010-12-29 | 12:50      | 2010-12-30    |

### Sample: 254521 - MW 17

| Param        | Flag | Result   | Units | RL      |
|--------------|------|----------|-------|---------|
| Benzene      |      | 0.00640  | mg/L  | 0.00100 |
| Toluene      |      | <0.00100 | mg/L  | 0.00100 |
| Ethylbenzene |      | 0.00320  | mg/L  | 0.00100 |
| Xylene       |      | 0.00810  | mg/L  | 0.00100 |
| Total BTEX   |      | 0.0177   | mg/L  | 0.00600 |

### Sample: 254522 - MW 18

| Param        | Flag | Result   | Units | RL      |
|--------------|------|----------|-------|---------|
| Benzene      |      | 0.00490  | mg/L  | 0.00100 |
| Toluene      |      | <0.00100 | mg/L  | 0.00100 |
| Ethylbenzene |      | 0.00300  | mg/L  | 0.00100 |

*continued ...*



*sample 254522 continued ...*

| Param      | Flag | Result   | Units | RL      |
|------------|------|----------|-------|---------|
| Xylene     |      | <0.00100 | mg/L  | 0.00100 |
| Total BTEX |      | 0.00790  | mg/L  | 0.00600 |

**Sample: 254523 - MW 19**

| Param        | Flag | Result   | Units | RL      |
|--------------|------|----------|-------|---------|
| Benzene      |      | <0.00100 | mg/L  | 0.00100 |
| Toluene      |      | <0.00100 | mg/L  | 0.00100 |
| Ethylbenzene |      | <0.00100 | mg/L  | 0.00100 |
| Xylene       |      | <0.00100 | mg/L  | 0.00100 |
| Total BTEX   |      | <0.00600 | mg/L  | 0.00600 |

**Sample: 254524 - MW 20**

| Param        | Flag | Result   | Units | RL      |
|--------------|------|----------|-------|---------|
| Benzene      |      | 0.00360  | mg/L  | 0.00100 |
| Toluene      |      | <0.00100 | mg/L  | 0.00100 |
| Ethylbenzene |      | <0.00100 | mg/L  | 0.00100 |
| Xylene       |      | <0.00100 | mg/L  | 0.00100 |
| Total BTEX   |      | <0.00600 | mg/L  | 0.00600 |

**Sample: 254525 - MW 22**

| Param        | Flag | Result   | Units | RL      |
|--------------|------|----------|-------|---------|
| Benzene      |      | <0.00100 | mg/L  | 0.00100 |
| Toluene      |      | <0.00100 | mg/L  | 0.00100 |
| Ethylbenzene |      | <0.00100 | mg/L  | 0.00100 |
| Xylene       |      | <0.00100 | mg/L  | 0.00100 |
| Total BTEX   |      | <0.00600 | mg/L  | 0.00600 |

**Sample: 254526 - MW 23**

| Param        | Flag | Result   | Units | RL      |
|--------------|------|----------|-------|---------|
| Benzene      |      | <0.00100 | mg/L  | 0.00100 |
| Toluene      |      | <0.00100 | mg/L  | 0.00100 |
| Ethylbenzene |      | <0.00100 | mg/L  | 0.00100 |
| Xylene       |      | <0.00100 | mg/L  | 0.00100 |
| Total BTEX   |      | <0.00600 | mg/L  | 0.00600 |

**Sample: 254527 - MW 26**

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

*This is only a summary. Please, refer to the complete report package for quality control data.*

| Param        | Flag | Result   | Units | RL      |
|--------------|------|----------|-------|---------|
| Benzene      |      | <0.00100 | mg/L  | 0.00100 |
| Toluene      |      | <0.00100 | mg/L  | 0.00100 |
| Ethylbenzene |      | <0.00100 | mg/L  | 0.00100 |
| Xylene       |      | <0.00100 | mg/L  | 0.00100 |
| Total BTEX   |      | <0.00600 | mg/L  | 0.00600 |

**Sample: 254528 - MW 27**

| Param        | Flag | Result   | Units | RL      |
|--------------|------|----------|-------|---------|
| Benzene      |      | <0.00100 | mg/L  | 0.00100 |
| Toluene      |      | <0.00100 | mg/L  | 0.00100 |
| Ethylbenzene |      | <0.00100 | mg/L  | 0.00100 |
| Xylene       |      | <0.00100 | mg/L  | 0.00100 |
| Total BTEX   |      | <0.00600 | mg/L  | 0.00600 |

**Sample: 254529 - MW 34**

| Param        | Flag | Result         | Units | RL      |
|--------------|------|----------------|-------|---------|
| Benzene      |      | <b>0.00790</b> | mg/L  | 0.00100 |
| Toluene      |      | <0.00100       | mg/L  | 0.00100 |
| Ethylbenzene |      | <0.00100       | mg/L  | 0.00100 |
| Xylene       |      | <0.00100       | mg/L  | 0.00100 |
| Total BTEX   |      | <b>0.00790</b> | mg/L  | 0.00600 |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

**WBENC:** 237019

**HUB:** 1752439743100-86536  
**NCTRCA** WFWB38444Y0909

**DBE:** VN 20657

## NELAP Certifications

**Lubbock:** T104704219-08-TX  
LELAP-02003  
Kansas E-10317

**El Paso:** T104704221-08-TX  
LELAP-02002

**Midland:** T104704392-08-TX

## Analytical and Quality Control Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX, 79706

Report Date: January 5, 2011

Work Order: 10123104



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 254521 | MW 17       | water  | 2010-12-29 | 10:30      | 2010-12-30    |
| 254522 | MW 18       | water  | 2010-12-29 | 11:50      | 2010-12-30    |
| 254523 | MW 19       | water  | 2010-12-29 | 12:20      | 2010-12-30    |
| 254524 | MW 20       | water  | 2010-12-29 | 12:40      | 2010-12-30    |
| 254525 | MW 22       | water  | 2010-12-29 | 10:25      | 2010-12-30    |
| 254526 | MW 23       | water  | 2010-12-29 | 10:45      | 2010-12-30    |
| 254527 | MW 26       | water  | 2010-12-29 | 12:05      | 2010-12-30    |
| 254528 | MW 27       | water  | 2010-12-29 | 12:20      | 2010-12-30    |
| 254529 | MW 34       | water  | 2010-12-29 | 12:50      | 2010-12-30    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2010-12-30 and assigned to work order 10123104. Samples for work order 10123104 were received intact without headspace and at a temperature of 2.8 C.

Samples were analyzed for the following tests using their respective methods.

| Test       | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|------------|---------|---------------|---------------------|-------------|---------------------|
| BTEX       | S 8021B | 65716         | 2010-12-31 at 10:42 | 76644       | 2010-12-31 at 10:42 |
| Total BTEX | S 8021B | 65716         | 2010-12-31 at 10:42 | 76644       | 2010-12-31 at 10:42 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10123104 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: January 5, 2011  
700376.044.01

Work Order: 10123104  
Moore to Jal #1

Page Number: 4 of 10  
Lovington, NM

## Analytical Report

Sample: 254521 - MW 17

Laboratory: Midland

Analysis: BTEX, Total BTEX

QC Batch: 76644

Prep Batch: 65716

Analytical Method: S 8021B

Date Analyzed: 2010-12-31

Sample Preparation: 2010-12-31

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.00640      | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 0.00320      | mg/L  | 1        | 0.00100 |
| Xylene       |      | 0.00810      | mg/L  | 1        | 0.00100 |
| Total BTEX   |      | 0.0177       | mg/L  | 1        | 0.00600 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0875 | mg/L  | 1        | 0.100           | 88                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.102  | mg/L  | 1        | 0.100           | 102                 | 51.1 - 128         |

Sample: 254522 - MW 18

Laboratory: Midland

Analysis: BTEX, Total BTEX

QC Batch: 76644

Prep Batch: 65716

Analytical Method: S 8021B

Date Analyzed: 2010-12-31

Sample Preparation: 2010-12-31

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.00490      | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 0.00300      | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Total BTEX   |      | 0.00790      | mg/L  | 1        | 0.00600 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0884 | mg/L  | 1        | 0.100           | 88                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.100  | mg/L  | 1        | 0.100           | 100                 | 51.1 - 128         |

Report Date: January 5, 2011  
700376.044.01

Work Order: 10123104  
Moore to Jal #1

Page Number: 5 of 10  
Lovington, NM

**Sample: 254523 - MW 19**

Laboratory: Midland  
Analysis: BTEX, Total BTEX  
QC Batch: 76644  
Prep Batch: 65716

Analytical Method: S 8021B  
Date Analyzed: 2010-12-31  
Sample Preparation: 2010-12-31

Prep Method: S 5030B  
Analyzed By: ME  
Prepared By: ME

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Total BTEX   |      | <0.00600     | mg/L  | 1        | 0.00600 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0916 | mg/L  | 1        | 0.100           | 92                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.103  | mg/L  | 1        | 0.100           | 103                 | 51.1 - 128         |

**Sample: 254524 - MW 20**

Laboratory: Midland  
Analysis: BTEX, Total BTEX  
QC Batch: 76644  
Prep Batch: 65716

Analytical Method: S 8021B  
Date Analyzed: 2010-12-31  
Sample Preparation: 2010-12-31

Prep Method: S 5030B  
Analyzed By: ME  
Prepared By: ME

| Parameter    | Flag | RL<br>Result   | Units | Dilution | RL      |
|--------------|------|----------------|-------|----------|---------|
| Benzene      |      | <b>0.00360</b> | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100       | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100       | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100       | mg/L  | 1        | 0.00100 |
| Total BTEX   |      | <0.00600       | mg/L  | 1        | 0.00600 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0911 | mg/L  | 1        | 0.100           | 91                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.103  | mg/L  | 1        | 0.100           | 103                 | 51.1 - 128         |

**Sample: 254525 - MW 22**

Laboratory: Midland  
Analysis: BTEX, Total BTEX  
QC Batch: 76644  
Prep Batch: 65716

Analytical Method: S 8021B  
Date Analyzed: 2010-12-31  
Sample Preparation: 2010-12-31

Prep Method: S 5030B  
Analyzed By: ME  
Prepared By: ME

Report Date: January 5, 2011  
700376.044.01

Work Order: 10123104  
Moore to Jal #1

Page Number: 6 of 10  
Lovington, NM

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Total BTEX   |      | <0.00600     | mg/L  | 1        | 0.00600 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0901 | mg/L  | 1        | 0.100           | 90                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.101  | mg/L  | 1        | 0.100           | 101                 | 51.1 - 128         |

**Sample: 254526 - MW 23**

Laboratory: Midland  
Analysis: BTEX, Total BTEX      Analytical Method: S 8021B      Prep Method: S 5030B  
QC Batch: 76644      Date Analyzed: 2010-12-31      Analyzed By: ME  
Prep Batch: 65716      Sample Preparation: 2010-12-31      Prepared By: ME

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Total BTEX   |      | <0.00600     | mg/L  | 1        | 0.00600 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0898 | mg/L  | 1        | 0.100           | 90                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.102  | mg/L  | 1        | 0.100           | 102                 | 51.1 - 128         |

**Sample: 254527 - MW 26**

Laboratory: Midland  
Analysis: BTEX, Total BTEX      Analytical Method: S 8021B      Prep Method: S 5030B  
QC Batch: 76644      Date Analyzed: 2010-12-31      Analyzed By: ME  
Prep Batch: 65716      Sample Preparation: 2010-12-31      Prepared By: ME

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |

*continued ...*



Report Date: January 5, 2011  
700376.044.01

Work Order: 10123104  
Moore to Jal #1

Page Number: 7 of 10  
Lovington, NM

sample 254527 continued ...

| Parameter  | Flag | RL<br>Result | Units | Dilution | RL      |
|------------|------|--------------|-------|----------|---------|
| Xylene     |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Total BTEX |      | <0.00600     | mg/L  | 1        | 0.00600 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0882 | mg/L  | 1        | 0.100           | 88                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.100  | mg/L  | 1        | 0.100           | 100                 | 51.1 - 128         |

**Sample: 254528 - MW 27**

Laboratory: Midland  
Analysis: BTEX, Total BTEX      Analytical Method: S 8021B      Prep Method: S 5030B  
QC Batch: 76644      Date Analyzed: 2010-12-31      Analyzed By: ME  
Prep Batch: 65716      Sample Preparation: 2010-12-31      Prepared By: ME

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Total BTEX   |      | <0.00600     | mg/L  | 1        | 0.00600 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0884 | mg/L  | 1        | 0.100           | 88                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.100  | mg/L  | 1        | 0.100           | 100                 | 51.1 - 128         |

**Sample: 254529 - MW 34**

Laboratory: Midland  
Analysis: BTEX, Total BTEX      Analytical Method: S 8021B      Prep Method: S 5030B  
QC Batch: 76644      Date Analyzed: 2010-12-31      Analyzed By: ME  
Prep Batch: 65716      Sample Preparation: 2010-12-31      Prepared By: ME

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 0.00790      | mg/L  | 1        | 0.00100 |
| Toluene      |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       |      | <0.00100     | mg/L  | 1        | 0.00100 |

continued ...

Report Date: January 5, 2011  
700376.044.01

Work Order: 10123104  
Moore to Jal #1

Page Number: 8 of 10  
Lovington, NM

sample 254529 continued ...

| Parameter  | Flag | RL<br>Result | Units | Dilution | RL      |
|------------|------|--------------|-------|----------|---------|
| Total BTEX |      | 0.00790      | mg/L  | 1        | 0.00600 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0881 | mg/L  | 1        | 0.100           | 88                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0988 | mg/L  | 1        | 0.100           | 99                  | 51.1 - 128         |

Method Blank (1) QC Batch: 76644

QC Batch: 76644  
Prep Batch: 65716

Date Analyzed: 2010-12-31  
QC Preparation: 2010-12-31

Analyzed By: ME  
Prepared By: ME

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000600     | mg/L  | 0.001 |
| Toluene      |      | <0.000600     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000800     | mg/L  | 0.001 |
| Xylene       |      | <0.000767     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0765 | mg/L  | 1        | 0.100           | 76                  | 70.2 - 118         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0953 | mg/L  | 1        | 0.100           | 95                  | 47.3 - 116         |

Laboratory Control Spike (LCS-1)

QC Batch: 76644  
Prep Batch: 65716

Date Analyzed: 2010-12-31  
QC Preparation: 2010-12-31

Analyzed By: ME  
Prepared By: ME

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0900        | mg/L  | 1    | 0.100           | <0.000600        | 90   | 82.9 - 118    |
| Toluene      | 0.0899        | mg/L  | 1    | 0.100           | <0.000600        | 90   | 82.7 - 117    |
| Ethylbenzene | 0.0890        | mg/L  | 1    | 0.100           | <0.000800        | 89   | 78.8 - 116    |
| Xylene       | 0.270         | mg/L  | 1    | 0.300           | <0.000767        | 90   | 79.3 - 116    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param   | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 0.0906         | mg/L  | 1    | 0.100           | <0.000600        | 91   | 82.9 - 118    | 1   | 20           |

continued ...

*control spikes continued ...*

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Toluene      | 0.0905         | mg/L  | 1    | 0.100           | <0.000600        | 90   | 82.7 - 117    | 1   | 20           |
| Ethylbenzene | 0.0901         | mg/L  | 1    | 0.100           | <0.000800        | 90   | 78.8 - 116    | 1   | 20           |
| Xylene       | 0.274          | mg/L  | 1    | 0.300           | <0.000767        | 91   | 79.3 - 116    | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       | 0.0793        | 0.0797         | mg/L  | 1    | 0.100           | 79          | 80           | 67.3 - 113    |
| 4-Bromofluorobenzene (4-BFB) | 0.0951        | 0.0987         | mg/L  | 1    | 0.100           | 95          | 99           | 68.2 - 134    |

**Matrix Spike (MS-1)** Spiked Sample: 254506

QC Batch: 76644  
Prep Batch: 65716

Date Analyzed: 2010-12-31  
QC Preparation: 2010-12-31

Analyzed By: ME  
Prepared By: ME

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.919        | mg/L  | 10   | 1.00            | <0.00600         | 92   | 77.9 - 114    |
| Toluene      | 0.914        | mg/L  | 10   | 1.00            | <0.00600         | 91   | 78.3 - 111    |
| Ethylbenzene | 0.898        | mg/L  | 10   | 1.00            | 0.0693           | 83   | 75.3 - 110    |
| Xylene       | 2.85         | mg/L  | 10   | 3.00            | 0.3699           | 83   | 75.7 - 109    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.911         | mg/L  | 10   | 1.00            | <0.00600         | 91   | 77.9 - 114    | 1   | 20           |
| Toluene      | 0.895         | mg/L  | 10   | 1.00            | <0.00600         | 90   | 78.3 - 111    | 2   | 20           |
| Ethylbenzene | 0.875         | mg/L  | 10   | 1.00            | 0.0693           | 80   | 75.3 - 110    | 3   | 20           |
| Xylene       | 2.81          | mg/L  | 10   | 3.00            | 0.3699           | 81   | 75.7 - 109    | 1   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.808        | 0.778         | mg/L  | 10   | 1               | 81         | 78          | 68.3 - 107    |
| 4-Bromofluorobenzene (4-BFB) | 1.06         | 1.04          | mg/L  | 10   | 1               | 106        | 104         | 60.1 - 135    |

**Standard (CCV-1)**

QC Batch: 76644

Date Analyzed: 2010-12-31

Analyzed By: ME

Report Date: January 5, 2011  
700376.044.01

Work Order: 10123104  
Moore to Jal #1

Page Number: 10 of 10  
Lovington, NM

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0904                 | 90                          | 80 - 120                      | 2010-12-31       |
| Toluene      |      | mg/L  | 0.100                 | 0.0886                 | 89                          | 80 - 120                      | 2010-12-31       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0866                 | 87                          | 80 - 120                      | 2010-12-31       |
| Xylene       |      | mg/L  | 0.300                 | 0.262                  | 87                          | 80 - 120                      | 2010-12-31       |

**Standard (CCV-2)**

QC Batch: 76644

Date Analyzed: 2010-12-31

Analyzed By: ME

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0895                 | 90                          | 80 - 120                      | 2010-12-31       |
| Toluene      |      | mg/L  | 0.100                 | 0.0895                 | 90                          | 80 - 120                      | 2010-12-31       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0861                 | 86                          | 80 - 120                      | 2010-12-31       |
| Xylene       |      | mg/L  | 0.300                 | 0.262                  | 87                          | 80 - 120                      | 2010-12-31       |



## Summary Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX 79706

Report Date: January 10, 2011

Work Order: 11010415



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 254648 | MW 16       | water  | 2011-01-03 | 14:00      | 2011-01-03    |

| Sample - Field Code | BTEX              |                   |                        |                  |
|---------------------|-------------------|-------------------|------------------------|------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene<br>(mg/L) |
| 254648 - MW 16      | 25.4              | 1.50              | 1.05                   | 2.24             |

### Sample: 254648 - MW 16

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | 0.0394    | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | 0.0228    | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | 0.0204    | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran           |      | 0.00128   | mg/L  | 0.000200 |
| Fluorene               |      | 0.00250   | mg/L  | 0.000200 |
| Anthracene             |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene           |      | 0.00156   | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |

continued ...

*sample 254648 continued ...*

| Param                | Flag | Result    | Units | RL       |
|----------------------|------|-----------|-------|----------|
| Benzo(g,h,i)perylene |      | <0.000184 | mg/L  | 0.000200 |

## Summary Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX 79706

Report Date: June 11, 2010

Work Order: 10060705



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 233833 | MW-21       | water  | 2010-06-03 | 10:30      | 2010-06-04    |
| 233834 | MW-22       | water  | 2010-06-03 | 09:30      | 2010-06-04    |
| 233835 | MW-23       | water  | 2010-06-03 | 08:35      | 2010-06-04    |

| Sample - Field Code | BTEX              |                   |                        |                  |
|---------------------|-------------------|-------------------|------------------------|------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene<br>(mg/L) |
| 233833 - MW-21      | 0.00210           | 0.00140           | <0.00100               | <0.00100         |
| 233834 - MW-22      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |
| 233835 - MW-23      | <0.00100          | <0.00100          | <0.00100               | <0.00100         |





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

**WBENC:** 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657  
**NCTRCA** WFWB38444Y0909

## NELAP Certifications

**Lubbock:** T104704219-08-TX **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX  
LELAP-02003 LELAP-02002  
Kansas E-10317

## Analytical and Quality Control Report

Steve Killingsworth  
Talon LPE-Midland  
2901 State Highway 349  
Midland, TX, 79706

Report Date: January 10, 2011

Work Order: 11010415



Project Location: Lovington, NM  
Project Name: Moore to Jal #1  
Project Number: 700376.044.01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 254648 | MW 16       | water  | 2011-01-03 | 14:00      | 2011-01-03    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Moore to Jal #1 were received by TraceAnalysis, Inc. on 2011-01-03 and assigned to work order 11010415. Samples for work order 11010415 were received intact without headspace and at a temperature of 4.0 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|------|---------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 65792         | 2011-01-06 at 08:19 | 76726       | 2011-01-06 at 08:19 |
| PAH  | S 8270D | 65805         | 2011-01-06 at 15:00 | 76746       | 2011-01-07 at 11:11 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11010415 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

## Analytical Report

Sample: 254648 - MW 16

Laboratory: Midland

Analysis: BTEX

QC Batch: 76726

Prep Batch: 65792

Analytical Method: S 8021B

Date Analyzed: 2011-01-06

Sample Preparation: 2011-01-06

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL      |
|--------------|------|--------------|-------|----------|---------|
| Benzene      |      | 25.4         | mg/L  | 100      | 0.00100 |
| Toluene      |      | 1.50         | mg/L  | 100      | 0.00100 |
| Ethylbenzene |      | 1.05         | mg/L  | 100      | 0.00100 |
| Xylene       |      | 2.24         | mg/L  | 100      | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 8.96   | mg/L  | 100      | 10.0            | 90                  | 67.8 - 126         |
| 4-Bromofluorobenzene (4-BFB) |      | 8.94   | mg/L  | 100      | 10.0            | 89                  | 51.1 - 128         |

Sample: 254648 - MW 16

Laboratory: Lubbock

Analysis: PAH

QC Batch: 76746

Prep Batch: 65805

Analytical Method: S 8270D

Date Analyzed: 2011-01-07

Sample Preparation: 2011-01-06

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

| Parameter            | Flag | RL<br>Result | Units | Dilution | RL       |
|----------------------|------|--------------|-------|----------|----------|
| Naphthalene          |      | 0.0394       | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene  |      | 0.0228       | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene  |      | 0.0204       | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene       |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran         |      | 0.00128      | mg/L  | 0.922    | 0.000200 |
| Fluorene             |      | 0.00250      | mg/L  | 0.922    | 0.000200 |
| Anthracene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene         |      | 0.00156      | mg/L  | 0.922    | 0.000200 |
| Fluoranthene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene       |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

continued ...

Report Date: January 10, 2011  
700376.044.01

Work Order: 11010415  
Moore to Jal #1

Page Number: 5 of 10  
Lovington, NM

sample 254648 continued ...

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0295 | mg/L  | 0.922    | 0.0800          | 37                  | 10 - 111           |
| 2-Fluorobiphenyl |      | 0.0318 | mg/L  | 0.922    | 0.0800          | 40                  | 10 - 92.7          |
| Terphenyl-d14    |      | 0.0472 | mg/L  | 0.922    | 0.0800          | 59                  | 35.9 - 107         |

Method Blank (1) QC Batch: 76726

QC Batch: 76726  
Prep Batch: 65792

Date Analyzed: 2011-01-06  
QC Preparation: 2011-01-06

Analyzed By: ME  
Prepared By: ME

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000600     | mg/L  | 0.001 |
| Toluene      |      | <0.000600     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000800     | mg/L  | 0.001 |
| Xylene       |      | <0.000767     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0804 | mg/L  | 1        | 0.100           | 80                  | 70.2 - 118         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0824 | mg/L  | 1        | 0.100           | 82                  | 47.3 - 116         |

Method Blank (1) QC Batch: 76746

QC Batch: 76746  
Prep Batch: 65805

Date Analyzed: 2011-01-07  
QC Preparation: 2011-01-06

Analyzed By: MN  
Prepared By: MN

| Parameter           | Flag | MDL<br>Result | Units | RL     |
|---------------------|------|---------------|-------|--------|
| Naphthalene         |      | <0.0000784    | mg/L  | 0.0002 |
| 2-Methylnaphthalene |      | <0.0000747    | mg/L  | 0.0002 |
| 1-Methylnaphthalene |      | <0.0000575    | mg/L  | 0.0002 |
| Acenaphthylene      |      | <0.0000963    | mg/L  | 0.0002 |
| Acenaphthene        |      | <0.0000617    | mg/L  | 0.0002 |
| Dibenzofuran        |      | <0.0000952    | mg/L  | 0.0002 |

continued ...

Report Date: January 10, 2011  
700376.044.01

Work Order: 11010415  
Moore to Jal #1

Page Number: 6 of 10  
Lovington, NM

method blank continued ...

| Parameter              | Flag | MDL<br>Result | Units | RL     |
|------------------------|------|---------------|-------|--------|
| Fluorene               |      | <0.000134     | mg/L  | 0.0002 |
| Anthracene             |      | <0.000441     | mg/L  | 0.0002 |
| Phenanthrene           |      | <0.000435     | mg/L  | 0.0002 |
| Fluoranthene           |      | <0.000476     | mg/L  | 0.0002 |
| Pyrene                 |      | <0.000590     | mg/L  | 0.0002 |
| Benzo(a)anthracene     |      | <0.000118     | mg/L  | 0.0002 |
| Chrysene               |      | <0.0000766    | mg/L  | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.000146     | mg/L  | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.000141     | mg/L  | 0.0002 |
| Benzo(a)pyrene         |      | <0.000132     | mg/L  | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0000702    | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0000534    | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0000473    | mg/L  | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0275 | mg/L  | 1        | 0.0800          | 34                  | 10 - 111           |
| 2-Fluorobiphenyl |      | 0.0236 | mg/L  | 1        | 0.0800          | 30                  | 10 - 92.7          |
| Terphenyl-d14    |      | 0.0389 | mg/L  | 1        | 0.0800          | 49                  | 35.9 - 107         |

#### Laboratory Control Spike (LCS-1)

QC Batch: 76726  
Prep Batch: 65792

Date Analyzed: 2011-01-06  
QC Preparation: 2011-01-06

Analyzed By: ME  
Prepared By: ME

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 0.0836        | mg/L  | 1    | 0.100           | <0.000600        | 84   | 82.9 - 118    |
| Toluene      | 0.0935        | mg/L  | 1    | 0.100           | <0.000600        | 94   | 82.7 - 117    |
| Ethylbenzene | 0.0961        | mg/L  | 1    | 0.100           | <0.000800        | 96   | 78.8 - 116    |
| Xylene       | 0.292         | mg/L  | 1    | 0.300           | <0.000767        | 97   | 79.3 - 116    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 0.0836         | mg/L  | 1    | 0.100           | <0.000600        | 84   | 82.9 - 118    | 0   | 20           |
| Toluene      | 0.0931         | mg/L  | 1    | 0.100           | <0.000600        | 93   | 82.7 - 117    | 0   | 20           |
| Ethylbenzene | 0.0961         | mg/L  | 1    | 0.100           | <0.000800        | 96   | 78.8 - 116    | 0   | 20           |
| Xylene       | 0.293          | mg/L  | 1    | 0.300           | <0.000767        | 98   | 79.3 - 116    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: January 10, 2011  
700376.044.01

Work Order: 11010415  
Moore to Jal #1

Page Number: 7 of 10  
Lovington, NM

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       | 0.0854        | 0.0923         | mg/L  | 1    | 0.100           | 85          | 92           | 67.3 - 113    |
| 4-Bromofluorobenzene (4-BFB) | 0.0899        | 0.0943         | mg/L  | 1    | 0.100           | 90          | 94           | 68.2 - 134    |

#### Laboratory Control Spike (LCS-1)

QC Batch: 76746  
Prep Batch: 65805

Date Analyzed: 2011-01-07  
QC Preparation: 2011-01-06

Analyzed By: MN  
Prepared By: MN

| Param                  | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Naphthalene            | 0.0387        | mg/L  | 1    | 0.0800          | <0.0000784       | 48   | 32.2 - 80.3   |
| 2-Methylnaphthalene    | 0.0356        | mg/L  | 1    | 0.0800          | <0.0000747       | 44   | 34.8 - 87     |
| 1-Methylnaphthalene    | 0.0369        | mg/L  | 1    | 0.0800          | <0.0000575       | 46   | 36.9 - 89.6   |
| Acenaphthylene         | 0.0511        | mg/L  | 1    | 0.0800          | <0.0000963       | 64   | 35 - 93.2     |
| Acenaphthene           | 0.0500        | mg/L  | 1    | 0.0800          | <0.0000617       | 62   | 35.8 - 92.9   |
| Dibenzofuran           | 0.0449        | mg/L  | 1    | 0.0800          | <0.0000952       | 56   | 35.3 - 85.1   |
| Fluorene               | 0.0594        | mg/L  | 1    | 0.0800          | <0.000134        | 74   | 43.4 - 101    |
| Anthracene             | 0.0510        | mg/L  | 1    | 0.0800          | <0.000441        | 64   | 44.8 - 92.4   |
| Phenanthrene           | 0.0577        | mg/L  | 1    | 0.0800          | <0.000435        | 72   | 44 - 93.7     |
| Fluoranthene           | 0.0683        | mg/L  | 1    | 0.0800          | <0.000476        | 85   | 52.7 - 104    |
| Pyrene                 | 0.0426        | mg/L  | 1    | 0.0800          | <0.000590        | 53   | 42.2 - 93.8   |
| Benzo(a)anthracene     | 0.0541        | mg/L  | 1    | 0.0800          | <0.000118        | 68   | 40.4 - 91.9   |
| Chrysene               | 0.0575        | mg/L  | 1    | 0.0800          | <0.0000766       | 72   | 44.4 - 107    |
| Benzo(b)fluoranthene   | 0.0386        | mg/L  | 1    | 0.0800          | <0.000146        | 48   | 34.8 - 105    |
| Benzo(k)fluoranthene   | 0.0441        | mg/L  | 1    | 0.0800          | <0.000141        | 55   | 50.2 - 158    |
| Benzo(a)pyrene         | 0.0452        | mg/L  | 1    | 0.0800          | <0.000132        | 56   | 51.3 - 151    |
| Indeno(1,2,3-cd)pyrene | 0.0441        | mg/L  | 1    | 0.0800          | <0.0000702       | 55   | 43.2 - 115    |
| Dibenzo(a,h)anthracene | 0.0565        | mg/L  | 1    | 0.0800          | <0.0000534       | 71   | 43.9 - 115    |
| Benzo(g,h,i)perylene   | 0.0442        | mg/L  | 1    | 0.0800          | <0.0000473       | 55   | 45.1 - 115    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param               | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Naphthalene         | 0.0377         | mg/L  | 1    | 0.0800          | <0.0000784       | 47   | 32.2 - 80.3   | 3   | 20           |
| 2-Methylnaphthalene | 0.0352         | mg/L  | 1    | 0.0800          | <0.0000747       | 44   | 34.8 - 87     | 1   | 20           |
| 1-Methylnaphthalene | 0.0357         | mg/L  | 1    | 0.0800          | <0.0000575       | 45   | 36.9 - 89.6   | 3   | 20           |
| Acenaphthylene      | 0.0493         | mg/L  | 1    | 0.0800          | <0.0000963       | 62   | 35 - 93.2     | 4   | 20           |
| Acenaphthene        | 0.0488         | mg/L  | 1    | 0.0800          | <0.0000617       | 61   | 35.8 - 92.9   | 2   | 20           |
| Dibenzofuran        | 0.0432         | mg/L  | 1    | 0.0800          | <0.0000952       | 54   | 35.3 - 85.1   | 4   | 20           |
| Fluorene            | 0.0571         | mg/L  | 1    | 0.0800          | <0.000134        | 71   | 43.4 - 101    | 4   | 20           |
| Anthracene          | 0.0497         | mg/L  | 1    | 0.0800          | <0.000441        | 62   | 44.8 - 92.4   | 3   | 20           |
| Phenanthrene        | 0.0559         | mg/L  | 1    | 0.0800          | <0.000435        | 70   | 44 - 93.7     | 3   | 20           |
| Fluoranthene        | 0.0667         | mg/L  | 1    | 0.0800          | <0.000476        | 83   | 52.7 - 104    | 2   | 20           |
| Pyrene              | 0.0419         | mg/L  | 1    | 0.0800          | <0.000590        | 52   | 42.2 - 93.8   | 2   | 20           |

continued ...

Report Date: January 10, 2011  
700376.044.01

Work Order: 11010415  
Moore to Jal #1

Page Number: 8 of 10  
Lovington, NM

control spikes continued ...

| Param                  | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzo(a)anthracene     | 0.0532         | mg/L  | 1    | 0.0800          | <0.000118        | 66   | 40.4 - 91.9   | 2   | 20           |
| Chrysene               | 0.0576         | mg/L  | 1    | 0.0800          | <0.0000766       | 72   | 44.4 - 107    | 0   | 20           |
| Benzo(b)fluoranthene   | 0.0393         | mg/L  | 1    | 0.0800          | <0.000146        | 49   | 34.8 - 105    | 2   | 20           |
| Benzo(k)fluoranthene   | 0.0434         | mg/L  | 1    | 0.0800          | <0.000141        | 54   | 50.2 - 158    | 2   | 20           |
| Benzo(a)pyrene         | 0.0458         | mg/L  | 1    | 0.0800          | <0.000132        | 57   | 51.3 - 151    | 1   | 20           |
| Indeno(1,2,3-cd)pyrene | 0.0428         | mg/L  | 1    | 0.0800          | <0.0000702       | 54   | 43.2 - 115    | 3   | 20           |
| Dibenzo(a,h)anthracene | 0.0551         | mg/L  | 1    | 0.0800          | <0.0000534       | 69   | 43.9 - 115    | 2   | 20           |
| Benzo(g,h,i)perylene   | 0.0421         | mg/L  | 1    | 0.0800          | <0.0000473       | 53   | 45.1 - 115    | 5   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Nitrobenzene-d5  | 0.0402        | 0.0400         | mg/L  | 1    | 0.0800          | 50          | 50           | 10 - 111      |
| 2-Fluorobiphenyl | 0.0408        | 0.0391         | mg/L  | 1    | 0.0800          | 51          | 49           | 10 - 92.7     |
| Terphenyl-d14    | 0.0479        | 0.0472         | mg/L  | 1    | 0.0800          | 60          | 59           | 35.9 - 107    |

Matrix Spike (MS-1) Spiked Sample: 254648

QC Batch: 76726  
Prep Batch: 65792

Date Analyzed: 2011-01-06  
QC Preparation: 2011-01-06

Analyzed By: ME  
Prepared By: ME

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 35.7         | mg/L  | 100  | 10.0            | 25.445           | 102  | 77.9 - 114    |
| Toluene      | 10.8         | mg/L  | 100  | 10.0            | 1.5014           | 93   | 78.3 - 111    |
| Ethylbenzene | 10.5         | mg/L  | 100  | 10.0            | 1.0507           | 94   | 75.3 - 110    |
| Xylene       | 30.8         | mg/L  | 100  | 30.0            | 2.2424           | 95   | 75.7 - 109    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 35.3          | mg/L  | 100  | 10.0            | 25.445           | 98   | 77.9 - 114    | 1   | 20           |
| Toluene      | 10.8          | mg/L  | 100  | 10.0            | 1.5014           | 93   | 78.3 - 111    | 0   | 20           |
| Ethylbenzene | 10.6          | mg/L  | 100  | 10.0            | 1.0507           | 95   | 75.3 - 110    | 1   | 20           |
| Xylene       | 31.0          | mg/L  | 100  | 30.0            | 2.2424           | 96   | 75.7 - 109    | 1   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 8.58         | 8.77          | mg/L  | 100  | 10              | 86         | 88          | 68.3 - 107    |
| 4-Bromofluorobenzene (4-BFB) | 9.05         | 9.34          | mg/L  | 100  | 10              | 90         | 93          | 60.1 - 135    |



**Standard (CCV-1)**

QC Batch: 76726

Date Analyzed: 2011-01-06

Analyzed By: ME

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0877                 | 88                          | 80 - 120                      | 2011-01-06       |
| Toluene      |      | mg/L  | 0.100                 | 0.0999                 | 100                         | 80 - 120                      | 2011-01-06       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.101                  | 101                         | 80 - 120                      | 2011-01-06       |
| Xylene       |      | mg/L  | 0.300                 | 0.307                  | 102                         | 80 - 120                      | 2011-01-06       |

**Standard (CCV-2)**

QC Batch: 76726

Date Analyzed: 2011-01-06

Analyzed By: ME

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0848                 | 85                          | 80 - 120                      | 2011-01-06       |
| Toluene      |      | mg/L  | 0.100                 | 0.0952                 | 95                          | 80 - 120                      | 2011-01-06       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0952                 | 95                          | 80 - 120                      | 2011-01-06       |
| Xylene       |      | mg/L  | 0.300                 | 0.290                  | 97                          | 80 - 120                      | 2011-01-06       |

**Standard (CCV-1)**

QC Batch: 76746

Date Analyzed: 2011-01-07

Analyzed By: MN

| Param                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Naphthalene          |      | mg/L  | 60.0                  | 52.5                   | 88                          | 80 - 120                      | 2011-01-07       |
| 2-Methylnaphthalene  |      | mg/L  | 60.0                  | 53.0                   | 88                          | 80 - 120                      | 2011-01-07       |
| 1-Methylnaphthalene  |      | mg/L  | 60.0                  | 51.6                   | 86                          | 80 - 120                      | 2011-01-07       |
| Acenaphthylene       |      | mg/L  | 60.0                  | 51.2                   | 85                          | 80 - 120                      | 2011-01-07       |
| Acenaphthene         |      | mg/L  | 60.0                  | 53.3                   | 89                          | 80 - 120                      | 2011-01-07       |
| Dibenzofuran         |      | mg/L  | 60.0                  | 57.2                   | 95                          | 80 - 120                      | 2011-01-07       |
| Fluorene             |      | mg/L  | 60.0                  | 58.6                   | 98                          | 80 - 120                      | 2011-01-07       |
| Anthracene           |      | mg/L  | 60.0                  | 49.1                   | 82                          | 80 - 120                      | 2011-01-07       |
| Phenanthrene         |      | mg/L  | 60.0                  | 53.2                   | 89                          | 80 - 120                      | 2011-01-07       |
| Fluoranthene         |      | mg/L  | 60.0                  | 51.2                   | 85                          | 80 - 120                      | 2011-01-07       |
| Pyrene               |      | mg/L  | 60.0                  | 56.4                   | 94                          | 80 - 120                      | 2011-01-07       |
| Benzo(a)anthracene   |      | mg/L  | 60.0                  | 54.7                   | 91                          | 80 - 120                      | 2011-01-07       |
| Chrysene             |      | mg/L  | 60.0                  | 48.3                   | 80                          | 80 - 120                      | 2011-01-07       |
| Benzo(b)fluoranthene |      | mg/L  | 60.0                  | 57.6                   | 96                          | 80 - 120                      | 2011-01-07       |
| Benzo(k)fluoranthene |      | mg/L  | 60.0                  | 48.8                   | 81                          | 80 - 120                      | 2011-01-07       |

continued ...

Report Date: January 10, 2011  
700376.044.01

Work Order: 11010415  
Moore to Jal #1

Page Number: 10 of 10  
Lovington, NM

*standard continued ...*

| Param                  | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzo(a)pyrene         |      | mg/L  | 60.0                  | 55.0                   | 92                          | 80 - 120                      | 2011-01-07       |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60.0                  | 53.9                   | 90                          | 80 - 120                      | 2011-01-07       |
| Dibenzo(a,h)anthracene |      | mg/L  | 60.0                  | 53.0                   | 88                          | 80 - 120                      | 2011-01-07       |
| Benzo(g,h,i)perylene   |      | mg/L  | 60.0                  | 55.8                   | 93                          | 80 - 120                      | 2011-01-07       |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      | 67.3   | mg/L  | 1        | 60.0            | 112                 | 80 - 120          |
| 2-Fluorobiphenyl |      | 53.4   | mg/L  | 1        | 60.0            | 89                  | 80 - 120          |
| Terphenyl-d14    |      | 59.7   | mg/L  | 1        | 60.0            | 100                 | 80 - 120          |



**APPENDIX D**

**NMOCD C-141**



**ENVIRONMENTAL PLUS, INC.**

*Micro-Blaze*

*Micro-Blaze Out™*

**STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES**

October 23, 2003

Mr. Paul Sheeley  
Environmental Engineer  
New Mexico Oil Conservation Division  
1625 North French  
Hobbs, New Mexico 88240

Subject: EOTT Initial C-141

Re: 8" Moore to Jal #1, 2002-10270  
UL- F, SE¼ of the NW¼ of Section 16 T17S R37E  
Latitude 32° 50' 12.36"N and Longitude 103° 15' 26.234"W.  
Landowner: State of New Mexico

Dear Mr. Sheeley,

Environmental Plus, Inc. (EPI), on behalf of Mr. Frank Hernandez, EOTT, submits the attached New Mexico Oil Conservation Division (NMOCD) form C-141 for the above referenced leak site located on land owned by the State of New Mexico, approximately ~8 miles southeast of Lovington, New Mexico. The New Mexico Tech Geo-Information Database records a groundwater depth of ~66'bgs. The attached site information and metrics form ranks the site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993).

A remediation plan will be developed and submitted for NMOCD approval and will address issues identified during delineation of the vertical and horizontal extents of contamination of the Constituents of Concern (CoCs), i.e., Chloride, Total Petroleum Hydrocarbon EPA method 8015m (TPH<sup>8015m</sup>), Benzene, and BTEX, i.e., the mass sum of Benzene, Toluene, Ethyl Benzene, and Xylenes. The contaminated soil is not exempted from RCRA 40 CFR Part 261.

If there are any questions please call Mr. Ben Miller or myself at the office or at 505.390.0288 and 505.390.7864, respectively or Mr. Frank Hernandez at 915.638.3799. All official communication should be addressed to:

Mr. Frank Hernandez  
EOTT  
PO Box 1660 5805 East Highway 80  
Midland, Texas 79702

Sincerely,

Pat McCasland  
EPI Technical Services Manager

cc: Frank Hernandez, EOTT, w/enclosure  
Ben Miller, EPI Vice President and General Manager  
Sherry Miller, EPI President  
file

ENVIRONMENTAL PLUS, INC.

| <b>EOTT Site Information and Metrics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Incident Date:</b><br><b>10-18-02 @ 10:00 AM</b>                                         | <b>NMOCD Notified:</b><br>10-18-02 @ 11:00 AM Pat McCasland EPI left message with Paul Sheeley and sent page to the "ON-CALL" representative |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|-----------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------|-------------------------|------------------------------------|-------------------------|------------------------|--|--|
| <b>SITE: 8" Moore to Jal #1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Assigned Site Reference #: 2002-10270</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Company: EOTT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Street Address: PO Box 1660</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Mailing Address: 5805 East Highway 80</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>City, State, Zip: Midland, Texas 79702</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Representative: Frank Hernandez</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Representative Telephone: 915.638.3799</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Telephone:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Fluid volume released (bbls): 200 bbls</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                             | <b>Recovered (bbls): 0 bbls</b>                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| >25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days.<br>(Also applies to unauthorized releases >500 mcf Natural Gas)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| 5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Leak, Spill, or Pit (LSP) Name: 8" Moore to Jal #1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Source of contamination: 8" Steel Pipeline</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>LSP Dimensions ~200' x 40'</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>LSP Area: 8,000 sqft ft<sup>2</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Location of Reference Point (RP)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Location distance and direction from RP</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Latitude: 32° 50' 12.36"N</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Longitude: 103° 15' 26.234"W.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Elevation above mean sea level:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Feet from South Section Line</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Feet from West Section Line</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Location- Unit or ¼¼: SE¼ of the NW¼</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                             | <b>Unit Letter: F</b>                                                                                                                        |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Location- Section: 16</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Location- Township: T17S</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Location- Range: R37E</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Surface water body within 1000' radius of site: none</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Surface water body within 1000' radius of site:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Domestic water wells within 1000' radius of site: none</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Domestic water wells within 1000' radius of site:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Agricultural water wells within 1000' radius of site: none</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Agricultural water wells within 1000' radius of site:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Public water supply wells within 1000' radius of site: none</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Public water supply wells within 1000' radius of site:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Depth from land surface to ground water (DG) ~66'bgs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Depth of contamination (DC) - ?</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Depth to ground water (DG - DC = DiGW) - ?</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">1. Ground Water</th> <th style="width: 33%;">2. Wellhead Protection Area</th> <th style="width: 33%;">3. Distance to Surface Water Body</th> </tr> <tr> <td>If Depth to GW &lt;50 feet: <i>20 points</i></td> <td rowspan="2">If &lt;1000' from water source, or; &lt;200' from private domestic water source: <i>20 points</i></td> <td>&lt;200 horizontal feet: <i>20 points</i></td> </tr> <tr> <td>If Depth to GW 50 to 99 feet: <i>10 points</i></td> <td>200-100 horizontal feet: <i>10 points</i></td> </tr> <tr> <td>If Depth to GW &gt;100 feet: <i>0 points</i></td> <td>If &gt;1000' from water source, or; &gt;200' from private domestic water source: <i>0 points</i></td> <td>&gt;1000 horizontal feet: <i>0 points</i></td> </tr> <tr> <td>Ground water Score = 10</td> <td>Wellhead Protection Area Score = 0</td> <td>Surface Water Score = 0</td> </tr> <tr> <td colspan="3">Site Rank (1+2+3) = 10</td> </tr> </table> |                                                                                             |                                                                                                                                              | 1. Ground Water | 2. Wellhead Protection Area | 3. Distance to Surface Water Body | If Depth to GW <50 feet: <i>20 points</i> | If <1000' from water source, or; <200' from private domestic water source: <i>20 points</i> | <200 horizontal feet: <i>20 points</i> | If Depth to GW 50 to 99 feet: <i>10 points</i> | 200-100 horizontal feet: <i>10 points</i> | If Depth to GW >100 feet: <i>0 points</i> | If >1000' from water source, or; >200' from private domestic water source: <i>0 points</i> | >1000 horizontal feet: <i>0 points</i> | Ground water Score = 10 | Wellhead Protection Area Score = 0 | Surface Water Score = 0 | Site Rank (1+2+3) = 10 |  |  |
| 1. Ground Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2. Wellhead Protection Area                                                                 | 3. Distance to Surface Water Body                                                                                                            |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| If Depth to GW <50 feet: <i>20 points</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | If <1000' from water source, or; <200' from private domestic water source: <i>20 points</i> | <200 horizontal feet: <i>20 points</i>                                                                                                       |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| If Depth to GW 50 to 99 feet: <i>10 points</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                             | 200-100 horizontal feet: <i>10 points</i>                                                                                                    |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| If Depth to GW >100 feet: <i>0 points</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | If >1000' from water source, or; >200' from private domestic water source: <i>0 points</i>  | >1000 horizontal feet: <i>0 points</i>                                                                                                       |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| Ground water Score = 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Wellhead Protection Area Score = 0                                                          | Surface Water Score = 0                                                                                                                      |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| Site Rank (1+2+3) = 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <b>Total Site Ranking Score and Acceptable Concentrations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | >19                                                                                         | 10-19                                                                                                                                        | 0-9             |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| Benzene <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10 ppm                                                                                      | 10 ppm                                                                                                                                       | 10 ppm          |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| BTEX <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50 ppm                                                                                      | 50 ppm                                                                                                                                       | 50 ppm          |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| TPH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 100 ppm                                                                                     | 1000 ppm                                                                                                                                     | 5000 ppm        |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |
| <sup>1</sup> 100 ppm field VOC headspace measurement may be substituted for lab analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                             |                                                                                                                                              |                 |                             |                                   |                                           |                                                                                             |                                        |                                                |                                           |                                           |                                                                                            |                                        |                         |                                    |                         |                        |  |  |

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

|                                                                  |                                    |
|------------------------------------------------------------------|------------------------------------|
| Name of Company<br><b>EOTT</b>                                   | Contact<br><b>Frank Hernandez</b>  |
| Address<br>PO Box 1660 5805 East Highway 80 Midland, Texas 79702 | Telephone No.<br>915.638.3799      |
| Facility Name<br>8" Moore to Jal #1                              | Facility Type<br>8" Steel Pipeline |

|                                      |               |           |
|--------------------------------------|---------------|-----------|
| Surface Owner<br>State of New Mexico | Mineral Owner | Lease No. |
|--------------------------------------|---------------|-----------|

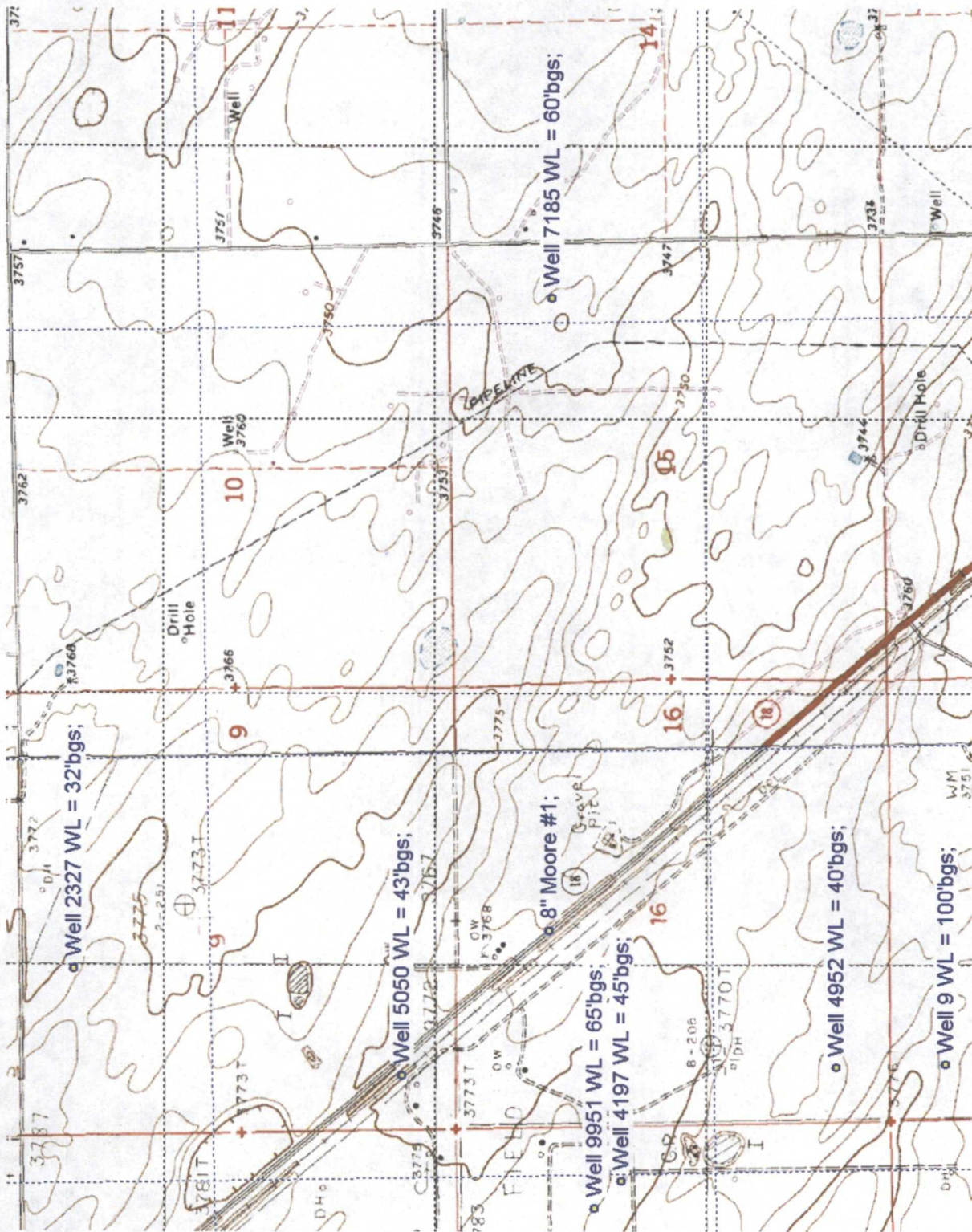
**LOCATION OF RELEASE**

|                   |               |                  |               |               |                  |               |                |                                                                |
|-------------------|---------------|------------------|---------------|---------------|------------------|---------------|----------------|----------------------------------------------------------------|
| Unit Letter<br>16 | Section<br>16 | Township<br>T17S | Range<br>R37E | Feet from the | North/South Line | Feet from the | East/West Line | County: Lea<br>Lat. 32° 50' 12.36"N<br>Lon. 103° 15' 26.234"W. |
|-------------------|---------------|------------------|---------------|---------------|------------------|---------------|----------------|----------------------------------------------------------------|

**NATURE OF RELEASE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                     |                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Type of Release<br>Crude Oil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Volume of Release<br>200 bbls barrels                                                                                               | Volume Recovered<br>0 bbls barrels               |
| Source of Release<br>8" Steel Pipeline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Date and Hour of Occurrence<br>EOTT                                                                                                 | Date and Hour of Discovery<br>10-18-02 @ 8:00 AM |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | If YES, To Whom?<br>Paul Sheeley                                                                                                    |                                                  |
| By Whom?<br>Pat McCasland, EPI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Date and Hour<br>10-18-02 @ 11:00 AM Pat McCasland EPI left message with Paul Sheeley and sent page to the "ON-CALL" representative |                                                  |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | If YES, Volume Impacting the Watercourse.<br>NA                                                                                     |                                                  |
| If a Watercourse was Impacted, Describe Fully.*<br>NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                     |                                                  |
| Describe Cause of Problem and Remedial Action Taken.*<br>8" Steel Pipeline Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                     |                                                  |
| Describe Area Affected and Cleanup Action Taken.*<br>8,000 sqft ~200' x 40' Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of. Remedial Goals: TPH 8015m = 1000 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                     |                                                  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |                                                                                                                                     |                                                  |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b><u>OIL CONSERVATION DIVISION</u></b>                                                                                             |                                                  |
| Printed Name: Frank Hernandez                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Approved by District Supervisor:                                                                                                    |                                                  |
| Title: District Environmental Supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Approval Date:                                                                                                                      | Expiration Date:                                 |
| Date: October 23, 2003 Phone: 915.638.3799                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Conditions of Approval:                                                                                                             | Attached <input type="checkbox"/>                |

\* Attach Additional Sheets If Necessary





EOTT ENERGY  
PIPELINE  
8" MOORE TO  
JAL  
#2002-10270  
UL-F SEC 16  
T17S R37E  
AFFECTED AREA  
~8,000 SQFT

N

SCALE 1:500



LAT/LONG  
WGS 1984

R10181A.CDR  
10/22/2002

